HYDRAULIC FF DISCLOSURE Soriginal Amendment	E	State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505			urces	Revised November 6, 2013			
Operator Name and Address:	e trapes				9. OGRID:	289408	10. Phone Numb	per: 832-794-1355	
LOGOS OPERATII 4001 N. Butler, Bld					1.00		130000000000000000000000000000000000000		
Farmington 87401 11. Last Fracture Date: 12/21/2015 Frac Performed by: Halliburton					12. Production Type:				
13. Pool Code(s):					O 14. Gross Fractured Interval:				
97232					5,544 ft to 6,915 ft				
15. True Vertical Depth (TVD): 6,915 ft						otal Volume of Fluid Pumped: 48,438 gals			
17. Total Volume of Re-Use Water Pumped:					18. Percent of Re-Use Water in Fluid Pumped:				
0 gals 19. HYDRAULIC FLUID	COMPOSITIO	N AND CONCENTRAT	ION:		%	1			
Trade Name	Supplier	Purpose	Ingredients	(CAS #) Chemic Service #	cal Abstract	Maximum Ingred Concentration in mass)	Additive (% by	Maximum Ingredient Concentration in HF Fluid (% by mass)	
Fresh Water NITROGEN LIQUEFIED	Operator	Base Fluid Fluid	Fresh Water	7732-18-5 NA			100% 0%	56.22449%	
BE-6 MICROBIOCIDE, Cla-	Halliburton Halliburton	Additive, Biocide,	NA NA	NA NA		1	0%	0%	
Web(TM), HC-2, LOSURF- 300D,		Breaker, Gelling	1,2,4	95-63-6			1%	0.00023%	
		Agent, Microbiocide, Non-ionic Surfactant,	Trimethylbenzene 2-Bromo-2-	52-51-7			100%	0.0015%	
		Proppant	nitro-1,3-propanediol				10070	0.001370	
		G1940 (10.17 b 10.07)	Amine salts	Confidential Confidential			0.1%		
			Ammonium salt Bentonite, benzyl (hydrogenated tallow alkyl) dimethylammonium	121888-68-4			60% 5%	0.01608% 0.00817%	
			stearate complex C.I. Pigment Red 5	6410-41-9			1%	7E-05%	
			Crystalline silica,	14808-60-7		1	100%	22.85715%	
			quartz	14808-60-7			0.40/	0.000460/	
			Crystalline Silica, Quartz				0.1%	0.00016%	
			Cured acrylic resin	Confidential			30%		
			Enzyme Ethanol	Confidential 64-17-5			5% 60%		
			Glycerine	56-81-5			5%		
			Guar gum	9000-30-0			100%	0.16345%	
			Heavy aromatic petroleum naphtha	64742-94-5			30%	0.00692%	
			Inner salt of alkyl	Proprietary 91-20-3			30%	0.05648%	
			amines Naphthalene			+	5%	0.00115%	
			Nitrogen	7727-37-9		1	100%		
			Oxyalkylated	Confidential			30%		
			phenolic resin Poly (oxy-1,2-ethanediyl), alpha-(4-nonylphenyl) -omega-hydroxy-,	127087-87-0			5%	0.00115%	
			branched Quaternary amine	Confidential 112926-00-8 7647-14-5 7775-27-1 7757-82-6 Confidential			5%	0.00164%	
			Silica gel				1%		
			Sodium chloride Sodium persulfate				30% 100%		
			Sodium sulfate				0.1%	1E-05%	
			Surfactant mixture			4	1%	0.00327%	
			Walnut hulls Water	NA 7732-18-5		+	100% 60%		
20. I, as Operator, hereby certify the		Y . W	e and complete to the best of		and belief.				
Date: 2/1/2016	lectronically	Printed Name: Tam	ra Sessions			Title: Opera	tions Techniciar	1	
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MOCD does not require the report	ting of information be	yond MSDS data as described in :	29 CFR 1910.1200. NMOCE	does not require	the reporting o	r disclosure of propri	etary, trade secret	or confidential business information	