

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 **MINERAL OIL CONSERVATION**
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NOV 26 2014
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 MIDLAND TEXAS 79705		² OGRID Number 873 6-23-14
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30 - 015-42189	⁵ Pool Name CEDAR LAKE; GLORIETA-YESO	⁶ Pool Code 96831
⁷ Property Code 38720	⁸ Property Name LEE FEDERAL	⁹ Well Number 78

II. ¹⁰ Surface Location

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
J	20	17S	31E		2125	S	2345	E	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 Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 6/23/14	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
15694	NAVAJO REFINING CO., P.L. DIVISION P O BOX 159 ARTESIA NM 88211	O
221115	FRONTER FIELD SERVICES LLC 4200 EAST SKELLY DR., STE. 700 TULSA OK 74135	G

IV. Well Completion Data

²¹ Spud Date 5/8/14	²² Ready Date 6/23/14	²³ TD 6400	²⁴ PBTD 6375	²⁵ Perforations 4178 - 6208	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2	13 3/8	302	380		
11	8 5/8	3500	1200		
7 7/8	5 1/2	6400	1020		
	2 7/8	6313			

V. Well Test Data

³¹ Date New Oil 6/23/14	³² Gas Delivery Date 6/23/14	³³ Test Date 7/31/14	³⁴ Test Length 24	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 91	³⁹ Water 274	⁴⁰ Gas 165		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: *Sandra J. Belt*

Printed name:
SANDRA J. BELT

Title:
SR. REGULATORY ANALYST

E-mail Address:
Sandra.belt@apachecorp.com

Date:
11/20/14

Phone:
432-818-1962

OIL CONSERVATION DIVISION	
Approved by: <i>[Signature]</i>	Title: <i>Oil Conservation Analyst</i>
Approval Date: <i>12/18/14</i>	
Pending BLM approvals will subsequently be reviewed and scanned	

NOV 26 2014

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 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.

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 78
2. Name of Operator APACHE CORPORATION Contact: SANDRA J BELT E-Mail: sandra.belt@apachecorp.com		9. API Well No. 30-015-42189
3a. Address 303 VETERANS AIRPARK LANE MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 432-818-1962 Fx: 432-818-1193	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 2125FSL 2345FEL 32.818646 N Lat, 103.890982 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 Production Start-up	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<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 Corporation wishes to report the completion of this well as follows:

5/27/14: Perforate the Lower Blinebry zone @ 5900, 10, 28, 50, 83, 94, 6017, 44, 68, 80, 98, 6121, 48, 62, 70, 90 & 6208?. 5/28/14: Acidize lower Blinebry from 5900'-6208' W/ 3397 GALS 15% HCL NEFE acid. 6/9/14: STAGE 1: RU Baker Hughes frac lower Blinebry zone @ 5900, 10, 28, 50, 83, 94, 6017, 44, 68, 80, 98, 6121, 48, 62, 70, 90 & 6208?. Pump 95,035# 16/30 Brown, 31,094# 16/30 SIBER PROP. Spot 1000 GAL 15% HCL. Stage 2: RU WL. PU RIH W/ 5 1/2 CBP & 3 1/8 Tag Guns. Set CBP @ 5,875'. Perforate the Upper Blinebry @ 5250, 80, 5306, 25, 50, 70, 96, 5417, 30, 38, 55, 74, 98, 5516, 36, 56, 73, 94, 5612, 26, 54, 80, 5718, 36, 60, 70, 90, 5810, 30 & 49?.. Pump 3,570 Gal, 15% HCL. 6/10/14: RU Baker Hughes, Frac Upper Blinebry @ 5250, 80, 5306, 25, 50, 70, 96, 5417, 30, 38, 55, 74, 98, 5516, 36, 56, 73, 94, 5612, 26, 54, 80, 5718, 36, 60, 70, 90, 5810, 30 & 49?. PUMP 207,594# 16/30 Brown, 43,974# 16/30 SIBER PROP. Spot 1008 GAL 15% HCL. RU WL. PU RIH W/ 5 1/2

APD 12/18/14
Accepted for record
NMOCD

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

**Electronic Submission #280958 verified by the BLM Well Information System
For APACHE CORPORATION, sent to the Carlsbad**

Name (Printed/Typed) SANDRA J BELT	Title SR. REGULATORY ANALYST
Signature (Electronic Submission)	Date 11/20/2014

COPY

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ 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.

**pending BLM approvals will
subsequently be reviewed**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person to make any false, fictitious or fraudulent statements or representations as to any matter within the jurisdiction of the United States.

and scanned

Department of the United States

Additional data for EC transaction #280958 that would not fit on the form

32. Additional remarks, continued

CBP & 3 1/8 Tag Guns. Set CBP @ 5,230' perforate the Paddock/Glorieta @ 4718, 28, 34, 66, 76, 96, 4812, 29, 47, 70, 99, 4917, 49, 70, 5004, 28, 44, 53, 72, 91, 5104, 18, 36, 56 & 88?. Break down perfs @ 1,433#, Pump 3,738 Gals 15% HCL. RU Baker Hughes, frac the Paddock/Glorieta @ 4718, 28, 34, 66, 76, 96, 4812, 29, 47, 70, 99, 4917, 49, 70, 5004, 28, 44, 53, 72, 91, 5104, 18, 36, 56 & 88?. Pump 191,191# 16/30 Brown, 40,915# 16/30 Siber Prop.

