

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018**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.***Carlsbad Field Office****SUBMIT IN TRIPLICATE - Other instructions on page 2****Carlsbad Field Office**  
**OCD Artesia**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMMS 59371
2. Name of Operator APACHE CORPORATION		6. If Indian, Allottee or Tribe Name
3a. Address 303 VETERANS AIRPARK LANE SUITE 3000 MIDLAND, TX 79705		7. If Unit or CA/Agreement, Name and/or No. 30-015-22815-00-S1
3b. Phone No. (include area code) Ph: 432.818.1088		8. Well Name and No. EMPIRE-ABO L 171
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 1 T18S R27E SWSW 670FSL 300FWL		9. API Well No. 30-015-22815-00-S1
		10. Field and Pool or Exploratory Area EMPIRE-ABO
		11. County or Parish, State EDDY COUNTY, NM

**12. CHECK THE 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"/> Hydraulic Fracturing	<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 type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input checked="" 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 recompletable 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 must 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 must be filed once testing has been completed. Final Abandonment Notices must 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 IS REQUESTING TO TA THE WELLBORE

GC 7-12-18  
Accepted for record - NMOC

PROCEDURES AND WBD CURRENT AND PROPOSED ATTACHED

**PROCEDURE:**

1. POOH w/ rods and pump while laying down, TOO H w/ tubing and BHA
  2. MIRU wireline, RIH w/ gauge ring, POOH, RIH w/ CIBP, set @ 5930? (top of perms 5982?), POOH
  3. RIH w/ dump bailer and spot 4 sxs (35?) of cement on top of CIBP, POOH
  4. RIH and tag TOC. Record depth of TOC. RD WL
  5. TIH w/ tubing (testing in)
  6. Test casing. If tests good, circulate hole w/ packer fluid and biocide
- Note: If casing does not test, TA operations will be postponed and the well evaluated for P&A.

RECEIVED

JUL 11 2018

DISTRICT II-ARTESIA O.C.D.

14. I hereby certify that the foregoing is true and correct. <b>Electronic Submission #424805 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Carlsbad Committed to AFMSS for processing by PRISCILLA PEREZ on 06/25/2018 (18PP2043SE)</b>	
Name (Printed/Typed) ALICIA FULTON	Title SR. REGULATORY ANALYST
Signature (Electronic Submission)	Date 06/20/2018

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

Approved By <u>/s/ Jonathon Shepard</u>	Title <u>Petroleum Engineer</u>	Date <u>JUN 29 2018</u>
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 <u>Carlsbad Field Office</u>		

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.

(Instructions on page 2)

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

**Additional data for EC transaction #424805 that would not fit on the form**

**32. Additional remarks, continued**

7. TOOH w/ tubing while scanning. Perform MIT

8. TA wel



LOE

**Well name:** Empire Abo Unit #171  
**API Number:** 30-015-22815  
**County, State:** Eddy, NM  
**Legals:** SEC-01 TWP-18S RGE-27E

**Depths:** 6300' MD 6100' PBTD  
**Producing Interval** 5982-6068'

CSG	OD	Wt/Ft	Cap (bbl/ft)	Top	Set @
Surface	8.625"	24.0#	0.0636	0'	1000'
Production	5.500"	15.5#	0.0238	0'	6255'

<b>Engineer:</b>	Alex Hernandez	432-818-1694 (o)	<a href="mailto:alex.hernandez@apachecorp.com">alex.hernandez@apachecorp.com</a>
<b>Assistant Foreman:</b>	David Pedroza	575-910-3283 (c)	<a href="mailto:david.pedroza@apachecorp.com">david.pedroza@apachecorp.com</a>
<b>Production Foreman</b>	Javier Berdoza	575-441-5755 (c)	<a href="mailto:javier.berdoza@apachecorp.com">javier.berdoza@apachecorp.com</a>

#### **What's New:**

- 1) *Lay down rods and tubing for inspection*
- 2) *Set CIBP, cap w/ cement, and test casing integrity*
- 3) *TA well*

#### **WELL HISTORY**

The well is currently shut in. Last production date was on 4/2017, yielding 0 BO, 1 BW, 0 MCF.

