

NM OIL CONSERVATION

ARTESIA DISTRICT
 OCD Artesia
 MAR 02 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

5. Lease Serial No. NMLC028775B

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No. BARNSDALL FEDERAL 020

9. API Well No. 30-015-42364

10. Field and Pool, or Exploratory EMPIRE;GLORIETA-YESO,EAST

11. Sec., T., R., M., or Block and Survey or Area Sec 27 T17S R29E Mer

12. County or Parish EDDY 13. State NM

17. Elevations (DF, KB, RT, GL)* 3588 GL

14. Date Spudded 08/12/2014 15. Date T.D. Reached 08/22/2014 16. Date Completed 10/11/2014
 D & A Ready to Prod.

18. Total Depth: MD 6120 TVD 19. Plug Back T.D.: MD 6074 TVD 20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) HI-RES LL/BHCS/CNL/T-COM 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 H40	48.0		202		260		0	
11.000	8.625 J55	32.0		3393		1280		0	
7.875	5.500 J55	17.0		6120		970		87	

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	5888							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA	3961	4021	4149 TO 4972	1.000	35	PRODUCING
B) PADDOCK	4021	4629	5129 TO 5762	1.000	28	PRODUCING
C) BLINEBRY	4629					
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
4149 TO 4972	245,826 GALS 20#, 333,142# SAND, 4830 GALS ACID, 3990 GALS GEL
5129 TO 5762	218,778 GALS 20#, 259,945# SAND, 4116 GALS ACID, 4368 GALS GEL

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
10/11/2014	01/30/2015	24	→	43.0	72.0	150.0	39.0		ELECTRIC PUMPING UNIT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→				1674	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 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	
			→						

ACCEPTED FOR RECORD
 FEB 25 2015
 R. Ham
 BUREAU OF LAND MANAGEMENT
 CARLSBAD FIELD OFFICE

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

ELECTRONIC SUBMISSION #292409 VERIFIED BY THE BLM WELL-INFORMATION SYSTEM

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

Reclamation Due: 7/30/15

Accepted for record
 3/2/15
 NWJCD

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	891	1164	SS/ANHYDRITE - OIL, GAS & WATER	YATES	891
SEVEN RIVERS	1164	1552	SS/CARBONATE - OIL, GAS & WATER	SEVEN RIVERS	1164
QUEEN	1788	2170	SS/CARBONATE - OIL, GAS & WATER	QUEEN	1788
GRAYBURG	2170	2490	CARBONATE - OIL, GAS & WATER	GRAYBURG	2170
SAN ANDRES	2490	3961	CARBONATE - OIL, GAS & WATER	SAN ANDRES	2490
GLORIETA	3961	4021	SANDSTONE - OIL, GAS & WATER	GLORIETA	3961
PADDOCK	4021	4629	DOLOMITE - OIL, GAS & WATER	PADDOCK	4021
BLINEBRY	4629		DOLOMITE - OIL, GAS & WATER	BLINEBRY	4629

32. Additional remarks (include plugging procedure):

Attachments - Frac Disclosure, OCD Forms C-102 & C-104. Logs mailed 02/19/2015.

Tansill - SS/Carbonate/Anhydrite- Water - 749'-891'
Bowers S.S. - Sandstone/Carbonate - Oil, Gas & Water - 1552'-1788'
Blinebry - didn't drill far enough to get bottom depth of Blinebry.

*SS - Sandstone

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 #292409 Verified by the BLM Well Information System.
For APACHE CORPORATION, sent to the Carlsbad
Committed to AFMSS for processing by DEBORAH HAM on 02/23/2015 ()**

Name (please print) FATIMA VASQUEZ Title REGULATORY ANALYST II

Signature (Electronic Submission) Date 02/19/2015

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.

Additional data for transaction #292409 that would not fit on the form

32. Additional remarks, continued