

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
⁴ API Number 30-015-43508		³ Reason for Filing Code/ Effective Date NW / 07/12/2017
⁵ Pool Name CEDAR LAKE; GLORIETA-YESO		⁶ Pool Code [96831]
⁷ Property Code 315935	⁸ Property Name 30-015-43508 CEDAR LAKE FEDERAL CA	
		⁹ Well Number 549H

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
E	5	17S	31E		2510	NORTH	715	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
H	5	17S	31E		1957	NORTH	324	EAST	EDDY

¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 07/12/17	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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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 AUG 03 2017 RECEIVED		

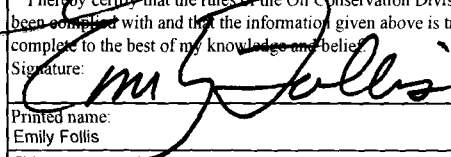
IV. Well Completion Data

²¹ Spud Date 03/30/17	²² Ready Date 07/12/17	²³ TD 9491'	²⁴ PBDT 9490	²⁵ Perforations 5744-9491	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5'	13.375 48# H40	498	520 sx Class C		
12.25	9.625 40# J 55	3495	1550 sx Class C		
8.5	7 L80 29# / 5.5 L80 20#	4818/9491	700 sx Class C		
Tubing	2 7/8" J55 6.50#	4800'			

V. Well Test Data

³¹ Date New Oil 07/12/17	³² Gas Delivery Date 07/12/17	³³ Test Date 07/26/17	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 243	³⁹ Water 659	⁴⁰ Gas 109		⁴¹ Test Method P

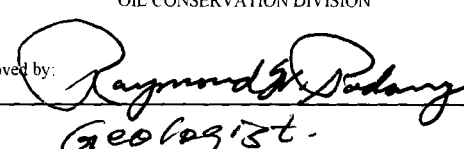
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: 
Printed name:
Emily Follis

Title:
Reg Analyst
E-mail Address:
emily.follis@apachecorp.com

Date:
07/31/17
Phone:
432-818-1801

OIL CONSERVATION DIVISION

Approved by: 
Title:
Geologist
Approval Date:
8-11-17

Pending BLM approvals will subsequently be reviewed and scanned

NM OIL CONSERVATION

Form 3160-4
(August 2007)

ARTESIA DISTRICT

AUG 03 2017

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.		
2. Name of Operator APACHE CORPORATION			8. Lease Name and Well No. CEDAR LAKE FEDERAL CA 549H		
3. Address 303 VETERANS AIRPARK LANE SUITE 1000 MIDLAND, TX 79705			9. API Well No. 30-015-43508		
3a. Phone No. (include area code) Ph: 432-818-1801			10. Field and Pool, or Exploratory CEDAR LAKE; GLORIETA		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SWNW 2510FNL 715FWL At top prod interval reported below SWNW 1957FNL 324FEL At total depth SWNW 1957FNL 324FEL			11. Sec., T., R., M., or Block and Survey or Area Sec 5 T17S R31E Mer		
14. Date Spudded 03/30/2017			15. Date T.D. Reached 04/14/2017		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 04/15/2017			17. Elevations (DF, KB, RT, GL)* 3795 GL		
18. Total Depth: MD 9891 TVD 4863		19. Plug Back T.D.: MD 9891 TVD		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL -RENEGADE			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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H40	48.0	0	498		520			
12.250	9.625 J55	40.0	0	3495		1550			
8.500	7.000 L80	29.0	0	4863		700			
8.500	5.500 L80	20.0	4860	9491					

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	4639							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
OPEN HOLE-UPPER BLINBRY	5744	9491	5744 TO 9491			OPEN HOLE
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
5744 TO 9491	TOTAL SAND 4,469,681#, TOTAL ACID 3,132 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
07/11/2017	07/26/2017	24	→	243.0	109.0				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	
			→			659	448	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	
			→						

Pending BLM approvals will subsequently be reviewed and scanned

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

ELECTRONIC SUBMISSION #383211 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

