

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

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

Form C-103
Revised August 1, 2011

WELL API NO. 30-015-23025	
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name Metcalf LT Com	
8. Well Number 1	
9. OGRID Number 229137	
10. Pool name or Wildcat Penasco Draw; San Andres Yeso	
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 <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator COG Operating LLC	
3. Address of Operator 2208 W. Main Street, Artesia, NM 88210	
4. Well Location Unit Letter <u>M</u> : <u>660</u> feet from the <u>South</u> line and <u>1100</u> feet from the <u>West</u> line Section <u>31</u> Township <u>18S</u> Range <u>26E</u> NMPM <u>Eddy</u> County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3437' GR	

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:

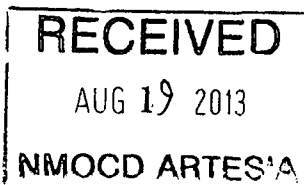
REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

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.

Propose to P&A as follows:

- 1) Drill out following plugs:
 - 45 sx, surface plug 0-450'
 - 25 sx, 835-1050'
- 2) RIH w/freepoint.
- 3) RIH w/chemical or jet cutter & cut 5 1/2" csg @ approx. 2050'. Lay down csg.
- 4) RIH w/open-ended 2 7/8" tbg to 2100'. Pump 150 sx Class C w/2% CaCl2. Tag plug.
- 5) RIH w/open-ended 2 7/8" tbg to 1700'. Pump 150 sx Class C w/2% CaCl2. Tag plug.
- 6) RIH w/open-ended 2 7/8" tbg to 1350'. Pump 170 sx Class C w/2% CaCl2. Tag plug.
- 7) Set CIBP @ 900'.
- 8) RIH w/open-ended 2 7/8" tbg to CIBP @ 900'. Pump 125 sx Class C w/2% CaCl2.
- 9) RIH w/tbg. Tag up & pump 125 sx Class C neat to fill 8 5/8" csg from 450' to surface.
- 10) Weld on plate & install dryhole marker.



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

CONDITIONS OF APPROVAL ATTACHED

Approval Granted providing work is
Completed by

Aug 19, 2014

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

SIGNATURE (see p. 2) TITLE: Regulatory Analyst DATE: 8/19/13
Type or print name: Stormi Davis E-mail address: sdavis@concho.com PHONE: (575) 748-6946

For State Use Only

APPROVED BY: LR Ochoa TITLE: Dist II Supervisor DATE: Aug 19, 2013
Conditions of Approval (if any):

★ SEE Attached COA's

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Form C-103
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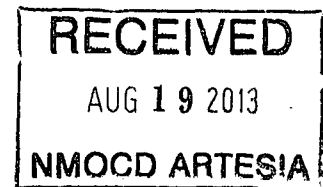
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- 10) Weld on plate & install dryhole marker.



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

SIGNATURE Stormi Davis TITLE: Regulatory Analyst DATE: 8/19/13
Type or print name: Stormi Davis E-mail address: sdavis@concho.com PHONE: (575) 748-6946

For State Use Only

APPROVED BY: RDade TITLE: Dist II Supervisor DATE: Aug 19, 2013
Conditions of Approval (if any):

Metcalf LT Com 1
660' fsl, 1100' fwl
M-31-18s-26e
Eddy Co., NM
30-015-23025

Plug and Abandonment Procedure
16 Aug 13

RECEIVED

AUG 19 2013

NMOCD ARTESIA

Basic Data:

13-3/8" @ 400' Circ. 35 sx Cmt.

8-5/8" @ 1000' Circ. 30 sx Cmt. (Capacity=.0636 B/F)

5-1/2" @ 4143', TOC @ 2230' CBL.

5-1/2"/14.0ppf/J55/STC Burst=4270 psi, 3416 psi at 80%

Collapse=3120 psi, 2496 psi at 80%

Tension=172,000 lbs, 107,500 lbs with SF = 1.6

Nom. ID=5.012" Drift ID=4.887"

Capacity=.0244 B/F, 8-5/8" x 5-1/2" annular capacity=.0343 B/F

Abo perms 3967-4016' with CIBP @ 3900' plus 35' cement on top.

Yeso perms 2494-2682' with CIBP @ 2450' plus 25 sx Class C neat on top (calculated PBD 2210').

Cement plugs inside of 5.5" casing: 25 sx Class C 835-1050' (tagged), 45 sx Class C 0-450'

Objective: Re-plug the well. Plan on round-the-clock (24 hour) operations when the rig is moved in.

Notification Requirements:

Give OCD Artesia (Mike Bratcher, 575.748.1283) 24 hrs notice prior to starting work on the well.

