	State of New Mexico	Form Cago 3 of
Office <u>District I</u> – (575) 393-6161	Energy, Minerals and Natural Re	sources Revised July 18, 2013
1625 N. French Dr., Hobbs, NM 88	240	WELL API NO.
<u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210	OIL CONSERVATION DIV	ISION 30-005-20034
District III - (505) 334-6178	1220 South St. Francis D	r. 5. Indicate Type of Lease STATE FEE
1000 Rio Brazos Rd., Aztec, NM 8 <u>District IV</u> – (505) 476-3460	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, N		o. State on & das Bease 140.
87505	NOTICES AND DEPORTS ON WELLS	7. Longo Namo av Unit Agraement Namo
	' NOTICES AND REPORTS ON WELLS PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BAC	7. Lease Name or Unit Agreement Name CK TO A Cato San Andres Unit
DIFFERENT RESERVOIR. USE	"APPLICATION FOR PERMIT" (FORM C-101) FOR SUC	
PROPOSALS.) 1. Type of Well: Oil Well	☐ Gas Well ☐ Other	8. Well Number 122
2. Name of Operator	☐ Gas well ☐ Giller	9. OGRID Number
Cano Petro of New Mexic	co, Inc.	330485
3. Address of Operator		10. Pool name or Wildcat
	00 Unit 25 Fort Worth, TX 76102	Cato; San Andres
4. Well Location		
Unit LetterO	7 C.U	line and1980_feet from theEline
Section 16		nge 30E NMPM County Chaves
	11. Elevation (Show whether DR, RKB, 4123	RT, GR, etc.)
	7123	
12 Cł	neck Appropriate Box to Indicate Nature	of Notice Report or Other Data
12. CI	reck Appropriate Box to marcate Nature	of Notice, Report of Other Data
	OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WOR		EDIAL WORK ALTERING CASING
TEMPORARILY ABANDON		MENCE DRILLING OPNS. P AND A
PULL OR ALTER CASING	The state of the s	NG/CEMENT JOB
DOWNHOLE COMMINGLE		
CLOSED-LOOP SYSTEM OTHER:	ОТН	FR· \square
O 111E1 (.		
13. Describe proposed or	r completed operations. (Clearly state all pertine	
		nt details, and give pertinent dates, including estimated date Multiple Completions: Attach wellbore diagram of
	sed work). SEE RULE 19.15.7.14 NMAC. For	nt details, and give pertinent dates, including estimated date
of starting any propo proposed completion	sed work). SEE RULE 19.15.7.14 NMAC. For a or recompletion.	nt details, and give pertinent dates, including estimated date Multiple Completions: Attach wellbore diagram of
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Wellbore Diagram

Cato San Andres Unit #122 API #: 30-005-20034 Chaves County, New Mexico

P&S Plug 3

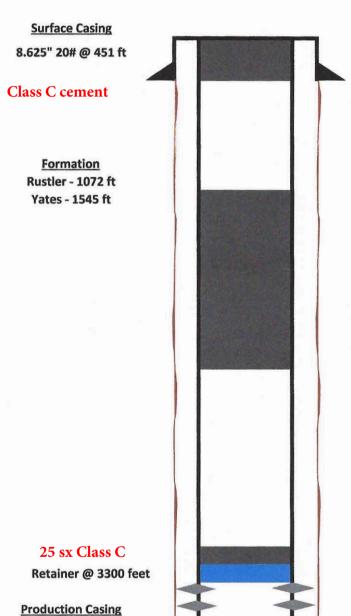
501 feet - Surface
501 feet plug
40 sacks of Class & Cement

P&\square\left\lambda\left\lam

1595 feet - 972 feet 623 feet plug 50 sacks outside of casing

Plug 1

3300 feet - 3250 feet 50 feet plug 63aeks of Class G Cement 25 sx Class C



Production Casing 4.5" 9.5# @ 3550 ft

Cano Petro/NMOCD OWP

Plug And Abandonment Procedure

Cato San Andres Unit #122

660' FSL & 1980' FEL, Section 16, T8S, R30E Chaves County, NM / API 30-005-20034

- 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 3407'. 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 3350'.
- 7. P/U 4-1/2" CR, RIH and set CR at +/- 3300'. 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 3300' 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.
- 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 3300'-3250', 6
25 sx Class C Sacks Class G Cement)
25 sx Class C

Mix 6 sx Class G 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', 50 Sacks Class G Cement)

Mix 50 sx Class G cement and spot a balanced plug inside casing to cover the Yates and Rustler formation tops.

P&S

13. Plug 3 (Surface Casing Shoe 501'-Surface, 40 Sacks Class G 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 40 sx cement and spot a balanced plug from 501' 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 501' 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.

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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Mix 6 sx Class G cement and spot a balanced plug inside casing to cover the San Andres perforations and formation top.

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Cato San Andres Unit #122 API #: 30-005-20034 Chaves County, New Mexico

Plug 3

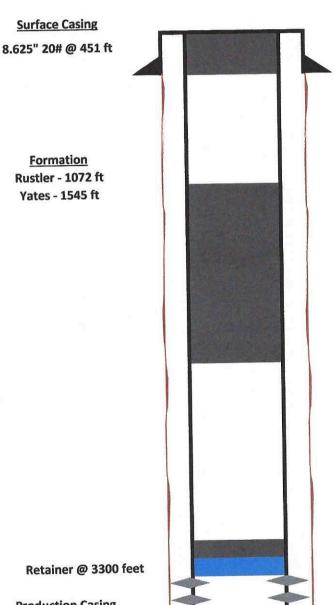
501 feet - Surface 501 feet plug 40 sacks of Class G Cement

Plug 2

1595 feet - 972 feet 623 feet plug 50 sacks outside of casing

Plug 1

3300 feet - 3250 feet 50 feet plug 6 sacks of Class G Cement



Production Casing 4.5" 9.5# @ 3550 ft

Wellbore Diagram

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4.5" 9.5# @ 3550 ft

Plug 3

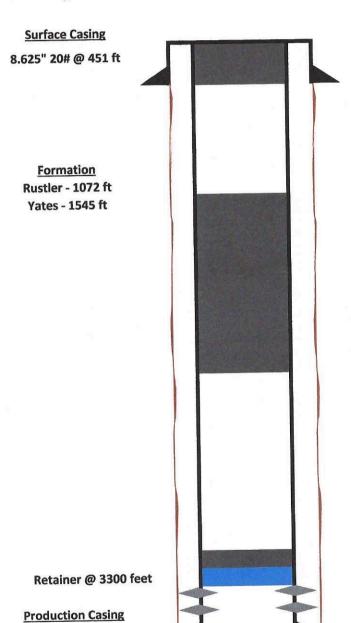
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<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

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**

CONDITIONS

Action 15892

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
J.A. DRAKE WELL SERVICE INC.	607 W Pinon	Farmington, NM87401	330485	15892	C-103F

OCD Reviewer	Condition
kfortner	See Attached Conditions of Approval Note Changes to Procedure