

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: 30-039-31143					
		2. Well Name: JICARILLA APACHE A #020					
		3. Well Number: 020					
HYDRAULIC FRACTURING FLUID DISCLOSURE <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment		4. Surface Hole Location: Unit:G Lot:G Section:36 Township:25N Range:05W Feet from:1970 N/S Line:N Feet from:2021 E/W Line:E					
		5. Bottom Hole Location: Unit:G Lot:G Section:36 Township:25N Range:05W Feet from:1970 N/S Line:N Feet from:2021 E/W Line:E					
		6. latitude: longitude: 0 0					
		7. County: Rio Arriba					
8. Operator Name and Address: ELM RIDGE EXPLORATION COMPANY LLC PO BOX 156 Bloomfield 87413		9. OGRID: 149052		10. Phone Number: 505-632-3476			
11. Last Fracture Date: 10/27/2013 Frac Performed by: Halliburton		12. Production Type: O					
13. Pool Code(s): 39189		14. Gross Fractured Interval: 7,348 ft to 7,416 ft					
15. True Vertical Depth (TVD): 7,559 ft		16. Total Volume of Fluid Pumped: 76,983 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)	
2% KCL Water	Operator				100%	46.05479%	
CRC SAND	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	18.51518%	
			Hexamethylenetetramine	100-97-0	2%	0.3703%	
			Phenol / formaldehyde resin	9003-35-4	5%	0.92576%	
LGC-36 UC	Halliburton	Liquid Gel Concentrate	Guar gum	9000-30-0	60%	0.17379%	
			Naphtha, hydrotreated heavy	64742-48-9	60%	0.17379%	
BC-200 UC	Halliburton	Crosslinker	Modified alkane	Confidential Business Information	60%	0.06236%	
AQF-2 FOAMING AGENT	Halliburton	Foaming Agent	Ethylene glycol monobutyl ether	111-76-2	30%	0.05175%	
LoSurf-300D	Halliburton	Non-ionic Surfactant	Diethylene glycol	111-46-6	10%	0.01725%	
			1,2,4 Trimethylbenzene	95-63-6	1%	0.00023%	
			Ethanol	64-17-5	60%	0.01409%	
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.00704%	
			Naphthalene	91-20-3	5%	0.00117%	
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5%	0.00117%	
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00248%	
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.00497%	
NITROGEN LIQUEFIED	Halliburton	Fluid	Crystalline silica, quartz	14808-60-7	30%	0.00149%	
Ingredients Listed Below This Line Are Part of the			Nitrogen	7727-37-9	100%	34.83302%	
			2-Ethyl hexanol	104-76-7	0%	0%	
			Alkyl sulfonate	Confidential Business Information	0%	0%	
			Borate salts	Confidential Business Information	0%	0%	
			Butyl alcohol	71-36-3	0%	0%	
			Crystalline silica, quartz	14808-60-7	0%	0%	
			Cured acrylic resin	Confidential Business Information	0%	0%	
			Fatty alcohol polyglycol ether surfactant	9043-30-5	0%	0%	
			Methanol	67-56-1	0%	0%	
			Modified bentonite	Confidential Business Information	0%	0%	
			Organic salt	Confidential Business Information	0%	0%	
			Oxyalkylated phenolic resin	Confidential Business Information	0%	0%	
			Oxyalkylated phenolic resin	Confidential Business Information	0%	0%	
			Propylene carbonate	108-32-7	0%	0%	
			Propylene glycol	57-55-6	0%	0%	
			Quaternary ammonium compounds, bis (hydrogenated tallow alkyl) dimethyl,salts with bentonite	68953-58-2	0%	0%	
			Sodium carbonate	497-19-8	0%	0%	
Sodium sulfate	7757-82-6	0%	0%				
Water	7732-18-5	0%	0%				
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: Amy Mackey Title: Administrative Manager							
Date: 11/18/2013							
E-mail Address: amackey1@elmridge.net							

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.