

AUG 3 2015

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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

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name	
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____		7. Unit or CA Agreement Name and No.	
2. Name of Operator APACHE CORPORATION		8. Lease Name and Well No. RAVEN FEDERAL 20H	
Contact: FATIMA VASQUEZ E-Mail: fatima.vasquez@apachecorp.com		9. API Well No. 30-015-40917	
3. Address 303 VETERANS AIRPARK LN MIDLAND, TX 79705		10. Field and Pool, or Exploratory CEDAR LAKE; GLORIETA-YESO	
3a. Phone No. (include area code) Ph: 432-818-1015		11. Sec., T., R., M., or Block and Survey or Area Sec 7 T17S R31E Mer	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 7 T17S R31E Mer At surface SESE 420FSL 180FEL 32.842921 N Lat, 103.901190 W Lon At top prod interval reported below Sec 7 T17S R31E Mer At total depth SWSW Lot 4 409FSL 333FWL		12. County or Parish EDDY	
13. State NM		17. Elevations (DF, KB, RT, GL)* 3714 GL	
14. Date Spudded 08/05/2014	15. Date T.D. Reached 08/20/2014	16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 12/13/2014	
18. Total Depth: MD 9638 TVD 5312	19. Plug Back T.D.: MD 8713 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? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> 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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H-40	48.0		400		430		0	
12.250	9.625 J-55	32.0		3518		1250		0	
8.750	7.000 L-80	29.0		9608					
8.750	5.500 L-80	20.0		9608		800		100	

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	5138							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) UPPER BLINEBRY	5141		5965 TO 9500			PRODUCING
B)						
C)						
D)						

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

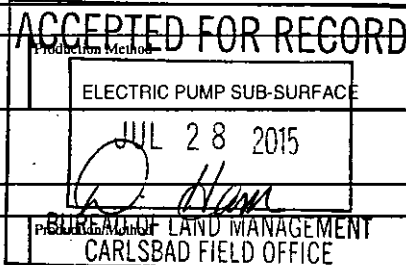
Depth Interval	Amount and Type of Material
5965 TO 9500	2511 BBLs ACID & 2,452,296# SAND

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	Production Method
12/13/2014	04/14/2015	24	→	549.0	936.0	1755.0	37.0		ELECTRIC PUMP SUB-SURFACE
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→				1705	POW	

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	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						



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

ELECTRONIC SUBMISSION #298979 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Reclamation

Date: 10/14/15

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 #298979 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 04/21/2015

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.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

**Additional data for transaction #298979 that would not fit on the form**

**32. Additional remarks, continued**

**\*\*SS-Sandstone**