

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 Airport Lane Suite 3000 Midland TX 79705		² OGRID Number 873
		³ Reason for Filing Code/ Effective Date NW / 02/03/2015
⁴ API Number 30-015-41988	⁵ Pool Name Cedar Lake; Glorieta-Yeso	⁶ Pool Code 96831
⁷ Property Code 308720	⁸ Property Name Lee Federal	⁹ Well Number 064

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
C	20	17S	31E		95	North	1835	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
C	20	17S	31E		322	North	2300	West	Eddy
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 02/03/2015	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

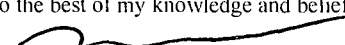
¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
221115	Frontier Field Services LLC 4200 East Skelly Drive Suite 700 Tulsa OK 74135	G
252293	Holly Energy Pipeline 311 W Quay / PO Box 1360 Artesia NM 88210	O
	NM OIL CONSERVATION ARTESIA DISTRICT MAY 18 2015 RECEIVED	

IV. Well Completion Data

²¹ Spud Date 10/29/2014	²² Ready Date 02/03/2015	²³ TD 6373'	²⁴ PBTB 6359'	²⁵ Perforations 4550'-6200'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2"	13-3/8"	308'	700 sx Class C		
11"	8-5/8"	3512'	3480 sx Class C		
7-7/8"	5-1/2"	6373'	910 sx Class C		
Tubing	2-7/8"	6301'			

V. Well Test Data

³¹ Date New Oil 02/03/2015	³² Gas Delivery Date 02/03/2015	³³ Test Date 03/09/2015	³⁴ Test Length 24	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 60	³⁹ Water 160	⁴⁰ Gas 238		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:
Fatima Vasquez
Title:
Regulatory Analyst II

E-mail Address:
Fatima.Vasquez@apachecorp.com

Date:
05/13/2015

Phone:
(432) 818-1015

OIL CONSERVATION DIVISION

Approved by:




Title:



Approval Date:

5-19-15

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.

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		8. Well Name and No. LEE FEDERAL 64
2. Name of Operator APACHE CORPORATION		9. API Well No. 30-015-41988
3a. Address 303 VETERANS AIRPARK LN MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 432-818-1015	10. Field and Pool, or Exploratory CEDAR LAKE; GLORIETA-YESO
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 20 T17S R31E NENW 95FNL 1835FWL 32.827029 N Lat, 103.894536 W Lon		11. County or Parish, and State EDDY 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 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.)

Apache completed this well as follows:

11/11/2014 MIRUSU. Log TOC @ 110' (CBL).
11/14/2014 RIH w/ bit & tbg. Circ clean.
11/17/2014 Stage I - Perf Lower Blinbry @ 5630'-6200' w/ 1 SPF, 28 holes.
11/18/2014 Spot 567 gals acid. Acidize w/ 3074 gals 15% HCl NEFE acid.
12/22/2014 Pump 3000 gals 15% HCl acid. Frac Lower Blinbry w/ 53,466 gals 16# pad, 41,916 gals 16# gel, 14,357# 16/30 sand, & 18,270 gals 10# linear gel.
Stage II - Set CBP # @ 5610'. Perf Paddock/Upper Blinbry @ 5080'-5580' w/ 1 SPF, 27 holes.
12/29/2014 Pump 4221 gals 15% HCl acid. Frac Paddock/Upper Blinbry w/ 29,190 gals 16# pad, 154,140 gals 16# gel, 221,227# 16/30 sand & 4956 gals 10# linear gel. Spot 1008 gals 15% HCl acid.
Stage III - Set CBP @ 5060'. Perf Glorieta/Paddock @ 4550'-5004' w/ 1 SPF, 28 holes. Pump 6804

14. I hereby certify that the foregoing is true and correct. Electronic Submission #301666 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Carlsbad	
Name (Printed/Typed) FATIMA VASQUEZ	Title REGULATORY ANALYST II
Signature (Electronic Submission)	Date 05/13/2015

THIS SPACE FOR FEDERAL OR STATE

Pending BLM approvals will
subsequently be reviewed
and scanned

Approved By _____	Title _____	Date _____
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 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 #301666 that would not fit on the form

32. Additional remarks, continued

gals 15% HCl acid. Frac Glorieta/Paddock w/ 28,308 gals 16# pad, 157,332 gals 16# gel, 226,417#
16/30 sand & 4494 gals 10# linear gel.
01/21/2015 DO CBP @ 5060' & circ clean.
01/22/2015 Windy weather - stand by.
01/23/2015 DO CBP @ 5610' Circ hole clean to PBTD @ 6359'.
01/26/2015 RIH w/ 2-7/8" J-55 6.5# prod tbg. SN @ 6213'. ETD @ 6301'.
02/03/2015 Set 640 pumping unit. POP.

