

District I
1625 N French Dr., Hobbs, NM 88240

District II
811 A. First St., Artesia, NM 88210

District III
1000 Rio Brazos Rd. Aztec, NM 87410

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-39020
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease NO. B0-2071-0032
7. Lease Name or Unit Agreement Name Empire Abo Unit
8. Well Number 408
9. OGRID Numer 873
10. Pool Name Empire; Abo (22040)

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR DEEPEN OR PLUG BACK TO A DIFFERENT RESERVIOR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

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

2. Name of Operator

Apache Corporation

3. Address of Operator

303 Veterans Airpark Lane, Ste. 3000, Midland, TX 79705

4. Well Location

Unit Letter **O** : **140** feet from the **S** line and **2560** feet from th **E** line
 Section **31** Township **17S** Range **28E** NMPM County **Eddy**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3675' GR

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐COMMENCE DRILLING OPNS. ☐CASING/CEMENT JOB ☐ALTERING CASING ☐P AND A ☐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 1103. For Multiple Completions: Attach wellbore diagram or proposed completion or recompletion.

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.

Apache Corporation proposes to P&A the above mentioned well by the attached procedure. A closed loop system will be used for all fluids from this wellbore and disposed of required by OCD Rule 19.15.17.

NM OIL CONSERVATION

ARTESIA DISTRICT

JUN 02 2016

RECEIVED

Spud Date: Rig Release Date:

WELL MUST BE PLUGGED BY 6/2/2017

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

SIGNATURE

TITLE

Sr. Reclamation Foreman

DATE

5/31/16

Type or print name

Guinn Burks

E-mail add.

guinn.burks@apachecorp.com

PHONE:

432-556-9143

For State Use Only

APPROVED BY:

TITLE

COMPLIANCE OFFICER

DATE

6/2/2016

Conditions of Approval (if any):

* SEE ATTACHED COA-5



WELL BORE INFO.

LEASE NAME

Empire Abo Unit

WELL #

408

API #

30-015-39020

COUNTY

Eddy, NM

0

12 1/4" Hole
8 5/8" 24# @ 512'
w/ 410 sx to surf

632

1264

1895

2527

3159

3791

4423

5054

5686

6318

DVT @ 2973'

CIBP @ 5450' w/ 35' cmt

CIBP @ 5765' w/ 30' cmt

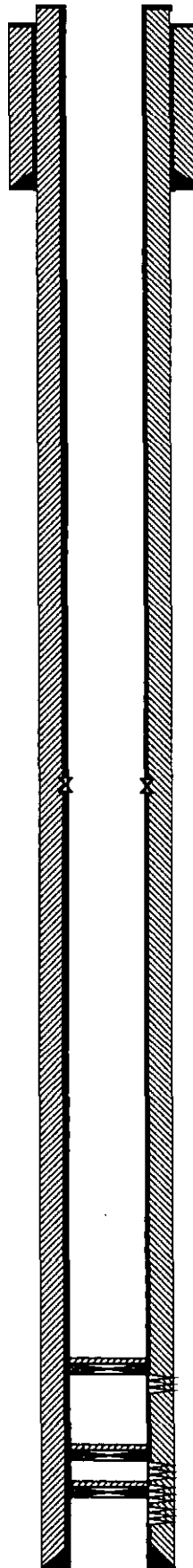
CIBP set @ 5760' w/ 30' cmt, fell to 5797'

7 7/8" Hole
5 1/2" 17# @ 6318' w/ 710 sx
DVT @ 2973' w/ 580 sx to surf

PBTD @ 5450'
TD @ 6318'

Abo perms # 5500'-5602'

Abo perms @ 5770'-6032'





WELL BORE INFO.

LEASE NAME

Empire Abo Unit

WELL #

408

API #

30-015-39020

COUNTY

Eddy, NM

PROPOSED PROCEDURE

0

12 1/4" Hole
8 5/8" 24# @ 512'
w/ 410 sx to surf

632

1264

1895

2527

3159

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4423

5054

5686

6318

DVT @ 2973'

CIBP @ 5450' w/ 35' cmt

CIBP @ 5765' w/ 30' cmt

CIBP set @ 5760' w/ 30' cmt, fell to 5797'

7 7/8" Hole
5 1/2" 17# @ 6318' w/ 710 sx
DVT @ 2973' w/ 580 sx to surf

PBTD @ 5450'
TD @ 6318'

7. PUH & spot 65 sx Class "C" cmt from 650' to surf. (7 Rvrs, Surface Shoe, & Water Board)

6. PUH & spot 25 sx Class "C" cmt from 1225'-975' (Queen)

5. PUH & spot 45 sx Class "C" cmt from 2009'-1559' WOC/TAG (Grayburg/San Andres)

4. PUH & spot 25 sx Class "C" cmt from 3023'-2773' WOC/TAG (DV Tool)

3. PUH & spot 25 sx Class "C" cmt from 3678'-3428' (Glorieta & Yeso)

2. PUH & spot 25 sx Class "C" cmt from 4892'-4642' (Tubb)

1. MIRU, RIH & verify CIBP @ 5450', CIRC w/MLF & spot 25 sx Class "C" cmt from 5450'-5200' WOC/TAG (Abo)

Abo perms # 5500'-5602'

Abo perms @ 5770'-6032'

CONDITIONS FOR PLUGGING AND ABANDONMENT

DISTRICT II / ARTESIA

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

1. **Notify NMOCD District Office II at (575)-748-1283 at least 24 hours before beginning work.**
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, all casing shoes, casing stubs, DV tools, attempted casing cut offs, salt sections and anywhere the casing is perforated, these plugs require a 4 hour WOC and then will be tagged**
13. 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
14. **A CIBP is to be set within 100' of production perforations, capped with 100' of cement, WOC 4 hours and tag.**
15. 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).**
16. **No more than 3000' is allowed between cement plugs in cased hole and 2000' in open hole.**
17. Formations to be isolated with cement plugs are:
 - 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.**

18. 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, cement will be set 50' below to 50' above perforation inside the casing

DRY HOLE MARKER REQUIRMENTS

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 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 be GPS) will be provided to NMOCD (We typically require a current survey to verify the GPS)