

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

NM OIL CONSERVATION and Natural Resources
ARTESIA DISTRICT
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505
RECEIVED

WELL API NO. 30-015-25192
5. Indicate Type of Lease STATE [X] FEE []
6. State Oil & Gas Lease No. LG-3782
7. Lease Name or Unit Agreement Name Woodchuck ABW State Com
8. Well Number 1
9. OGRID Number 025575
10. Pool name or Wildcat Aid; Morrow
4. Well Location Unit Letter K : 1980 feet from the South line and 1980 feet from the West line
Section 13 Township 17S Range 28E NMPM Eddy County
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3697'GR

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

NOTICE OF INTENTION TO:

- PERFORM REMEDIAL WORK [] PLUG AND ABANDON [X]
TEMPORARILY ABANDON [] CHANGE PLANS []
PULL OR ALTER CASING [] MULTIPLE COMPL []
DOWNHOLE COMMINGLE []
CLOSED-LOOP SYSTEM []
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.

EOG Y Resources, Inc. plans to plug and abandon this well as follows:

- 1. MIRU all safety equipment as needed. Prepare to pull parted 4-1/2" casing.
2. TOH laying down 4-1/2" casing. If needed, run mill to dress top of 4-1/2" casing.
3. Pick up 4-1/2" casing work string and TIH with overshot. Latch onto top of parted 4-1/2" casing at 3020', pull tension into string and hang off.
4. TIH with overshot to latch onto top of parted 2-3/8" tubing at 3165'. Fish remaining 2-3/8" tubing and packer as necessary.
5. RIH with GR/JB to 10,360'.
6. Set a CIBP at 10,350' and dump 35' Class "H" cement on top of CIBP. This will place a plug over open Morrow perforations 10,402'-10,424'. WOE & TAG ADD PLUG @ 10035 TO COVER ATOKA ZONE
7. Load hole with plugging mud. Spot a 26 sx Class "H" cement plug from 8440'-8100'. This will place a plug across DV tool and Penn top. WOE & TAG
8. Load hole with plugging mud. Spot a 14 sx Class "H" cement plug from 7025'-6845'. This will place a plug across Wolfcamp top.

CONTINUED ON NEXT PAGE:

Spud Date: [] Rig Release Date: []
WELL MUST BE PLUGGED BY 4/21/18

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 www.cmrd.state.nm.us/ocd.

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

SIGNATURE Tina Huerta TITLE Regulatory Specialist DATE April 18, 2017

Type or print name Tina Huerta E-mail address: tina_huerta@eogresources.com PHONE: 575-748-4168

For State Use Only

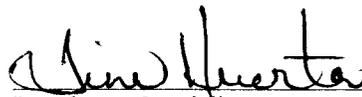
APPROVED BY: Robert J. Buel TITLE COMPLIANCE OFFICER DATE 4/21/2017

Conditions of Approval (if any): SEE ATTACHED COA-S

FORM C-103 CONTINUED:

9. RIH with WL free point to determine where to cut 4-1/2" casing.
10. Cut 4-1/2" casing at freepoint. Approximately 5900' (TOC). POOH with 4-1/2" casing.
11. RIH with 2-3/8" work string to 50' below top of 4-1/2" casing (if possible) and load hole with plugging mud. Spot a 30 sx Class "C" cement plug from 50' below top of 4-1/2" casing and up 150'. This will place a plug across top of the 4-1/2" casing. WOC and tag. Re-set plug if necessary.
12. Load hole with plugging mud. Spot a 34 sx Class "C" cement plug from 3785'-3655'. This will place a plug across Glorieta top. *WOC & TAG*
13. Load hole with plugging mud. Spot a 32 sx Class "C" cement plug from 2705'-2585'. WOC and tag. Reset plug if necessary. This will place a plug across 8-5/8" casing shoe.
14. Load hole with plugging mud. Spot a 33 sx Class "C" cement plug from 2410'-2290'. This will place a plug across San Andres top.
15. Load hole with plugging mud. Spot a 33 sx Class "C" cement plug from 300'-400'. WOC and tag. Reset plug if necessary. This will place a plug across 13-3/8" casing shoe. — *PERF & SQUEEZE*
16. Spot a Class "C" cement plug from 50' up to surface.
17. Cut off wellhead and install dry hole marker.

