

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
⁴ API Number 30-015-42401	⁵ Pool Name CEDAR LAKE; GLORIETA-YESO	⁶ Pool Code 96831
⁷ Property Code 308720	⁸ Property Name LEE FEDERAL	⁹ Well Number 77

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
L	20	17S	31E		1550	FSL	970	FWL	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
L	20	17S	31E		2288	FSL	950	FWL	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				

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
NM OIL CONSERVATION ARTESIA DISTRICT JAN 16 2015 RECEIVED		

IV. Well Completion Data

²¹ Spud Date	²² Ready Date	²³ TD	²⁴ PBDT	²⁵ Perforations	²⁶ DHC, MC
09/15/2014		6472' 6413	6440'		
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5	13-3/8 H-40	313'	375 sx Class C		
11	8-5/8 J-55	3514'	1610 sx Class C		
7.85	5-1/2 J-55	6472'	970 sx Class C		
Tubing	2-7/8 J-55	?			

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
11/20/2014	SOLD	12/01/14	24 hrs		
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method
	75	264	76		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:
12/15/2014

Phone:
432-818-1801

OIL CONSERVATION DIVISION

"Denied"

Approved by:

Title: *Amend w/complete information*
Approval Date:

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.
NMLC029395B

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.8. Well Name and No.
LEE FEDERAL 779. API Well No.
30-015-4240110. Field and Pool, or Exploratory
GLORIETA-YESO<96831>11. County or Parish, and State
EDDY COUNTY COUNTY, NM

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
APACHE CORPORATIONContact: EMILY FOLLIS
E-Mail: emily.follis@apachecorp.com3a. Address
303 VETERANS AIRPARK LANE #3000
MIDLAND, TX 797053b. Phone No. (include area code)
Ph: 432-818-1801

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

Sec 20 T17S R31E NWSW 1550FSL 970FWL

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.)

SEE ATTACHED 3160-5 FOR THE LEE FEDERAL #77

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #285331 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Carlsbad	
Name (Printed/Typed) EMILY FOLLIS	Title REGULATORY ANALYST I
Signature (Electronic Submission)	Date 12/16/2014
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 _____
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 any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.	

Pending BLM approvals will
subsequently be reviewed
and scanned

Department or agency of the United States

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

APACHE HAS COMPLETED THIS WELL AS FOLLOWS:

Lee Federal 77D – SUNDRY 3160-5

09/15/2014 RIG DOWN

10/09/2014 LOG FROM PBTD @ 6411' TO SF. FOUND GOOD CMT ACROSS ALL PAY INTERVALS. TOC @ 115'. POOH W/ LOGGING TOOLS. PU & RIH W/ 3-1/8" PERF GUNS & PERF Blinebry/Tubb zone @@ 5841, 66, 92, 5904, 14, 33, 47, 67, 95, 6024, 40, 59, 81, 6105, 36,59, 78, 97, 6228 & 50'. (1 JSPF) (20 holes) . POOH W/ PERF GUNS & RDMO WL.PREP TO ACIDIZE LOWER BLINEBRY ZONE @ LATER

10/14/2014 PERFS & ACIDIZE LOWER BLINEBRY ZONE 5841'-6250'

10/27/2014 STAGE 1: RU BAKER FRAC Blinebry/Tubb zone @ 5841, 66, 92, 5904, 14, 33, 47, 67, 95, 6024, 40, 59, 81, 6105, 36, 59, 78, 97, 6228 & 50'. (1 JSPF) (20 holes). PUMP 129,819# 16/30 BROWN, 40,737# 16/30 SIBER PROP. SPOT 1050 GAL 15% HCL, TOTAL PROP = 170,556#,STAGE 2:SET CBP @ 5,830' PERF THE Blinebry @ 5286, 5316, 43, 65, 82, 5404, 39, 54, 72, 5500, 17, 37, 52, 75, 5600, 21, 40, 64, 83, 5700, 20, 40, 71 & 5800'. (1 JSPF) (24 holes).STAGE 2PUMP 3,486 GAL 15% HCL

10/28/2014 STAGE 2.FRAC Blinebry @ 5286, 5316, 43, 65, 82, 5404, 39, 54, 72, 5500, 17, 37, 52, 75, 5600, 21, 40, 64, 83, 5700, 20, 40, 71 & 5800'.PUMP -162,110# 16/30 BROWN, 30,211# 16/30 SIBER PROP. SPOT 1050 GAL 15% HCL, TOTAL PROP = 192,321#,STAGE 3:SET CBP @ 5,260'

