

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Apache Corporation 303 Veterans Airpark Lane Suite 1000 Midland TX 79705		² OGRID Number 873
		³ Reason for Filing Code/ Effective Date NW 09/14/2016
⁴ API Number 30-015-43409	⁵ Pool Name CEDAR LAKE; GLORIETA-YESO	⁶ Pool Code [96831]
⁷ Property Code 315935	⁸ Property Name CEDAR LAKE FEDERAL CA	⁹ Well Number 148H

II. ¹⁰ Surface Location

UL or lot no. A	Section 10	Township 17S	Range 31E	Lot Idn	Feet from the 470	North/South Line NORTH	Feet from the 330	East/West line EAST	County EDDY
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¹¹ Bottom Hole Location

UL or lot no. D	Section 10	Township 17S	Range 31E	Lot Idn	Feet from the 471	North/South line NORTH	Feet from the 331	East/West line WEST	County EDDY
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 09/14/16	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
252293	Holly Energy Pipeline 311 W Quay / PO Box 1360 Artesia NM 88210	O
221115	Frontier Field Services LLC 4200 East Skelly Drive Suite 700 Tulsa OK 74135	G
NM OIL CONSERVATION ARTESIA DISTRICT OCT 06 2016 RECEIVED		

IV. Well Completion Data

²¹ Spud Date 11/24/15	²² Ready Date 09/14/16	²³ TD 9741' 5268	²⁴ PBDT 9711'	²⁵ Perforations '5777-9613	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5"	13.375" H40 48#	695'	650 sx Class C		
12.25"	9.375" J55 40#	3515'	1100 sx Class C		
8.625"	7"L80 29# - 5.5 "L80 20#	4850'/9720'	600 sx Class C		
Tubing	2.875" J55 6.5#	5133'			

V. Well Test Data

³¹ Date New Oil 09/14/16	³² Gas Delivery Date 09/14/16	³³ Test Date 09/24/16	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 301	³⁹ Water 838	⁴⁰ Gas 427		⁴¹ Test Method P

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:
Emily Follis

Title:
Reg Analyst

E-mail Address:
emily.follis@apachecorp.com

Date:
09/28/16

Phone:
432-818-1801

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Pending BLM approvals will
subsequently be reviewed
and scanned

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMLC029426B
2. Name of Operator APACHE CORPORATION		6. If Indian, Allottee or Tribe Name
3a. Address 303 VETERANS AIRPARK LANE SUITE 1000 MIDLAND, TX 79705		7. If Unit or CA/Agreement, Name and/or No. NNNM134086
3b. Phone No. (include area code) Ph: 432-818-1801		8. Well Name and No. CEDAR LAKE FEDERAL CA 148H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 10 T17S R31E NENE 470FNL 330FEL		9. API Well No. 30-015-43409
		10. Field and Pool, or Exploratory CEDAR LAKE GLORIETA-YESO
		11. County or Parish, and State EDDY COUNTY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Production Start-up
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Apache completed the well as follows: RR 11/23/16

01/26/16 MIRU WOR NU BOP LOAD 7" AND TEST TO 5K GOOD TEST. RU RENEGADE WL, RIH W/CNL-CBL-GR FROM 4850.15' TO SURFACE. ESTIMATE TOC@ 130' RDMO RENEGADE WIRELINE
01/29/16 RIH WITH BIT TO DRIL OUT DV TOOL
02/02/16 MILL OUT DEBRIS SUB @ 5143 LD SWWL RIH TO 5729' CIRC CAPACITY ND STRIPPER HEAD, POH & LD
TBG RDMO PREP TO FRAC
08/09-10/16 MIRU ALL PARTIES TO FRAC - ROCK PILE OPEN TOE VALVE @ 4020 PSI
(FRAC STAGES 1-15)

TOTAL SAND #2,880,774

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 05 2016

RECEIVED

14. I hereby certify that the foregoing is true and correct. Electronic Submission #353128 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Carlsbad		
Name (Printed/Typed) EMILY FOLLIS	Title REGULATORY ANALYST	
Signature (Electronic Submission)	Date 09/30/2016	
THIS SPACE FOR FEDERAL OR STATE OFFICIAL APPROVAL		
Approved By _____	Title _____	Pending BLM approvals will subsequently be reviewed and scanned
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
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.		

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

Additional data for EC transaction #353128 that would not fit on the form

32. Additional remarks, continued

TOTAL ACID 2,523 BBL

08/10/16 RDMO FRAC

09/09/16 WO DRILL OUT SLEEVES

09/10/16 WELL CIRC CLEAN, RIG DOWN TURN OVER TO LEQ TO RUN ESP

09/12/16 RIH W/ESP & 2-7/8" J55 TUBING, SET SLIPS & PREPARE TO NUBOPS & 7-1/16 5M FLANGE, NU ESP

FLANGE, SWI & TURN OVER TO PRODUCTION RDMO

09/15/16 POP - FIRST FLOW

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTNM OIL CONSERVATION
ARTESIA DISTRICT

OCT 05 2016

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMLC029426B1a. 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.
NMNM1340862. Name of Operator
APACHE CORPORATION
Contact: EMILY FOLLIS
E-Mail: Emily.Follis@apachecorp.com8. Lease Name and Well No.
CEDAR LAKE FEDERAL CA 148H3. Address 303 VETERANS AIRPARK LANE SUITE 1000
MIDLAND, TX 797053a. Phone No. (include area code)
Ph: 432-818-18019. API Well No.
30-015-43409

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

10. Field and Pool, or Exploratory
CEDAR LAKE: GLORIETA-YESO11. Sec., T., R., M., or Block and Survey
or Area Sec 10 T17S R31E Mer12. County or Parish
EDDY COUNTY13. State
NM14. Date Spudded
11/24/201515. Date T.D. Reached
12/07/201516. Date Completed
☐ D & A ☒ Ready to Prod.17. Elevations (DF, KB, RT, GL)*
3947 GL18. Total Depth: MD
TVD 9741
526819. Plug Back T.D.: MD
TVD 971120. Depth Bridge Plug Set: MD
TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CNL-CBL-GR22. 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

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

26. Perforation Record

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	Production Method
09/14/2016	09/24/2016	24	→	301.0	427.0	838.0	37.0		ELECTRIC PUMP SUB-SURFACE
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	C
			→				C
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio
			→				

Pending BLM approvals will
subsequently be reviewed
and scanned

(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	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	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 O/G/W	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 FOLLISTitle REGULATORY ANALYSTSignature (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.

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