Procedure:

1. Make One Call for location. Clean up location as needed. Lay down caliche as necessary. Dig out around well to expose enough casing to work with. Build cellar if needed.
2. Dig out cellar, remove 13-3/8" (if necessary) and 8-5/8" sufficient to expose 5-1/2", dress off 8-5/8" stub, install Larkin Fig 92 casing head (or similar) onto 8-5/8", install slips/rubbers/ring halves/nut, packoff against the 5-1/2" casing and plumb one side outlet to surface. Weld extension onto 5-1/2" casing if necessary, dress off stub and weld slip-on box onto stub.
3. Set anchors, set matting boards, MIRU WSU, reverse unit and other reentry equipment. Screw 7-1/16" flange into 5-1/2" box looking up, NU hydraulic BOP with blind rams and 2-7/8" pipe rams (or low profile annular BOP in lieu of pipe rams) and test blind rams to 300 psi followed by 1500 psi for 10 minutes. Function test 2-7/8" pipe rams. Put 2-7/8" sub into BOP and function test annular if annular BOP is used.
4. Take delivery of 2-7/8" L80/N80 work string and DCs. Pick up 4.75" bit and drill out plugs shown below with fresh water. Use tri cone bit to start drill out (first 20-25' ??) to make sure there's no surprises then POOH and switch to a bladed cement mill for faster cement drilling. Keep an eye out for excessive metal while drilling with the cement mill.

5. 45 sx. surface plug 0-450'. After falling through plug, cleanout and tag plug at 835'.
6. 25 sx. plug 835-1050'. After falling through plug, clean out to PBD (calculated to be 2210' for 25 sk Class C plug).
7. Circulate the casing full of 9.5 to 10 ppg brine (approx. 55 bbls), POOH and lay down DC's. RIH with bit and scraper to PBD to ensure casing wall is clean for the freepoint tool. Top off casing with brine after POOH.
8. Un-pack 8-5/8" well head and remove packing and slips. Install 8-5/8" Larkin head threaded x 1.1" 3000 adaptor flange onto top of well head and install a hydraulic double ram BOP having blind rams and 5-1/2" pipe rams. Have circulating swage with valve on top available for the 5-1/2" casing.
9. Latch onto 5-1/2" casing with slip type elevators. RU wireline, RIH with freepoint tool and determine freepoint. Limit pull to 75,000 lbs if possible while running freepoint. Let's discuss if freepoint is significantly shallower than 2050'.
10. Assuming freepoint is at least 2050' or deeper, RIH with chemical or jet cutter and cut the 5-1/2" casing at approx.. 2050'. Pull casing free. If well is imbalanced, install circulating swage, close pipe rams and circulate brine to balance it out.
11. RU tongs and handling equipment for 5-1/2" casing. Recommend using a casing crew and laydown machine. Lay down 5-1/2" casing. Change rams to 2-7/8" in BOP.

Note: The open hole plug spotting steps below utilize the log caliper volumes plus 10% excess for calculating cement plug volumes. If first plug isn't tagged close to the calculated top of the plug, we'll discuss and adjust as needed.

12. Assuming casing cut off was made at 2050', RIH with open ended 2-7/8" tubing to 2100', pump 20 bbls fresh water, pump 150 sx Class C with 2% CaCl₂, flush with approx.. 10 bbls fresh water and pull tubing up to 1000' laying down the last 13 joints of tubing. WOC 4 hrs and RIH to tag cement plug. The top of the plug should be at about 1700'. The caliper volume from 1700' to 2050' is approx.. 180 CF. If tubing pulls wet after spotting plug, pull up to 1650', reverse circulate cement out of tubing and pull tubing to 1000' (laying down the last 13 joints) to WOC.
13. Assuming the top of the previous plug is 1700', RIH with open ended 2-7/8" tubing to 1700', pump 20 bbls fresh water, pump 150 sx Class C with 2% CaCl₂, flush with approx.. 8 bbls fresh water and pull tubing up to 600' laying down the last 13 joints of tubing. WOC 4 hrs and RIH to tag cement plug. The top of the plug should be at about 1350'. The caliper volume from 1350' to 1700' is approx.. 170 CF. If tubing pulls wet after spotting plug, pull up to 1300', reverse circulate cement out of tubing and pull tubing to 600' (laying down last 13 joints) to WOC.
14. Assuming the top of the previous plug is 1350', RIH with open ended 2-7/8" tubing to 1350', pump 20 bbls fresh water, pump 170 sx Class C with 2% CaCl₂, flush with approx.. 5 bbls fresh water and pull tubing OOH laying down the last 15 joints of tubing. WOC 4 hrs and RIH to tag cement plug. The top of the plug should be at about 900'. The caliper volume from 900' to 1350' is approx.. 210 CF. If tubing pulls wet after spotting plug, pull up to 900', reverse circulate cement out of tubing and pull tubing OOH (laying down last 15 joints) to WOC.
15. Assuming the top of the plug is 900' or shallower, RIH with a 7-7/8" bit and clean out to 900'. POOH, lay down DC's, pick up scraper, RIH to 900' and circulate well clean to prepare 8-5/8" casing for running a CIBP.

