

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.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
A	10	17S	31E		470	NORTH	330	EAST	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
D	10	17S	31E		471	NORTH	331	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	09/14/16			

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

NM OIL CONSERVATION
ARTESIA DISTRICT
OCT 06 2016
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IV. Well Completion Data

²¹ Spud Date	²² Ready Date	²³ TD	²⁴ PBDT	²⁵ Perforations	²⁶ DHC, MC
11/24/15	09/14/16	9741' <i>5268</i>	9711'	'5777-9613	
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	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
09/14/16	09/14/16	09/24/16	24 hrs		
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas	⁴¹ Test Method	
	301	838	427	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: *Emily Follis*

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: *Karen Sharp*

Title: *Bud Super Spec-Adv*

Approval Date:
10-6-16

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.

5. Lease Serial No.
NMLC029426B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NMNM134086

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

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
APACHE CORPORATION
Contact: EMILY FOLLIS
E-Mail: Emily.Follis@apachecorp.com

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 10 T17S R31E NENE 470FNL 330FEL

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 recomplete 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 recompletion 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

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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 SIGNATURE

Approved By _____	Title _____
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.	Office _____

Pending BLM approvals will subsequently be reviewed and scanned

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

**NM OIL CONSERVATION
ARTESIA DISTRICT**

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCT 05 2016

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG RECEIVED

5. Lease Serial No.
NMLC029426B

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**

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**
 14. Date Spudded **11/24/2015** 15. Date T.D. Reached **12/07/2015** 16. Date Completed D & A Ready to Prod.
 17. Elevations (DF, KB, RT, GL)* **3947 GL**

18. Total Depth: MD **9741** TVD **5268** 19. Plug Back T.D.: MD **9711** TVD _____ 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	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

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 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 ****