

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NOV 14 2016

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMLC029426B

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
NMNM134086

8. Lease Name and Well No.
CEDAR LAKE FEDERAL CA 148H

9. API Well No.
30-015-43409

10. Field and Pool, or Exploratory
CEDAR LAKE:GLORIETA-YESO

11. Sec., T., R., M., or Block and Survey
or Area Sec 10 T17S R31E Mer

12. County or Parish
EDDY COUNTY

13. State
NM

17. Elevations (DF, KB, RT, GL)*
3947 GL

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

2. Name of Operator
APACHE CORPORATION

Contact: EMILY FOLLIS
E-Mail: Emily.Follis@apachecorp.com

3. Address 303 VETERANS AIRPARK LANE SUITE 1000
MIDLAND, TX 79705

3a. Phone No. (include area code)
Ph: 432-818-1801

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface NENE 470FSL 330FEL

At top prod interval reported below NENE 471FNL 331FWL

At total depth NENE 471FNL 331FWL

14. Date Spudded
11/24/2015

15. Date T.D. Reached
12/07/2015

16. Date Completed
☐ D & A ☒ Ready to Prod.

18. Total Depth: MD
TVD 9741
5268

19. Plug Back T.D.: MD
TVD 9711

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CNL-CBL-GR

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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H40	48.0		695		650			
12.250	9.625 J55	40.0		3515		1100			
8.500	7.000 L80	29.0		4850		600			

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	5133							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) PADDOCK	5198	9840	5777 TO 9613			OPEN HOLE PRODUCING
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
5777 TO 9613	TOTAL SAND 2,880,744# , TOTAL ACID 2523 BBL

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
09/14/2016	09/24/2016	24	→	301.0	427.0	838.0	37.0	
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→				1418	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

PRODUCTION METHOD
ELECTRIC PUMP SUB SURFACE

OCT 25 2016

BUREAU OF LAND MANAGEMENT

CARLSBAD FIELD OFFICE

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

ELECTRONIC SUBMISSION #353112 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

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. 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	Thg. 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	599	745	ANHYDRITE, DOLOMITE W	RUSTLER	599
SALADO	745	1779	ANHYDRITE, DOLOMITE W	SALADO	745
TANSIL	1779	1941	ANHYDRITE, SALT, DOLO, SS O/G/W	TANSIL	1779
YATES	1941	2230	SANDSTONE O/G/W	YATES	1941
SEVEN RIVERS	2230	2850	SS, DOLO, LIMESTONE O/G/W	SEVEN RIVERS	2230
QUEEN	2850	3264	SS, DOLO, LIMESTONE O/G/W	QUEEN	2850
GRAYBURG	3264	3600	DOLO, LIMESTONE, SS O/G/W	GRAYBURG	3264
SAN ANDRES	3600	5109	DOLO, LIMESTONE, SS O/G/W	SAN ANDRES	3600

32. Additional remarks (include plugging procedure):

GLORIETA 5109 - 5198 SANDSTONE O/G/W
PADDOCK 5198 - TD(9840') DOLOMITE O/G/W

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 #353112 Verified by the BLM Well Information System.
For APACHE CORPORATION, sent to the Carlsbad

Name (please print) EMILY FOLLIS

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 09/30/2016

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 ****