

Operator Copy

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

5. Lease Serial No.
NMLC029395B

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other			6. If Indian, Allottee or Tribe Name		
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ 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			15. Date T.D. Reached 05/20/2014		
16. Date Completed ☐ D & A ☒ Ready to Prod. 06/23/2014			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-RES/L/CN/OAL/HNGR/SBGR/CCL		22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☒ No ☐ Yes (Submit analysis)	
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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	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
06/23/2014	07/31/2014	24	→	91.0	165.0	274.0	39.0		
Choke Size	Tbg. Press. Pwgs.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
SI			→	91	165	274	1813	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. Pwgs.	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 #280955 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Due: 7/31/15

ACCEPTED FOR RECORD
JAN 28 2015
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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	Thg. Press. Flwg. St	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	Thg. Press. Flwg. St	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 BELT

Title SR. REGULATORY ANALYST

Signature (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.

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