PERF Paddock/Glorieta @ 4643, 64, 80, 95, 4716, 42, 65, 84, 4813, 29, 58, 80, 4900, 21, 38, 57, 64, 95, 5020, 47, 62, 85, 5108, 26, 42, 72, 98 & 5215'. (1 JSPF) (28 holes)STAGE 3 ACID JOB PUMP 3,906 GAL 15% HCL STAGE 3. FRAC PADDOCK @ 4643-5215 PUMP -168,686# 16/30 BROWN, 47,145# 16/30 siber prop. total prop+215,831

11/05/2014 2-7/8" J-55 TBG. @ 5100'. POOH W/ TBG & BIT TO ABOVE PERFS. MIRU FOAM AIR UNIT. DO CBPs & CO WELL TO PBTD.

11/06/2014 POOH W/ TBG & BIT. RIH W/ PROD EQUIP MIRU AIR FOAM UNIT. CIRC HOLE CLEAN TO PBTD PBTD @ 6440'.

11/07/2014 139 JTS OF 2-7/8" J-55 TBG. ETD @ 6400.22' RKB. SN @ 6310.15' RKB

11/10/2014 PREP TO RIH W/ PUMP & RODS

11/11/2014 AMPSCOT 640-365-168 PUMPING UNIT

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMLC029395B

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			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 NWSW 1550FSL 970FWL At top prod interval reported below NWSW 1550FSL 970FWL At total depth NWSW 2288FSL 950FWL			8. Lease Name and Well No. LEE FEDERAL 77		
14. Date Spudded 09/05/2014			15. Date T.D. Reached 09/14/2014		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 11/20/2014			9. API Well No. 30-015-42401		
18. Total Depth: MD 6472 TVD 6413			19. Plug Back T.D.: MD 6440 TVD		
20. Depth Bridge Plug Set: MD TVD			10. Field and Pool, or Exploratory CEDAR LAKE: GLORIETA-YESO		
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL/BHCS/SGR/CN/PHPL/Hi-RES LL			11. Sec., T., R., M., or Block and Survey or Area Sec 20 T17S R31E Mer		
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)			12. County or Parish EDDY COUNTY		
			13. State NM		
			17. Elevations (DF, KB, RT, GL)* 3633 GL		

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	313		375		0	
11.000	8.625 J-55	32.0	0	3514		1650		1350	
7.625	5.500 J-55	17.0	0	6472		970		115	

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	6250							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) PADDOCK	4643	5215	4643 TO 5215		28	PADDOCK
B) BLINBRY	5286	6250	5286 TO 5800		24	BLINBRY
C)			5841 TO 6250		20	BLINBRY
D)						

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

Depth Interval	Amount and Type of Material
4643 TO 6250	11841 BBL WATER, 578,708# PROPANT

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
11/20/2014	12/01/2014	24	→	75.0	76.0	264.0	36.0		ELECTRIC PUMPING UNIT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→				1013	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 Grav.	Well S.
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio		
			→						

ending BLM approvals will
ubsequently be reviewed
nd scanned

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

ELECTRONIC SUBMISSION #285334 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	299	427	SANDSTONE	RUSTLER	299
TANSIL SALT	427	1297	SALT	TANSIL SALT	427
BOTTOM SALT	1297	1430	SALT	BOTTOM SALT	1297
YATES	1430	1763	SANDSTONE	YATES	1430
SEVEN RIVERS	1763	2395	SANDSTONE, CARBONATE	SEVEN RIVERS	1763
QUEEN	2395	3167	SANDSTONE, CARBONATE	QUEEN	2395
SAN ANDRES	3167	4673	CARBONATE	SAN ANDRES	3167
GLORIETA	4673	4747	SANDSTONE	GLORIETA	4673

32. Additional remarks (include plugging procedure):

PADDOCK - 4747 - 5284 DOLOMITE
BLINEBRY - 5284 - 6252 DOLOMITE
TUBB - 6251 SANDSTONE

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 #285334 Verified by the BLM Well Information System.
For APACHE CORPORATION, sent to the Carlsbad

Name (please print) EMILY FOLLISTitle REGULATORY ANALYSTSignature (Electronic Submission)Date 12/16/2014

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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