

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**NMOCD**  
**Artesia**

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

**NM OIL CONSERVATION**  
ARTESIA DISTRICT  
DEC 02 2016

Case Serial No.  
NMLC065478B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.  
NMNM70945X

8. Well Name and No.  
EMPIRE ABO UNIT 011C

9. API Well No.  
30-015-00758

10. Field and Pool, or Exploratory  
EMPIRE; ABO (22040)

11. County or Parish, and State  
EDDY COUNTY, NM

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
APACHE CORP  
Contact: ISABEL HUDSON  
E-Mail: Isabel.Hudson@apachecorp.com

3a. Address  
303 VETERANS AIRPARK LANE SUITE 1000  
MIDLAND, TX 79705  
3b. Phone No. (include area code)  
Ph: 432-818-1142

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 3 T18S R27E 610FSL 1980FEL

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Workover Operations
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Apache would like to perform the following. Please see attachments.  
Objective: Isolate lower ABO and add perms in the upper ABO

**Procedure:**

1. POOH with rods and pump
2. Release TAC or pull to shear pins. If the TAC does not release, do not pull above 50,000 lbs as the tbg string is old
3. Rig up wireline
4. Run junk basket down to 5,800? (make sure we are open ended and can get down deep enough to perf if TAC is not recovered)
5. RIH with free point and determine where the pipe is free
6. RIH with Titan (minimal flare cutter) and cut tbg 10? above free point

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #356463 verified by the BLM Well Information System  
For APACHE CORP, sent to the Carlsbad  
Committed to AFMSS for processing by DEBORAH MCKINNEY on 10/31/2016 ()

Name (Printed/Typed) ISABEL HUDSON

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 10/31/2016

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

## Additional data for EC transaction #356463 that would not fit on the form

### 32. Additional remarks, continued

7. POOH scanning tbg and lay down worn pipe
8. Pick up overshot, dress shoe, oil jars and bumper jars
9. Dress top of fish and latch onto fish
10. Activate jars and POOH with TAC
11. If TAC does not come free and the tbg is not open ended:
  - ? Release from overshot and POOH
  - ? Lay down jars, pick up full opening overshot and RIH with Titan (minimal flare cutter) and cut tbg below TAC
  - ? Cut @ 5,727?
  - ? Perf through tbg using link guns (4spf, 90? phasing)
    - i. 5,552-64?
    - ii. 5,583-94?
    - iii. 5,614-18?
    - iv. 5,634-40?
    - v. 5,680-84?
    - vi. 5,706-08?
    - vii. 5,734-36?
    - viii. 5,771-77?
  - ? Pick up packer (5-1/2? 14# csg) and set it above fish
  - ? Acidize formation with 3,000 gallons of 15% acid and small amount of salt for diversion
  - ? Release packer and POOH
12. If TAC is retrieved
  - ? RIH with CIBP and set @ 5,780?
  - ? Perf using slick guns (4 spf, 90? phasing)
    - i. 5,552-64?
    - ii. 5,583-94?
    - iii. 5,614-18?
    - iv. 5,634-40?
    - v. 5,680-84?
    - vi. 5,706-08?
    - vii. 5,734-36?
    - viii. 5,771-77?
  - ? Pick up packer (5-1/2? 14# csg) and set @ 5,500?
  - ? Acidize formation with 3,000 gallons of 15% acid using balls to divert
  - ? Release packer and knock balls free, POOH with packer
13. RIH with TAC and rod pump
14. Return well to production

October 27, 2016

Empire ABO Unit # L-11  
API # 30-015-00758  
Eddy County, NM  
Producing Interval: **5,794-920'**  
**TAC @ 5,720'**

**Objective:** Isolate lower ABO and add perfs in the upper ABO

**Procedure:**

1. POOH with rods and pump
2. Release TAC or pull to shear pins. If the TAC does not release, do not pull above 50,000 lbs as the tbg string is old
3. Rig up wireline
4. Run junk basket down to 5,800' (make sure we are open ended and can get down deep enough to perf if TAC is not recovered)
5. RIH with free point and determine where the pipe is free
6. RIH with Titan (minimal flare cutter) and cut tbg 10' above free point
7. POOH scanning tbg and lay down worn pipe
8. Pick up overshot, dress shoe, oil jars and bumper jars
9. Dress top of fish and latch onto fish
10. Activate jars and POOH with TAC
11. If TAC does not come free and the tbg is not open ended:
  - Release from overshot and POOH
  - Lay down jars, pick up full opening overshot and RIH with Titan (minimal flare cutter) and cut tbg below TAC
  - Cut @ 5,727'
  - Perf through tbg using link guns (4spf, 90° phasing)
    - i. 5,552-64'
    - ii. 5,583-94'
    - iii. 5,614-18'
    - iv. 5,634-40'
    - v. 5,680-84'
    - vi. 5,706-08'
    - vii. 5,734-36'
    - viii. 5,771-77'
  - Pick up packer (5-1/2" 14# csg) and set it above fish
  - Acidize formation with 3,000 gallons of 15% acid and small amount of salt for diversion
  - Release packer and POOH

12. If TAC is retrieved

- RIH with CIBP and set @ 5,780'
- Perf using slick guns (4 spf, 90° phasing)
  - i. 5,552-64'
  - ii. 5,583-94'
  - iii. 5,614-18'
  - iv. 5,634-40'
  - v. 5,680-84'
  - vi. 5,706-08'
  - vii. 5,734-36'
  - viii. 5,771-77'
- Pick up packer (5-1/2" 14# csg) and set @ 5,500'
- Acidize formation with 3,000 gallons of 15% acid using balls to divert
- Release packer and knock balls free, POOH with packer

