

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 06/17/2014
⁴ API Number 30-001541909	⁵ Pool Name FREN:GLORIETA-YESO	⁶ Pool Code 26770
⁷ Property Code 308711	⁸ Property Name CROW FEDERAL	⁹ Well Number 19H

II. ¹⁰Surface Location

Ul or lot no. I	Section 10	Township 17S	Range 31E	Lot Idn	Feet from the 2280	North/South Line FSL	Feet from the 370	East/West line FEL	County EDDY
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¹¹ Bottom Hole Location

UL or lot no. L	Section 10	Township 17S	Range 31E	Lot Idn	Feet from the 2274	North/South line FSL	Feet from the 347	East/West line FWL	County EDDY
¹² Lse Code J	¹³ Producing Method Code P	¹⁴ Gas Connection Date 06/17/2014	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 JAN 16 2015 RECEIVED		

IV. Well Completion Data

²¹ Spud Date 02/13/2014	²² Ready Date 06/17/2014	²³ TD 9813	²⁴ PBDT	²⁵ Perforations 5772-9630	²⁶ DHC, MC
²⁷ Hole Size 17-1/2	²⁸ Casing & Tubing Size 13-3/8	²⁹ Depth Set 675	³⁰ Sacks Cement 730 sx Class C		
11	8-5/8	3500	1270 sx Class C		
7-5/8	5-1/2	9813	1530 sx class C		
Tubing	2-7/8	4553			

V. Well Test Data

³¹ Date New Oil 07/02/14	³² Gas Delivery Date 06/17/2014	³³ Test Date 07/29/2014	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 478	³⁹ Water 2070	⁴⁰ Gas 343		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:

Printed name:
EMILY FOLLIS/SB

Title:
Regulatory Analyst I

E-mail Address:
EMILY.FOLLIS@apachecorp.com

Date:
12/19/2014

Phone:
432-818-1801

OIL CONSERVATION DIVISION	
Approved by:	<i>[Signature]</i>
Title:	<i>Dr. A. Sepulveda</i>
Approval Date:	<i>1-26-15</i>

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

3160-5

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.5. Lease Serial No.
NMLC029426B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
CROW FEDERAL 19H9. API Well No.
30-015-4190910. Field and Pool, or Exploratory
FREN;GLORIETA-YESO

11. County or Parish, and State

EDDY COUNTY COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

APACHE CORPORATION

Contact: EMILY FOLLIS

E-Mail: emily.follis@apachecorp.com

3a. Address

303 VETERANS AIRPARK LANE, SUITE 1000
MIDLAND, TX 79705

3b. Phone No. (include area code)

Ph: 432-818-1801

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 10 T17S R31E NESE 2280FSL 370FEL

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 recomple 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 recomple 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.)

SEE ATTACHED FORM 3160-5 ON THE CROW FEDERAL #19H - EDDY COUNTY,NM

NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 16 2015

RECEIVED

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

**Electronic Submission #286520 verified by the BLM Well Information System
For APACHE CORPORATION, sent to the Carlsbad**

Name (Printed/Typed) EMILY FOLLIS

Title REGULATORY ANALYST I

Signature (Electronic Submission)

Date 12/30/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE

Approved By

Title

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.

Office

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

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

to make to any department or agency of the United

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Apache Corporation would like to report the completion of this well:

CROW FEDERAL 19H –SUNDRY 3160-5

3/27-31/14: RIH and clean out to PBTD. RU Weatherford WL and perf the Paddock 9412-14, 9484-86, 9556-58, 9628-30 5 SPF, 40 holes. SI to frac @ a later date.

4/1-5/10/14: MIRU Pumpco Services frac equipment. Waiting on sand.

5/11/14: Sand delivered.

5/12-5/14/14: Frac Stage 1; perf, acidize and frac Stages 2 – 14 (5772' – 9350'). O.A. perfs 5772' – 9630' MD w/TVD average of 5721'. 69038 bbls fluid; 2574 bbls. acid; total proppant 2,480,208 lbs.

5/29-30/14 – 5-30-14: Drill out plugs 1 – 9.

5/31-6/3/14: Lost circulation, stuck pipe, and began fishing work string.

6/4-6/15/14: Worked string free and pulled out of hole. "Packer Plus" ball-sealed frac plugs left in well @ 8552' above perfs 8572-8790; @ 9112 above perfs 9132-9350; @ 9392 above perfs 9412-9630. All perfs 5772 – 9630' are producing. RIH w/2-3/8", J-55 tubing with EOT @ 4553'. Run in hole with ESP.

06/16/14: Install drive & electric service. Start production to battery

NM OIL CONSERVATION

ARTESIA DISTRICT

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JAN 16 2015

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

WELL COMPLETION OR RECOMPLETION REPORT RECEIVED

5. Lease Serial No.
NMLC029426B

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: EMILY FOLLIS

E-Mail: emily.follis@apachecorp.com

8. Lease Name and Well No.
CROW FEDERAL 19H

3. Address 303 VETERANS AIRPARK LANE SUITE 1000
MIDLAND, TX 79705

3a. Phone No. (include area code)
Ph: 432-818-1801

9. API Well No.
30-015-41909

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

Sec 10 T17S R31E Mer

At surface NESE 2280FSL 370FEL

At top prod interval reported below

At total depth

10. Field and Pool, or Exploratory
FREN;GLORIETA-YESO(26770)

11. Sec., T., R., M., or Block and Survey
or Area Sec 10 T17S R31E Mer

12. County or Parish
EDDY COUNTY

13. State
NM

14. Date Spudded
02/13/2014

15. Date T.D. Reached
02/28/2014

16. Date Completed
☐ D & A ☒ Ready to Prod.
06/17/2014

17. Elevations (DF, KB, RT, GL)*
3926 GL

18. Total Depth: MD 9813
TVD 5339

19. Plug Back T.D.: MD
TVD

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
SECTOR BOND GR/CCL:CNGR/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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H-40	48.0	675			730	189	0	
11.000	8.625 J-55	32.0	3500			1270	382	0	
7.875	5.500 L-80	17.0	9813			1530	442	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	4553							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) 5772-9630	5108	5191	5108 TO 5191	0.450	560	PRODUCING
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
5772 TO 9630	69038 BBL FLUID:2574 BBL ACID: 2,480,208 # 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
06/17/2014	07/29/2014	24	→	478.0	343.0	2075.0			ELECTRIC PUMP SUB-SURFACE
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→	478	343	2070	718	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 AD

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

ELECTRONIC SUBMISSION #286516 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
QUEEN	2834	3616	SILSTONE, SANDSTONE, ANHYDRITE	QUEEN	2834
SAN ANDRES	3616	5108	DOLOMITE, SANDSTONE	SAN ANDRES	3616
GLORIETA	5108	5191	DOLOMITE, SANDSTONE	GLORIETA	5108
PADDOCK	5191		DOLOMITE	PADDOCK	5191

32. Additional remarks (include plugging procedure):

LOGS TO OCD 11-17-2014

*RUN 1" & TAGGED CMT @54: CONTACTED blm & GIVEN PERMISSION TO 1" CMT'D W/ 62 SX CC CIRCULATING CMT TO SURFACE.

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 #286516 Verified by the BLM Well Information System.
For APACHE CORPORATION, sent to the Carlsbad

Name (please print) EMILY FOLLISTitle REGULATORY ANALYST I

Signature _____ (Electronic Submission)

Date 12/30/2014

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.

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