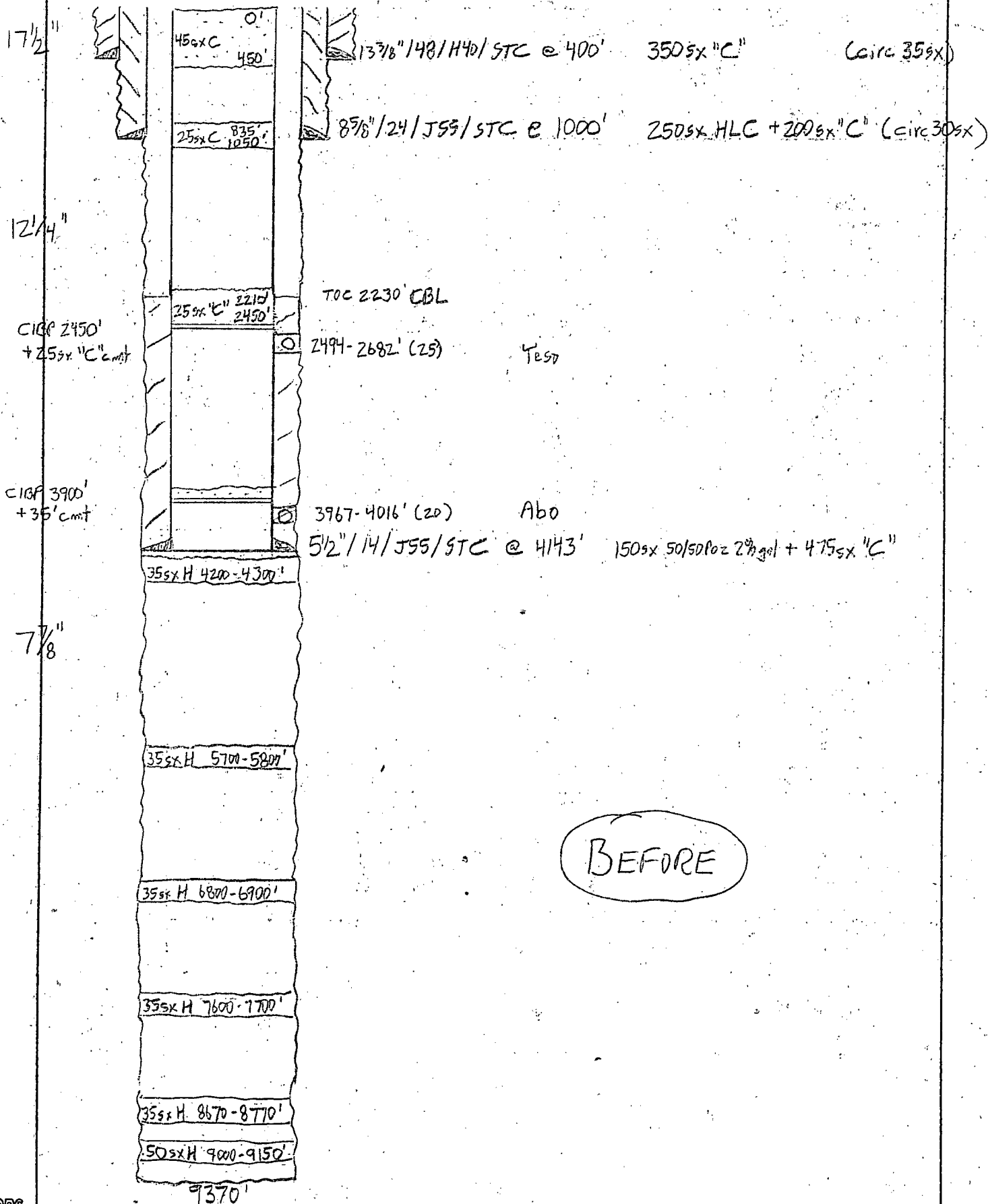
16. RU wireline, install packoff, run a gauge ring/junk basket if necessary, pick up a CIBP, RIH slowly to 900' and set CIBP.
17. Load the well if it isn't full of fluid and pressure test the casing to 500 psi for 30 minutes. Recommend using a calibrated chart recorder like we do on injection well MIT tests.
18. RIH with open ended 2-7/8" tubing to the CIBP at 900', pump 20 bbls fresh water, pump 125 sx Class C with 2% CaCl₂, flush with 3 bbls fresh water and POOH laying down the last 15 joints of tubing.
19. After WOC 4 hrs, RIH with tubing, tag up, pump 20 bbls fresh water and pump 125 sx Class C neat to fill the 8-5/8" casing from 450' to surface. POOH laying down tubing as fast as possible.
20. Remove BOP and cut off well head and casings. Top inside of 8-5/8" off with cement as needed. Weld on plate and re-install dryhole marker.