#### **OBJECTIVE:**

TA well. This well is currently producing from the Abo formation. It is recommended that this well be TA'd for evaluation of uphole potential requiring geological and engineering review. Without the proper geological analysis, we stand a chance to lose valuable resources by prematurely plugging the well at this time.

#### **PROCEDURE:**

1. POOH w/ rods and pump while laying down, TOOH w/ tubing and BHA
2. MIRU wireline, RIH w/ gauge ring, POOH, RIH w/ CIBP, set @ 5930' (top of perms 5982'), POOH
3. RIH w/ dump bailer and spot 4 sxs (35') of cement on top of CIBP, POOH
4. RIH and tag TOC. Record depth of TOC. RD WL
5. TIH w/ tubing (testing in)
6. Test casing. If tests good, circulate hole w/ packer fluid and biocide  
Note: If casing does not test, TA operations will be postponed and the well evaluated for P&A.
7. TOOH w/ tubing while scanning. Perform MIT
8. TA well

Note: Please contact NMOCD 24 hours prior to performing MIT test.

6/19/2018

# Apache Corporation

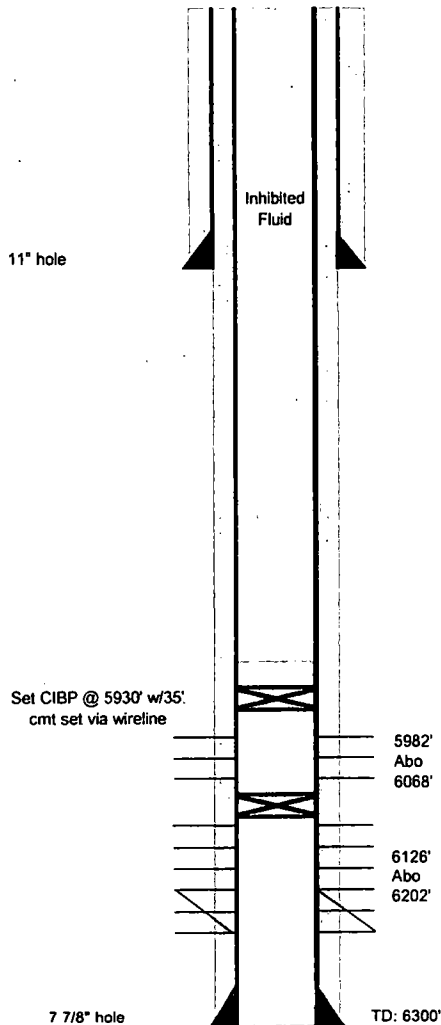
Work Objective

Proposed

Region Office Permian / Midland  
District / Field Office NW District  
AFE Type

Start Date	TBD	End Date	TBD
Lease	Empire Abo Unit	KB/GL	13/3589'
Well Name	Empire Abo Unit	Well No.	#171
Field	Empire (BP)	TD @	6300'
County	Eddy	PBTD @	6100'
State	New Mexico	ETD @	
AFE #	TBD	API #	30-015-22815
Gross AFE	TBD	Spud Date	5/22/1979
Apache WI	37.833400%	Comp. Date	6/25/1979

Description	O.D.	Grade	Weight	Depth	Cmt Sx	TOC
Surface Csg	8 5/8"	K-55	24#	1000'	500 sx	Circ 75 sx
Inter Csg						
Prod Csg	5 1/2"	K-55	15.5#	6255'	1700 sx	Circ 180 sx
Casing Liner						



Date	Zone	Actual Perforations	JSPF	Total Perfs
6/6/1979	Abo	6190-6202'	2	
6/6/1979	Abo	6126-36'	2	20
3/9/2011	Abo	5982-85, 6006-08, 6013-15, 6020-48, 6052-58, 6082-68'	2	94

Date	Zone	Stimulation / Producing Interval	Amount
6/6/1979	Abo	Acidized perfs 6190-6202' w/1150 gal 15% HCL-LSTNE-FE	
6/6/1979	Abo	Acidized perfs 6126-6136' w/1150 gal 15% HCL-LSTNE-FE	
3/9/2011	Abo	Acidized perfs 5982-6068' w/6000 gal 15% NEFE	

