

Submit 1 Copy To Appropriate District Office

District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
August 1, 2011

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.
30-015-10046

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
SB-8095

7. Lease Name or Unit Agreement Name
ETZ State Unit

8. Well Number **106**

9. OGRID Number

10. Pool name or Wildcat
Grayburg-Jackson; SA-Q-G-SA

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 PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
COG Operating LLC

3. Address of Operator
600 W. Illinois Ave. Midland, TX 79701

4. Well Location

Unit Letter **F** : **1980** feet from the **N** line and **1980** feet from the **W** line
Section **16** Township **17S** Range **30E** NMPM County **Eddy**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3671

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIATION WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

1. Set 5 1/2 CIBP @ 2525'.
 2. Circulate hole w/ mud laden fluid. Pressure test casing.
 3. Spot 25 sx cement @ 2525-2270.
 4. Spot 25 sx cement @ 1070-817.
 5. Perf & Sqz 45 sx 391-291.*
 6. Perf & Sqz 45 sx @ 60 to surface.*
 7. Cut off wellhead and weld on Dry Hole Marker.
- * Try to perf 5 1/2 and 8 5/8 casing.

NM OIL CONSERVATION

ARTESIA DISTRICT

JUL 22 2015

RECEIVED

Approved for plugging of well bore only.
Liability under bond is retained pending receipt of C-103 (Subsequent Report of Well Plugging) which may be found at OCD Web Page under Forms. www.emnrd.state.nm.us/oed.

well bore must be plugged by 7/22/2016

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Bernie J TITLE Agent DATE 7-22-2015

Type or print name Bernie J E-mail address bern@bernandassociates.com PHONE: 505-580-7161
For State Use Only

APPROVED BY: [Signature] TITLE Dr. J. S. Spewis DATE 7/22/2015

Conditions of Approval (if any):

★ See Attached COA's

COG OPERATING, LLC

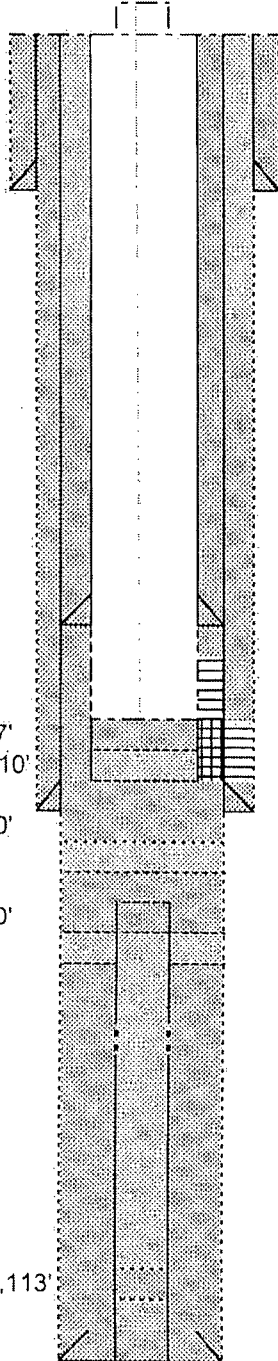
30-015-10046

Lease & Well #

ETZ State Unit # 106

Elevation - 3671

KB



16" 65# H-40 STC csg @ 341', 400 sx circ..

TOC @ 1020', TS

4/14/1973

GB/SA perms: 2536 - 3892'

Acidized 1000 gal, frac 20,000 gal,
20,000# sd

11/10/1984

5 1/2" K-55 15.5# csg, 2313', 400 sx CI C
Circ 5 sx, pmp 100 sx dn bradenhead.
(Drilled out to 3910')

Mar-89

GB perms: 2552 2772', 21 holes
acidized 1000 gal 15% HCL.

3404 - 3740' 20 HOLES in 8 5/8" csg, April 1972
Frac'd w/40,000 gal, 40,000# sd.

67 sx plug 2770 - 3047'
PBSD - 3910'

70 sx plug 3915 - 4100'

8 5/8" 24# J-55 Stc @ 4000', DV tool @ 1943'

1st stage: 650 sx, circ ?

2nd stage: 550 sx, TOC 1020', temp sur.

35 sx plug 4550 - 4650'

3 1/2" csg cut off at 4650'.
TOC - 4712, temp sur.

