

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

RECEIVED

JAN 15 2014

NMOCD ARTESIA

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other		5. Lease Serial No. NMLC029435B*	
b. Type of Completion ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____		6. If Indian, Allottee or Tribe Name	
2. Name of Operator APACHE CORPORATION		7. Unit or CA Agreement Name and No.	
Contact: FATIMA VASQUEZ E-Mail: fatima.vasquez@apachecorp.com		8. Lease Name and Well No. NFE FEDERAL (308724) 16	
3. Address 303 VETERANS AIRPARK LANE STE 3000 MIDLAND, TX 79705		9. API Well No. 30-015-40551	
3a. Phone No. (include area code) Ph: 432-818-1015		10. Field and Pool, or Exploratory CEDAR LAKE; G-Y (96831)	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 330FSL 330FEL At top prod interval reported below 330FSL 330FEL At total depth 330FSL 330FEL		11. Sec., T., R., M., or Block and Survey or Area Sec 5 T17S R31E Mer	
14. Date Spudded 11/01/2012		12. County or Parish EDDY	
15. Date T.D. Reached 11/08/2012		13. State NM	
16. Date Completed ☐ D & A ☒ Ready to Prod. 07/17/2013		17. Elevations (DF, KB, RT, GL)* 3875 GL	
18. Total Depth: MD 6408 TVD		19. Plug Back T.D.: MD 6355 TVD	
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each)	
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
20.000	13.375 H-40	48.0		532		630		0	
11.000	8.625 J-55	32.0		3506		1300		0	
7.875	5.500 J-55	17.0		6402		1030		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)
2.875	6256							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA	4847		4849 TO 5351	1.000	27	PRODUCING
B) PADDOCK	4911		5432 TO 5802	1.000	23	PRODUCING
C) BLINEBRY	5391		6030 TO 6150	1.000	25	PRODUCING
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
4849 TO 5351	172,494 GALS 20#, 210,152# SAND, 6300 GALS ACID, 4704 GALS GEL
5432 TO 5802	123,522 GALS 20#, 166,652# SAND, 5670 GALS ACID, 5376 GALS GEL
6030 TO 6150	102,480 GALS 20#, 125,700# SAND, 5838 GALS GEL, 3108 GALS ACID

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

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
07/17/2013	10/02/2013	24	→	56.0	114.0	224.0	36.6		ELECTRIC PUMPING UNIT
Choke Size	Tbg. Press. Plwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→				2036	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. Plwg. 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 #225143 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

ACCEPTED FOR RECORD

JAN 17 2014

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	1734
				SEVEN RIVERS	2009
				GRAYBURG	3052
				GLORIETA	4847
				PADDOCK	4911
				YESO	4911
				BLINEBRY	5391
				TUBB	6294

32. Additional remarks (include plugging procedure):

Attached is the frac disclosure and OCD forms C-104 & C-144 CLEZ.

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 #225143 Verified by the BLM Well Information System.
For APACHE CORPORATION, sent to the Carlsbad

Name(please print) FATIMA VASQUEZTitle REGULATORY TECH II

Signature _____ (Electronic Submission)

Date 10/31/2013

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 ****

Hydraulic Fracturing Fluid Product Component Information Disclosure

Last Fracture Date:	07/10/2013
State:	New Mexico
County:	Eddy
API Number:	30-015-40551
Operator Name:	Apache Corp
Well Name and Number:	Nte Federal 16
Longitude:	-103.88286
Latitude:	32.85805
Long/Lat Projection:	NAD27
Production Type:	Oil
True Vertical Depth (TVD):	5,802
Total Water Volume (gal):	321,300

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Operator	Carrier	Water	7732-18-5	100.00%	83.03030%	
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15.00%	0.41574%	SmartCare Product
			Water	7732-18-5	85.00%	2.35585%	
Activator, 330 gal tote	Baker Hughes	Activator	Alcohols, C12-14-Secondary, Ethoxylated	84133-50-6	70.00%	0.03410%	
			Methanol	67-56-1	50.00%	0.02436%	
GBW-5	Baker Hughes	Breaker	Ammonium Phosphate	7727-54-0	100.00%	0.00062%	SmartCare Product
GBW-15L	Baker Hughes	Breaker	Enzyme solution	Trade Secret	100.00%	0.01864%	SmartCare Product
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75.00%	0.03531%	SmartCare Product
			Water	7732-18-5	30.00%	0.01412%	
CI-14	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	10.00%	0.00022%	SmartCare Product
			Methanol	67-56-1	100.00%	0.00225%	
			Olefin	Trade Secret	5.00%	0.00011%	
			Polyoxyalkylenes	Trade Secret	30.00%	0.00067%	
			Propargyl Alcohol	107-19-7	5.00%	0.00011%	
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30.00%	0.03983%	
			Sodium Hydroxide	1310-73-2	10.00%	0.01328%	
			Sodium Tetraborate Decahydrate	1303-96-4	30.00%	0.03983%	
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60.00%	0.28172%	SmartCare Product
			Petroleum Distillate Blend	8042-47-5	70.00%	0.65735%	

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
			Petroleum Distillate Blend	64742-55-8	70.00%	0.32867%	
Ferrotrol 280L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100.00%	0.00711%	
			Ammonium Hydroxide	1336-21-6	5.00%	0.00036%	
			Cupric Chloride	7447-39-4	5.00%	0.00036%	
NE-35, 330 gl tote	Baker Hughes	Non-emulsifier	Mixture of Surfactants	Trade Secret	50.00%	0.03735%	
			Propylene Glycol	57-55-6	30.00%	0.02241%	
Sand, White, 16/30	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100.00%	9.93660%	
SB Excel 16/30	Baker Hughes	Proppant	Quartz (SiO2)	14808-60-7	100.00%	2.58922%	
InFlo-250G, 330 gl tote	Baker Hughes	Surfactant	Methanol	67-56-1	30.00%	0.02341%	
			Mixture of Surfactants	Trade Secret	50.00%	0.03902%	
			Water	7732-18-5	30.00%	0.02341%	
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
			Formaldehyde	50-00-0		0.0000224705%	
			Hydrochloric Acid	7647-01-0		0.0000224705%	
			Modified Thiorea Polymer	68527-49-1		0.0001572934%	
			Water	7732-18-5		0.0274315018%	

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.