

# NM OIL CONSERVATION OCD Artesia DISTRICT

Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

DEC 01 2014

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

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED

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. AAO FEDERAL 21	
Contact: PAIGE FUTRELL E-Mail: paige.futrell@apachecorp.com			
3. Address 303 VETERANS AIRPARK LN MIDLAND, TX 79705		9. API Well No. 30-015-42334	
3a. Phone No. (include area code) Ph: 432-818-1893			
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NENW Lot 3 1005FNL 1630FWL 32.780565 N Lat, 104.235432 W Lon At top prod interval reported below NENW Lot 3 1005FNL 1630FWL 32.780565 N Lat, 104.235432 W Lon At total depth NENW Lot 3 1005FNL 1630FWL 32.780565 N Lat, 104.235432 W Lon		10. Field and Pool, or Exploratory REDLAKE;GLORIETA-YESO,NE	
		11. Sec., T., R., M., or Block and Survey or Area Sec 1 T18S R27E Mer	
		12. County or Parish EDDY	
		13. State NM	
14. Date Spudded 05/27/2014		15. Date T.D. Reached 05/31/2014	
		16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 09/19/2014	
17. Elevations (DF, KB, RT, GL)* 3603 GL			
18. Total Depth: MD TVD 4625		19. Plug Back T.D.: MD TVD 4570	
20. Depth Bridge Plug Set: MD TVD			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) BHCS/HI-RES LL/CN/CAL/SGR		22. Was well cored? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis) Was DST run? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis) Directional Survey? <input checked="" type="checkbox"/> No <input 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	378	328		530		0	
7.875	5.500 J-55	17.0	4625	4625		1120		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	4390							

### 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA-YESO	3268	4296	3268 TO 4296	1.000	39	PRODUCING
B)						
C)						
D)						

### 26. Perforation Record

Depth Interval	Amount and Type of Material
3268 TO 4296	3500 ACID, 300,258# SAND, 3150 GAL 10# GEL, 201,348 GAL 20#

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

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
09/19/2014	10/06/2014	24	→	21.0	96.0	140.0	37.0		ELECTRIC PUMPING UNIT
Choke Size	Thg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→				4571'	POW	

### 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
			→						
Choke Size	Thg. 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 #270501 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

ACCEPTED FOR RECORD

NOV 14 2014

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

RECLAMATION

DUE 4/6/15

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## 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
YATES	232	475	SHALE,SS*,ANHYDRITE/WATER	YATES	232
SEVEN RIVERS	475	1028	SHALE,SS*,ANHYDRITE,DOL*/O,G,W	SEVEN RIVERS	475
GRAYBURG	1481	1825	DOL*,SS*,SANDSTONE/O,G,W*	GRAYBURG	1481
SAN ANDRES	1825	3257	DOLOMITE,CHERT/O,G,W*	SAN ANDRES	1825
GLORIETA	3257	3382	DOLOMITE, SANDSTONE/O,G,W*	GLORIETA	3257
PADDOCK	3382	3806	DOLOMITE/O,G,W*	PADDOCK	3382
BLINEBRY	3806		DOL*,SS*,SANDSTONE/O,G,W*	BLINEBRY	3806

32. Additional remarks (include plugging procedure):  
Formation tops continued:

Water table-water formation above Yates-Not logged.  
Queen: 1028'-1481' Siltstone, sandstone, anhydrite/Water.  
There is not a base salt.

SS\*: Siltstone

## 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 #270501 Verified by the BLM Well Information System.  
For APACHE CORPORATION, sent to the Carlsbad  
Committed to AFMSS for processing by DEBORAH HAM on 11/05/2014 ()

Name (please print) PAIGE FUTRELL

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 10/13/2014

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.

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**Additional data for transaction #270501 that would not fit on the form**

**32. Additional remarks, continued**

Dol\*: Dolomite  
O,G,W\*: Oil, Gas, Water

Attachments- Frac Disclosure, OCD Forms C-102 & C-104. Logs mailed 09/17/2014.