DV tool @ 8332'

25 sx plug 10,600 - 11,113'

Perfs 11,102 - 11,143'
Morrow

3 1/2" 9.2# N-80 Buttrass @ 11,300

COG OPERATING, LLC

30-015-10046

Lease & Well #

ETZ State Unit # 106

Elevation - 3671

Pc S_{g2} 455x @ 60.0

Pc S_{g2} 455x @ 391-291

25 sx @ 1070 - 817

25 sx @ 2525 - 2270

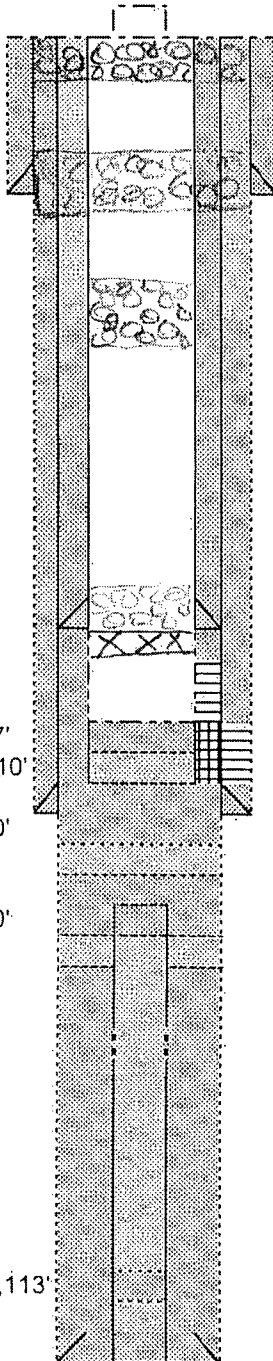
CIBPC 2225

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NEW MEXICO OIL CONSERVATION DIVISION
DISTRICT 2 OFFICE
811 S. FIRST STREET
ARTESIA, NM 88210
(575)748-1283

CONDITIONS OF APPROVAL FOR PLUGGING & ABANDONMENT

Operator: COG

Well Name & Number: ETZ State Unit 106

API #: 30-015-10046

1. Produced water **will not** be used during any part of the plugging & abandonment operation.
2. Notify NMOCD Dist. 2 office at least 24 hrs before beginning work.
3. Closed Loop System is to be used for entire plugging operation. Upon completion, contents of steel pit are to be hauled to a permitted disposal location.
4. 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 place prior to performing work. Drivers shall produce a copy upon request of NMOCD Field Inspectors.
5. A subsequent C-103 will serve as notification that the well bore has been plugged **ONLY**. A C-103 FINAL shall be filed before any bonding can be released on the well. Upon receipt of the Final, an inspection will be performed to verify that the location has been satisfactorily cleaned to NMOCD standards.
6. If work has not begun within 90 days of the approval of this procedure, an extension request must be filed, stating reason that well has not been plugged.
7. Every attempt must be made to clean the well bore out to below the perms, before any plugs can be set, by whatever means possible.
8. Cement Retainers may not be used.
9. Squeeze pressures are not to exceed 500 PSI, unless approval is given by NMOCD.
10. Plugs may be combined after consulting with and getting approval from NMOCD.
11. Minimum WOC time for tag plugs will be 4 Hrs.

RD

7/22/2015

GUIDELINES FOR PLUGGING AND ABANDONMENT

DISTRICT II / ARTESIA

- All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater.
- Mud laden fluids must be placed between all cement plugs.
- Mud laden fluids must be mixed at 25 sacks of gel per 100 bbls of water.
- A cement plug is required to be set 50' below and 50' above all casing shoes and casing stub plugs. These plugs must be tagged.
- A CIBP with 35' of cement on top may be set in lieu of 100' cement plug.
- A plug as indicated above must be placed within 100' of top perforation. This plug must be tagged.
- Plugs set below and above salt zones must be tagged.
- No more than 2000' is to be allowed between cement plugs in open hole and no more than 3000' in cased hole.
- DV tools are required to have a 100' cement plug set 50' above and below the tool and must be tagged.
- Formations to be isolated with plugs placed at the top of each formation are:
 - Fusselman
 - Devonian
 - Morrow
 - Wolfcamp
 - Bone Spring
 - Delaware
 - Any Salt Section (Plug at top and bottom)
 - Abo
 - Glorieta
 - Yates (this plug is usually at base of salt section)
- If cement does not exist behind casing strings at recommended formation depths, the casing must be cut and pulled with plugs set at these depths or casing must be perforated and cement squeezed behind casing at the formation depths.
- 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 common to the section penetrated and in suitable proportions, but not more than a 3% calcium chloride by weight of cement will be considered the desired mixture whenever possible (50' below and 50' above).