

# NM OIL CONSERVATION ARTESIA DISTRICT

Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FEB 3 2015  
OCD Artesia  
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		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. LEE FEDERAL 78	
3. Address 303 VETERANS AIRPARK LANE MIDLAND, TX 79705		9. API Well No. 30-015-42189	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 2125FSL 2345FEL 32.818646 N Lat, 103.890982 W Lon At top prod interval reported below 2125FSL 2345FEL 32.818646 N Lat, 103.890982 W Lon At total depth 2125FSL 2345FEL 32.818646 N Lat, 103.890982 W Lon		10. Field and Pool, or Exploratory CEDAR LAKE; GLORIETA-YESP	
14. Date Spudded 05/08/2014		11. Sec. T., R., M., or Block and Survey or Area Sec 20 T17S R31E Mer	
15. Date T.D. Reached 05/20/2014		12. County or Parish EDDY	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 06/23/2014		13. State NM	
17. Elevations (DF, KB, RT, GL)* 3682 GL			
18. Total Depth: MD TVD 6400		19. Plug Back T.D.: MD TVD 6380	
20. Depth Bridge Plug Set: MD TVD			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) PHCS-SGR/HI-RESLL/CN/OAL/HNGR/SBGR/CCL		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 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 H40	48.0		302		380	90	0	
11.000	8.625 J55	32.0		3500		1200	107	0	
7.875	5.500 J55	17.0		6400		1020	299	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	6313							

### 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA	4718	4777	4718 TO 4777	0.400	5	PRODUCING
B) PADDOCK	4777	5304	4797 TO 5296	0.400	20	PRODUCING
C) BLINEBRY	5304	6238	5417 TO 6208	0.400	47	PRODUCING
D)						

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

Depth Interval	Amount and Type of Material
4718 TO 6208	4746 GALS 15% HCL ACID; 483,674 LBS. TOTAL PROPPANT

### 28. Production - Interval A

Date First Produced 06/23/2014	Test Date 07/31/2014	Hours Tested 24	Test Production →	Oil BBL 91.0	Gas MCF 165.0	Water BBL 274.0	Oil Gravity Corr. API 39.0	Gas Gravity	Production Status ELECTRIC PUMPING UNIT																																			
Choke Size	Tbg. Press. Plwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL 91	Gas MCF 165	Water BBL 274	Gas:Oil Ratio 1813	Well Status POW	<div style="border: 2px solid black; padding: 5px; display: inline-block;"> <b>ACCEPTED FOR RECORD</b>   <b>JAN 28 2015</b>  <i>Detrak Ham</i>  <b>BUREAU OF LAND MANAGEMENT</b>  <b>CARLSBAD FIELD OFFICE</b> </div>																																			
<h3>28a. Production - Interval B</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date First Produced</th> <th>Test Date</th> <th>Hours Tested</th> <th>Test Production</th> <th>Oil BBL</th> <th>Gas MCF</th> <th>Water BBL</th> <th>Oil Gravity Corr. API</th> <th>Gas Gravity</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>→</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Choke Size</td> <td>Tbg. Press. Plwg. SI</td> <td>Csg. Press.</td> <td>24 Hr. Rate</td> <td>Oil BBL</td> <td>Gas MCF</td> <td>Water BBL</td> <td>Gas:Oil Ratio</td> <td>Well Status</td> </tr> <tr> <td></td> <td></td> <td></td> <td>→</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>										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. Plwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status				→				
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(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #280955 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Due: 4/31/15

## 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.)  
CAPTURED

## 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
GLORIETA	4718	4777	SANDSTONE O/G&W	GLORIETA	4718
PADDOCK	4777	5304	DOLOMITE O/G&W	PADDOCK	4777
BLINEBRY	5304	6238	DOLOMITE O/G&W	BLINEBRY	5304
TUBB	6238		SANDSTONE O/G&W	TUBB	6238

## 32. Additional remarks (include plugging procedure):

attachments: Frac Disclosure, C-102, C-104, logs mailed to the BLM 9/29/14 and to the OCD 5/24/14.

## 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 #280955 Verified by the BLM Well Information System.  
For APACHE CORPORATION, sent to the Carlsbad  
Committed to AFMSS for processing by DEBORAH HAM on 01/16/2015 ()

Name (please print) SANDRA J BELTTitle SR. REGULATORY ANALYSTSignature (Electronic Submission)Date 11/20/2014

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.

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