Received by COCD: 10270202 P4:16:55	PM State of New Me	exico	Form Page 8 of 13		
Office <u>District I</u> – (575) 393-6161	Energy, Minerals and Natural Resources		Revised July 18, 2013		
1625 N. French Dr., Hobbs, NM 88240			WELL API NO. 30-005-20041		
<u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210	OIL CONSERVATION DIVISION		5. Indicate Type of Lease		
<u>District III</u> – (505) 334-6178	1220 South St. Francis Dr.		STATE S FEE		
1000 Rio Brazos Rd., Aztec, NM 87410 District IV – (505) 476-3460	Santa Fe, NM 87505		6. State Oil & Gas Lease No.		
1220 S. St. Francis Dr., Santa Fe, NM 87505	,		or same on a substitution		
SUNDRY NOTICES AND REPORTS ON WELLS			7. Lease Name or Unit Agreement Name		
(DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR. USE "APPLIC PROPOSALS.)	Cato San Andres Unit				
1. Type of Well: Oil Well	8. Well Number 121				
Name of Operator Cano Petro of New Mexico, Inc.	9. OGRID Number 330485				
3. Address of Operator					
801 Cherry Street Suite 3200 Uni	t 25 Fort Worth, TX 76102		10. Pool name or Wildcat Cato; San Andres		
4. Well Location					
Unit Letter P	660feet from the	_S line and	660_feet from theE line		
Section 16	Township 08S	Range 30E	NMPM County Chaves		
	11. Elevation (Show whether DR)	, RKB, RT, GR, etc.,			
	3650				
12 (1)		CNI-4'	Donot on Other Date		
12. Check A	Appropriate Box to Indicate N	ature of Notice,	Report or Other Data		
NOTICE OF IN	TENTION TO:	SUB	SEQUENT REPORT OF:		
PERFORM REMEDIAL WORK	PLUG AND ABANDON 🛛	REMEDIAL WOR			
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING OPNS. P AND A			
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT JOB			
DOWNHOLE COMMINGLE		50 - 50 - 50 - 50 - 50 - 50 - 50 - 50 -			
CLOSED-LOOP SYSTEM	_		_		
OTHER:		OTHER:			
13. Describe proposed or comp	leted operations. (Clearly state all j	pertinent details, and	d give pertinent dates, including estimated date npletions: Attach wellbore diagram of		
proposed completion or rec		. For Multiple Col	inpletions. Attach wendore diagram of		
NMOCD plans to plug this w	vell in accordance with the attached	procedure and any	agreed modifications thereto.		
		procedure and any	agreed modifications thereto.		
ESTIMATED START DAT	E 1/25/21				
4" diame	eter 4' tall Above Ground Mar	ker			
4 didine	ACT 4 Tall Above Ground Mar	Koi			
		SEE ATT	ACHED CONDITIONS		
		OF APPR			
Spud Date:	Rig Release Da	ate:			
Space Date.	This release 20				
I hereby certify that the information	above is true and complete to the b	est of my knowledg	e and belief.		
SIGNATURE TO Mode	TITLE Authoriz	ed Representative_	DATE 1/21/20		
Type or print name Drake McCullor For State Use Only	ch E-mail address	: drake@dwsrigs.co	PHONE: 505 320 1180		
APPROVED BY: Conditions of Approval (if any)	Forther TITLE COM	ipliance Officer A	DATE_ 1/29/21		

Wellbore Diagram

Cato San Andres Unit #121 API #: 30-005-20041 Chaves County, New Mexico

P&S Plug 3

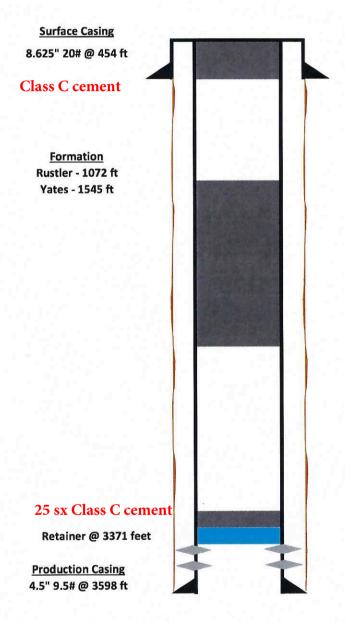
504 feet - Surface 504 feet plug 40 sacks of Class Cement

P&S Plug 2 1595 feet - 972 feet 623 feet plug

623 feet plug 50 sacks outside of casing

Plug 1

3371 feet - 3321 feet
50 feet plug
Sacks of Class G Cement
25 sx Class C



Cano Petro/NMOCD OWP

Plug And Abandonment Procedure Cato San Andres Unit #121

North Committee Committee

Chaves County, NM / API 30-005-20041

660' FSL & 660' FEL, Section 16, T8S, R30E

- 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 3471'. 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 3421'.
- 7. P/U 4-1/2" CR, RIH and set CR at +/- 3371'. 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 3371' 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.
- 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 3371'-3321', 6 Sacks Class G Cement)

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

P&S
12. Plug 2 (Yates and Rustler Formation Tops 1595'-972', 50 Sacks Class Cement)

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

P&S
13. Plug 3 (Surface Casing Shoe 504'-Surface, 40 Sacks Class (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 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.

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

Plug And Abandonment Procedure

Cato San Andres Unit #121

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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.

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.

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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 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.

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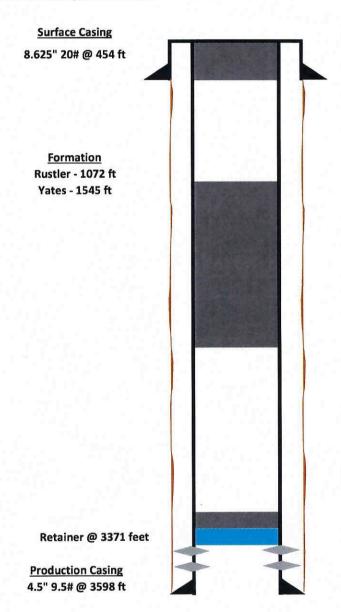
504 feet - Surface 504 feet plug 40 sacks of Class G Cement

Plug 2

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

Plug 1

3371 feet - 3321 feet 50 feet plug 6 sacks of Class G Cement



Wellbore Diagram

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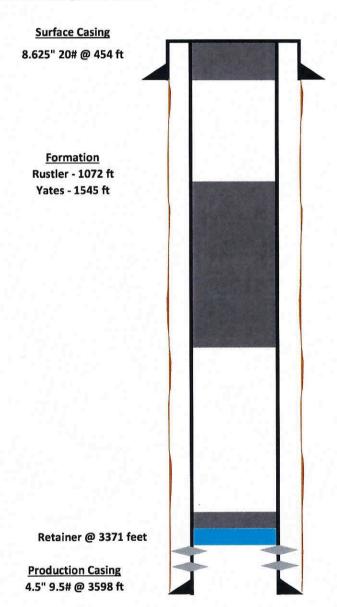
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<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

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 15891

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
J.A. DRAKE WELL SERVICE INC.	607 W Pinon	Farmington, NM87401	330485	15891	C-103F

OCD Reviewer	Condition
kfortner	See Attached Conditions of Approval Note changes on procedure