

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 NW/09/16/2014	
⁴ API Number 30-015-42051	⁵ Pool Name RED LAKE; GLORIETA-YESO, NORTHEAST		⁶ Pool Code 96836
⁷ Property Code 308703	⁸ Property Name AAO FEDERAL		⁹ Well Number 019

II. ¹⁰ Surface Location

UL or lot no. F	Section 1	Township 18S	Range 27E	Lot Idn	Feet from the 2310	North/South Line North	Feet from the 2310	East/West line West	County Eddy
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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 09/16/2014	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
252293	Holly Energy Pipeline 311 W Quay / PO Box 1360 Artesia NM 88210	O
221115	Frontier Field Services LLC 4200 East Skelly Drive Suite 700 Tulsa OK 74135	G
NM OIL CONSERVATION ARTESIA DISTRICT OCT 16 2014 RECEIVED		

IV. Well Completion Data

²¹ Spud Date 04/02/2014	²² Ready Date 09/16/2014	²³ TD 4600'	²⁴ PBTD 4555'	²⁵ Perforations 3388'-4354'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5"	13.375"	370'	880 sx Class C		
7.875"	5.5"	4600'	890 sx Class C		
Tubing	2-7/8"	4423'			

V. Well Test Data

³¹ Date New Oil 09/16/2014	³² Gas Delivery Date 09/16/2014	³³ Test Date 10/04/2014	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 75	³⁹ Water 456	⁴⁰ Gas 70		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: <i>Paige Futrell</i>		OIL CONSERVATION DIVISION	
Printed name: Paige Futrell		Approved by: <i>T.C. Shepard</i> "Geologist"	
Title: Regulatory Analyst I		Approval Date: <i>10-22-2014</i>	
E-mail Address: Paige.Futrell@apachecorp.com		Pending BLM approvals will subsequently be reviewed and scanned <i>TCS.</i>	
Date: 10/14/2014	Phone: 432-818-1893		

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.***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. AAO FEDERAL 19
2. Name of Operator APACHE CORPORATION		9. API Well No. 30-015-42051
Contact: PAIGE FUTRELL E-Mail: paige.futrell@apachecorp.com		
3a. Address 303 VETERANS AIRPARK LN MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 432-818-1893	10. Field and Pool, or Exploratory REDLAKE;GLORIETA-YESO,NE
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 1 T18S R27E SENW 2310FNL 2310FWL 32.776954 N Lat, 104.233148 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 checked="" 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 checked="" 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	
	<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 completed the well as followed: (RR: 04/09/2014)

04/14/2014: MIRSU. Circ hole clean to PBTD @4555. Run logs, TOC @48 FS (CBL).
Perf Glorieta/Yeso @3388, 3408, 32, 54, 81, 3507, 28, 48, 69, 96, 3626, 50, 78,
98, 3734, 53, 78, 3804, 24, 43, 3973, 4034, 75, 4100, 44, 92, 4216, 94, 4314, 34, 54
@ 1 SPF 31 holes.

04/15/2014: Acidize Glorieta/Yeso, w/ 3780 gals 15% HCl Nefe
Acid, 110 gal SCW-358 inhib & 55 gal CRW-172 corrosion inhib.

04/22/2014: Frac Glorieta/Yeso: w/ 263,466 gals 20#, 332,457# 16/30 sand, and
3276 gals 10# linear gel. Pump pad, brown sand stages, siberprop
sand stage & flush.

04/25/2014: CO sand to PBTD @4555.

NM OIL CONSERVATION
ARTESIA DISTRICT
OCT 16 2014
RECEIVED

14. I hereby certify that the foregoing is true and correct. Electronic Submission #270774 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Carlsbad	
Name (Printed/Typed) PAIGE FUTRELL	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 10/14/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE

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
ICS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and w. 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 #270774 that would not fit on the form

32. Additional remarks, continued

04/28/2014: RIH w/ 2-7/8" J-55, 6.5# prod tbg, SN @4399, ETD @4423.
Clean location, RDMOSU. Build wellhead & lay flowline. Set 640 PU.
Install elec. SI. wait on AAO FED batt to produce well.
09/16/2014: Start production to AAO FED South Batt. POP.

NM OIL CONSERVATION ARTESIA DISTRICT

OCT 16 2014

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM0557371

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other 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 _____			6. If Indian, Allottee or Tribe Name 7. Unit or CA Agreement Name and No.		
2. Name of Operator APACHE CORPORATION Contact: PAIGE FUTRELL E-Mail: paige.futrell@apachecorp.com			8. Lease Name and Well No. AAO FEDERAL 19		
3. Address 303 VETERANS AIRPARK LN MIDLAND, TX 79705			3a. Phone No. (include area code) Ph: 432-818-1893		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SENW 2310FNL 2310FWL 32.776954 N Lat, 104.233148 W Lon At top prod interval reported below SENW 2310FNL 2310FWL 32.776954 N Lat, 104.233148 W Lon At total depth SENW 2310FNL 2310FWL 32.776954 N Lat, 104.233148 W Lon			9. API Well No. 30-015-42051		
14. Date Spudded 04/02/2014			15. Date T.D. Reached 04/07/2014		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 09/16/2014			17. Elevations (DF, KB, RT, GL)* 3609 GL		
18. Total Depth: MD 4600 TVD		19. Plug Back T.D.: MD 4555 TVD		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) BHCS/HI-RES LL/CN/CAL/HNGR			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	370			880		0	
7.875	5.500 J-55	17.0	4600			890		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	4423							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA-YESO	3388	4354	3388 TO 4354	1.000	31	PRODUCING
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
3368 TO 4360	3591 ACID, 262,248# SAND, 3360 GAL 10# GEL, 288,876 GAL 20#

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
09/16/2014	10/04/2014	24	→	75.0	70.0	456.0	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	
			→				933	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
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well	
			→						

Pending BLM approvals will subsequently be reviewed and scanned

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

ELECTRONIC SUBMISSION #270769 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
YATES	247	495	SHALE, SS*, ANHYDRITE/WATER	YATES	247
SEVEN RIVERS	495	1064	SHALE, SS*, ANHYDRITE, DOL*/O, G, W	SEVEN RIVERS	495
GRAYBURG	1530	1876	DOL*, SS*, SANDSTONE/O, G, W*	GRAYBURG	1530
SAN ANDRES	1876	3364	DOLOMITE, CHERT/O, G, W*	SAN ANDRES	1876
GLORIETA	3364	3393	DOLOMITE, SANDSTONE/O, G, W*	GLORIETA	3364
YESO	3393	3466	DOLOMITE/ O, G, W	YESO	3393
PADDOCK	3466	3918	DOLOMITE/ O, G, W	PADDOCK	3466
BLINEBRY	3918	4425	DOL*, SS*, SANDSTONE/O, G, W*	BLINEBRY	3918

32. Additional remarks (include plugging procedure):
Formation tops continued:

Water table-water formation above Yates-Not logged.
Queen: 1064'-1530' Siltstone, sandstone, anhydrite/Water.
Tubb: 4425'- did not drill deep enough. Sanstone.
There is not a base salt.

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 #270769 Verified by the BLM Well Information System.
For APACHE CORPORATION, sent to the Carlsbad

Name (please print) PAIGE FUTRELL

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 10/14/2014

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.

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

Additional data for transaction #270769 that would not fit on the form

32. Additional remarks, continued

SS*: Siltstone
Dol*: Dolomite
O,G,W*: Oil, Gas, Water

Attachments- Frac Disclosure, OCD Forms C-102 & C-104, Logs mailed 09/18/2014.