

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

NM OIL CONSERVATION
ARTESIA DISTRICT
Form C-104
Revised August 1, 2011

SEP 02 2016
Submit one copy to appropriate District Office

RECEIVED

☐ 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 /08/13/16
⁴ API Number 30-015-43443	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 #646H

II. ¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
E	6	17S	31E	5	1980	NORTH	330	WEST	EDDY

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	5	17S	31E		1998.9	NORTH	547.9	WEST	EDDY

¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
F	P	08/13/16			

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

IV. Well Completion Data

17. Well Completion Data					
²¹ Spud Date 12/09/15	²² Ready Date 08/13/16	²³ TD 9827'	²⁴ PBDT 9827'	²⁵ Perforations 5095-9788'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17.5"		13.375 "48# H40	460'		650 sx Class C
12.25"		9.625 "40# J55	3511'		1450 sx Class C
8.50"		7" 29#, L80 / 5.5 "20# L80	4287'/9797'		630 sx Class C
Tubing		2-7/8"	4548'		

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
08/13/16	08/13/16	08/29/16	24 hrs		
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method
	273	1380	759		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:
08/31/16

Phone:
432-818-1801

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Pending BLM approvals will
subsequently be reviewed
and scanned

NM OIL CONSERVATION

ARTESIA DISTRICT

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SEP 02 2016

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

SUNDRY NOTICES AND REPORTS ON WELLS RECEIVED
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. NMLC029435B
2. Name of Operator APACHE CORPORATION		6. If Indian, Allottee or Tribe Name
Contact: EMILY FOLLIS E-Mail: Emily.Follis@apachecorp.com		7. If Unit or CA/Agreement, Name and/or No. NMNM134086
3a. Address 303 VETERANS AIRPARK LANE SUITE 1000 MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 432-818-1801	8. Well Name and No. CEDAR LAKE FED CA 646H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 6 T17S R31E SWNW 1980FNL 330FWL		9. API Well No. 30-015-43443
		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 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 checked="" 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 12/22/15

06/29/16 MIRU RENEGADE WL PU RIH W/CNL-GR-CCL- LOG FROM 4274-SURF GOOD CEMENT EST CEMENT TOP 50'
RDMO RENEGADE WL
07/05/16 MIRUSU & REV UT TEST CSG TO 5000# TEST GOOD NU BOP RACK & TALL PIPE
07/06/16 REV UNIT RIH W/ 6" BIT 4 3.5" DC & 2-7/8" J55 TBG ROTATE & DRILL THRU DEBRIS SUB @ 4558 TO
4559 RAN MILL W/NO ROTATION TO 4559 TO 5189 FOR 1 HR. CIRC HOLE POOH W/BHA
07/28/16 MOVE IN FRAC & RIG UP EQUIP & TEST LINES
07/29-30/16 START FRAC- Rock Pile Frac Company (17 STAGE FRAC) 5095-9788'

14. I hereby certify that the foregoing is true and correct. Electronic Submission #349627 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 08/31/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
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 known 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 #349627 that would not fit on the form

32. Additional remarks, continued

Total Sand - 4,811,640#

Total Acid - 3055 BBL

08/04/16 RDMO FRAC, MIRU WO RIG FOR DRILL OUT, DRILL OUT SLEEVES, OPEN WELL TO FLOWBACK TANK W/600# SICP. FLOWED WELL, DRILL OUT

08/05 -08/07/16 DRILL OUT, FINISH CIRC W/FOAM AIR, PUMPED WATER DOWN TBG, TOH LAYING DOWN 2-7/8 PH-6 WORK STRING RIG DOWN MOVE OFF WELL MOVED OFF TILL PRODUCTION IS READY TO TAKE OVER

08/10/16 MIRU, RIH PRODUCTION EQUIPMENT, SUMMIT ESP

08/13/16 FIRST FLOW

NM OIL CONSERVATION

ARTESIA DISTRICT

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SEP 02 2016

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMLC029435B

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. NMNM134086		
2. Name of Operator APACHE CORPORATION			8. Lease Name and Well No. CEDAR LAKE FEDERAL CA 646H		
Contact: EMILY FOLLIS E-Mail: Emily.Follis@apachecorp.com					
3. Address 303 VETERANS AIRPARK LANE SUITE 1000 MIDLAND, TX 79705			9. API Well No. 30-015-43443		
3a. Phone No. (include area code) Ph: 432-818-1801					
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 6 T17S R31E Mer At surface SWNW 1980FNL 330FWL Sec 5 T17S R31E Mer At top prod interval reported below SWNW 1998FNL 547FWL Sec 5 T17S R31E Mer At total depth SWNW 1998FNL 547FWL			10. Field and Pool, or Exploratory CEDAR LAKE: GLORIETA-YESO		
			11. Sec., T., R., M., or Block and Survey or Area Sec 6 T17S R31E Mer		
			12. County or Parish EDDY COUNTY		13. State NM
14. Date Spudded 12/09/2015		15. Date T.D. Reached 12/21/2015	16. Date Completed. <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.		17. Elevations (DF, KB, RT, GL)* 3759 GL
18. Total Depth: MD 9827 TVD 4870		19. Plug Back T.D.: MD 9827 TVD		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CNL-CBL-GR-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 type="checkbox"/> No <input checked="" 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
8.500	5.500 L80	20.0		9797					
17.500	13.375 H40	48.0	0	460		650			
12.250	9.625 J55	40.0	0	3511		1820			
8.500	7.000 L80	29.0	0	4292		630			

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	4548							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) YESO/PADDOCK	4625	9827	5095 TO 9788			OPEN HOLE PRODUCING
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
5095 TO 9788	TOTAL SAND 4,811,640# & TOTAL ACID 3055 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
08/13/2016	08/29/2016	24	→	273.0	759.0	1380.0	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	
			→				2780		

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas:Oil Ratio	Well Status
			→						
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 #349614 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	300	456	ANHYDRITE, DOLOMITE W	RUSTLER	300
SALADO	456	1362	ANHYDRITE, DOLOMITE W	SALADO	456
TANSIL	1362	1517	ANHYDRITE, SALT, DOLO, SS O/G/W	TANSIL	1362
YATES	1517	1787	SANDSTONE O/G/W	YATES	1517
SEVEN RIVERS	1787	2385	SS, DOLO, LIMESTONE O/G/W	SEVEN RIVERS	1787
QUEEN	2385	2804	SS, DOLO, LIMESTONE O/G/W	QUEEN	2385
GRAYBURG	2804	3107	DOLO, LIMESTONE, SS O/G/W	GRAYBURG	2804
SAN ANDRES	3107	4542	DOLO, LIMESTONE, SS O/G/W	SAN ANDRES	3107

32. Additional remarks (include plugging procedure):

GLORIETA 4542 - 4625 SANDSTONE O/G/W
PADDOCK 4625 - TD(9827) 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 #349614 Verified by the BLM Well Information System.
For APACHE CORPORATION, sent to the Carlsbad**

Name (please print) EMILY FOLLISTitle REGULATORY ANALYSTSignature (Electronic Submission)Date 08/31/2016

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 ****