NM OIL CONSERVATION

ARTESIA DISTRICT

MAY 18 2015

Form 3160-4
(August 2007)

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.
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			8. Lease Name and Well No. LEE FEDERAL (308720) 64		
3. Address 303 VETERANS AIRPARK LN MIDLAND, TX 79705			9. API Well No. 30-015-41988		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 20 T17S R31E Mer At surface NENW 95FNL 1835FWL 32.827029 N Lat, 103.894536 W Lon At top prod interval reported below Sec 20 T17S R31E Mer At total depth NENW 322FNL 2300FWL			10. Field and Pool, or Exploratory CEDAR LAKE; GLORIETA-YESO		
14. Date Spudded 10/29/2014			15. Date T.D. Reached 11/07/2014		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 02/03/2015			17. Elevations (DF, KB, RT, GL)* 3668 GL		
18. Total Depth: MD TVD 6373		19. Plug Back T.D.: MD TVD 6359		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CN/HI-RES LL/HNGR/BHCS/CAL			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		308		700		0	
11.000	8.625 J-55	32.0		3512		3480		0	
7.875	5.500 J-55	17.0		6373		910		110	

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	6301							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA	4547	4607	4550 TO 5004	1.000	28	PRODUCING
B) PADDOCK	4607	5151	5080 TO 5580	1.000	27	PRODUCING
C) BLINEBRY	5151	6284	5630 TO 6200	1.000	28	PRODUCING
D)						

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

Depth Interval	Amount and Type of Material
4550 TO 5004	28,308 GALS 16# PAD, 157,332 GALS 16# GEL, 226,417# SAND, 6804 GALS ACID, 4494 GALS LINEAR GEL
5080 TO 5580	29,190 GALS 16# PAD, 154,140 GALS 16# GEL, 221,227# SAND, 5229 GALS ACID, 4956 GALS LINEAR GEL
5630 TO 6200	53,466 GALS 16# PAD, 41,916 GALS 16# GEL, 14,357# SAND, 6641 GALS ACID, 18,270 GALS LINEAR GEL

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
02/03/2015	03/09/2015	24	→	60.0	238.0	160.0	37.0		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	
							3967	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 *[Signature]*

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

ELECTRONIC SUBMISSION #301670 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	284	449	SANDSTONE/ANHYDRITE - N/A	RUSTLER	284
YATES	1441	1730	SANDSTONE - N/A	YATES	1441
SEVEN RIVERS	1730	2340	SS/CARBONATE - OIL, GAS & WATER	SEVEN RIVERS	1730
SAN ANDRES	3038	4547	CARBONATE - OIL, GAS & WATER	SAN ANDRES	3038
GLORIETA	4547	4607	SANDSTONE - OIL, GAS & WATER	GLORIETA	4547
PADDOCK	4607	5151	DOLOMITE - OIL, GAS & WATER	PADDOCK	4607
BLINEBRY	5151	6284	DOLOMITE - OIL, GAS & WATER	BLINEBRY	5151
TUBB	6284		SANDSTONE - OIL, GAS & WATER	TUBB	6284

32. Additional remarks (include plugging procedure):

Attachments - Frac Disclosure, OCD Forms C-102 & C-104. Logs mailed 04/27/2015.

Tansill Salt 449'-1310' Salt - N/A
 Bottom Salt 1310'-1441' Salt - N/A
 Queen 2340'-3038' SS / Carbonate - Oil, Gas & Water
 Tubb - didn't drill far enough to get bottom depth of Tubb.

**SS-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 #301670 Verified by the BLM Well Information System.
For APACHE CORPORATION, sent to the Carlsbad

Name (please print) FATIMA VASQUEZ

Title REGULATORY ANALYST II

Signature _____ (Electronic Submission)

Date 05/13/2015

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 ****