

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.*

5. Lease 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 018A

9. API Well No.  
30-015-00706

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 1 T18S R27E 2310FNL 1980FWL

**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 work. Please see attachments.

Objective: Squeeze open perms and re-perforate only the upper ABO

Procedure:

1. POOH with rods and pump
2. Release TAC and scan tbg out of the hole
3. Rig up wireline
4. Run Gamma Ray-Neutron log and identify the water producing intervals
5. Set a cmt retainer @ 5,570? and squeeze perms
6. Drill out squeeze and re-perforate upper ABO in areas where water movement is not detected
7. Pick up packer and set @ 5,550?

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

**NM OIL CONSERVATION  
ARTESIA DISTRICT**

**DEC 12 2016**

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

Electronic Submission #357364 verified by the BLM Well Information System  
For APACHE CORP, sent to the Carlsbad  
Committed to AFMSS for processing by DEBORAH MCKINNEY on 11/08/2016 ()

Name (Printed/Typed) ISABEL HUDSON Title REGULATORY ANALYST

Signature (Electronic Submission) Date 11/08/2016

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

Approved By \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Office \_\_\_\_\_

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.

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.

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

**Additional data for EC transaction #357364 that would not fit on the form**

**32. Additional remarks, continued**

8. Acidize formation with 3,000 gallons of 15% acid using salt to divert
9. POOH with packer
10. RIH with TAC and rod pump
11. Return well to production

November 7, 2016

Empire ABO Unit # J-18  
Legal Name: Empire ABO Unit # 018A  
API # 30-015-00706  
Eddy County, NM  
Producing Interval: 5,590-978'  
4-1/2" 9.5# csg @ 6,087'

**Objective:** Squeeze open perms and re-perforate only the upper ABO

**Procedure:**

1. POOH with rods and pump
2. Release TAC and scan tbg out of the hole
3. Rig up wireline
4. Run Gamma Ray-Neutron log and identify the water producing intervals
5. Set a cmt retainer @ 5,570' and squeeze perms
6. Drill out squeeze and re-perforate upper ABO in areas where water movement is not detected
7. Pick up packer and set @ 5,550'
8. Acidize formation with 3,000 gallons of 15% acid using salt to divert
9. POOH with packer
10. RIH with TAC and rod pump
11. Return well to production

GL=3600'  
KB=3612'  
Spud: 4/24/59

# Apache Corporation – Empire Abo Unit #J-18

## Wellbore Diagram – Current Status

Date : 7/30/2015  
H. Gould

API: 30-015-00706

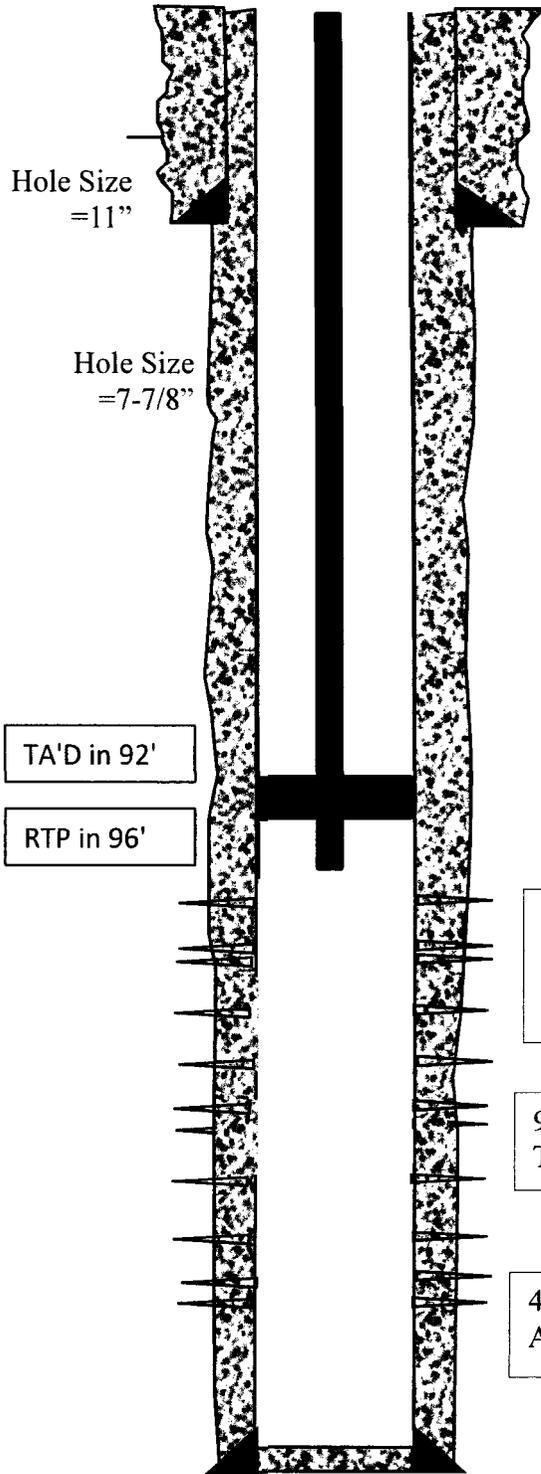
### Surface Location



2130' FNL & 1980' FEL  
Sec 1, T18S, R27E, Eddy County, NM

### Surface Casing

8-5/8" 24# J-55 @ 1445' w/ 750 sx to surface



TAC @ 5537'  
SN @ 6028'

TA'D in 92'

RTP in 96'

5/02: Perf Upper Abo @ 5590-92; 5627-39; 5656-77;5698-5704;  
5744-56; 5766-77; 5836; 5848-51; 5856-70; 5877-84; 5892-5907;  
5912-16; 5923-27; 5936; 5943-54; 5966-78 w/ 2 JSPF  
Acidized w/ 162 bbls 15% NEFE HCL

9/78: Perf Upper Abo @ 5862 w/ 4 JSPF  
Treated w/ 500 gals 15% HCL. SQZ'D w/ 225 sxs cmt

4/59: Perf Abo @ 5990-6030 w/ 2 JSPF  
Acidized w/ 1000 gals 15% regular

### Production Casing

4-1/2" 9.5# J-55 @ 6087' w/850 sx

PBTD = 6051'  
TD =6087'

**Empire Abo Unit 018A  
30-015-00706  
Apache Corporation  
December 07, 2016  
Conditions of Approval**

**Notify BLM at 575-361-2822 a minimum of 24 hours prior to commencing work.**

**Work to be completed by March 07, 2017.**

- 1. Squeeze approved as written.**
- 2. Must conduct a casing integrity test before perforating and fracturing. Submit results to BLM. The CIT is to be performed on the production casing to max treating pressure. Notify BLM if test fails**
- 3. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.**
- 4. Surface disturbance beyond the originally approved pad must have prior approval.**
- 5. Closed loop system required.**
- 6. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.**
- 7. Operator to have H2S monitoring equipment on location.**
- 8. A minimum of a **2000 (2M)** BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (2M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.**
- 9. Subsequent sundry required detailing work done. Operator to include well bore schematic of current well condition when work is complete.**

**JAM 120716**