

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: 30-025-40828							
		2. Well Name: GREEN FROG CAFE FEDERAL #001H							
		3. Well Number: 001H							
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:N Lot:B Section:18 Township:20S Range:33E Feet from:810 N/S Line:N Feet from:2310 E/W Line:E							
		5. Bottom Hole Location: Unit:N Lot:B Section:17 Township:20S Range:33E Feet from:820 N/S Line:N Feet from:2030 E/W Line:E							
		6. Latitude: 32.5781874836751 Longitude: -103.70158502806							
		7. County: Lea							
8. Operator Name and Address: MANZANO LLC PO BOX 2107 ROSWELL 882022107		9. OGRID: 231429		10. Phone Number:					
11. Last Fracture Date: 2/27/2013 Frac Performed by: Halliburton		12. Production Type: O							
13. Pool Code(s): 53560		14. Gross Fractured Interval: 10,417 ft to 14,130 ft							
15. True Vertical Depth (TVD): 10,104 ft		16. Total Volume of Fluid Pumped: 2,173,076 gals							
17. Total Volume of Re-Use Water Pumped: 0 gals		18. Percent of Re-Use Water in Fluid Pumped: %							
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)			
Fresh Water	Operator				100%	86.18117%			
Premium White-20/40	Halliburton				100%	11.11024%			
CRC-20/40	Halliburton				100%	2.22697%			
LOSURF-360W	Halliburton	Surfactant	Poly(oxy-1,2-ethanediyl), alpha.-isodecyl-, omega.-hydroxy- Complex alkylamine	61827-42-7	30%	0.05971%			
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00995%			
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polyeppichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.00499%			
CLA-WEB™	Halliburton	Additive	Ammonium salt	Confidential Business Information	60%	0.04135%			
FR-38	Halliburton	Friction Reducer	Acetic acid Ammonium sulfate Inorganic Salt	64-19-7 Confidential Business Information	5% 30%	0.00032% 0.00195%			
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	0.0002%			
BC-140 X2	Halliburton	Initiator	Ethylene glycol Monoethanolamine borate	107-21-1 26038-87-9	30% 100%	0.01695% 0.05651%			
SUPERSET W	Halliburton	Activator	Methanol Ethoxylated nonylphenol	67-56-1 Confidential Business Information	60% 60%	0.01622% 0.01622%			
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.00185%			
BA-20 BUFFERING AGENT	Halliburton	Buffer	Acetic acid Ammonium acetate	64-19-7 631-61-8	30% 100%	0.00042% 0.0014%			
OptiKleen-WF™	Halliburton	Concentrate	Sodium perborate tetrahydrate	10486-00-7	100%	0.00047%			
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.25455%			
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz Walnut hulls	14808-60-7	30% 100%	0.00279% 0.00931%			
Scalechek® SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.02707%			
Ingredients Listed Below This Line Are Part of the			1,2-Benzisothiazolin-3-one	2634-33-5	0%	0%			
			2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfor-1-naphthalenyl) azo] -, trisodium salt	915-67-3	0%	0%			
			Acrylamide copolymer	108388-79-0	0%	0%			
			Amine Salt	64-02-8	0%	0%			
			Amine Salts	75-57-0	0%	0%			
			Amine Salts	593-81-7	0%	0%			
			Bentonite, benzyl (hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	0%	0%			
			C.I. Pigment Red 5	6410-41-9	0%	0%			
			Calcium chloride	10043-52-4	0%	0%			
			Crystalline Silica, Quartz	14808-60-7	0%	0%			
			Cured Acrylic Resin	Mixture	0%	0%			
			Cured Acrylic Resin	9002-98-6	0%	0%			
			Defoamer	63148-62-9	0%	0%			
			Enzyme	37288-54-3	0%	0%			
			Enzyme	9025-56-3	0%	0%			
			Glycerine	56-81-5	0%	0%			
			Modified acrylamide copolymer	153568-80-0	0%	0%			
			Modified acrylate polymer	54076-97-0	0%	0%			
			Quaternary Amine	34004-36-9	0%	0%			
			Quaternary Amine	3327-22-8	0%	0%			
			Quaternary Amine	75-50-3	0%	0%			
			Silica gel	112926-00-8	0%	0%			
			Silica, amorphous - fumed	7631-86-9	0%	0%			
			Sodium acetate	127-09-3	0%	0%			
			Sodium Chloride	7647-14-5	0%	0%			
			Surfactant Mixture	67254-71-1	0%	0%			
			Surfactant Mixture	56449-46-8	0%	0%			
			Trimethylamine, N-oxide	1184-78-7	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: Debbi Jeffers Title: Lease analyst						
			Date: 11/12/2013						
			E-mail Address: anna-marie@manzanoenergy.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.