Kbc/Metcalf lt com 1 plugging procedure 15 aug 13

30-015-23025

Metcalf LT Com #1
660' FSL, 1100' FWL
M-31-18s-26e
Eddy, NM

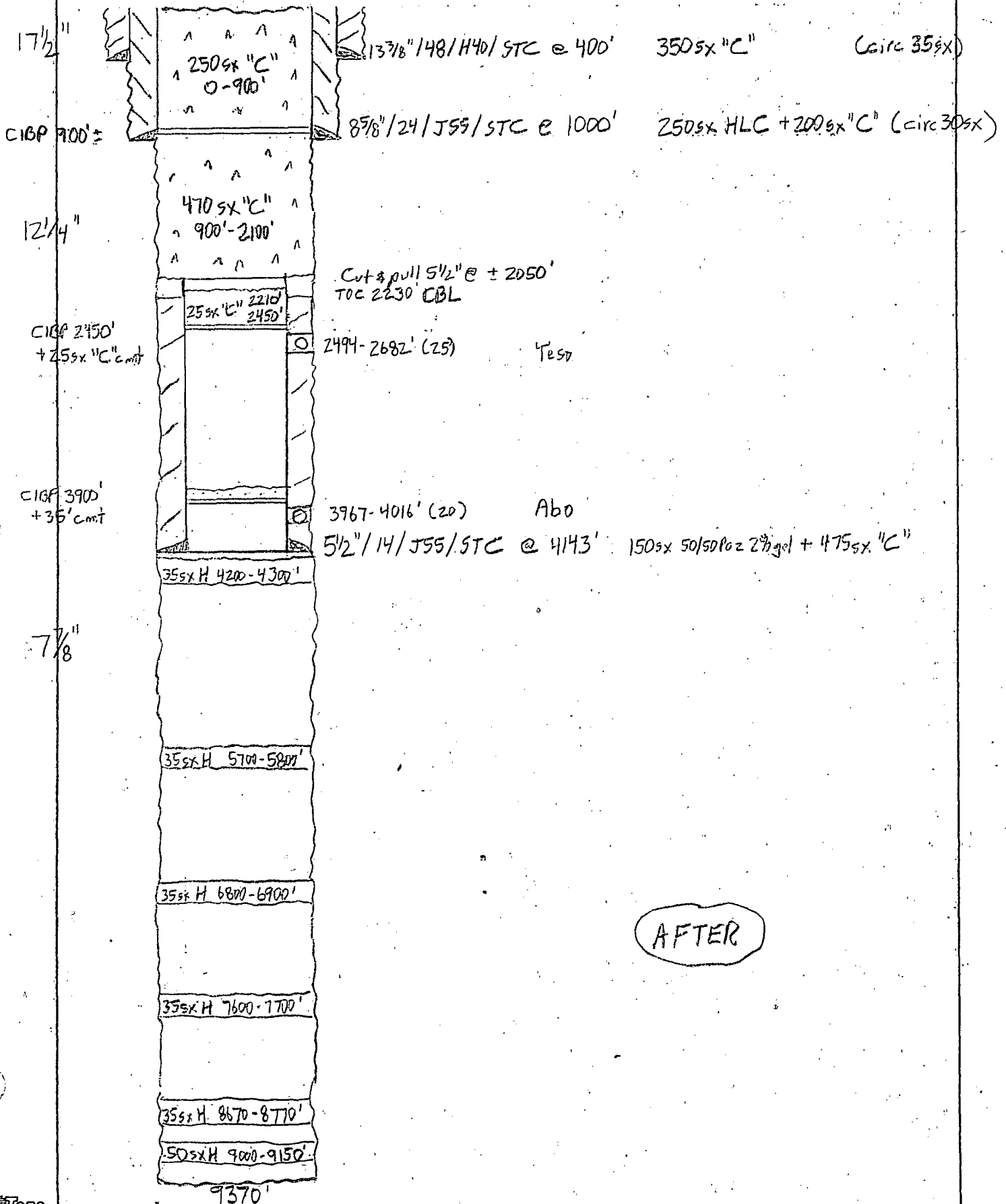
Zero: 15' AGL
HG: 3452'
GL: 3437'



30-015-23025

Metcalf LT Com #1
660' FSL, 1100' FWL
M-31-185-262
Eddy, NM

Zero: 15' AGL
H/G: 3452'
GL: 3437'



AFTER

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: Yates Petroleum: Replug by COG

Well Name & Number: Metcalf LT Com 1

API #: 30-015-23025

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 perfs, 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.

DATE: *Aug 19 -2013*

APPROVED BY: *A. Dade*

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).