Well History / Failure	
8/79: Set CIBP @ 6180' & sqz'd perfs 6190-6202' w/125 sx	
3/11: CIBP @ 6100'	

Apache Representative \_\_\_\_\_ Contract Rig/Number \_\_\_\_\_

Apache Engineer Alex Hernandez \_\_\_\_\_ Operator \_\_\_\_\_

# Apache Corporation

Work Objective

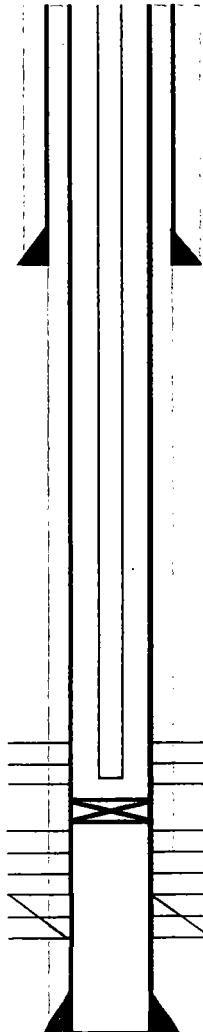
Current

Region Office Permian / Midland  
District / Field Office NW District  
AFE Type

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Lease	Empire Abo Unit	KB/GL	13/3589'
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Inter Csg						
Prod Csg	5 1/2"	K-55	15.5#	6255'	1700 sx	Circ 180 sx
Casing Liner						

11" hole



7 7/8" hole

TD: 6300'

Date	Zone	Actual Perforations	JSPF	Total Perfs
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Apache Representative

Contract Rig/Number

Apache Engineer

Alex Hernandez

Operator

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

**Temporary Abandonment of Wells on Federal Lands**  
**Conditions of Approval**

A temporarily abandoned well is defined as a completion that is not capable of production in paying quantities but which may have value as a service well. Pursuant to 43 CFR 3162.3-4 (c), no well may be temporarily abandoned for more than 30 days without the prior approval of the authorized officer.

Temporary Abandonment (TA) status approval requires a successful mechanical or casing integrity test as follows:

1. A Notice of Intent (NOI) Sundry Notice (Form 3160-5) requesting approval to run a mechanical integrity test (MIT) or casing integrity test (CIT).
2. A description of the temporary abandonment procedure.
  - a. A bridge plug or packer must be installed as close to 50 feet above any open perforations or open hole as possible. If a cement plug is used, the top of the cement must be verified by tagging. CIBP must be capped with minimum 25 sacks cement, placed with tubing, or 35 feet of cement if placed with bailer.
  - b. The wellbore must be filled with corrosion inhibited fluid and pressure tested to 500 psi. The casing shall be capable of holding this pressure for at least 30 minutes. Any leak-off will be evaluated.
  - c. All downhole production/injection equipment (tubing, rods, etc.) shall be removed from the casing if they are not isolated by a packer.
  - d. A bradenhead test must be conducted. If the test indicates a problem exists, a remedial plan and time frame for remediation shall be submitted within ninety (90) days of the test.
  - e. Contact the appropriate BLM office at least 24 hours prior to the scheduled Casing Integrity Test. For wells in Eddy County, 575-361-2822; Lea County 575-393-3612.
3. **Provide justification why the well should be temporarily abandoned rather than permanently plugged and abandoned and an estimated date that the well will be returned to beneficial use or plugged and abandoned. 43 CFR 3162.3-4 (a) The operator shall promptly plug and abandon...wells in which oil or gas is not encountered in paying quantities...**

Wells that successfully pass the casing integrity test **may** be approved for Temporary Abandonment (TA) status provided that the operator:

1. **Submits a subsequent Sundry Notice** (Form 3160-5) requesting TA approval **with well bore diagram** with all perforations and CIBP's and tops of cement on CIBP's.
2. Describes the temporary abandonment procedure.
3. Attaches a clear copy or the original of the pressure test chart.
4. Give justification to allow well to be place in TA status and plan for future use of well with time frame that well will be place back on line or plans to P&A well will be submitted.

If the well does not pass the casing integrity test, then the operator shall within 30 days submit to BLM for approval one of the following:

1. A procedure to repair the casing so that a TA approval can be granted.
2. A procedure to plug and abandon the well.