

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMLC029435A
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.
3b. Phone No. (include area code) Ph: 432.818.1167		8. Well Name and No. RAVEN FEDERAL 10H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 8 T17S R31E SWNW 2218FNL 220FWL 32.850067 N Lat, 103.899264 W Lon		9. API Well No. 30-015-40466-00-X1
		10. Field and Pool, or Exploratory CEDAR LAKE
		11. County or Parish, and State EDDY COUNTY, NM

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

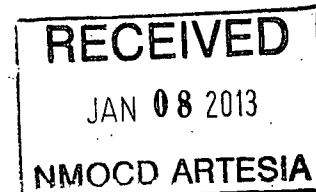
TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> 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
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Drilling Operations
	<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 shall 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 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.)

BOND#: BLM-CO-1463 / NMB000736

Pursuant phone conversation, plan for finishing the cmt of 9-5/8" interm csg for the Raven Federal Com #1H well:

1. 13-3/8" surf csg set @ 450' & cmt back to surf. 9-5/8" interm csg set @ 3509' & cmt w/1300 sx lead cmt (12.6 ppg, 2.07 yld) & 510 sx tail (14.8 ppg, 1.33 yld). Well flowing 50 bph @ start of cmt job. Cmt did not circ to surf during 9-5/8" cmt job. Well shut in for 4 hrs after cmt job then opened up, flow @ 159 bph. After waiting several more hrs, temp survey was run, TOC @ 1570'. Shut in pressure for 9-5/8" x 13-3/8" annulus: 214 psi. A 3 bpm inj rate can be established down this annulus @ 271 psi.



Accepted for record

NMOC D TES 1/8/2013

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #166778 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Carlsbad Committed to AFMSS for processing by KURT SIMMONS on 12/21/2012 (13CRW0076S)	
Name (Printed/Typed) SORINA L FLORES	Title SUPERVISOR - DRILLING SERVICES
Signature (Electronic Submission)	Date 12/18/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JAMES A AMOS	Title SUPERVISOR EPS	Date 01/05/2013
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 Carlsbad

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #166778 that would not fit on the form

32. Additional remarks, continued

Current plan:

Pmp 400' sx of CI C lead w/ 1% CaCl₂ (14.8 ppg, 1.33 yld) & 200' sx CI C tail w/ 2% CaCl₂ (14.8 ppg, 1.33 yld) dwn 9-5/8" x 13-3/8" annulus. (Cmt vol based on 50% excess over gauge hole size to 1570'.) Shut well in for 4 hours. Ck annulus for flow.