

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/08/25/16
⁴ API Number 30-015-40468	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 #812H

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	8	17S	31E		2088	NORTH	220	WEST	EDDY

¹¹Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	7	17S	31E		2077	NORTH	330	WEST	EDDY

¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 08/25/16	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

IV. Well Completion Data

²¹ Spud Date 12/03/2012	²² Ready Date 08/25/16	²³ TD 10,573	²⁴ PBTB 10568	²⁵ Perforations 6050-10475	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5'	13.375 48#H40	492'	775 sx Class C		
12.25'	9.625 36#J55	3528'	1680 sx Class C		
8.75'	7" 26# J55 L80	5432'	745 sx Class C		
8.75	4.5 LINER, 3.5# L80	10,573'	450 sx PVL		

V. Well Test Data

³¹ Date New Oil 08/25/16	³² Gas Delivery Date 08/25/16	³³ Test Date 08/30/2016	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 195	³⁹ Water 1210	⁴⁰ Gas 320		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: *Emily Follis*
Printed name: Emily Follis
Title: Reg Analyst
E-mail Address: emily.follis@apachecorp.com
Date: 09/14/16
Phone: 432-818-1801

OIL CONSERVATION DIVISION
Approved by: *Karen Sharp*
Title: *Res Op Spec-Adv*
Approval Date: *9-19-16*

Pending BLM approvals will subsequently be reviewed and scanned

SEP 19 2016

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.

RECEIVED

5. Lease Serial No. NMLC029435B
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 812H
9. API Well No. 30-015-40468
10. Field and Pool, or Exploratory CEDAR LAKE, GLORIETA-YESA
11. County or Parish, and State EDDY COUNTY COUNTY, NM

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	
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 8 T17S R31E SWNW 2088FNL 220FWL	

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 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 02/20/13 TOC@136'

- 05/17/16 RU RENAGADE RUN CBL 5350 LOG UP' DROP BACK LOG RADIAL BOND/GAMMA RAY/CCL BACK TO SURFACE
- 05/18/16 POLISH PBR/RUN TEST TOOL
- 05/19/16 RIH W/3/4" BIT
- 05/20/16 POOH WITH BIT, TEST CASING TO 1500# NO LEAK OFF, TRIED TO CUT CASING NO LUCK, CIRC REV 40
- BBL, PRESURE UP MADE CUT, PIPE WOULD NOT MOVE, KNIVES WOULD NOT CLOSE. WORK PIPE TO 10,227, SUB
- LEAKING. POOH PULLED 10,165 PIPE DRAGGING CLOSE WELL IN. SDFW
- 05/23/16 TRY TO PULL CUTTER
- 05/24/16 RIH W/3/4" MILL
- 05/25/16 MIRU PETROPLEX ACID PUMP & BREAKDOWN
- 05/26/16 RIH W/4-1/2" FRAC STRING, SAFETY MEETING OVER SLIPS & TRIPS, INSTALL GOAT HEAD, AND PREPARE

14. I hereby certify that the foregoing is true and correct. Electronic Submission #351193 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 09/14/2016

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 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 provide to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional data for EC transaction #351193 that would not fit on the form

32. Additional remarks, continued

TO RIG DOWN SDFN

05/28/16 COST UPDATE

07/21/16 RU & TEST LINES TO 7225 PSI, ACID TALKS GETTING RE-FILED FOR STAGE FRAC TO START, ALL PARTIES RIGGED UP

07/22-08/17/16 START (ROCK PILE) LOWER BLINEBRY (STAGE FRAC 1-15)

TOTAL SAND #2,835,080

TOTAL ACID 2682 BBL

08/17/16 RDMOL W/WIRELINE & ALL FRAC EQUIPMENT, MOVE IN BASIC RIG, WODL

08/18/16 MIRU WOR - COMMENCE D.O. OPS - DRILLED OUT CAP PLUG, SET PIPE RACKS, TEST BOP, MUELLER HEAD & LINES TO MAINIFOLD

08/19-21/16 DRILL OUT FRAC PLUGS

08/22/16 ALL PIPE OUT OF HOLE COMPLETION OPPS START PRODUCTION OPPS.

08/23/16 RIH W GE PUMP & DESANDER

08/24/16 RD & MOVE OUT GE & ELECTRICIANS WORKING ON BOXES & PANELS

09/01/16 SET SURFACE, RUN ELECTRICAL, PLUMP INTO BATTERY , FINAL REPORT

SEP 19 2016

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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 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 Sec 8 T17S R31E Mer SWNW 2088FNL 220FWL
At top prod interval reported below Sec 7 T17S R31E Mer SWNW 2077FNL 330FWL
At total depth Sec 7 T17S R31E Mer SWNW Lot 2 2077FNL 330FWL

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 812H

9. API Well No. 30-015-40468

10. Field and Pool, or Exploratory CEDAR LAKE: GLORIETA YESO

11. Sec., T., R., M., or Block and Survey or Area Sec 8 T17S R31E Mer

12. County or Parish EDDY COUNTY 13. State NM

14. Date Spudded 12/03/2012 15. Date T.D. Reached 02/20/2013 16. Date Completed D & A Ready to Prod.

17. Elevations (DF, KB, RT, GL)* 3727 GL

18. Total Depth: MD 10573 TVD 5837 19. Plug Back T.D.: MD 10568 TVD 19. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL-RB-GR-CCL 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		492		775			
12.250	9.625 J55	36.0		3528		1680			
8.750	7.000 J55	26.0		5432		745			
8.750	4.500 L80	13.5	5338	10573		450			

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	5612							

25. Producing Intervals 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BLINEBRY	5337	10573	6050 TO 10475			OPEN HOLE PRODUCING
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
6050 TO 10475	TOTAL SAND #2,835,080 , TOTAL ACID 2682 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
08/25/2016	08/30/2016	24	▶	195.0	320.0	1210.0	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	
			▶				1641	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
			▶					

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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	389	465	ANHYDRITE, DOLOMITE W	RUSTLER	389
SALADO	465	1367	ANHYDRITE, DOLOMITE W	SALADO	465
TANSIL	1367	1525	ANHYD, SALT, DOLO, SS O/G/W	TANSIL	1367
YATES	1525	1799	SANDSTONE O/G/W	YATES	1525
SEVEN RIVERS	1799	2413	SS, DOLO, LIMESTONE O/G/W	SEVEN RIVERS	1799
QUEEN	2413	2821	SS, DOLO, LIMESTONE O/G/W	QUEEN	2413
GRAYBURG	2821	3136	DOLO, LIMESTONE, SS O/G/W	GRAYBURG	2821
SAN ANDRES	3136	4641	DOLO, LIMESTONE, SS O/G/W	SAN ANDRES	3136

32. Additional remarks (include plugging procedure):

GLORIETA 4641-4712 SANDSTONE O/G/W
 PADDOCK 4712-5337 DOLOMITE O/G/W
 BLINEBRY 5337 - TD(10,573') 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 #351188 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 09/14/2016

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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