

Submit within 45 days of well completion	State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505	Revised November 6, 2013	
		1. WELL API NO: 30-015-42036	
		2. Well Name: AAO FEDERAL #020	
		3. Well Number: 020	
HYDRAULIC FRACTURING FLUID DISCLOSURE <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment		4. Surface Hole Location: Unit: E Lot: E Section: 1 Township: 18S Range: 27E Feet from: 2188 N/S Line: N Feet from: 909 E/W Line: W	
		5. Bottom Hole Location: Unit: E Lot: E Section: 1 Township: 18S Range: 27E Feet from: 2188 N/S Line: N Feet from: 909 E/W Line: W	
		6. Latitude: 32.7773369379353 longitude: -104.237735556246	
		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: 5/6/2014 Frac Performed by: Baker Hughes	12. Production Type: O	
13. Pool Code(s): 96836	14. Gross Fractured Interval: 3,262 ft to 4,274 ft	
15. True Vertical Depth (TVD): 4,274 ft	16. Total Volume of Fluid Pumped: 234,276 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	Operator	Carrier	Water	7732-18-5	100%	85.11843%
Alpha 125	Baker Hughes	Biocide	Water	7732-18-5	75%	0.01793%
GBW-5	Baker Hughes	Breaker	Ammonium persulphate	7727-54-0	100%	0.00261%
GBW-15L	Baker Hughes	Breaker	Enzyme solution	Trade Secret	100%	0.04033%
ClayTreat 4390	Baker Hughes	Clay Control	Non-hazardous ingredients (non-MSDS level ingredients are disclosed as dissociated components)	n/a	100%	0.05034%
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30%	0.03994%
			Sodium Hydroxide	1310-73-2	10%	0.01331%
			Sodium Tetraborate Decahydrate	1303-96-4	30%	0.03994%
GW-4	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	100%	0.21191%
NE-35, 330 gl tote	Baker Hughes	Non-emulsifier	Mixture of Surfactants	Trade Secret	50%	0.04724%
			Propylene Glycol	57-55-6	30%	0.02835%
Sand, Brown, 16/30	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	11.91081%
Black Ultra, 20/40	Baker Hughes	Proppant	Crystalline Silica	14808-60-7	100%	2.27901%
			Furfuryl Alcohol	98-00-0	1%	0.02279%
InFlo 250G, 330 gl tote	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.02463%
			Mixture of Surfactants	Trade Secret	50%	0.04106%
			Water	7732-18-5	30%	0.02463%
Ingredients shown above are subject to 29 CFR 1910			Choline Chloride	67-48-1	0%	0.037756%
			Glutaraldehyde	111-30-8	0%	0.007173%
			Methanol	67-56-1	0%	5.98E-05%
			Water	7732-18-5	0%	0.0417315%

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: 7/22/2014		
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.