

Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

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		5. Lease Serial No. NMLC029435A	
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 _____		6. If Indian, Allottee or Tribe Name	
2. Name of Operator APACHE CORPORATION		7. Unit or CA Agreement Name and No.	
Contact: FATIMA VASQUEZ E-Mail: fatima.vasquez@apachecorp.com		8. Lease Name and Well No. RAVEN FEDERAL 21H	
3. Address 303 VETERANS AIRPARK LN MIDLAND, TX 79705		9. API Well No. 30-015-40918	
3a. Phone No. (include area code) Ph: 432-818-1015		10. Field and Pool, or Exploratory CEDAR LAKE; GLORIETA-YESO	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 7 T17S R31E Mer At surface SESE 330FSL 180FEL 32.842674 N Lat, 103.901189 W Lon At top prod interval reported below Sec 7 T17S R31E Mer At total depth SWSW Lot 4 346FSL 332FWL		11. Sec., T., R., M., or Block and Survey or Area Sec 7 T17S R31E Mer	
14. Date Spudded 08/26/2014		15. Date T.D. Reached 09/08/2014	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 12/16/2014		17. Elevations (DF, KB, RT, GL)* 3716 GL	
18. Total Depth: MD 9121 TVD 4774		19. Plug Back T.D.: MD 7909 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		402		470		0	
12.250	9.625 J-55	32.0		3510		1350		0	
8.750	7.000 L-80	29.0		9086				0	
8.750	5.500 L-80	20.0		9086		600		0	

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	4618							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) PADDOCK	4653	5141	5408 TO 8981			PRODUCING
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
5408 TO 8981	1502 BBLS ACID & 2,507,928# 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
12/16/2014	04/09/2015	24	→	601.0	1107.0	2295.0	37.0	
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→				1842	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
			→					
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

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

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

ELECTRONIC SUBMISSION #299123 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Reclamation  
Date: 10/9/15

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 #299123 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 VASQUEZTitle REGULATORY ANALYST II

Signature \_\_\_\_\_ (Electronic Submission)

Date 04/22/2015

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 #299123 that would not fit on the form**

**32. Additional remarks, continued**

\*\*SS-Sandstone