

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 / 06/22/15
⁴ API Number 30-015-42745	⁵ Pool Name FREN; GLORIETA-YESO	⁶ Pool Code [26770]
⁷ Property Code [308711]	⁸ Property Name CROW FEDERAL	⁹ Well Number #043H

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	3	17S	31E		2298	FSL	10	FWL	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
I	3	17N	31E		2298	FSL	330	FEL	EDDY
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 06/22/15	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 AUG 6 2015 RECEIVED		

IV. Well Completion Data

²¹ Spud Date 01/21/15	²² Ready Date 06/22/15	²³ TD 10,521' <i>5796</i>	²⁴ PBSD 10,521'	²⁵ Perforations 6111' - 10,485	²⁶ DHC; MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5	13.375	650'	710 sx Class C		
9.625	12.25	3,500'	1410 sx Class C		
8.75	7	5,296'	570 sx Class C		
7.875	5.5	10,481'	375 sx Class C		

V. Well Test Data

³¹ Date New Oil 06/22/15	³² Gas Delivery Date 06/22/15	³³ Test Date 07/04/15	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 328	³⁹ Water 2064	⁴⁰ Gas 449		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: *Emily Follis*

Printed name:
Emily Follis
Title:
Reg Analyst
E-mail Address:
emily.follis@apachecorp.com
Date: *7/30/15*
Phone:
432-818-1801

OIL CONSERVATION DIVISION	
Approved by: <i>LR Dade</i>	
Title: <i>Dist II Supervisor</i>	
Approval Date: <i>8-12-15</i>	
Pending BLM approvals will subsequently be reviewed and scanned	

NM OIL CONSERVATION

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
ARTESIA DISTRICT
AUG 6 2015FORM 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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
CROW FEDERAL 43H2. Name of Operator
APACHE CORPORATIONContact: EMILY FOLLIS
E-Mail: Emily.Follis@apachecorp.com9. API Well No.
30-015-427453a. Address
303 VETERANS AIRPARK LANE SUITE 1000
MIDLAND, TX 797073b. Phone No. (include area code)
Ph: 432-818-180110. Field and Pool, or Exploratory
FREN:GLORIETA-YESO

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

Sec 3 T17S R31E NWSW 2298FSL 10FWL

11. County or Parish, and State

EDDY COUNTY 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
	<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 recompleate 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 recompleation 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: (RR:02/07/15)

04/02/15 LOG W/CNL-CBL-GR TAG UP @ 5286' LOG FROM 5286' TO SURF EST CT @ SURF SI SD SDFN PREP TO RUSU @ LATER DATE

04/22-26/15 DO DV TOOL, RIH W/MILL & TBG DO DEBRIS SUB, PRIM UP FRAC TANKS, SET POP OFFS

04/26-04/27/15 3500-5402' OH W/PACKER @ 6054' non-producing

(FRAC 15 STAGE) 6111'-10485'(TD 10,521')

PACKERS @6111,6437,6764,7087,7408,7686,7970,8252,8537,8821,9100,9382,9665,9947,10,230

Total Acid 2594 Bbl, Total Sand 2,932,688#

04/27/15 RDMO FRAC & OTHER SERVICES

06/10/15 MIRU RACK & TALLY TBG 5300' NEW 2-7/8" J-55, NU 5K SPOOL HYD BOP & ANNULAR, WHILE CONDUCTING DAILY RIG INSPECTION. REPAIRED DAMAGED SUPPORTED RIG CABLE FOR TBG BOARD. SI SDFN

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

**Electronic Submission #311428 verified by the BLM Well Information System
For APACHE CORPORATION, sent to the Carlsbad**

Name (Printed/Typed) EMILY FOLLIS

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 08/04/2015

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

to any department or agency of the United

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

Additional data for EC transaction #311428 that would not fit on the form

32. Additional remarks, continued

06/11/15 PU & RIH W/ESP ON TBG, ND SPOOL, BOP & ANNULAR, LAND HANGER IN WELLHEAD, TUBING & ESP ASSEMBLY @ 5578', RDMO - POP

NOTE: GAPS IN DATES DUE TO PAD DRILLING PROCESSES & SURROUNDING AREA WATER ISSUES, WHICH HAVE DELAYED COMPLETION OPERATIONS.

NM OIL CONSERVATION ARTESIA DISTRICT

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

AUG 6 2015

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			5. Lease Serial No. NMLC029426B		
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		
2. Name of Operator APACHE CORPORATION			8. Lease Name and Well No. CROW FEDERAL 43H		
Contact: EMILY FOLLIS E-Mail: Emily.Follis@apachecorp.com			7. Unit or CA Agreement Name and No.		
3. Address 303 VETERANS AIRPARK LANE SUITE 1000 MIDLAND, TX 79705			9. API Well No. 30-015-42745		
3a. Phone No. (include area code) Ph: 432-818-1801			10. Field and Pool, or Exploratory FREN:GLORIETA-YESO		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NWSW 2298FSL 10FWL At top prod interval reported below NWSW 2298FSL 330FEL At total depth NESE 2298FSL 330FEL			11. Sec., T., R., M., or Block and Survey or Area Sec 3 T17S R31E Mer		
14. Date Spudded 01/21/2015			17. Elevations (DF, KB, RT, GL)* 3940 GL		
15. Date T.D. Reached 02/07/2015			12. County or Parish EDDY COUNTY		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 02/08/2015			13. State NM		
18. Total Depth: MD TVD 5796		19. Plug Back T.D.: MD TVD 10521		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CNL-CBL-GR-PHONEX			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 H40	48.0	0	650		710			
11.000	9.625 K55	36.0	0	3500		1410			
7.875	7.000 L80	29.0	0	5296		945			

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	5578							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BLINBERY	6111		5344 TO 6111			OPEN HOLE - NON FRAC
B)			6111 TO 10485			OPEN HOLE - FRAC PRODUCT
C)						
D)						

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

Depth Interval	Amount and Type of Material
6111 TO 10485	TOTAL ACID 2594 BBL, TOTAL SAND 2,932,688#

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
06/22/2015	07/04/2015	24	→	328.0	449.0	2064.0	37.0		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	
			→				1369	POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gr. Gr.
			→					
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 *[Signature]*

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

ELECTRONIC SUBMISSION #311448 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	565	711	ANHYDRITE, DOLOMITE W	RUSTLER	565
SALADO	711	1766	ANHYDRITE, DOLOMITE W	SALADO	711
TANSIL	1766	1899	ANHYDRITE, SALT, DOLO, SS O/G/W	TANSIL	1766
YATES	1899	2180	SANDSTONE O/G/W	SANDSTONE	1899
SEVEN RIVERS	2180	2794	SS, DOLO, LIMESTONE O/G/W	SEVEN RIVERS	2180
QUEEN	2794	3208	SS, DOLO, LIMESTONE O/G/W	QUEEN	2794
GRAYBURG	3208	3534	DOLO, LIMESTONE, SS O/G/W	GRAYBURG	3208
SAN ANDRES	3534	5026	DOLO, LIMESTONE, SS O/G/W	SAN ANDRES	3534

32. Additional remarks (include plugging procedure):

GLORIETA 5026 5095 SANDSTONE O/G/W
 PADDOCK 5095 5473 DOLOMITE O/G/W
 BLINEBRY 5473 TD O/G/W
 TUBB SANDSTONE O/G/W

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 #311448 Verified by the BLM Well Information System.
 For APACHE CORPORATION, sent to the Carlsbad

Name (please print) EMILY FOLLISTitle REGULATORY ANALYSTSignature (Electronic Submission)Date 08/04/2015

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 ****