

NM OIL CONSERVATION
ARTESIA DISTRICT

APR 23 2015

Form 3160-4
(August 2007)

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

RECEIVED

1a. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input checked="" type="checkbox"/> Other: INJ			6. If Indian, Allottee or Tribe Name		
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 _____			7. Unit or CA Agreement Name and No.		
2. Name of Operator APACHE CORPORATION			8. Lease Name and Well No. CROW FEDERAL SWD 1		
3. Address 303 VETERANS AIRPARK LN MIDLAND, TX 79705			9. API Well No. 30-015-42469		
3a. Phone No. (include area code) Ph: 432-818-1015					
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 890' FNL, 685' FEL At top prod interval reported below At total depth			10. Field and Pool, or Exploratory SWD;DEVONIAN-ELLENBERGER		
			11. Sec., T., R., M., or Block and Survey or Area		
			12. County or Parish EDDY		13. State NM
14. Date Spudded 09/02/2014		15. Date T.D. Reached 11/05/2014	16. Date Completed <input type="checkbox"/> D & A <input type="checkbox"/> Ready to Prod.		17. Elevations (DF, KB, RT, GL)* 3909 GL
18. Total Depth: MD TVD 14000		19. Plug Back T.D.: MD TVD 13914		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CH 1 MD-NL/GR CCL/RCL				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	9.625 H-40	48.0		600		580		0	
12.500	9.625 J-55	40.0		4490		2350		0	
8.750	7.000 P-110	29.0		13960		1700		2420	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
4.500	13263	13250						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) DEVONIAN	13080		13300 TO 13500	2.000	400	SI
B)			13720 TO 13840	2.000	240	SI
C)						
D)						

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

Depth Interval	Amount and Type of Material
13300 TO 13840	30,660 GALS 15% HCL NEFE ACID

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
			➡						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			➡						

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
			➡					
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

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

ELECTRONIC SUBMISSION #295806 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.)

UNKNOWN

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	532	680	SS/ANHYDRITE - N/A	RUSTLER	532
YATES	1868	2146	SS/ANHYDRITE - OIL,GAS & WATER	YATES	1868
WOLFCAMP	8746	11012	CARBONATE/SHALE-OIL,GAS& WATER	WOLFCAMP	8746
STRAWN	11012	11259	SHALE - OIL, GAS & WATER	STRAWN	11012
ATOKA	11259	11507	SANDSTONE - OIL, GAS & WATER	ATOKA	11259
MORROW	11507	12017	CARBONATE/SHALE-OIL,GAS& WATER	MORROW	11507
MISSISSIPPIAN	12017	13080	CARBONATE - OIL, GAS & WATER	MISSISSIPPIAN	12017
DEVONIAN	13080		CARBONATE - OIL, GAS & WATER	DEVONIAN	13080

32. Additional remarks (include plugging procedure):

Attachments - OCD Form C-102, Logs mailed 03/20/2015.

Tansil Salt 680'-1306' Salt - N/A
 Bottom Salt 1306'-1868' Salt - N/A
 Seven Rivers 2146'-2761' Sandstone/Carbonate - Oil, Gas & Water
 Queen 2761'-3495' Sandstone/Carbonate - Oil, Gas & Water
 San Andres 3495'-4999' Carbonate - Oil, Gas & Water
 Glorieta 4999'-5049' Sandstone - Oil, Gas & Water

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 #295806 Verified by the BLM Well Information System.
 For APACHE CORPORATION, sent to the Carlsbad

Name (please print) FA'TIMA VASQUEZ

Title REGULATORY ANALYST II

Signature (Electronic Submission)

Date 03/23/2015

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 **

Additional data for transaction #295806 that would not fit on the form

32. Additional remarks, continued

Paddock	5049'-5687'	Dolomite - Oil, Gas & Water
Blinebry	5687'-6455'	Dolomite - Oil, Gas & Water
Tubb	6455'-7136'	Sandstone/Carbonate - Oil, Gas & Water
Abo	7136'-8746'	Carbonate - Oil, Gas & Water

*SS - Sandstone

*Devonian - didn't drill far enough to get bottom depth of Blinebry

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 SWD 19. API Well No.
30-015-4246910. Field and Pool, or Exploratory
SWD;DEVONIAN-ELLENBERGER

11. County or Parish, and State

EDDY COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other: INJECTION2. Name of Operator
APACHE CORPORATIONContact: FATIMA VASQUEZ
E-Mail: fatima.vasquez@apachecorp.com3a. Address
303 VETERANS AIRPARK LN
MIDLAND, TX 797053b. Phone No. (include area code)
Ph: 432-818-1015

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

Sec 9 T17S R31E NENE 890FNL 625FEL
32.853869 N Lat, 103.868262 W Lon**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 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 checked="" 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 recomplate 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 this well as follows:

11/17/2014 MIRUSU.
11/18/2014 RIH w/ bit , start DO.
11/19/2014 Tag DV tool @ 10,573' & DO. Circ hole clean.
11/20/2014 CO TO PBTD @ 13,914'. Circ hole.
11/24/2014 POH & LD tbg. SI.
01/28/2015 Log TOC @ 2420' (CBL). Perf Devonian @ 13,720'-13,840' w/ 2 SPF, 240 holes.
01/29/2015 SD due to wind.
01/30/2015 PU & RIH w/ treating pkr.
02/02/2015 Acidize Devonian @ 13,720'-13,840' w/ 10,080 gals 15% HCl NEFE acid.
02/03/2015 Release & POH w/ pkr.

