

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 February 15, 2012				
		1. WELL API NO: 30-015-40465				
		2. Well Name: RAVEN FEDERAL #001				
		3. Well Number: 001				
HYDRAULIC FRACTURING FLUID DISCLOSURE <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment		4. Surface Hole Location: Unit:L Lot:3 Section:7 Township:17S Range:31E Feet from:2190 N/S Line:S Feet from:990 E/W Line:W				
		5. Bottom Hole Location: Unit:L Lot:3 Section:7 Township:17S Range:31E Feet from:2190 N/S Line:S Feet from:990 E/W Line:W				
		6. Latitude: 32.8477672749222 Longitude: - 103.913707059512				
		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: 11/19/2012 Frac Performed by: Baker Hughes				12. Production Type: O		
13. Pool Code(s): 96831				14. Gross Fractured Interval: 5,880 ft to 5,980 ft		
15. True Vertical Depth (TVD): 5,980 ft				16. Total Volume of Fluid Pumped: 2,361 bbls		
17. 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%	84.45119%
Superset-W, 330 gl tote	Baker Hughes	Activator	Methanol	67-56-1	50%	0.03837%
			Poly (Oxyethylene) Nonylphenol Ether	9016-45-9	50%	0.03837%
			Alpha 125	Baker Hughes	Biocide	Glutaraldehyde
GBW-5	Baker Hughes	Breaker	Ammonium Phosphate	7727-54-0	100%	0.00306%
GBW-15L	Baker Hughes	Breaker	Enzyme solution	Trade Secret	100%	0.05672%
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.03972%
			Water	7732-18-5	30%	0.01589%
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30%	0.04247%
			Sodium Hydroxide	1310-73-2	10%	0.01416%
			Sodium Tetraborate	1330-43-4	30%	0.04247%
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60%	0.32962%
			Paraffinic Petroleum Distillate	64742-55-8	60%	0.32962%
			Petroleum Distillate	64742-47-8	60%	0.32962%
NE-35, 330 gl tote	Baker Hughes	Non-emulsifier	Mixture of Surfactants	Trade Secret	50%	0.04515%
Sand, White, 16/30	Baker Hughes	Proppant	Propylene Glycol	57-55-6	30%	0.02709%
			Crystalline Silica (Quartz)	14808-60-7	100%	10.22861%
Super LC, 16/30	Baker Hughes	Proppant	Hexamethylenetetramine	1009-7-0	0.01%	0.00037%
			P/F Resin	9003-35-4	5%	0.18702%
			Silicon Dioxide (Silica Sand)	14808-60-7	97%	3.62827%
InFlo 250G, 330 gl tote	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.02708%
			Mixture of Surfactants	Trade Secret	50%	0.04514%
			Water	7732-18-5	30%	0.02708%
Ingredients shown above are subject to 29 CFR 1910			Methanol	67-56-1	0%	5.85E-05%
			Water	7732-18-5	0%	0.0458498%
18. 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:	Fatima Vasquez	
Date:		1/28/2013		Title: Regulatory Tech		
E-mail Address:		fatima.vasquez@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.						