

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-104

State of New Mexico
Energy, Minerals & Natural Resources

APR 25 2016

Revised August 1, 2011

Submit one copy to appropriate District Office

RECEIVED

☐ AMENDED REPORT

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

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

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 30-015-40903		³ Reason for Filing Code/ Effective Date NW / 4/15/2016	
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 643H

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
I	6	17S	31E		2090	South	200	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
I	5	17S	31E		2099	South	332	East	Eddy

¹² Lsc Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 4/15/2016	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
221115	Frontier Field Services LLC 4200 East Skelly Drive Suite 700 Tulsa OK 74135	G
252293	Holly Energy Pipeline 311 W Quay / PO Box 1360 Artesia NM 88210	O
15694	Navajo Refining Co P/L Division PO Box 159 Artesia NM 88211	O

IV. Well Completion Data

²¹ Spud Date 7/30/2015	²² Ready Date 4/15/2016	²³ TD 10,237' / 5377'	²⁴ PBTD 10,237'	²⁵ Perforations 5621'-10,237'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2"	13-3/8"	400'	420 sx Class C		
12-1/4"	9-5/8"	3500'	1500 sx Class C		
8-1/2"	7" / 5-1/2"	4800' / 10,203'	625 sx Class C		
Tubing	2-7/8"	5050'			

V. Well Test Data

³¹ Date New Oil 4/15/2016	³² Gas Delivery Date 4/15/2016	³³ Test Date 4/17/2016	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 268	³⁹ Water 1212	⁴⁰ Gas 40		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:

Reesa Fisher

Printed name:
Reesa Fisher

Title:
Sr Staff Reg Analyst

E-mail Address:
Reesa.Fisher@apachecorp.com

Date:
4/19/2016

Phone:
432-818-1062

OIL CONSERVATION DIVISION

Approved by:

Karen Sharp

Title:

Bus Op Asst - Adv

Approval Date:

4-29-16

Pending BLM approvals will
subsequently be reviewed
and scanned

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.
NMLC029435B

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.7. If Unit or CA/Agreement, Name and/or No.
NMNM134086

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
CEDAR LAKE FEDERAL CA 643H2. Name of Operator
APACHE CORPORATIONContact: REESA FISHER
E-Mail: Reesa.Fisher@apachecorp.com9. API Well No.
30-015-429033a. Address
303 VETERANS AIRPARK LANE SUITE 3000
MIDLAND, TX 797053b. Phone No. (include area code)
Ph: 432-818-106210. Field and Pool, or Exploratory
CEDAR LAKE; GLORIETA-YESO

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

Sec 6 T17S R31E NESE 2090FSL 200FEL

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 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 this well, as follows: (RR 8/15/2015) (Formerly NFE Federal Com #43H)
09/16/2015 MIRU Renegade. Log Prod csg from 4774'-Surf; Good cmt, ETOC @ 112'.
09/30/2015 Test csg to 5000#. DO DV Tool @ 4785'.
10/01/2015 MO Debris Sub; circ clean.
10/02/2015 POOH & LD tbg, RDMO
11/11/2015 MIRU Elite & frac Upper Blinbry 5621'-10,237' (KOP @ 4785'; TD @ 10,237')
Packers @ 5621', 5906', 6145', 6429', 6713', 6996', 7237', 7521', 7805', 8046', 8330', 8615',
8899', 9139', 9424', 9708', 9991', 10,237' (17 Stages)
Total Acid = 2887 BBLs
Total Sand = 3,217,072#
11/19/2015 RIH w/mill & tbg.
11/20/2015 Mill out sleeves.

NM OIL CONSERVATION
ARTESIA DISTRICT

APR 25 2016

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

**Electronic Submission #336971 verified by the BLM Well Information System
For APACHE CORPORATION, sent to the Carlsbad**

Name (Printed/Typed) REESA FISHER

Title SR STAFF REGULATORY ANALYST

Signature (Electronic Submission)

Date 04/20/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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

to any department or agency of the United

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

Additional data for EC transaction #336971 that would not fit on the form

32. Additional remarks, continued

WO production equipment and facilities.

04/01/2016 RIH w/prod equip.

04/04/2016 RIH w/Summit ESP. 2-7/8" J-55 tbg to 5050'. Pump @ 4636'; Intake @ 4676'; Motor @ 4720'; Desander @ 4726'.

04/15/2016 Hook up electric & POP.

NOTE: Gaps in dates are due to pad drilling processes and surrounding area water issues, which delay completion operations.

NM OIL CONSERVATION

ARTESIA DISTRICT

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APR 25 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 643H		
3. Address 303 VETERANS AIRPARK LANE SUITE 3000 MIDLAND, TX 79705			9. API Well No. 30-015-42903		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 6 T17S R31E Mer At surface NESE 2090FSL 200FEL Sec 6 T17S R31E Mer At top prod interval reported below NESE 2090FSL 200FEL Sec 5 T17S R31E Mer At total depth NESE 2099FSL 332FEL			10. Field and Pool, or Exploratory CEDAR LAKE; GLORIETA-YESO		
14. Date Spudded 07/30/2015			15. Date T.D. Reached 08/14/2015		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 04/15/2016			17. Elevations (DF, KB, RT, GL)* 3756 GL		
18. Total Depth: MD TVD 10237 5377		19. Plug Back T.D.: MD TVD 10237		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CNL/CBL			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
17.500	13.375 H-40	48.0	0	400		420		0	
12.250	9.625 J-55	40.0	0	3500		1500		0	
8.500	7.000 L-80	29.0	0	4800		625		112	
8.5	5.5 L-80	20	4800	10203					

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	5050							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BLINEBRY	5286	10237	5621 TO 10237			PROD - OH
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
5621 TO 10237	2887 BBLs ACID; 3,217,072# SAND

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
04/15/2016	04/17/2016	24	→	268.0	40.0	1212.0	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	
			→				149	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	Production Method
			→						
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 #336970 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	399	531	ANHYDRITE, DOLOMITE W	RUSTLER	399
SALADO	531	1411	ANHYDRITE, DOLOMITE W	SALADO	531
TANSILL	1411	1545	ANHYDRITE, SALT, DOLO, SS O/G/W	TANSILL	1411
YATES	1545	1817	SANDSTONE O/G/W	YATES	1545
SEVEN RIVERS	1817	2413	SANDSTONE, DOLO, LIMESTONE O/G/W	SEVEN RIVERS	1817
QUEEN	2413	2832	SANDSTONE, DOLO, LIMESTONE O/G/W	QUEEN	2413
GRAYBURG	2832	3148	DOLO, LIMESTONE, SANDSTONE O/G/W	GRAYBURG	2832
SAN ANDRES	3148	4616	DOLO, LIMESTONE, SANDSTONE O/G/W	SAN ANDRES	3148

32. Additional remarks (include plugging procedure):

Glorieta 4616 4668 Sandstone O/G/W Glorieta 4616
Paddock 4668 5286 Dolomite O/G/W Paddock 4668
Blinebry 5286 10237 Dolomite O/G/W Blinebry 5286

Formerly NFE Federal Com #43H

KOP @ 4785'

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 #336970 Verified by the BLM Well Information System.
For APACHE CORPORATION, sent to the Carlsbad

Name (please print) REESA FISHER Title SR STAFF REGULATORY ANALYSTSignature (Electronic Submission) Date 04/20/2016

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 ****

Additional data for transaction #336970 that would not fit on the form

32. Additional remarks, continued

NOTE: Gaps in dates are due to pad drilling processes and surrounding area water issues, which delay completion operations.