

NM OIL CONSERVATION

ARTESTA DISTRICT

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

MAR 12 2015

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
RECEIVED

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 / 11/20/2014
⁴ API Number 30-015-42402	⁵ Pool Name Cedar Lake; Glorieta-Yeso	⁶ Pool Code 96831
⁷ Property Code 308720	⁸ Property Name Lee Federal	⁹ Well Number 080

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	South	1080	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

¹² Lsc Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 11/20/2014	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	G
252293	Holly Energy Pipeline 311 W Quay / PO Box 1360 Artesia NM 88210	O

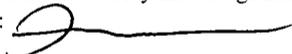
IV. Well Completion Data

²¹ Spud Date	²² Ready Date	²³ TD	²⁴ PBTD	²⁵ Perforations	²⁶ DHC, MC
09/17/2014	11/20/2014	6406'	6375'	4690'-6320'	
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2"	13-3/8"	334'	410 sx Class C		
11"	8-5/8"	3400'	1120 sx Class C		
7-7/8"	5-1/2"	6406'	930 sx Class C		
Tubing	2-7/8"	6326'			

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	11/20/2014	02/11/2014 _g	24		
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas	⁴¹ Test Method	
	74	241	101	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:
02/24/2015

Phone:
(432) 818-1015

OIL CONSERVATION DIVISION	
Approved by:	
Title:	Dist II Supervisor
Approval Date:	3-19-15

Pending BLM approvals will subsequently be reviewed and scanned

MAR 12 2015

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 80

9. API Well No.
30-015-42402

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 NWSW 1550FSL 1080FWL
32.817058 N Lat, 103.896966 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:

10/09/2014 MIRUSU. Log TOC @ 215'.
Stage I - Perf Blinbry/Tubb @ 5922', 40', 52', 64', 80', 98', 6016', 36', 57', 80', 6100', 12', 30', 53', 81', 99', 6215', 34', 59', 90', & 6320' w/ 1 SPF, 21 holes.
10/10/2014 Spot 411 gals acid. Acidize w/ 3675 gals 15% HCl NEFE acid.
10/26/2014 Frac Blinbry/Tubb w/ 142,296 gals 20# & 176,291# 16/30 sand. Flush w/ 4578 gals 10# linear gel. Spot 1050 gals 15% HCl acid.
Set CBP @ 5900'.
Stage II - Perf Blinbry @ 5295', 5335', 56', 97', 5420', 49', 76', 93', 5516', 30', 46', 74', 5600', 21', 36', 56', 72', 5706', 26', 45', 60', 80', 5805', 20', 40', & 63' w/ 1 SPF, 26 holes.
Acidize w/ 3502 gals 15% HCl acid. Frac w/ 179,550 gals 20# & 218,221# 16/30 sand. Flush w/ 4116

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

Electronic Submission #294342 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 03/09/2015

THIS SPACE FOR FEDERAL OR STATE OFFICIAL 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 *AD*

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 #294342 that would not fit on the form

32. Additional remarks, continued

gals 10# linear gel. Spot 1000 gals 15% HCl acid.

Set CBP @ 5280'.

Stage III - Per Glorieta/Paddock @ 4690', 4700', 20', 44', 58', 80', 95', 4812', 30', 56', 72', 90', 4919', 52', 73', 98', 5024', 56', 76', 91', 5103', 30', 48', 69', 86', 5208', & 32' w/ 1 SPF, 27 holes. Acidize w/ 3486 gals 15% HCl acid.

10/27/2014 Frac Glorieta/Paddock w/ 180,978 gals 20# & 221,545# 16/30 sand. Flush w/ 4326 gals 10# linear gel.

10/30/2014 NU prod spool & hydraulic BOP.

10/31/2014 RIH w/ bit & tbg. DO CBP's @ 5280' & 5900'.

11/03/2014 Wash sand to PBTD @ 6375'. Circ hole clean.

11/04/2014 RIH w/ 2-7/8" J-55 6.5# prod tbg. TAC @ 4581'. SN @ 6236'. ETD @ 6326'. RIH w/ pump & rods. Clean loc & RDMOSU.

