

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 3000 Midland TX 79705		² OGRID Number 873
		³ Reason for Filing Code/ Effective Date NW / 04/06/2014
⁴ API Number 30-015-41843	⁵ Pool Name Cedar Lake; Glorieta-Yeso	⁶ Pool Code 96831
⁷ Property Code 308720	⁸ Property Name Lee Federal	⁹ Well Number 088

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
N	20	17S	31E		470	South	1665	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

¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 04/06/2014	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	O
252293	Holly Energy Pipeline 311 W Quay / PO Box 1360 Artesia NM 88210	G

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ARTESIA DISTRICT
SEP 24 2014
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IV. Well Completion Data

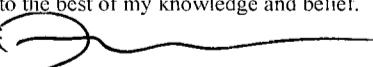
²¹ Spud Date	²² Ready Date	²³ TD	²⁴ PBTD	²⁵ Perforations	²⁶ DHC, MC
02/01/2014	04/06/2014	6400'	6390'	4800'-6299'	

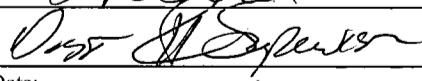
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement
17-1/2"	13-3/8"	338'	1214 sx Class C
11"	8-5/8"	3500'	1160 sx Class C
7-7/8"	5-1/2"	6400'	980 sx Class C
Tubing	2-7/8"	6365'	

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
04/06/2014	04/06/2014	09/08/2014	24		

³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas	⁴¹ Test Method
	2	636	10	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: 

OIL CONSERVATION DIVISION	
Approved by: 	Title: 
Approval Date: 10-9-14	
Pending BLM approvals will subsequently be reviewed and scanned	

Printed name: Fatima Vasquez
Title: Regulatory Analyst II
E-mail Address: Fatima.Vasquez@apachecorp.com
Date: 09/19/2014
Phone: (432) 818-1015

3160-4
3160-5

NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 24 2014

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

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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: FATIMA VASQUEZ E-Mail: fatima.vasquez@apachecorp.com		
3. Address 303 VETERANS AIRPARK LN MIDLAND, TX 79705			3a. Phone No. (include area code) Ph: 432-818-1015		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SESW 470FSL 1665FWL 32.814092 N Lat, 103.895041 W Lon At top prod interval reported below SESW 470FSL 1665FWL 32.814092 N Lat, 103.895041 W Lon At total depth SESW 470FSL 1665FWL 32.814092 N Lat, 103.895041 W Lon			9. API Well No. 30-015-41843		
14. Date Spudded 02/01/2014			15. Date T.D. Reached 02/11/2014		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 04/06/2014			17. Elevations (DF, KB, RT, GL)* 3679 GL		
18. Total Depth: MD 6400 TVD		19. Plug Back T.D.: MD 6390 TVD		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) BHPL/CN/BHCS-SGR/HI-RES LL			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 H-40	48.0		338		1214		0	
11.000	8.625 J-55	32.0		3500		1160		0	
7.875	5.500 J-55	17.0		6400		980		0	

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	6365							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA	4795		4800 TO 5360	1.000	30	PRODUCING
B) PADDOCK	4883		5447 TO 5801	1.000	18	PRODUCING
C) BLINEBRY	5284		5868 TO 6299	1.000	21	PRODUCING
D)						

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

Depth Interval	Amount and Type of Material
4800 TO 5360	206,010 GALS 20#, 268,482# SAND, 3519 GALS ACID, 4662 GALS GEL
5447 TO 5801	105,966 GALS 20#, 147,233# SAND, 5832 GALS ACID, 4032 GALS GEL
5868 TO 6299	140,574 GALS 20#, 173,090# SAND, 5035 GALS ACID, 3612 GALS 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
04/06/2014	09/08/2014	24	→	2.4	9.6	636.0	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	
			→				4000	POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API
			→				
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio
			→				

Pending BLM approvals will subsequently be reviewed and scanned

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

ELECTRONIC SUBMISSION #264705 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	327	409	SANDSTONE / ANHYDRITE	RUSTLER	327
YATES	1492	1853	SANDSTONE	YATES	1492
SEVEN RIVERS	1853	2465	DOLOMITE / ANHYDRITE - GAS	SEVEN RIVERS	1853
GRAYBURG	2842	3233	SS* / DOLOMITE - GAS & WATER	GRAYBURG	2842
GLORIETA	4795	4883	SANDSTONE - OIL, GAS & WATER	GLORIETA	4795
PADDOCK	4883	5284	DOLOMITE - OIL, GAS & WATER	PADDOCK	4883
BLINEBRY	5284	6303	DOLOMITE - OIL, GAS & WATER	BLINEBRY	5284
TUBB	6303		SANDSTONE - OIL, GAS & WATER	TUBB	6303

32. Additional remarks (include plugging procedure):

Attachments - Frac Disclosure, OCD Forms C-102 & C-104. Logs mailed 04/08/2014.