6/11/14: Prep To DO CBPs & Circ Hole Clean To PBTD.

6/12/14: Tag sand @ 5091'. RU swivel. Break circ & wash sand. RIH w/bit & tag up on CBP @ 5230'. DO CBP. RIH w/bit & tag up on sand @ 5807'. Break circ & wash sand. Tag CBP @ 5875'. DO CBP. RIH. Tag sand @ 6242'. Break circ & wash sand to PBTD @ 6380'. Circ clean. Prep to RIH w/ prod equip.

6/13/14: RIH W/ 2-7/8" J-55 TBG. ETD @ 6312.87',RKB. SN @ 6222.85' RKB. TAC Set @ 4626.28'. Prep TO RIH W/ Pump & Rods.

6/16/14: Load Tbg & Psi Test to 500#. Clean location & RDMOSU. Build wellhead & lay flowline. SD. SI Well. SDFN. Prep to set pumping unit @ later date.

6/23/14: Set New Ampscot 640-365-168 Pumping Unit. Install electric & start production to battery.

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NM OIL CONSERVATION

ARTESIA DISTRICT

NOV 26 2014

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND RECEIVED

5. Lease Serial No.
NMLC029395B

1a. Type of Well Oil Well Gas Well Dry Other
 b. Type of Completion New Well Work Over Deepen Plug Back Diff. Reserv.
 Other _____

6. If Indian, Allottee or Tribe Name _____
 7. Unit or CA Agreement Name and No. _____

2. Name of Operator APACHE CORPORATION Contact: SANDRA J BELT
 E-Mail: sandra.belt@apachecorp.com

8. Lease Name and Well No.
LEE FEDERAL 78

3. Address 303 VETERANS AIRPARK LANE MIDLAND, TX 79705
 3a. Phone No. (include area code) Ph: 432-818-1962

9. API Well No. 30-015-42189

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface 2125FSL 2345FEL 32.818646 N Lat, 103.890982 W Lon
 At top prod interval reported below 2125FSL 2345FEL 32.818646 N Lat, 103.890982 W Lon
 At total depth 2125FSL 2345FEL 32.818646 N Lat, 103.890982 W Lon

10. Field and Pool, or Exploratory
CEDAR LAKE; GLORIETA-YESP
 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 05/08/2014
 15. Date T.D. Reached 05/20/2014
 16. Date Completed D & A Ready to Prod. 06/23/2014

17. Elevations (DF, KB, RT, GL)*
3682 GL

18. Total Depth: MD 6400 TVD
 19. Plug Back T.D.: MD 6380 TVD
 20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
PHCS-SGR/HI-RESLL/CN/OAL/HNGR/SBGR/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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H40	48.0		302		380	90	0	
11.000	8.625 J55	32.0		3500		1200	107	0	
7.875	5.500 J55	17.0		6400		1020	299	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	6313							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA	4718	4777	4718 TO 4777	0.400	5	PRODUCING
B) PADDOCK	4777	5304	4797 TO 5296	0.400	20	PRODUCING
C) BLINEBRY	5304	6238	5417 TO 6208	0.400	47	PRODUCING
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
4718 TO 6208	4746 GALS 15% HCL ACID; 483,674 LBS. TOTAL PROPPANT

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
06/23/2014	07/31/2014	24	→	91.0	165.0	274.0	39.0		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	
			→	91	165	274	1813	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

Method COPY

(See Instructions and spaces for additional data on reverse side)
 ELECTRONIC SUBMISSION #280955 VERIFIED BY THE BLM
 ** OPERATOR-SUBMITTED ** OPE

UNLIMITED ** 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.) CAPTURED

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
GLORIETA	4718	4777	SANDSTONE O/G&W	GLORIETA	4718
PADDOCK	4777	5304	DOLOMITE O/G&W	PADDOCK	4777
BLINEBRY	5304	6238	DOLOMITE O/G&W	BLINEBRY	5304
TUBB	6238		SANDSTONE O/G&W	TUBB	6238

32. Additional remarks (include plugging procedure):
 attachments: Frac Disclosure, C-102, C-104, logs mailed to the BLM 9/29/14 and to the OCD 5/24/14.

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 #280955 Verified by the BLM Well Information System.
 For APACHE CORPORATION, sent to the Carlsbad**

Name (please print) SANDRA J BELT Title SR. REGULATORY ANALYST

Signature _____ (Electronic Submission) Date 11/20/2014



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.