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

Electronic Submission #295803 verified by the BLM Well Information System
For APACHE CORPORATION, sent to the Carlsbad

Name (Printed/Typed) FATIMA VASQUEZ

Title REGULATORY ANALYST II

Signature (Electronic Submission)

Date 03/23/2015

THIS SPACE FOR FEDERAL OR STATE OI

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

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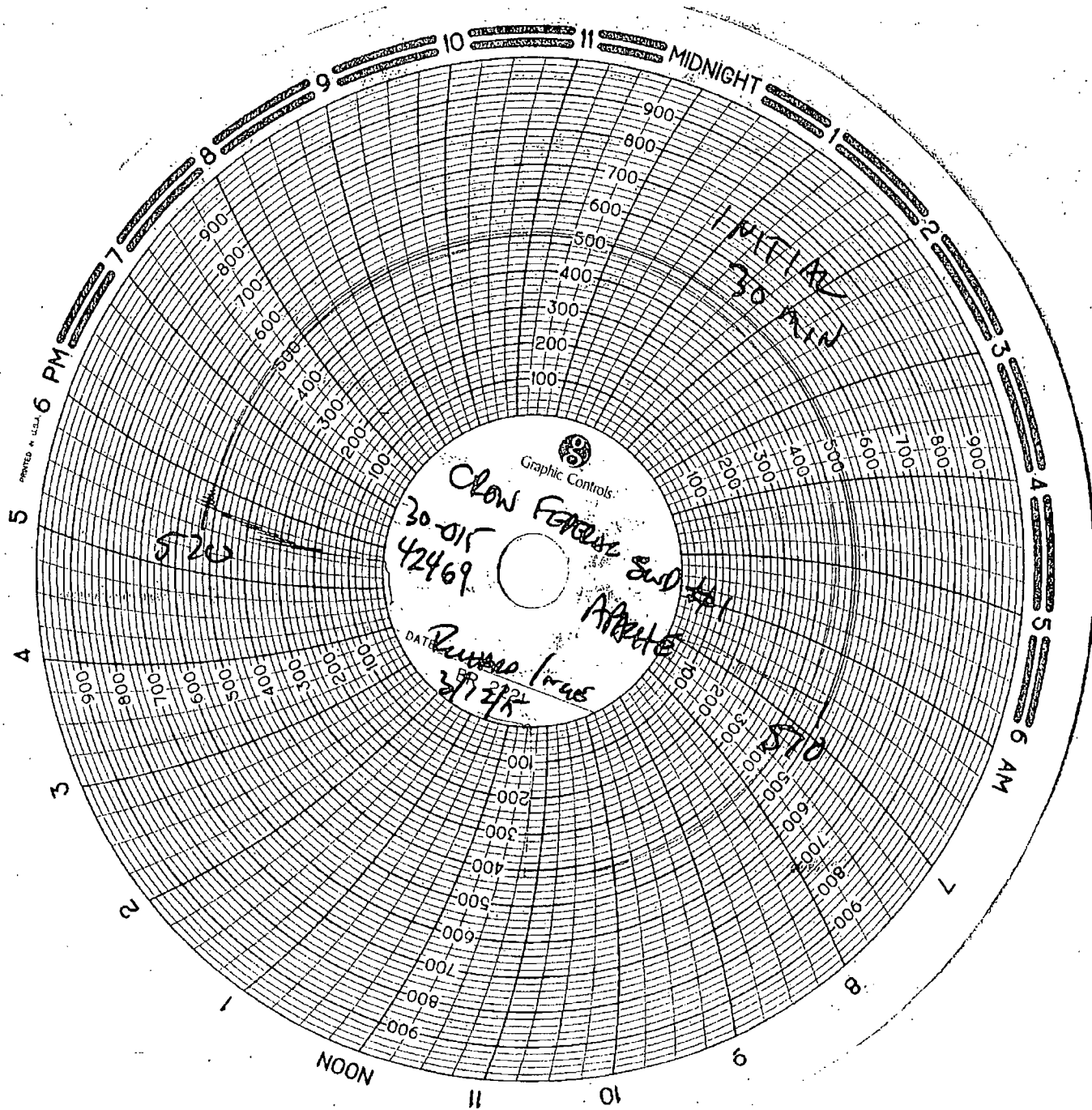
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

Additional data for EC transaction #295803 that would not fit on the form

32. Additional remarks, continued

02/04/2015 Perf Devonian @ 13,300'-13,500' w/ 2 SPF, 400 holes.
02/05/2015 Set RBP @ 13,600'. Test to 2000#.
02/06/2015 Acidize Devonian @ 13,300'-13,500' w/ 20,580 gals 15% HCl NEFE acid.
02/09/2015 Release pkr & retrieve RBP.
02/10/2015 Cont POH w/ tbq, pkr & plug.
02/11/2015 SD due to wind.
02/12/2015 RIH w/ pkr.
02/13/2015 Cont RIH w/ pkr & tbq.
02/16/2015 RIH w/ 4-1/2" J-55 8RD EUE Duoline tbq. Pkr @ 13,250' & EOT @ 13,263'.
02/17/2015 Test annulus & run 4 pt injectivity test.
03/12/2015 Run MIT. Witnessed & chart kept by Mr. Richard Inge w/ Artesia OCD. SI well - waiting for approval to inject.



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