

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTOCD Artesia
NM OIL CONSERVATION

ARTESIA DISTRICT

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.*AUG 3 2015
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 20H
2. Name of Operator APACHE CORPORATION Contact: FATIMA VASQUEZ E-Mail: fatima.vasquez@apachecorp.com		9. API Well No. 30-015-40917
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 420FSL 180FEL 32.842921 N Lat, 103.901190 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
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Production Start-up
	<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 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 @ 100' (CBL).
10/16/2014 Tag DV Tool @ 4889'. DO on DV tool. Circ clean @ 4892'.
10/17/2014 RIH w/ mill, mill debris sub.
10/20/2014 Finish mill debris sub.
11/19/2014 Frac Upper Blinbry using Packer Plus Packer Sleeve System.
Stage 1 - Frac 9496'-9500' w/ 179 bbls 15% HCl & 189,636# sand (100 Mesh & 40/70).
Stage 2 - Frac 9265'-9269' w/ 179.3 bbls 15% HCl & 180,765# sand (100 Mesh & 40/70).
Stage 3 - Frac 8989'-8993' w/ 179.1 bbls 15% HCl & 180,359# sand (100 Mesh & 40/70).
Stage 4 - Frac 8713'-8717' w/ 180.2 bbls 15% HCl & 180,425# sand (100 Mesh & 40/70).
Stage 5 - Frac 8444'-8448' w/ 179.2 bbls 15% HCl & 179,054# sand (100 Mesh & 40/70).

NM OIL CONSERVATION
ARTESIA DISTRICT

AUG 3 2015

RECEIVED

Accepted for record
NM OIL CONSERVATION 8/12/15

14. I hereby certify that the foregoing is true and correct. Electronic Submission #298976 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		ACCEPTED FOR RECORD	
Name (Printed/Typed) FATIMA VASQUEZ	Title REGULATORY ANALYST II	JUL 28 2015	
Signature (Electronic Submission)	Date 04/21/2015	BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE	
THIS SPACE FOR FEDERAL OR STATE OFFICE USE			
Approved By	Title		
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 #298976 that would not fit on the form

32. Additional remarks, continued

Stage 6 - Frac 8167'-8171' w/ 178.8 bbls 15% HCl & 180,265# sand (100 Mesh & 40/70).
Stage 7 - Frac 7899'-7903' w/ 179 bbls 15% HCl & 182,179# sand (100 Mesh & 40/70).
Stage 8 - Frac 7627'-7631' w/ 179 bbls 15% HCl & 179,973# sand (100 Mesh & 40/70).
11/20/2014 Stage 9 - Frac 7354'-7358' w/ 179 bbls 15% HCl & 180,000# sand (100 Mesh & 40/70).
Stage 10 - Frac 7088'-7092' w/ 179 bbls 15% HCl & 180,066# sand (100 Mesh & 40/70).
Stage 11 - Frac 6807'-6811' w/ 179 bbls 15% HCl & 179,988# sand (100 Mesh & 40/70).
Stage 12 - Frac 6527'-6531' w/ 179 bbls 15% HCl & 184,004# sand (100 Mesh & 40/70).
Stage 13 - Frac 6247'-6251' w/ 182 bbls 15% HCl & 180,126# sand (100 Mesh & 40/70).
Stage 14 - Frac 5965'-5969' w/ 179.1 bbls 15% HCl & 95,456# sand (100 Mesh & 40/70).
12/02/2014 RIH w/ mill.
12/03/2014 DO frac ports #1-#10. Lost circ while milling on #11.
12/04/2014 POH, unplugged mill. RIH, unable to regain circ. #11-#13 frac ports remaining in hole.
PBTD @ 8713'.
12/12/2014 RIH w/ 2-7/8" prod tbg. Submersible @ 4662'. Desander @ 4813'. ETD @ 5138'. RDMOSU.
Clean loc.
12/13/2014 POP.