

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-09/19/2014
⁴ API Number 30-015-42334	⁵ Pool Name RED LAKE; GLORIETA; YESO, NORTHEAST	⁶ Pool Code 96836
⁷ Property Code 308703	⁸ Property Name AAO FEDERAL	⁹ Well Number 021

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	1	18S	27E	3	1005	North	1630	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 Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 09/19/2014	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

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ARTESIA DISTRICT

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IV. Well Completion Data

²¹ Spud Date	²² Ready Date	²³ TD	²⁴ PBDT	²⁵ Perforations	²⁶ DHC, MC
05/27/2014	09/19/2014	4625'	4570'	3268'-4296'	
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
7-7/8"	5-1/2"	4625'	1120 sx Class C		
17-1/2"	13-3/8"	304'	530 sx Class C		
Tubing	2-7/8"	4390'			

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
09/19/2014	09/19/2014	10/06/2014	24 hrs		
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas	⁴¹ Test Method	
	21"	140	96	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: *Paige Futrell*
Printed name: Paige Futrell
Title: Regulatory Analyst I
E-mail Address: Paige.Futrell@apachecorp.com
Date: 10/13/2014 Phone: 432-818-1893

OIL CONSERVATION DIVISION
Approved by: *T.C. Shepard*
Title: "Geologist"
Approval Date: 10-22-2014
Pending BLM approvals will subsequently be reviewed and scanned
TCS.

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.
NMNM0557371

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.
AAO FEDERAL 21

9. API Well No.
30-015-42334

10. Field and Pool, or Exploratory
REDLAKE; GLORIETA-YESO, NE

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: 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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 1 T18S R27E NENW 1005FNL 1630FWL
32.780565 N Lat, 104.235432 W Lon

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 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 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: 06/02/2014)

- 06/05/2014: MIRUSU. DO cmt.
- 06/06/2014: DO cmt to 2308.
- 06/09/2014: DO cmt to 2698. Circ hole clean.
- 06/10/2014: DO cmt to 3153. Circ hole clean.
- 06/11/2014: DO cmt to 3543. Circ hole clean.
- 06/12/2014: DO cmt to 3965. Circ hole clean.
- 06/13/2014: DO cmt to 4290. Circ hole clean.
- 06/16/2014: DO cmt to 4570. Circ hole clean.
- 06/17/2014: Run log. TOC @ surface (CBL). Perf Glorieta/Yeso @3268,88,3319,38, 60,82,3400,20,55,77,95,3520,45,90,3608,30,67,3710,32,70,89,3818,50,

NM OIL CONSERVATION
ARTESIA DISTRICT
OCT 16 2014
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14. I hereby certify that the foregoing is true and correct.
Electronic Submission #270510 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 10/13/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE 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 *TBS*

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 #270510 that would not fit on the form

32. Additional remarks, continued

70,95,3921,59,98,4040,60,84,4130,50,70,90,4210,40,70,& 96, @ 1 SPF
39 holes.

06/18/2014: Acidize Glorieta/Yeso w/ 3500 gals 15% HCl NEFE Acid.SI.

Frac well on 07/08/2014.

08/05/2014: Glorieta/Yeso frac from 3268-4296, pump 300,258# of brown sand.

Pump pad, brown sand stages, Siberprop san stage & flush.

08/12/2014: CO to PBD @4570'.

08/13/2014: RIH w/ 2-7/8" J-55,6.5# prod tbg, SN @4366,ETD @4390.

Clean location. RDMOSU. Set 640 PU. SI. Wait on approval to build
batt to produce well.

09/19/2014: Start prod to AAO FED South batt. POP.

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.
NMNM0557371

1a. Type of Well Oil Well Gas Well Dry Other
 b. Type of Completion New Well Work Over Deepen Plug Back 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 21

3. Address 303 VETERANS AIRPARK LN
MIDLAND, TX 79705

3a. Phone No. (include area code)
Ph: 432-818-1893

9. API Well No.
30-015-42334

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface NENW Lot 3 1005FNL 1630FWL 32.780565 N Lat, 104.235432 W Lon
 At top prod interval reported below NENW Lot 3 1005FNL 1630FWL 32.780565 N Lat, 104.235432 W Lon
 At total depth NENW Lot 3 1005FNL 1630FWL 32.780565 N Lat, 104.235432 W Lon

10. Field and Pool, or Exploratory
REDLAKE;GLORIETA-YESO,NE

11. Sec., T., R., M., or Block and Survey
or Area Sec 1 T18S R27E Mer

12. County or Parish
EDDY

13. State
NM

14. Date Spudded
05/27/2014

15. Date T.D. Reached
05/31/2014

16. Date Completed
 D & A Ready to Prod.
09/19/2014

17. Elevations (DF, KB, RT, GL)*
3603 GL

18. Total Depth: MD 4625
TVD

19. Plug Back T.D.: MD 4570
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/SGR

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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H-40	48.0	378			530		0	
7.875	5.500 J-55	17.0	4625			1120		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	4390							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA-YESO	3268	4296	3268 TO 4296	1.000	39	PRODUCING
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
3268 TO 4296	3500 ACID, 300,258# SAND, 3150 GAL 10# GEL, 201,348 GAL 20#

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ARTESIA DISTRICT
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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
09/19/2014	10/06/2014	24	▶	21.0	96.0	140.0	37.0		ELECTRIC PUMPING UNIT
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		▶				4571	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 Gra
			▶					
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well
	SI		▶					

Pending BLM approvals will subsequently be reviewed and scanned *TC5*

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	232	475	SHALE,SS*,ANHYDRITE/WATER	YATES	232
SEVEN RIVERS	475	1028	SHALE,SS*,ANHYDRITE,DOL*/O,G,W	SEVEN RIVERS	475
GRAYBURG	1481	1825	DOL*,SS*,SANDSTONE/O,G,W*	GRAYBURG	1481
SAN ANDRES	1825	3257	DOLOMITE,CHERT/O,G,W*	SAN ANDRES	1825
GLORIETA	3257	3382	DOLOMITE, SANDSTONE/O,G,W*	GLORIETA	3257
PADDOCK	3382	3806	DOLOMITE/O,G,W*	PADDOCK	3382
BLINEBRY	3806		DOL*,SS*,SANDSTONE/O,G,W*	BLINEBRY	3806

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

Water table-water formation above Yates-Not logged.
Queen: 1028'-1481' Siltstone, sandstone, anhydrite/Water.
There is not a base salt.

SS*: Siltstone

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 #270501 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 10/13/2014

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.

Additional data for transaction #270501 that would not fit on the form

32. Additional remarks, continued

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

Attachments- Frac Disclosure, OCD Forms C-102 & C-104. Logs mailed 09/17/2014.