

Submit within 45 days of well completion	<div>State of New Mexico</div> <div>Energy, Minerals and Natural Resources</div> <div>Oil Conservation Division</div> <div>1220 S. St Francis Dr.</div> <div>Santa Fe, NM 87505</div>	Revised November 6, 2013				
		1. WELL API NO: 30-015-42334				
		2. Well Name: AAO FEDERAL #021				
		3. Well Number: 021				
<div>HYDRAULIC FRACTURING FLUID DISCLOSURE</div> <div><input checked="" type="checkbox"/> Original</div> <div><input type="checkbox"/> Amendment</div>		4. Surface Hole Location: Unit:C Lot:3 Section:1 Township:18S Range:27E Feet from:1005 N/S Line:N Feet from:1630 E/W Line:W				
		5. Bottom Hole Location: Unit:C Lot:3 Section:1 Township:18S Range:27E Feet from:1005 N/S Line:N Feet from:1630 E/W Line:W				
		6. latitude: longitude: 32.7805651820948 -104.235432113506				
		7. County: Eddy				
8. Operator Name and Address: APACHE CORP 303 Veterans Airpark Lane Suite 3000 Midland 79705			9. OGRID: 873	10. Phone Number: 432-818-1062		
11. Last Fracture Date: 8/5/2014 Frac Performed by: Cudd Services			12. Production Type: O			
13. Pool Code(s): 96836			14. Gross Fractured Interval: 3,268 ft to 4,296 ft			
15. True Vertical Depth (TVD): 4,600 ft			16. Total Volume of Fluid Pumped: 191,589 gals			
17. Total Volume of Re-Use Water Pumped: N/A			18. Percent of Re-Use Water in Fluid Pumped: Not Disclosed			
19. HYDRAULIC FLUID COMPOSITION AND CONCENTRATION:						
Trade Name	Supplier	Purpose	Ingredients	(CAS #) Chemical Abstract Service #	Maximum Ingredient Concentration in Additive (% by mass)	Maximum Ingredient Concentration in HF Fluid (% by mass)
Water		Carrier / Base Fluid		7732-18-5	100%	82.99978%
Sand		Proppant	Silicon Dioxide	14808-60-7	100%	12.97482%
B-15	Water Science Tech	Biocide	Tetrakis (hydroxymethyl) phosphonium sulfate	55566-30-8	20%	0.00548%
			Water	7732-18-5	80%	0.02191%
CS-14	Chemplex, L.C.	Clay Control	Non-hazardous salts (Choline)	Proprietary	66%	0.03798%
			Water	7732-18-5	45%	0.0259%
SG-15G	PfP Technology	Polymer	Guar Gum	9000-30-0	50%	0.38598%
			Petroleum Distillate (Mineral Oil)	64742-47-8	55%	0.42458%
			Bentonite Clay	14808-60-7	2%	0.01544%
			Surfactant	68439-51-0	2%	0.01544%
XL-335	ASK	Crosslinker	Ethylene Glycol	107-21-1	25%	0.04998%
			Potassium Hydroxide	1310-58-3	25%	0.04998%
			Proprietary	Proprietary	25%	0.04998%
			Proprietary	Proprietary	15%	0.02999%
			Proprietary	Proprietary	10%	0.01999%
GB-2	Fritz Industries, Inc.	Breaker	Ammonium Persulfate	7727-54-0	99.9%	0.01212%
GB-150	Chemplex, L.C.	Breaker	Non-hazardous ingredients	NA	100%	0.04194%
NE-227	CESI	Non-emulsifier	Isopropanol	67-63-0	15%	0.01712%
			Methanol	67-56-1	15%	0.01712%
			Ethoxylated Nonylphenol	9016-45-9	20%	0.02283%
S-222	Chemplex, L.C.	Flouro Surfactant	Methanol	67-56-1	100%	0.10841%
Superset W	Sanrol	Resin Activator	Methanol	67-56-1	50%	0.02562%
			Poly(oxyethylene) nonyphenol ether	9016-45-9	54%	0.02767%
SiberProp	Momentive Specialty Chemicals, Inc.	Proppant	Quartz(SiO2)	14808-60-7	100%	2.64071%
20. I, as Operator, hereby certify that the information shown on this disclosure form is true and complete to the best of my knowledge and belief.						
Signature: Signed Electronically		Printed Name: Paige Futrell		Title: Regulatory Analyst		
Date: 8/27/2014						
E-mail Address: paige.futrell@apachecorp.com						

NMOCD does not require the reporting of information beyond MSDS data as described in 29 CFR 1910.1200. NMOCD does not require the reporting or disclosure of proprietary, trade secret or confidential business information.