

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## NM OIL CONSERVATION

ARTESIA DISTRICT

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

JUN 15 2015

**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.**

RECEIVED

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMLC031844
2. Name of Operator APACHE CORPORATION		6. If Indian, Allottee or Tribe Name
Contact: FATIMA VASQUEZ E-Mail: fatima.vasquez@apachecorp.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 303 VETERANS AIRPARK LN MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 432-818-1015	8. Well Name and No. STRAIGHT LINE FEDERAL 1
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 19 T17S R31E NESE 1650FSL 1100FEL 32.817322 N Lat, 103.904097 W Lon		9. API Well No. 30-015-34087
		10. Field and Pool, or Exploratory CEDAR LAKE, GLORIETA-YESO
		11. County or Parish, and State EDDY 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 checked="" 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 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 recompleted this well as follows:

01/05/2015 MIRU. POH w/ prod equip.  
01/06/2015 Finish POH w/ prod equip.  
01/07/2015 RIH w/ bit & tbg.  
01/08/2015 Set balanced plugs @ 7948'-8128' & 6639'-6809'.  
01/12/2015 Pump 50 sx Class H cmt. TOC @ top of plug - 6639'.  
01/13/2015 RIH w/ pkr, test tbg. Pressure loss indicative of air migrating to surface.  
01/14/2015 Test csg from 4675'-surface @ 3000#/30 min, held good. Release pkr. RIH w/ cmt retainer to 4601'. Pump tbg cap to ensure clear, set retainer.  
01/15/2015 Squeeze perfs @ 4717'-4740' w/ 400 sx Class C cmt.  
01/16/2015 Stndby for sqz set up.

Accepted for record

FED NMOC 6/16/2015

14. I hereby certify that the foregoing is true and correct. Electronic Submission #304641 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 06/11/2015

THIS SPACE FOR FEDERAL OR STATE OFFICIAL 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

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 #304641 that would not fit on the form

### 32. Additional remarks, continued

01/19/2015 DO rtnr & cmt. CO to 6300', circ clean. Spot 630 gals 15% acetic.  
01/20/2015 Ran log. Stage 1 - Perf Blinebry @ 5685'-6120' w/ 1 SPF, 29 holes.  
01/21/2015 RIH w/ trtg pkr. NU frac string.  
01/22/2015 Start acid pump -3570 gals acid, communicated w/ backside went to flush.  
01/23/2015 Pump 840 gals 1% KCl dn tbq. Release pkr.  
01/26/2015 LD WS.  
01/27/2015 NU frac valve.  
01/28/2015 Frac Blinebry w/ 168,504 gals 15# XL, 229,467# 16/30 sand, & 4536 gals 10# linear gel.  
Spot 1000 gals acid.  
Stage 2 - Set CBP @ 4816'. Perf Paddock @ 4740'-4815' w/ 1 SPF, 20 holes. Frac w/ 5754 gals 15% HCl acid, 214,578 gals slickwater & 206,419# sand (100# Mesh & 40/70).  
01/29/2015 NU prod spool & BOP.  
02/11/2015 DO CBP @ 4816'. Wash sand to PBTD @ 6600'. Circ clean.  
02/12/2015 RIH w/ 2-7/8" J-55 6.5# prod tbq. SN @ 6110' & ETD @ 6200'.  
02/14/2015 POP.

