

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD
Artesia

FORM APPROVED
OMB No. 1004-0137
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.
NMNM0557371

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

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

8. Well Name and No.
AAO FEDERAL 21

2. Name of Operator
APACHE CORPORATION Contact: SORINA FLORES sorina.flores@apachecorp.com

9. API Well No.
30-015-42334-00-X1

3a. Address
303 VETERANS AIRPARK LANE, STE 100, MIDLAND, TX 79705

3b. Phone No. (include area code)
432-818-1167

10. Field and Pool or Exploratory Area
RED LAKE

4. Location of Well (Footage, Sec., T, R, M., or Survey Description)
Sec 1, T18S, R27E, NENW, 1005' FNL, 1630' FWL
322.46020 N Lat; 104.40764 W Long

11. Country 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"/> 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 type="checkbox"/> Other _____
	<input checked="" 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 recompleat 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 recompleat 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.)

BOND#: BLM-CO-1463 NATIONWIDE / NMB000736

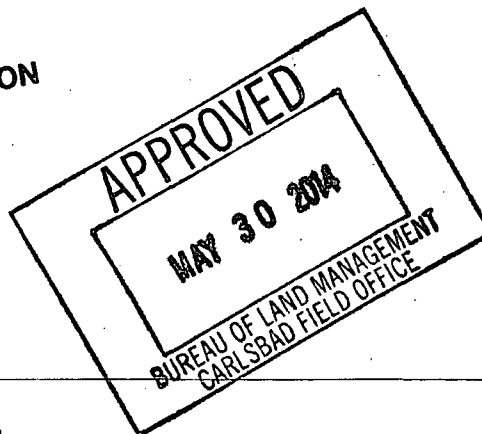
Apache proposes to change the casing/cement/BOP program as shown on the following page.

OCD 6/24/14
Accepted for record
NMOC

NM OIL CONSERVATION
ARTESIA DISTRICT
JUN 16 2014

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

RECEIVED



14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
VICKI BROWN

Title DRILLING TECH

Signature

Vicki Brown

Date 05/30/2014

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.

(Instructions on page 2)

Apache proposes to change the casing and cementing program as shown below (due to a water flow encountered while drilling the 7-7/8" hole at 1390').

1. CASING PROGRAM: All casing is new & API approved

HOLE SIZE	DEPTH	OD CSG	WEIGHT	COLLAR	GRADE	COLLAPSE	BURST	TENSION
17-1/2"	0' - 350'	13-3/8"	48#	STC	H-40	1.125	1.0	1.8
7-7/8"	0' - 4600'	5-1/2"	17#	LTC	J-55	1.125	1.0	1.8

2. CEMENT PROGRAM:

A. 5-1/2" Production (Cmt to surf / 20 % excess cmt / DV Tool at 1100'*):

1st Stage: 580 sx (50:50) Poz C w/ 2% Bentonite + 5% Salt (14.2 wt, 1.28 yld, 5.88 gal/sk)
Compressive Strengths: 12 hr – 1379 psi 24 psi – 2332 psi

2nd Stage: 360 sx (50:50) Poz C w/ 2% Bentonite + 5% Salt (14.2 wt, 1.28 yld, 5.88 gal/sk)
Compressive Strengths: 12 hr – 1379 psi 24 psi – 2332 psi

* Actual DV tool setting depth may be changed after evaluation of open hole logs. If the DV tool is set at a different depth, cement volumes will be adjusted accordingly. An ECP will be placed in the 5-1/2" casing string immediately below the DV tool. Casing slips will be set before cementing. If cement circulates to surface while pumping the 1st stage, a cancellation device will be dropped to secure the DV tool after which the 2nd stage cement need not be pumped. If, however, cement does not circulate to surface while pumping the 1st stage, the 2nd stage cement will be pumped to complete the cement job.

**AAO Federal 21
30-015-42334
Sundry dated 05/30/2014
Apache Corporation
05/30/2014
Conditions of Approval**

1. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Operator has proposed contingency DV tool at depth of 1100', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

a. First stage to DV tool:

- ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.

Operator has proposed a contingency DV tool at 1100'. If operator circulates cement on the first stage, operator is approved to run the DV tool cancellation plug and cancel the second stage of the proposed cement plan. If cement does not circulate, operator will proceed with the second stage.

b. Second stage above DV tool:

- ☒ Cement shall circulate to surface. If cement does not circulate, contact the appropriate BLM office.

EGF 053014