8-11-17

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	360	572	ANHYDRITE, DOLOMITE W	RUSTLER	360
SALADO	572	1403	ANHYDRITE, DOLOMITE W	SALADO	572
TANSIL	1403	1582	ANHYDRITE, SALT, DOLO, SS O/G/W	TANSIL	1403
YATES	1582	1834	SANDSTONE O/G/W	YATES	1582
SEVEN RIVERS	1834	2447	SS, DOLO, LIMESTONE O/G/W	SEVEN RIVERS	1834
QUEEN	2447	2895	SS, DOLO, LIMESTONE O/G/W	QUEEN	2447
GRAYBURG	2895	3219	DOLO, LIMESTONE, SS O/G/W	GRAYBURG	2895
SAN ANDRES	3219	4665	DOLO, LIMESTONE, SS O/G/W	SAN ANDRES	3219

32. Additional remarks (include plugging procedure):
GLORIETA - SANDSTONE O/G/W 4665 - 4750
PADDOCK - DOLOMITE O/G/W 4750 - 5200
BLINEBRY - DOLOMITE O/G/W 5200 - TD (9491)

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 #383211 Verified by the BLM Well Information System.
For APACHE CORPORATION, sent to the Carlsbad**

Name (please print) EMILY FOLLISTitle REGULATORY ANALYSTSignature (Electronic Submission)Date 07/31/2017

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 ****

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**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.
NMLC029435B

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

CEDAR LAKE FEDERAL CA 549H

2. Name of Operator

APACHE CORPORATION

Contact: EMILY FOLLIS

E-Mail: Emily.Follis@apachecorp.com

9. API Well No.

30-015-43508

3a. Address

303 VETERANS AIRPARK LANE SUITE 1000
MIDLAND, TX 79705

3b. Phone No. (include area code)

Ph: 432-818-1801

10. Field and Pool or Exploratory Area

FREN;GLORIETA-YESO

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 5 T17S R31E SWNW 2510FNL 715FWL

11. County or Parish, State

EDDY COUNTY COUNTY, NM

12. CHECK THE 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"/> Hydraulic Fracturing	<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 must 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 must be filed once testing has been completed. Final Abandonment Notices must 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 FOLLOWING: RR 04/15/17 TOC@16.50

05/02/17 MIRU WOR DRILL OUT DV TOOL

05/03/17 DRILL OUT DEBRIS SUB

05/05/17 MIRU ELINE - RUN CBL

05/28-31/17 RU FRAC - PUMPCO (16 STAGE FRAC) UPPER BLINBRY (5744 - 9491')

TOTAL SAND 4,469,681#

TOTAL ACID 3,120 BBL

05/31/17 RDMO FRAC

06/10/17 TOOH LAYING DOWN WORKSTRING & BHA - SECURE WELL - SDFW

06/13/17 JSA/SFTY MTG, WELL ON VAC, LOAD & RELEASE WS, RELEASE RENTAL EQUIP, CLEAN UP LOC AFTER DO,

NM OIL CONSERVATION
ARTESIA DISTRICT

AUG 03 2017

RECEIVED

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #383213 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 07/31/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____
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

Pending BLM approvals will
subsequently be reviewed
and scanned

Office

PC 8-11-17

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212. make it a crime for any person knowingly and voluntarily to make any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

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

Additional data for EC transaction #383213 that would not fit on the form

32. Additional remarks, continued

RACK & TALLY NEW 2 7/8" J-55 PROD TBG, PU & RIH, POH & STND BK, SI, SDFN
06/14/17 JSA/SFTY MTG, WELL ON VAC, ND SPOOL/BOP, NU GT6 WH/BOP/HYDRIL, RIH W/BP, 10 JTS 2 7/8"
J-55, SD DUE TO BAKER TECH FAMILY EMERGENCY, 3 HRS STNDBY FOR REPLACEMENT TECH, PU & RIH W/7"
CAVINS DS, BAKER ESP, 1 JT, 6' SUB, 5.38" SG, 6' SUB, SN & 143 JTS, MAKE UPPER PIGTAIL SPLICE, LAND
TBG IN TBG HANGER, ND BOP/HYDRIL, NU WELL HD, RDMO
07/11/17 First Flow sent Sundry 3160-5 POP