Form 3160-4
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2014

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: NMLC-029548A

1a. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other: _____

6. If Indian, Allottee or Tribe Name:

7. Unit or CA Agreement Name and No:

2. Name of Operator: Apache Corporation (873)

8. Lease Name and Well No.: Coffee Federal #12 (308710)

3. Address: 303 Veterans Airpark Ln., Ste. 3000, Midland, TX 79705

3a. Phone No. *(include area code)*: (432) 818-1953

9. API Well No.: 30-015-40957

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**

At surface: 1650' FNL & 2260' FWL UL: F SEC: 18 T: 17S R: 31E

At top prod. interval reported below

At total depth

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10. Field and Pool or Exploratory: Ceder Lake;Glorieta-Yeso (96831)

11. Sec., T., R., M., on Block and Survey or Area: UL: F SEC: 18 T:17S R: 31E

12. County or Parish: Eddy

13. State: NM

14. Date Spudded: 05/01/2013

15. Date T.D. Reached: 05/11/2013

16. Date Completed: 06/18/2013 ☐ D & A ☑ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*: 3736' GR

18. Total Depth: MD 6400' TVD

19. Plug Back T.D.: MD 6350" TVD

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
Hi-Res LL; CN; CAL; BHC; SGR

22. Was well cored? ☐ No ☐ Yes (Submit analysis)
Was DST run? ☐ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☑ Yes (Submit copy)

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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20"	13-3/8"	48#		395'		490 sx Class C		Surface	
11"	8-5/8"	32#		3536'		1610 sx Class C		1258'	
						1000 sx Class H		1258'	
7.875"	5-1/2"	17#		6400'		930 sx Class C		Surface	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	5701'							

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Blinebry	5137'		5082'-5595'	1 JSPF	28	Producing
B) Glorieta/Paddock	4592'/4656'		4519'-5004'	1 JSPF	27	Producing
C)						
D)						

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

Depth Interval	Amount and Type of Material
5082'-5595'	4360 gals acid, 163,338 gals 20#, 211,485# sand, and 3864 gals gel
4519'-5004'	5158 gals acid, 149,520 gals 20#, 200,060# sand, and 4368 gals gel

RECLAMATION
DUE 12-18-13

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
06/18/13	08/15/13	24	→	117	307	219	37.3		Pump

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→				2624	Producing

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 page 2)

ACCEPTED FOR RECORD
SEP 15 2013
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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 *(Solid, 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	378'
				Yates	1485'
				B/Salt	1331'
				Seven Rivers	1765'
				Queen	2373'
				Grayburg	2760'
				San Andres	3102'
				Bowers-SD	2153'
				Glorieta	4592'
				Paddock	4656'
				Yeso	4656'
				Blinebry	5137'
				Tubb	6120'

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

☑ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☑ Directional Survey

☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☑ Other: OCD Forms C-102, C-104, Frac Disclosure

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* Michael O'Connor Title Regulatory Tech I

Signature M. OC Date 8/22/13

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.

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Last Fracture Date:	05/28/2013
State:	New Mexico
County:	Eddy
API Number:	30-015-40957
Operator Name:	Apache Corp
Well Name and Number:	Coffee Federal 12
Longitude:	-103.90771
Latitude:	32.83773
Long/Lat Projection:	NAD27
Production Type:	Oil
True Vertical Depth (TVD):	5,595
Total Water Volume (gal)*:	331,464

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%	84.13797%	
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15.00%	0.25217%	
			Water	7732-18-5	85.00%	1.42897%	
Activator, 330 gal tote	Baker Hughes	Activator	Alcohols, C12-14-Secondary, Ethoxylated	84133-50-6	70.00%	0.03513%	
			Methanol	67-56-1	50.00%	0.02510%	
GBW-5	Baker Hughes	Breaker	Ammonium Phosphate	7727-54-0	100.00%	0.00213%	SmartCare Product
GBW-15L	Baker Hughes	Breaker	Enzyme solution	Trade Secret	100.00%	0.03522%	SmartCare Product
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75.00%	0.03510%	SmartCare Product
			Water	7732-18-5	30.00%	0.01404%	
CI-14	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	10.00%	0.00022%	
			Olefin	Trade Secret	5.00%	0.00011%	
			Polyoxyalkylenes	Trade Secret	30.00%	0.00066%	
			Propargyl Alcohol	107-19-7	5.00%	0.00011%	
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30.00%	0.03817%	
			Sodium Hydroxide	1310-73-2	10.00%	0.01272%	
			Sodium Tetraborate	1330-43-4	30.00%	0.03817%	
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60.00%	0.30592%	SmartCare Product
			Paraffinic Petroleum Distillate	64742-55-8	60.00%	0.30592%	
			Petroleum Distillate	64742-47-8	60.00%	0.30592%	

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
Ferrotrol 280L , 330 gl tote	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100.00%	0.00419%	
			Ammonium Hydroxide	1336-21-6	5.00%	0.00021%	
			Cupric Chloride	7447-39-4	5.00%	0.00021%	
NE-35, 330 gl tote	Baker Hughes	Non-emulsifier	Mixture of Surfactants	Trade Secret	50.00%	0.03986%	
			Propylene Glycol	57-55-6	30.00%	0.02392%	
Sand, White, 16/30	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100.00%	10.35833%	
SB Excel 16/30	Baker Hughes	Proppant	Quartz (SiO2)	14808-60-7	100.00%	2.48181%	
InFlo 250G, 330 gl tote	Baker Hughes	Surfactant	Methanol	67-56-1	30.00%	0.02437%	
			Mixture of Surfactants	Trade Secret	50.00%	0.04061%	
			Water	7732-18-5	30.00%	0.02437%	
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		0.0000220720%	
			Hydrochloric Acid	7647-01-0		0.0000220720%	
			Methanol	67-56-1		0.0022072025%	
			Modified Thiorea Polymer	68527-49-1		0.0001545042%	
			Water	7732-18-5		0.0259703707%	

* 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.