- Ogallala - Water formation above Rustler - not logged.
- Tansill Salt - Sandstone / Anhydrite - 409'-1305'.
- Bottom Salt - Sandstone / Anhydrite - 1305'-1492'.
- Queen - Sandstone / Dolomite - Gas - 2465'-2842'.
- San Andres - Carbonate - Oil, Gas & Water - 3233'-4795'.
- Tubb - didn't drill far enough to get bottom depth of Tubb.

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 #264705 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 09/19/2014

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.

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.

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 (308720) 88

9. API Well No.
30-015-41843

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

11. County or Parish, and State
EDDY COUNTY, NM

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
APACHE CORPORATION
Contact: FATIMA VASQUEZ
E-Mail: fatima.vasquez@apachecorp.com

3a. Address
303 VETERANS AIRPARK LN
MIDLAND, TX 79705

3b. Phone No. (include area code)
Ph: 432-818-1015

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 20 T17S R31E SESW 470FSL 1665FWL
32.814092 N Lat, 103.895041 W Lon

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:

02/19/2014 MIRUSU. Log TOC @ surface (CBL). Perf Lower Blinetry @ 5868', 90', 5913', 43', 67', 92', 6009', 30', 48', 70', 98', 6117', 28', 53', 65', 80', 6210', 40', 64', 80' & 99', w/ 1 SPF, 21 holes.

02/20/2014 Spot 428 gals acid. Acidize w/ 3011 gals 15% HCl NEFE acid.

02/25/2014 Stage 1 - Frac w/ 140,574 gals 20# & 173,090# 16/30 sand. Flush w/ 3612 gals 10# linear gel. Spot 1596 gals 15% HCl acid.

Stage 2 - Set CBP @ 5850'. Perf Upper Blinetry @ 5447', 74', 5505', 30', 56', 68', 87', 99', 5625', 45', 60', 74', 98', 5720', 39', 62', 79' & 5801', w/ 1 SPF, 18 holes. Acidize w/ 4632 gals 15% HCl. Frac w/ 105,966 gals 20# & 147,233# 16/30 sand. Flush w/ 4032 gals 10# linear gel & spot 1200 gals 15% HCl acid.

NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 24 2014
RECEIVED

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #264710 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 09/19/2014

THIS SPACE FOR FEDERAL OR STATE OFFICIAL SIGNATURE

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 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.

Additional data for EC transaction #264710 that would not fit on the form

32. Additional remarks, continued

Stage 3 - Set CBP @ 5430'. Perf Glorieta/Paddock @ 4800', 10', 40', 65', 78', 4902', 15', 40', 56' & 70' w/ 1 SPF, 10 holes. Started out hole hung up @ 4819', pulled 350# over string weight. Parted wireline left 450' of wireline, CCL, 10 perf guns & setting tool in hole.

02/27/2014 Fishing - Tag TOF @ 5403'. POH w/ fishing tools, tbg, CCL, perf guns & setting tools. SI.

02/28/2014 Perf rest of Glorieta/Paddock @ 4987', 5001', 24', 44', 56', 84', 5110', 41', 60', 78', 94', 5209', 24', 45', 60', 79', 97', 5310', 40' & 60' w/ 1 SPF, 20 holes. Spot 546 gals acid across perfs. Acidize w/ 2973 gals 15% HCl NEFE acid.

03/12/2014 Stage 3 - Frac w/ 206,010 gals 20# & 268,482# 16/30 sand. Flush w/ 4662 gals 10# linear gel.

03/13/2014 ND frac spool. NU prod spool & BOP.

03/14/2014 DO CBP's @ 5430' & 5850'. RIH w/ bit to PBTD @ 6390'.

03/17/2014 RIH w/ 2-7/8" J-55 6.5# prod tbg. SN @ 6276' & ETD @ 6365'.

03/18/2014 RIH w/ pump & rods. Clean loc & RDMOSU.

04/04/2014 Set new 640 pumping unit. POP.