

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: 30-045-33983	
		2. Well Name: BISTI GALLUP 20 #003	
		3. Well Number: 003	
HYDRAULIC FRACTURING FLUID DISCLOSURE <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment		4. Surface Hole Location: Unit:C Lot:C Section:20 Township:25N Range:12W Feet from:435 N/S Line:N Feet from:2185 E/W Line:W	
		5. Bottom Hole Location: Unit:C Lot:C Section:20 Township:25N Range:12W Feet from:435 N/S Line:N Feet from:2185 E/W Line:W	
		6. latitude: longitude: 36.39275 -108.13629	
		7. County: San Juan	

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: 3/3/2012 Frac Performed by: Halliburton		12. Production Type: O	
13. Pool Code(s): 5890		14. Gross Fractured Interval: 4,760 ft to 4,844 ft	
15. True Vertical Depth (TVD): 5,135 ft		16. Total Volume of Fluid Pumped: 44,781 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%	56.90337%
CRC SAND	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	22.50494%
			Hexamethylenetetramine	100-97-0	2%	0.4501%
			Phenol / formaldehyde resin	9003-35-4	5%	1.12525%
AQF-2 FOAMING AGENT	Halliburton	Foaming Agent	Ethylene glycol monobutyl ether	111-76-2	30%	0.0665%
			Diethylene glycol	111-46-6	10%	0.02217%
BC-140	Halliburton	Crosslinker	Ethylene glycol	107-21-1	30%	0.02306%
			Monoethanolamine borate	26038-87-9	60%	0.04613%
LoSurf-300D	Halliburton	Non-ionic Surfactant	1,2,4 Trimethylbenzene	95-63-6	1%	0.00018%
			Ethanol	64-17-5	60%	0.01088%
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.00544%
			Naphthalene	91-20-3	5%	0.00091%
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5%	0.00091%
ACTIVATOR W	Halliburton	Accelerator	Alcohols, C12-14-secondary, ethoxylated	84133-50-6	60%	0.27919%
			Methanol	67-56-1	60%	0.27919%
LGC-36 UC	Halliburton	Liquid Gel Concentrate	Guar gum	9000-30-0	60%	0.13178%
			Naphtha, hydrotreated heavy	64742-48-9	60%	0.13178%
GBW-30 BREAKER	Halliburton	Breaker	Hemicellulase enzyme	9012-54-8	30%	0.00086%
			Carbohydrates	Confidential Business Information	100%	0.00286%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00158%
			Walnut hulls	Mixture	100%	0.00528%
NITROGEN LIQUEFIED Ingredients Listed Below This Line Are Part of the	Halliburton	Fluid	Nitrogen	7727-37-9	100%	19.58193%
			Alcohols, C12-14-secondary	126950-60-5	0%	0%
			Alkyl sulfonate	Confidential Business Information	0%	0%
			C.I. Pigment Red 5	6410-41-9	0%	0%
			Crystalline silica, quartz	14808-60-7	0%	0%
			Cured acrylic resin	Confidential Business Information	0%	0%
			Cured acrylic resin	Confidential Business Information	0%	0%
			Enzyme	Confidential Business Information	0%	0%
			Fatty alcohol polyglycol ether surfactant	9043-30-5	0%	0%
			Formaldehyde	50-00-0	0%	0%
			Oxyalkylated phenolic resin	Confidential Business Information	0%	0%
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			Polyethylene glycol	25322-68-3	0%	0%
			Quaternary ammonium compounds, bis (hydrogenated tallow alkyl) dimethyl,salts with bentonite	68953-58-2	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: <u>Signed Electronically</u>	Printed Name: <u>Amy Mackey</u>	Title: <u>Administrative Manager</u>
Date: <u>12/2/2013</u>		
E-mail Address: <u>amackey1@elmridge.net</u>		

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.