

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia
NM OIL CONSERVATION
ARTESIA DISTRICT

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

SUNDRY NOTICES AND REPORTS ON WELLS AUG 3 2015
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

RECEIVED

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		8. Well Name and No. RAVEN FEDERAL 21H
2. Name of Operator APACHE CORPORATION Contact: FATIMA VASQUEZ E-Mail: fatima.vasquez@apachecorp.com		9. API Well No. 30-015-40918
3a. Address 303 VETERANS AIRPARK LN MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 432-818-1015	10. Field and Pool, or Exploratory CEDAR LAKE; GLORIETA-YESO
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 7 T17S R31E SESE 330FSL 180FEL 32.842674 N Lat, 103.901189 W Lon		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 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 checked="" 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 Production Start-up
	<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 completed this well as follows:

- 10/07/2014 Run logs, TOC @ surface (CBL).
- 10/13/2014 Tag DV Tool @ 4348'. DO on DV tool. Circ clean @ 4351'.
- 10/14/2014 RIH w/ mill, mill debris sub.
- 10/15/2014 Finish mill debris sub.
- 11/21/2014 Frac Paddock using Packer Plus Packer Sleeve System.
- Stage 1 - Frac 8977'-8981' w/ 109 bbls 15% HCl & 180,334# sand (100 Mesh & 40/70).
- Stage 2 - Frac 8749'-8753' w/ 109 bbls 15% HCl & 178,667# sand (100 Mesh & 40/70).
- Stage 3 - Frac 8473'-8477' w/ 109 bbls 15% HCl & 180,282# sand (100 Mesh & 40/70).
- Stage 4 - Frac 8190'-8194' w/ 109 bbls 15% HCl & 180,359# sand (100 Mesh & 40/70).
- Stage 5 - Frac 7909'-7913' w/ 108.8 bbls 15% HCl & 178,991# sand (100 Mesh & 40/70).

NM OIL CONSERVATION
ARTESIA DISTRICT

AUG 3 2015

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Filed for record

OCD NMOCD
8/12/15

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

Electronic Submission #299117 verified by the BLM Well Information System
For APACHE CORPORATION, sent to the Carlsbad
Committed to AFMSS for processing by DEBORAH HAM on 06/13/2015

Name (Printed/Typed) FATIMA VASQUEZ	Title REGULATORY ANALYST III	ACCEPTED FOR RECORD JUL 28 2015 D. Ham BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE
Signature (Electronic Submission)	Date 04/22/2015	
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.

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

Additional data for EC transaction #299117 that would not fit on the form

32. Additional remarks, continued

Stage 6 - Frac 7624'-7628' w/ 109.2 bbls 15% HCl & 179,963# sand (100 Mesh & 40/70).
11/22/2014 Stage 7 - Frac 7353'-7357' w/ 109.2 bbls 15% HCl & 180,080# sand (100 Mesh & 40/70).
Stage 8 - Frac 7072'-7076' w/ 91 bbls 15% HCl & 181,412# sand (100 Mesh & 40/70).
Stage 9 - Frac 6796'-6800' w/ 108.7 bbls 15% HCl & 178,259# sand (100 Mesh & 40/70).
Stage 10 - Frac 6520'-6524' w/ 108.7 bbls 15% HCl & 175,180# sand (100 Mesh & 40/70).
Stage 11 - Frac 6240'-6244' w/ 108 bbls 15% HCl & 178,899# sand (100 Mesh & 40/70).
Stage 12 - Frac 5968'-5972' w/ 104.6 bbls 15% HCl & 179,980# sand (100 Mesh & 40/70).
11/23/2014 Stage 13 - Frac 5687'-5691' w/ 109 bbls 15% HCl & 179,125# sand (100 Mesh & 40/70).
Stage 14 - Frac 5408'-5412' w/ 109 bbls 15% HCl & 176,397# sand (100 Mesh & 40/70).
11/24/2014 RIH w/ mill.
11/25/2014 DO frac ports #1-#8. Lost pressure & circ.
11/26/2014 DO frac port #9. Lost circ, unable to regain circ.
12/01/2014 Unload well & cont. staging in frac port #10.
12/02/2014 Stage in, unload well. Unable to break circ. POH. Frac ports #10-#13 still intact.
PBSD @ 7909'.
12/15/2014 RIH w/ 2-7/8" prod tbg. Submersible @ 4142'. Desander @ 4293'. ETD @ 4618'. RDMOSU.
Clean loc.
12/16/2014 POP.