Received by OCD: 3/16/2021 2:18:20 Submit 1 Copy To Appropriate District	State of New Me	exico	F	Page 1 of 13 orm C-103
Office <u>District I</u> – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Natural Resources		WELL API NO.	1 July 18, 2013
<u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210	OIL CONSERVATION DIVISION		30-005-20019	
District III - (505) 334-6178	1220 South St. Francis Dr.		5. Indicate Type of Lease STATE ☐ FEE	
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> – (505) 476-3460	Santa Fe, NM 87505		6. State Oil & Gas Lease No.	
1220 S. St. Francis Dr., Santa Fe, NM 87505	54114 1 5, 1 111 5		o. State Off & Gas Lease No.	
SUNDRY NOT	TICES AND REPORTS ON WELLS OSALS TO DRILL OR TO DEEPEN OR PL		7. Lease Name or Unit Agreer Cato San Andres Unit	nent Name
	CATION FOR PERMIT" (FORM C-101) FO			
1. Type of Well: Oil Well	Gas Well  Other		8. Well Number 70	
2. Name of Operator			9. OGRID Number	
Cano Petro of New Mexico, Inc	;.		330485	
3. Address of Operator 801 Cherry Street Suite 3200 Ur	nit 25 Fort Worth, TX 76102		<ol><li>Pool name or Wildcat Cato; San Andres</li></ol>	
4. Well Location				
Unit Letter D	660feet from the	N line and		line
Section 16	Township 08S	Range 30E	NMPM County Chave	es
	11. Elevation (Show whether DR) 4104	, RKB, RT, GR, etc.)		
PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING DOWNHOLE COMMINGLE CLOSED-LOOP SYSTEM OTHER:  13. Describe proposed or compof starting any proposed w proposed completion or recomposed completion or recompletion or recomposed completion or recompletion or r	well in accordance with the attached	REMEDIAL WORK COMMENCE DRII CASING/CEMENT OTHER: pertinent details, and	LING OPNS. P AND A JOB give pertinent dates, including appletions: Attach wellbore diagram	CASING    CASING   CA
411 12 4 414				
4" diameter 4" ta	all Above Ground Marker			
		SEE ATT OF APPI	ACHED CONDITIONS ROVAL	
Spud Date:	Rig Release Da	ate:		
I hereby certify that the information	above is true and complete to the be	est of my knowledge	and belief.	
SIGNATURE		ed Representative	DATE 3/5/	21
			CONTRACTOR OF THE CONTRACTOR O	
Type or print name Drake McCullo For State Use Only	E-mail address:	drake@dwsrigs.co	M PHONE: 505 32	0 1180
APPROVED BY: Conditions of Approval (if any):	Forther TITLE Com	pliance Officer A	DATE 3/16/2	.1

# Cano Petro/NMOCD OWP

## Plug And Abandonment Procedure

#### Cato San Andres Unit #70

660' FNL & 660' FWL, Section 16, T8S, R30E Chaves County, NM / API 30-005-20019

- 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 3170'. 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 3243'.
- 7. P/U 4-1/2" CR, RIH and set CR at +/- 3193'. 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 3193' to surface to identify TOC. Adjust plugs as necessary for new TOC. Email log copy to Brandon Powell at <a href="mailto:Brandon.powell@state.nm.us">Brandon.powell@state.nm.us</a> 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 3193'-2893', 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 504'-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 504' 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 504' 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.

# **Wellbore Diagram**

Cato San Andres Unit #070 API #: 30-005-20019 Chaves County, New Mexico

### Plug 3

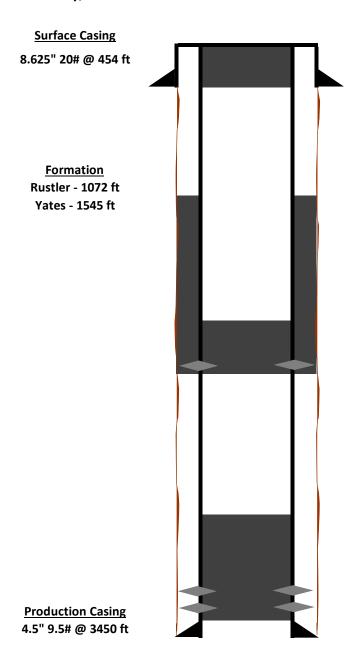
504 feet - Surface 504 feet plug 150 sacks of Class C Cement

#### Plug 2

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

### Plug 1

3193 feet - 2893 feet 300 feet plug 25 sacks of Class C Cement



# 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, woe 4 hours and tag, this plug will be SO' 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, woe and tagged. These plugs will be set SO' 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 least¼" 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

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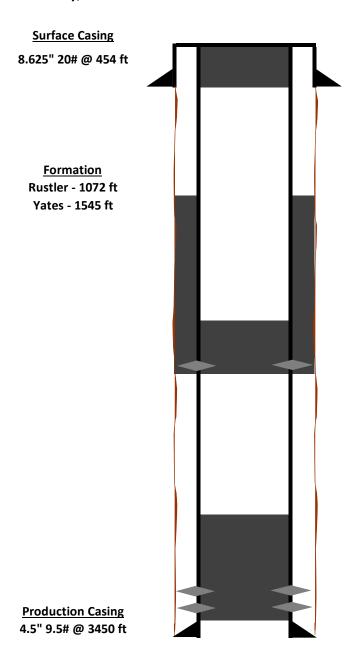
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811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

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 20961

#### **COMMENTS**

Operator:			OGRID:	Action Number:	Action Type:
J.A. DRAKE WELL SERVICE INC. 6	07 W Pinon	Farmington, NM87401	330485	20961	C-103F

Created By	Comment	Comment Date
plmartinez	DATA ENTRY PM	03/17/2021

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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 20961

#### **CONDITIONS OF APPROVAL**

Operator:			OGRID:	Action Number:	Action Type:
J.A. DRAKE WELL SERVICE INC.	607 W Pinon	Farmington, NM87401	330485	20961	C-103F

OCD Reviewer	Condition
kfortner	See attached conditions of approval