

**NM OIL CONSERVATION**

ARTESIA DISTRICT

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

JUL 22 2015

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS RECEIVED**  
*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.  
NMLC028775B

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  Other: UNKNOWN OTH **SWD**

8. Well Name and No.  
BARNSDALL FEDERAL SWD 1

2. Name of Operator  
APACHE CORPORATION  
Contact: REESA FISHER  
E-Mail: Reesa.Fisher@apachecorp.com

9. API Well No.  
30-015-42468

3a. Address  
303 VETERANS AIRPARK LANE SUITE 3000  
MIDLAND, TX 79705

3b. Phone No. (include area code)  
Ph: 432-818-1062

10. Field and Pool, or Exploratory  
SWD;WOLF-CISCO/SWD;ELLEN

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 27 T17S R29E NWNE 330FNL 1880FEL

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 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 SWD well, as follows:

- 3/17/2015 RIH w/bit & tbg.
- 3/18/2015 RIH w/bit, load csg & tbg w/mud in anticipation of water flow and possible high concentration of H2S
- 3/19/2015 RIH to 8483' (@ 100' below csg shoe), POH w/tbg while displacing with mud. No flow, pressure or H2S issues encountered.
- 3/20/2015 Set pkr @ 8319'.
- 3/23/2015 Circ mud out of hole.
- 3/24/2015 Circ clean, POH & LD WS.
- 3/25/2015 Log - TOC @ 72'.
- 3/26/2015 RIH w/4-1/2" 8RD EUE Duoline tbg, latch pkr @ 8319', set w/20,000# compression. ETD @ 8327'.

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

**Electronic Submission #309093 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Carlsbad**

Name (Printed/Typed) REESA FISHER

Title SR STAFF REGULATORY ANALYST

Signature (Electronic Submission)

Date 07/15/2015

**THIS SPACE FOR FEDERAL OR STATE OFFICIAL SIGNATURE**

*Pending BLM approvals will subsequently be reviewed and scanned*

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 \_\_\_\_\_

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 #309093 that would not fit on the form

### 32. Additional remarks, continued

3/27/2015 Circ pkr fluid, test. Pump out plug. Get off pkr, test csg @ 500#/30 min.  
3/30/2015 Flow back.  
4/07/2015 Acidize w/126 BBL acid.  
4/08/2015 MIRU Elite & run injectivity test. SD RDMO Elite.  
4/10/2015 MIRU to run MIT. Bleed off, try to re-test - did not pass. Reschedule MIT test w/OCD @ later date.  
4/11/2015 WO foam in acid to settle in pkr.  
4/30/2015 MIT passed, witnessed by Richard Inge w/OCD. SI well.  
5/05/2015 Ran Step-Rate Test. SI well. WO IPI request approval.

NOTE: WELL IS ON RECORD IN SWD:ELLENBURGER (96103); HOWEVER, WELL PHYSICALLY ENDED UP IN SWD;WOLFCAMP-CISCO (96136) AND SHOULD BE REPORTED IN SAID POOL FOR PRODUCTION REPORTING. THE ORDER (SWD-1379-A) REFLECTS THIS DESIGNATION. OCD DOES NOT HAVE RESOURCES AT THIS TIME TO WARRANT TIME SPENT TRYING TO CHANGE THEIR SYSTEM.

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

JUL 22 2015

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.  
NMLC028775B

1a. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input checked="" type="checkbox"/> Other: OTH			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			Contact: REESA FISHER E-Mail: Reesa.Fisher@apachecorp.com		
3. Address 303 VETERANS AIRPARK LANE SUITE 3000 MIDLAND, TX 79705			3a. Phone No. (include area code) Ph: 432-818-1062		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NWNE 330FNL 1880FEL At top prod interval reported below NWNE 330FNL 1880FEL At total depth NWNE 330FNL 1880FEL			8. Lease Name and Well No. BARNSDALL FEDERAL SWD 1		
14. Date Spudded 11/18/2014			15. Date T.D. Reached 12/10/2014		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 05/05/2015			9. API Well No. 30-015-42468		
18. Total Depth: MD 9556 TVD			19. Plug Back T.D.: MD 9556 TVD		
20. Depth Bridge Plug Set: MD TVD			10. Field and Pool, or Exploratory SWD;WOLF-CISCO/SWD;ELLEN		
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CNL/GR/BCS/CALIPER/SBGR/CCL/CNCR/CCL			11. Sec., T., R., M., or Block and Survey or Area Sec 27 T17S R29E Mer		
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)			12. County or Parish EDDY, COUNTY		
			13. State NM		
			17. Elevations (DF, KB, RT, GL)* 3560 GL		

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	0	165		250		0	
12.250	9.625 HCK-55	40.0	0	4500		1403		0	
8.750	7.000 J-55	17.0	0	8370		130		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)
4.500	8327	8319						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	7529		<del>7700 TO 9550</del>			OH - SWD / SI
B) CISCO	8041		<del>8370</del>			
C)			8370-9556 OH			
D)						

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

Depth Interval	Amount and Type of Material
7700 TO 9556	126 BBL 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
			→				
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

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

ELECTRONIC SUBMISSION #309095 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
TANSILL	722	881	ANHYDRITE/SALT/DOLO/SS O/G/W	TANSILL	722
YATES	881	1149	SANDSTONE	YATES	881
SEVEN RIVERS	1149	1768	SS/DOLOMITE/LIMESTONE O/G/W	SEVEN RIVERS	1149
QUEEN	1768	2152	SS/DOLOMITE/LIMESTONE O/G/W	QUEEN	1768
GRAYBURG	2152	2470	DOLOMITE/LIMESTONE/SS O/G/W	GRAYBURG	2152
SAN ANDRES	2470	3946	DOLOMITE/LIMESTONE/SS O/G/W	SAN ANDRES	2470
GLORIETA	3946	4007	SANDSTONE	GLORIETA	3946
PADDOCK	4007	4498	DOLOMITE	PADDOCK	4007

32. Additional remarks (include plugging procedure):

BLINEBRY 4498 6570 DOLOMITE O/G/W BLINEBRY 4498  
 ABO 6570 7529 LIMESTONE/DOLOMITE O/G/W ABO 6570  
 WOLFCAMP 7529 8041 SHALE/SANDSTONE O/G/W WOLFCAMP 7529  
 CISCO 8041 TD LIMESTONE O/G/W CISCO 8041

NOTE: WELL IS ON RECORD IN SWD;ELLENBURGER (96103); HOWEVER, WELL PHYSICALLY ENDED UP IN

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 #309095 Verified by the BLM Well Information System.  
 For APACHE CORPORATION, sent to the Carlsbad**

Name (please print) REESA FISHER Title SR STAFF REGULATORY ANALYST

Signature \_\_\_\_\_ (Electronic Submission) Date 07/15/2015

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 #309095 that would not fit on the form**

**32. Additional remarks, continued**

SWD;WOLFCAMP-CISCO (96136) AND SHOULD BE REPORTED IN SAID POOL FOR PRODUCTION REPORTING. THE ORDER (SWD-1379-A) REFLECTS THIS DESIGNATION. OCD DOES NOT HAVE RESOURCES AT THIS TIME TO WARRANT TIME SPENT TRYING TO CHANGE THEIR SYSTEM.