

NM OIL CONSERVATION
ARTESIA DISTRICT

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JUL 18 2014

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
 b. Type of Completion New Well Work Over Deepen Plug Back Diff. Resvr.
 Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator APACHE CORPORATION Contact: FATIMA VASQUEZ
E-Mail: fatima.vasquez@apachecorp.com

8. Lease Name and Well No.
LEE FEDERAL 87 (308720)

3. Address 303 VETERANS AIRPARK LANE STE 3000 MIDLAND, TX 79705
 3a. Phone No. (include area code) Ph: 432-818-1015

9. API Well No.
30-015-41842

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface SWSW 330FSL 990FWL 32.813704 N Lat, 103.897247 W Lon
 At top prod interval reported below SWSW 330FSL 990FWL 32.813704 N Lat, 103.897247 W Lon
 At total depth SWSW 330FSL 990FWL 32.813704 N Lat, 103.897247 W Lon

10. Field and Pool, or Exploratory
CEDAR LAKE; G-Y (96831)

11. Sec., T., R., M., or Block and Survey
or Area Sec 20 T17S R31E Mer

12. County or Parish EDDY
 13. State NM

14. Date Spudded 02/06/2014
 15. Date T.D. Reached 02/19/2014
 16. Date Completed D & A Ready to Prod.
 05/01/2014

17. Elevations (DF, KB, RT, GL)*
3638 GL

18. Total Depth: MD 6397 TVD
 19. Plug Back T.D.: MD 6350 TVD
 20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
 SBGR-CCL/BHPL/BHCS-SGR/HI-RES LL/CN
 22. Was well cored? No Yes (Submit analysis)
 Was DST run? No Yes (Submit analysis)
 Directional Survey? No 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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H-40	48.0		427		640		345	
11.000	8.625 J-55	32.0		3512		1660		710	
7.875	5.500 J-55	17.0		6397		960		48	

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	6339							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA	4756		4760 TO 5349	1.000	28	PRODUCING
B) YESO	4844		5414 TO 6270	1.000	34	PRODUCING
C)						
D)						

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

Depth Interval	Amount and Type of Material
4760 TO 5349	198,576 GALS 20#, 272,945# SAND, 3654 GALS ACID, 4620 GALS GEL
5414 TO 6270	236,754 GALS 20#, 295,126# SAND, 4884 GALS ACID, 4284 GALS GEL

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
05/01/2014	07/01/2014	24	→	13.0	279.0	12.0	37.1		ELECTRIC PUMPING UNIT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→				923	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 #252955 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

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	274	380	SANDSTONE / ANHYDRITE	RUSTLER	274
YATES	1492	1809	SANDSTONE	YATES	1492
SEVEN RIVERS	1809	2435	DOLOMITE / ANHYDRITE - GAS	SEVEN RIVERS	1809
GRAYBURG	2802	3208	SS* / DOLOMITE - GAS & WATER	GRAYBURG	2802
GLORIETA	4756	4844	SANDSTONE - OIL, GAS & WATER	GLORIETA	4756
PADDOCK	4844	5246	DOLOMITE - OIL, GAS & WATER	PADDOCK	4844
BLINEBRY	5246	6327	DOLOMITE - OIL, GAS & WATER	BLINEBRY	5246
TUBB	6327		SANDSTONE - OIL, GAS & WATER	TUBB	6327

FYI...
revised comp.
rpt - Box #30.
Thanks!
- Fatima

32. Additional remarks (include plugging procedure):
Formation Tops Continued:

Ogallala - Water formation above Rustler - not logged.
Tansill Salt - Sandstone / Anhydrite - 380'-680'.
Bottom Salt - Sandstone / Anhydrite - 680'-1492'.
Queen - Sandstone / Dolomite - Gas - 2435'-2802'.
San Andres - Carbonate - Oil, Gas & Water - 3208'-4756'.
Tubb - didn't drill far enough to get bottom depth of Tubb.

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 #252955 Verified by the BLM Well Information System.
For APACHE CORPORATION, sent to the Carlsbad**

Name (please print) FATIMA VASQUEZ Title REGULATORY ANALYST II

Signature _____ (Electronic Submission) Date 07/14/2014

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.

Additional data for transaction #252955 that would not fit on the form

32. Additional remarks, continued

* SS - Sandstone

Attachments - Frac Disclosure, OCD Forms C-102 & C-104. Logs mailed 05/23/2014.