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Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
NMLC029435B

1a. Type of Well  Oil Well  Gas Well  Dry  Other  
b. Type of Completion  New Well  Work Over  Deepen  Plug Back  Diff. Resvr.  
Other \_\_\_\_\_

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator APACHE CORPORATION Contact: FATIMA VASQUEZ  
E-Mail: fatima.vasquez@apachecorp.com

8. Lease Name and Well No.  
RAVEN FEDERAL 19H

3. Address 303 VETERANS AIRPARK LN MIDLAND, TX 79705  
3a. Phone No. (include area code)  
Ph: 432-818-1015

9. API Well No.  
30-015-40916

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
Sec 7 T17S R31E Mer  
At surface SESE 485FSL 180FEL 32.843100 N Lat, 103.901191 W Lon  
At top prod interval reported below  
Sec 7 T17S R31E Mer  
At total depth SWSW Lot 4 1260FSL 332FWL

10. Field and Pool, or Exploratory:  
CEDAR LAKE; GLORIETA-YESO

11. Sec., T., R., M., or Block and Survey  
or Area Sec 7 T17S R31E Mer

12. County or Parish EDDY  
13. State NM

14. Date Spudded 09/17/2014  
15. Date T.D. Reached 10/01/2014  
16. Date Completed  D & A  Ready to Prod.  
12/12/2014

17. Elevations (DF, KB, RT, GL)\*  
3713 GL

18. Total Depth: MD 9315 TVD 4773  
19. Plug Back T.D.: MD 8676 TVD  
20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
CNGR/SBGR/(2)MWD GAMMA-ROP 5"  
22. Was well cored?  No  Yes (Submit analysis)  
Was DST run?  No  Yes (Submit analysis)  
Directional Survey?  No  Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H-40	48.0		460		550		0	
12.250	9.625 J-55	36.0		3455		1450		0	
8.750	7.000 L-80	29.0		9290					
8.750	5.500 L-80	20.0		9290		625		174	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	4653							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) PADDOCK	4653	5141	5470 TO 9184			PRODUCING
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
5470 TO 9184	2486 BBLs ACID & 2,486,425# SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Productivity Index
12/12/2014	03/23/2015	24	▶	520.0	600.0	2301.0	37.0		
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		▶				1154	POW	

ACCEPTED FOR RECORD  
ELECTRIC PUMP SUB-SURFACE  
JUL 28 2015  
BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Productivity Index
			▶						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		▶						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #298271 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Reclamation  
Date: 9/23/15

AB

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)  
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
RUSTLER	262	497	SANDSTONE/ANHYDRITE - N/A	RUSTLER	262
YATES	1507	1786	SANDSTONE/ANHYDRITE - N/A	YATES	1507
SEVEN RIVERS	1786	2403	SS/CARBONATE - OIL, GAS & WATER	SEVEN RIVERS	1786
QUEEN	2403	2792	SS/CARBONATE - OIL, GAS & WATER	QUEEN	2403
SAN ANDRES	2792	4595	CARBONATE - OIL, GAS & WATER	SAN ANDRES	2792
GLORIETA	4595	4653	SANDSTONE - OIL, GAS & WATER	GLORIETA	4595
PADDOCK	4653	5141	DOLOMITE - OIL, GAS & WATER	PADDOCK	4653
BLINEBRY	5141		DOLOMITE - OIL, GAS & WATER	BLINEBRY	5141

32. Additional remarks (include plugging procedure):

Attachments - Frac Disclosure, OCD Forms C-102 & C-104. Logs mailed 04/14/2015.

\*Ran tapered production csg string - 5-1/2" & 7".

Continued Summary of Porous Zones:

Tansill Salt 497'-1329' Salt - N/A  
Bottom Salt 1329'-1507' Salt - N/A  
Blinebry - didn't drill far enough to get bottom depth of Blinebry.

33. Circle enclosed attachments:

- 1. Electrical/Mechanical Logs (1 full set req'd)
- 2. Geologic Report
- 3. DST Report
- 4. Directional Survey
- 5. Sundry Notice for plugging and cement verification
- 6. Core Analysis
- 7. Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #298271 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 (please print) FATIMA VASQUEZ Title REGULATORY ANALYST II

Signature (Electronic Submission) Date 04/15/2015

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.

**Additional data for transaction #298271 that would not fit on the form**

**32. Additional remarks, continued**

**\*\*SS-Sandstone**