Wellbore schematics attached



Regulatory Specialist

April 18, 2017

WELL NAME: Woodchuck ABW State Com #1 FIELD: _____

LOCATION: 1980' FSL & 1980' FWL of Section 13-17S-28E Eddy Co., NM

GL: 3,697' ZERO: _____ KB: 3,711'

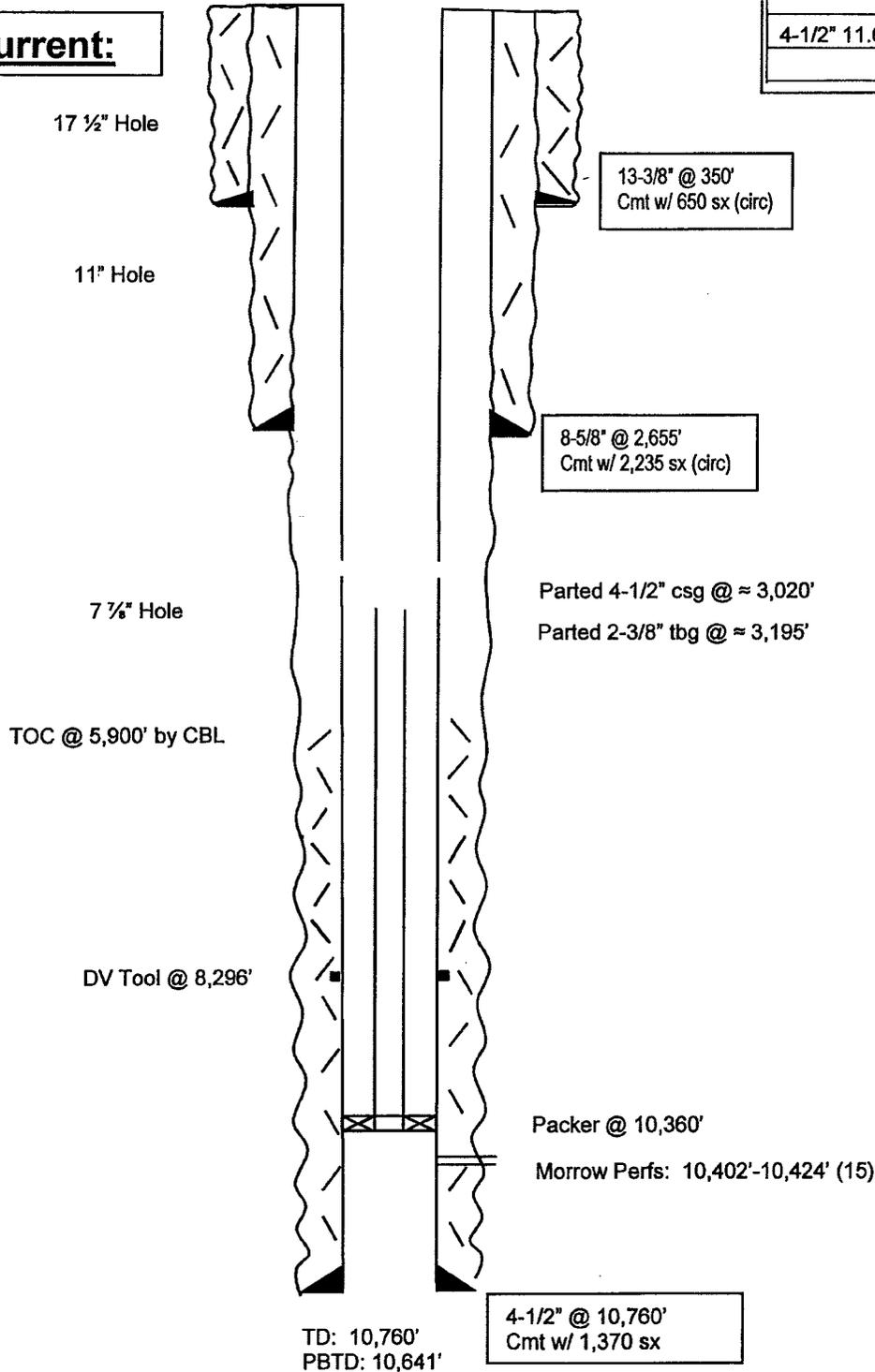
SPUD DATE: 2/27/85 COMPLETION DATE: 8/1/85

COMMENTS: API No.: 30-015-25192

CASING PROGRAM

13-3/8" 54.5# J-55	350'
8-5/8" 24# & 32# J-55	2,655'
4-1/2" 11.6# N-80 & K-55	10,760'

Current:



Formation Tops

Queen	1,600'
Grayburg	2,020'
San Andres	2,360'
Glorieta	3,735'
Wolfcamp	6,975'
Penn	8,390'
Strawn	9,410'
Atoka	9,985'
Morrow	10,305'
Chester	10,520'

Not to Scale
3/15/17
JDE

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CASING PROGRAM

13-3/8" 54.5# J-55	350'
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4-1/2" 11.6# N-80 & K-55	10,760'

Proposed:

17 1/2" Hole
13-3/8" @ 350'
Cmt w/ 650 sx (circ)

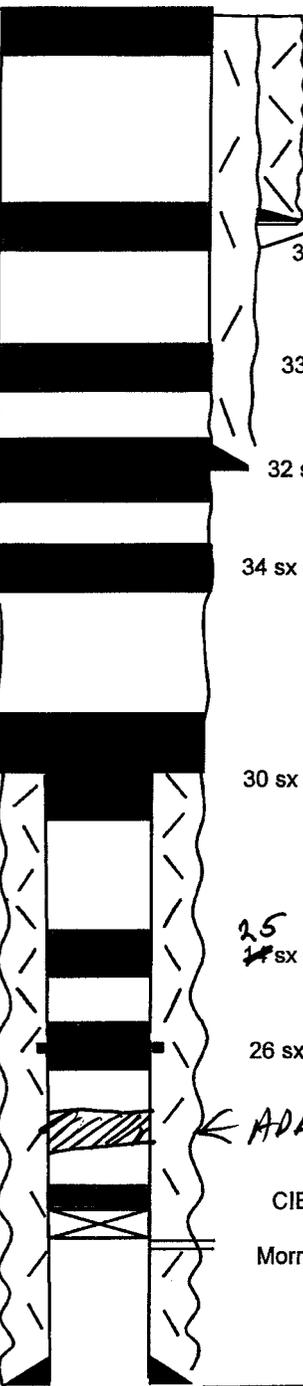
11" Hole

8-5/8" @ 2,655'
Cmt w/ 2,235 sx (circ)

7 7/8" Hole

TOC @ 5,900' by CBL

DV Tool @ 8,296'



DEEP 2 SQ WOC & TAG
33 sx cmt plug 300'-400' (15)

33 sx cmt plug 2,290'-2,410'

32 sx cmt plug @ 2,585'-2,705'
WOC & TAG

34 sx cmt plug @ 3,655'-3,785'
WOC & TAG

30 sx cmt plug @ 5,800'-5,950' *WOC & TAG*

25
~~27~~ sx cmt plug @ 6,845'-7,025'

26 sx cmt plug @ 8,100'-8,440' - *WOC & TAG*

ADD PLUG @ 10,035' - COVERS ATOKA

CIBP w/ 35' cmt @ 10,350' *WOC & TAG*

Morrow Perfs: 10,402'-10,424' (15)

TD: 10,760'
PBTD: 10,641'

4-1/2" @ 10,760'
Cmt w/ 1,370 sx

Formation Tops	
Queen	1,600'
Grayburg	2,020'
San Andres	2,360'
Glorieta	3,735'
Wolfcamp	6,975'
Penn	8,390'
Strawn	9,410'
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Morrow	10,305'
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Not to Scale
3/15/17
JDE

CONDITIONS FOR PLUGGING AND ABANDONMENT

District II / Artesia N.M.

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 II at (575)-748-1283 at least 24 hours before beginning work.**

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.
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. **Squeeze pressures are not to exceed 500 psi, unless approval is given by NMOCD.**
7. Produced water will not be used during any part of the plugging operation.
8. Mud laden fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
9. 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.
10. **Class 'C' cement will be used above 7500 feet.**
11. **Class 'H' cement will be used below 7500 feet.**
12. **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**
13. **All Casing Shoes Will Be Perforated and Attempted to be Squeezed, cement needs to be 50' above and 50' Below Casing Shoe inside the Production Casing**
14. **A CIBP is to be set within 100' of production perforations, capped with 100' of cement, WOC 4 hours and tag.**
15. **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**

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 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).**
18. **No more than 3000' is allowed between cement plugs in cased hole and 2000' in open hole.**
19. **Any Production Formations will be isolated with cement plugs: Some of these are:**
 - A) **Strawn, Fusselman, Devonian, Marrow, Atoka, Wolfcamp, Bone springs, Delaware, Abo, Glorieta, Any Salt Section, (Potash), Grayburg, Queen, Yates, Tubb, 7-Rivers**
 - B) **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.**
20. **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 REQUIREMENTS

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)