Received by OND 1127/20213:46:24 PN Office	State of New Mexico				
<u>District I</u> – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Natural Resources		Revised July 18, 2013 WELL API NO.		
<u>District II</u> – (575) 748-1283	OIL CONCEDUATION DIVIGION		30-005-20032		
811 S. First St., Artesia, NM 88210 <u>District III</u> – (505) 334-6178	OIL CONSERVATION DIVISION		5. Indicate Type of Lease		
1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.		STATE FEE		
<u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fe, NM 87505		6. State Oil & Gas Lease No.		
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			7. Lease Name or Unit Agreement Name Cato San Andres Unit		
PROPOSALS.) 1. Type of Well: Oil Well Ga	8. Well Number 103				
Type of Well: Oil Well			9. OGRID Number		
Cano Petro of New Mexico, Inc.			330485		
3. Address of Operator	Front Words TV 76102		10. Pool name or Wildcat		
801 Cherry Street Suite 3200 Unit 2	5 Fort Worth, 1X 76102		Cato; San A	ndres	
4. Well Location Unit Letter K	1980feet from the	S line and	1980_feet from t	heW line	
Section 16	Township 08S	Range 30E	NMPM Co	ounty Chaves	
	1. Elevation (Show whether DR,	RKB, RT, GR, etc.)			
	4118				
12. Check An	propriate Box to Indicate N	ature of Notice	Report or Other I	Data	
	NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:				
	FORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK ALTERING CASING IPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING OPNS. P AND A				
	CHANGE PLANS MULTIPLE COMPL	COMMENCE DRILLING OPNS. P AND A CASING/CEMENT JOB			
DOWNHOLE COMMINGLE	NOLTIFLE COMPL	CASING/CEWENT	30B		
CLOSED-LOOP SYSTEM					
OTHER:		OTHER:			
	. SEE RULE 19.15.7.14 NMAC				
proposed completion or recom	pletion.				
NMOCD plans to plug this well	in accordance with the attached	procedure and any a	agreed modifications	thereto.	
ESTIMATED START DATE 1	/25/21				
4" diameter 4	4' tall Above Ground Marke	er			
		SEE ATTACHE	_		
		CONDITIONS (OF APPROVAL		
Spud Date:	Rig Release Da	te:			
I hereby certify that the information abo	ove is true and complete to the be	est of my knowledge	and belief		
		ier er im, imre ii rengi			
SIGNATURE A McChill	TITLE Authoriz	ed Representative_		DATE 1/21/20	
Type or print name Drake McCulloch_ For State Use Only		drake@dwsrigs.co	om PHC	NE: 505 320 1180	
APPROVED BY: Yey 3 Conditions of Approval (if any):	TITLE COMP	liance Officer A	DAT	E_1/29/21	

Cano Petro/NMOCD OWP

Plug And Abandonment Procedure Cato San Andres Unit #103

1980' FSL & 1980' FWL, Section 16, T8S, R30E Chaves County, NM / API 30-005-20032

- 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.
- 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 3345'. TOOH with 2-3/8" tubing.
- 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 3292'.
- 7. P/U 4-1/2" CR, RIH and set CR at +/- 3242'. 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 3242' 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

Perf and Squeeze

11. Plug 1 (San Andres Perforations and Formation Top 3242'-3192', & 25 Sacks Class & Cement)

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

Perf and Squeeze

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

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

13. Plug 3 (Surface Casing Shoe 501'-Surface, 40 Sacks Class & Cement)

Perf and Squeeze

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.

Cato San Andres Unit #103 API #: 30-005-20032 Chaves County, New Mexico

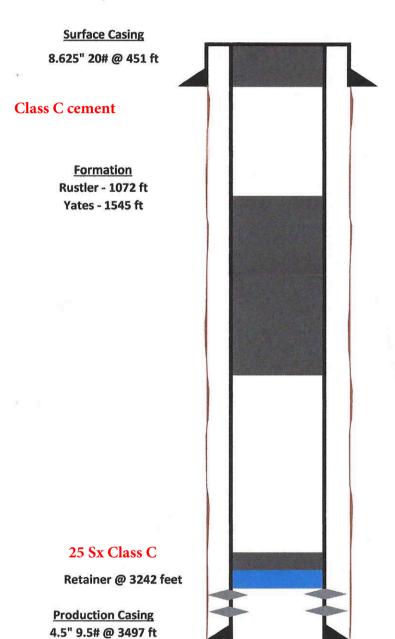
Plug 3 P&S

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

Plug 2 P&S

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

Plug 1 P&S



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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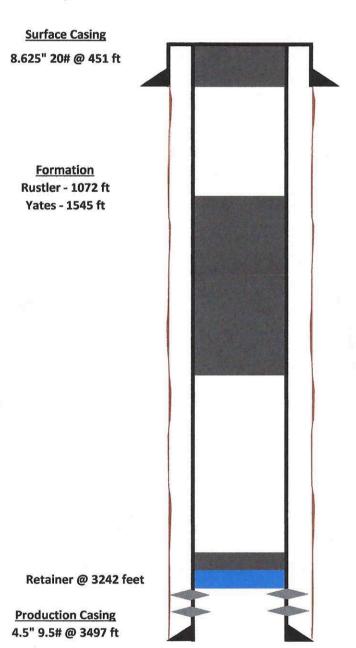
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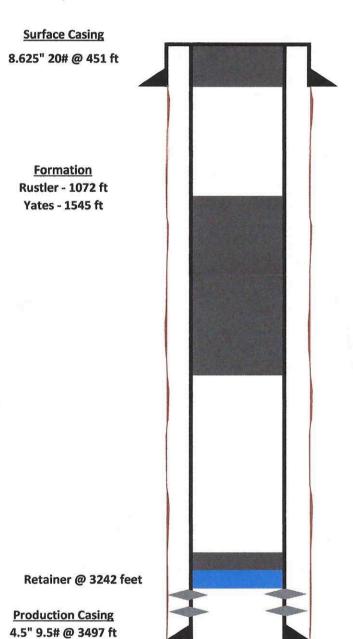
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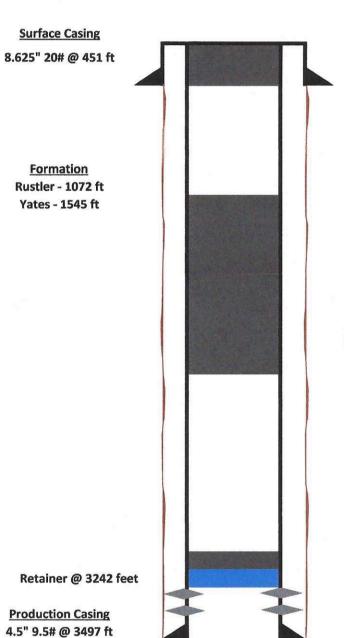
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District III

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 15405

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
J.A. DRAKE WELL SERVICE INC.	607 W Pinon	Farmington, NM87401	330485	15405	C-103F

OCD Reviewer	Condition
kfortner	See attached Conditions of approval Note required changes to procedure