# NM OIL CONSERVATION

ARTESIA DISTRICT

JUN 15 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.  
NMLC031844

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			6. If Indian, Allottee or Tribe Name		
b. Type of Completion <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other <u>Recomplete</u>			7. Unit or CA Agreement Name and No.		
2. Name of Operator APACHE CORPORATION    Contact: FATIMA VASQUEZ E-Mail: fatima.vasquez@apachecorp.com			8. Lease Name and Well No. STRAIGHT LINE FEDERAL (308735) 1		
3. Address    303 VETERANS AIRPARK LN MIDLAND, TX 79705			9. API Well No. 30-015-34087		
3a. Phone No. (include area code) Ph: 432-818-1015			10. Field and Pool, or Exploratory CEDAR LAKE; GLORIETA-YESO		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface    NESE 1650FSL 1100FEL 32.817322 N Lat, 103.904097 W Lon At top prod interval reported below    NESE 1650FSL 1100FEL 32.817322 N Lat, 103.904097 W Lon At total depth    NESE 1650FSL 1100FEL 32.817322 N Lat, 103.904097 W Lon			11. Sec., T., R., M., or Block and Survey or Area    Sec 19 T17S R31E Mer		
14. Date Spudded 06/17/2005		15. Date T.D. Reached 08/07/2005		12. County or Parish EDDY	
				13. State NM	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 02/14/2015		17. Elevations (DF, KB, RT, GL)* 3604 GL			
18. Total Depth:    MD    11520 TVD		19. Plug Back T.D.:    MD    6600 TVD		20. Depth Bridge Plug Set:    MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) GR-CCL			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 checked="" type="checkbox"/> No <input 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
20.000	16.000 H-40	65.0		358		450		0	
14.750	11.750 H-40	42.0		1347		850		0	
11.000	8.625 J-55	32.0		3943		1100		0	
7.875	5.500 N95/110	17.0		11520		1650		4000	

### 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	6200							

### 25. Producing Intervals

### 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) PADDOCK	4698	5462	4740 TO 4815	1.000	20	PRODUCING
B) BLINEBRY	5462	6724	5685 TO 6120	1.000	29	PRODUCING
C)						
D)						

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

Depth Interval	Amount and Type of Material
4740 TO 4815	214,578 GALS SLICKWATER, 206,419# SAND, 5754 GALS ACID
5685 TO 6120	168,504 GALS 15# XL, 229,467# SAND, 5200 GALS ACID, 4536 GALS LINEAR 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
02/14/2015	05/27/2015	24		27.0	44.0	152.0	37.0		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	
							1630	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	

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

ELECTRONIC SUBMISSION #304649 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Accepted for record  
LBD NMOC 6/16/15

## 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	246	418	ANHYDRITE/DOLOMITE - WATER	RUSTLER	246
YATES	1413	1721	SANDSTONE - OIL, GAS & WATER	YATES	1413
SEVEN RIVERS	1721	2351	SS/DOLOMITE/LIMESTONE - O,G,&W	SEVEN RIVERS	1721
SAN ANDRES	3160	4644	DOLOMITE/LIMESTONE/SS - O,G,&W	SAN ANDRES	3160
GLORIETA	4644	4698	SANDSTONE - OIL, GAS & WATER	GLORIETA	4644
PADDOCK	4698	5462	DOLOMITE - OIL, GAS & WATER	PADDOCK	4698
BLINEBRY	5462	6724	DOLOMITE - OIL, GAS & WATER	BLINEBRY	5462
ABO	6724	8038	LIMESTONE/DOLOMITE - O,G,& W	ABO	6724

## 32. Additional remarks (include plugging procedure):

Attachments - Frac Disclosure, OCD Forms C-102 & C-104. Logs mailed 06/10/2015.

Salado 418'-1234' Anhydrite/Dolomite - Water  
Tansil 1234'-1413' Anhydrite/Salt/Dolomite/SS - Oil, Gas & Water  
Queen 2351'-2731' SS/Dolomite/Limestone - Oil, Gas & Water  
Grayburg 2731'-3160' SS/Dolomite/Limestone - Oil, Gas & Water  
Wolfcamp 8038'-9522' Shale/Sandstone - Oil, Gas & Water  
Penn Shale 9522'-10,356' Shale/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 #304649 Verified by the BLM Well Information System.  
For APACHE CORPORATION, sent to the Carlsbad

Name (please print) FATIMA VASQUEZTitle REGULATORY ANALYST IISignature (Electronic Submission)Date 06/11/2015

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 #304649 that would not fit on the form**

**32. Additional remarks, continued**

Strawn 10,356'-10,652' SS/Dolomite/Limestone - Oil, Gas & Water  
Atoka Shale 10,652'-11,206' Shale/Sandstone - Oil, Gas & Water  
Lower Morrow 11,206'-TD Shale/Sandstone - Oil, Gas & Water

\*\*SS-Sandstone

\*\*O,G,& W - Oil, Gas & Water