11/20/2014 Set 640 pumping unit. POP.

NM OIL CONSERVATION
ARTESTA DISTRICT

MAR 12 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

RECEIVED

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.			7. Unit or CA Agreement Name and No.		
2. Name of Operator APACHE CORPORATION Contact: FATIMA VASQUEZ E-Mail: fatima.vasquez@apachecorp.com			8. Lease Name and Well No. LEE FEDERAL 80		
3. Address 303 VETERANS AIRPARK LN MIDLAND, TX 79705		3a. Phone No. (include area code) Ph: 432-818-1015	9. API Well No. 30-015-42402		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NWSW 1550FSL 1080FWL 32.817058 N Lat, 103.896966 W Lon At top prod interval reported below NWSW 1550FSL 1080FWL 32.817058 N Lat, 103.896966 W Lon At total depth NWSW 1550FSL 1080FWL 32.817058 N Lat, 103.896966 W Lon			10. Field and Pool, or Exploratory CEDAR LAKE; GLORIETA-YESO		
			11. Sec., T., R., M., or Block and Survey or Area Sec 20 T17S R31E Mer		
			12. County or Parish EDDY	13. State NM	
14. Date Spudded 09/17/2014	15. Date T.D. Reached 10/01/2014		16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 11/20/2014		17. Elevations (DF, KB, RT, GL)* 3636 GL
18. Total Depth: MD TVD 6406	19. Plug Back T.D.: MD TVD 6375		20. Depth Bridge Plug Set: MD TVD		
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) SGR/CAL/HI-RES LL/BHCS/CN			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		334		410		0	
11.000	8.625 J-55	32.0		3400		1120		0	
7.875	5.500 J-55	17.0		6406		930		215	

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	6326							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA	4687	4755	4690 TO 5232	1.000	27	PRODUCING
B) PADDOCK	4755	5299	5295 TO 5863	1.000	26	PRODUCING
C) BLINEBRY	5299	6309	5922 TO 6320	1.000	21	PRODUCING
D) TUBB	6309					

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

Depth Interval	Amount and Type of Material
4690 TO 5232	180,978 GALS 20#, 221,545# SAND, 3486 GALS ACID, 4326 GALS GEL
5295 TO 5863	179,550 GALS 20#, 218,221# SAND, 4502 GALS ACID, 4116 GALS GEL
5922 TO 6320	142,296 GALS 20#, 176,291# SAND, 5136 GALS ACID, 4578 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
11/20/2014	02/11/2015	24	→	74.0	101.0	241.0	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	
			→				1365	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 Status
			→						
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 *AD*

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

ELECTRONIC SUBMISSION #294339 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	297	459	SS/ANHYDRITE - N/A	RUSTLER	297
YATES	1437	1770	SANDSTONE - N/A	YATES	1437
SEVEN RIVERS	1770	2400	SS/CARBONATE - OIL, GAS & WATER	SEVEN RIVERS	1770
SAN ANDRES	3158	4687	CARBONATE - OIL, GAS & WATER	SAN ANDRES	3158
GLORIETA	4687	4755	SANDSTONE - OIL, GAS & WATER	GLORIETA	4687
PADDOCK	4755	5299	DOLOMITE - OIL, GAS & WATER	PADDOCK	4755
BLINEBRY	5299	6309	DOLOMITE - OIL, GAS & WATER	BLINEBRY	5299
TUBB	6309		SANDSTONE - OIL, GAS & WATER	TUBB	6309

32. Additional remarks (include plugging procedure):

Attachments - Frac Disclosure, OCD Forms C-102 & C-104. Logs mailed 02/19/2015.

Tansill salt - Salt - N/A - 459'-1355'
Bottom salt - Salt - N/A - 1355'-1437'
Queen - Sandstone/Carbonate - Oil, Gas & Water - 2400'-3158'.
Tubb - didn't drill far enough to get bottom depth of Blinebry.

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 #294339 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 03/09/2015

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 ****

Additional data for transaction #294339 that would not fit on the form

32. Additional remarks, continued

*SS - Sandstone