zived by OCD: 1/4/2023 3:23:14 PM	State of New Mexico	Form C-103
	nergy, Minerals and Natural Resources	Revised July 18, 2013 WELL API NO.
.625 N. French Dr., Hobbs, NM 88240 District II – (575) 748-1283	OUL CONSERVATION DUVISION	30-005-60816
11 S. First St., Artesia, NM 88210 District III – (505) 334-6178	OIL CONSERVATION DIVISION 1220 South St. Francis Dr.	5. Indicate Type of Lease
000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	STATE FEE
<u>District IV</u> – (505) 476-3460 220 S. St. Francis Dr., Santa Fe, NM 7505	Salita FC, INIVI 87505	6. State Oil & Gas Lease No.
	ND REPORTS ON WELLS DRILL OR TO DEEPEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLICATION ROPOSALS.)	FOR PERMIT" (FORM C-101) FOR SUCH	O'Brien Lightcap 7 8. Well Number 002
. Type of Well: Oil Well 🛛 Gas W	ell 🗋 Other	9. OGRID Number
Canyon E&P		269864
. Address of Operator 251 O'Conner Ridge Blv, Suite 255, Irvi	ing, TX 75038	10. Pool name or Wildcat Cato; San Andres
. Well Location		
Unit Letter K 2310	feet from theSline and1650	
Section 7	Township 08S Range 29E Elevation (Show whether DR, RKB, RT, GR, etc.	NMPM County Chaves
11. E	nevation (Snow whether DR, RRB, R1, GR, etc.	·)
EMPORARILY ABANDON	G AND ABANDON 🛛 REMEDIAL WOR	RILLING OPNS. P AND A
 Describe proposed or completed or of starting any proposed work). SF proposed completion or recompletion 	Derations. (Clearly state all pertinent details, an EE RULE 19.15.7.14 NMAC. For Multiple Co ion. Accordance with the attached procedure and any 2 SEE A	ompletions: Attach wellbore diagram of
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Released to	0]	Imaging:	1	/6/	2	0	2	3	1	0):	2	1	:	13	3	4	N	1
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Canyon E&P Company

Plug And Abandonment Procedure

O'Brien Lightcap 7 #002

2310' FSL & 1650' FWL, Section 7, T8S, R29E

Chaves County, NM / API 30-005-60816

- 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 5-1/2" bit or casing scraper on 2-3/8" work string and round trip as deep as possible above top perforation at 2,719'.
- 6. P/U 5-1/2" CR, TIH and set CR at +/- 2,669'. 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 2,669' 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 2,669'-1,990', 70 Sacks Type III Cement)

Mix 70 sx Type III cement and spot a balanced plug inside casing to cover the San Andres perforations and formation top.

11. Plug 2 (Queen Formation Top 1,670'-1,420', 25 Sacks Type III Cement)

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

12. Plug 3 (7 Rivers and Yates Formation Tops 1,120'-870', 25 Sacks Type III Cement)

Mix 25 sx Type III cement and spot a balanced plug inside casing to cover the 7 Rivers and Yates formation tops.

13. Plug 4 (Surface Casing Shoe 174'-Surface, 50 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 50 sx cement and spot a balanced plug from 174' 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 174' 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.

Proposed Wellbore Diagram

Canyon E&P Company O'Brien Lightcap 7 #002 API: 30-005-60816 Chaves County, New Mexico

<u>Surface Casing</u> 8.625" 20# @ 124 ft OH: 11"

<u>Plug 4</u> 174 feet - surface 174 foot plug 50 Sacks of Type III Cement

<u>Plug 3</u> 1120 feet - 870 feet 250 foot plug 25 Sacks of Type III Cement

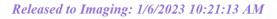
Plug 2 1670 feet - 1420 feet 250 foot plug 25 Sacks of Type III Cement

Plug 1 2669 feet - 1990 feet 679 foot plug 70 sacks of Type III Cement Formation Yates - 1004 feet Queens - 1620 feet San Andres - 2090 feet

Retainer @ 2669 feet

Perforations 2760 feet - 2719 feet

Production Casing 5.5" 14# @ 3000 feet OH: 7.875



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

Canyon E&P Company

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2310' FSL & 1650' FWL, Section 7, T8S, R29E

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Existing Wellbore Diagram

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<u>Formation</u> Yates - 1004 feet Queens - 1620 feet San Andres - 2090 feet

Perforations 2760 feet - 2719 feet

Production Casing 5.5" 14# @ 3000 feet OH: 7.875

Proposed Wellbore Diagram

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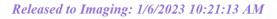
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District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 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

Operator: 0	OGRID:
J.A. Drake Well Service Inc.	330485
607 W Pinon	Action Number:
Farmington, NM 87401	172622
A	Action Type:
	[C-103] NOI Plug & Abandon (C-103F)

COMMENTS

Created By	Comment	Comment Date
plmartinez	DATA ENTRY PM	1/6/2023

Page 13 of 14

Action 172622

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CONDITIONS

Created By	Condition	Condition Date
kfortner	See attached COA	1/5/2023

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CONDITIONS

Action 172622