13. RIH with TAC and rod pump

14. Return well to production

GL=3526'  
KB=3540'  
Spud: 11/30/58

# Apache Corporation – Empire Abo Unit #L-11

## Wellbore Diagram – Current Status

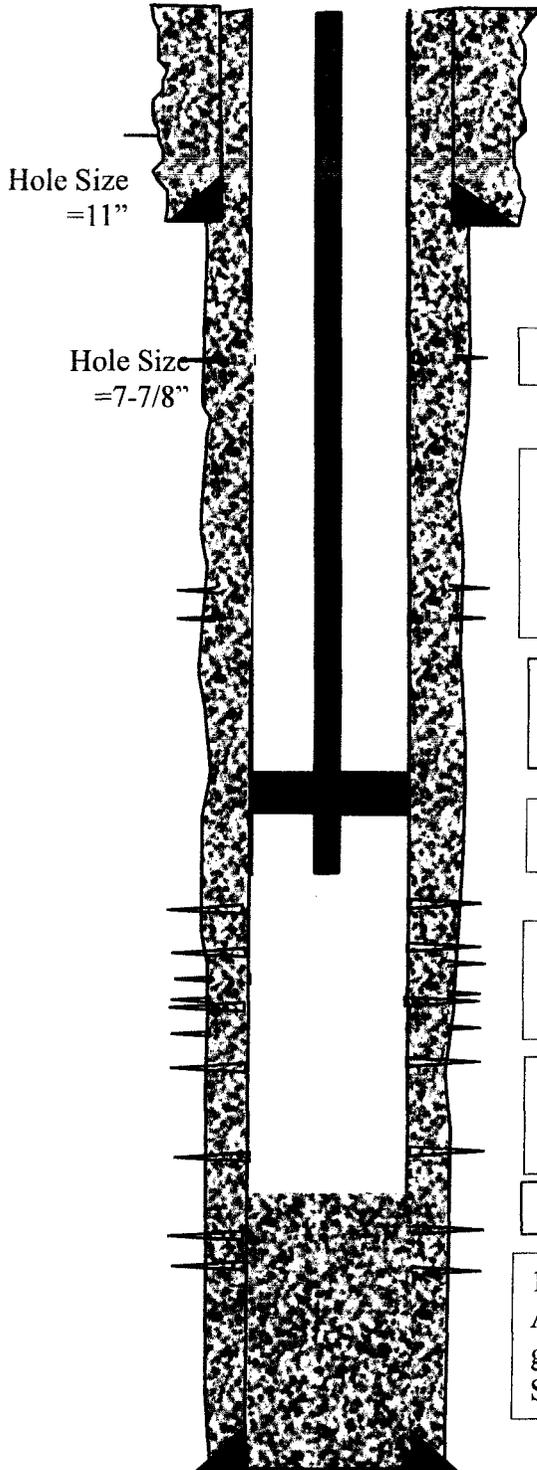
Date : 7/5/2011

API: 30-015-00758

Surface Location R. Taylor



610' FSL & 1980' FEL, Unit  
Sec 3, T18S, R27E, Eddy County, NM



**Surface Casing**  
8-5/8" 24# J-55 @ 983' w/ 700 sxs to surface

10/80: Perf 3015' & Sqz cement w/ 1150 sxs to surface

1/59: Perf Abo @ 5340'-65' W/ 4 JSPF  
Acidized w/ 50 gals 15% acid.  
Reperf Abo @ 5345-5380 w/ 4 JSPF  
Acidized w/ 1000 gal 15% acid  
Sqz'd in 64' w/ 100 sxs cement

TAC @ 5720'  
SN @ 5901'

4/95: Perf Abo @ 5794'-5807';5807'-28';5828'-49';5849'-70' w/ 2 SPF

6/64: Perf Abo @ 5847'-58';5866'-75';5882'-92'; w/ 2 JSPF  
Acidized w/ 2000 gal LSTNE  
Sqz'd in 80' w/ 100 sxs

5/92: Perf Abo @ 5870'-90' acidize w/ 1600 gals  
Perf Abo @ 5910'-20' acidize w/ 1400 gals

Cmt plug @ 5933- PBD

10/80: Perf Abo @ 5940'-54'; 5958'-66'  
Acidized w/ 150 gal 15% NEFE, 815 gals CaCl, 150 gals acid, 1000 gals gelled oil, 1500 gals acid w/ 966 gals oil flush  
Sqz'd w/ 125 sxs.

**Production Casing**  
5-1/2" 14# J-55 @ 6043' w/175 sxs  
TOC @ 4500'

PBTD = 6012'  
TD = 6045'

**BUREAU OF LAND MANAGEMENT**  
**Carlsbad Field Office**  
**620 East Greene Street**  
**Carlsbad, New Mexico 88220**  
**575-234-5972**

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within ninety (90) days from this approval.

**If you are unable to plug back the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged back. Failure to do so will result in enforcement action.**

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plug back operations. For wells in Eddy County, call 575-361-2822. For wells in Lea County, call 575-393-3612

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of brine water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. **Subsequent Plug back Reporting:** Within 30 days after plug back work is completed, file one original and three copies of the Subsequent Report, Form 3160-5 to BLM. The report should give in detail the manner in which the plug back work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date work was completed.**

7. **Trash:** All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.