

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: 30-015-41252				
		2. Well Name: MERIDIAN FEDERAL COM #002H				
		3. Well Number: 002H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:D Lot:4 Section:3 Township:20S Range:29E Feet from:330 N/S Line:N Feet from:660 E/W Line:W				
		5. Bottom Hole Location: Unit:D Lot:4 Section:3 Township:20S Range:29E Feet from:990 N/S Line:N Feet from:330 E/W Line:E				
		6. Latitude: 32.6090096317194 Longitude: - 104.069339534823				
		7. County: Eddy				
8. Operator Name and Address: MANZANO LLC PO BOX 2107 ROSWELL 882022107		9. OGRID: 231429		10. Phone Number:		
11. Last Fracture Date: 6/21/2013 Frac Performed by: Halliburton		12. Production Type: O				
13. Pool Code(s): 49622		14. Gross Fractured Interval: 8,400 ft to 11,998 ft				
15. True Vertical Depth (TVD): 8,177 ft		16. Total Volume of Fluid Pumped: 1,535,184 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%	80.26932%
HYDROCHLORIC ACID 10-30%	Halliburton		Hydrochloric acid	7647-01-0	30%	0.40586%
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	1.79301%
SAND - PREMIUM BROWN	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	13.48843%
CRC SAND	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	2.6393%
			Hexamethylenetetramine	100-97-0	2%	0.05279%
			Phenol / formaldehyde resin	9003-35-4	5%	0.13197%
FR-66	Halliburton	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8	30%	0.00193%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00314%
CLA-WEB™	Halliburton	Additive	Ammonium salt	Confidential Business Information	60%	0.02621%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.01266%
			Monoethanolamine borate	26038-87-9	100%	0.04219%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.02913%
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.02913%
LOSURF-360W	Operator	Surfactant	Poly(oxy-1,2-ethanediyl), alpha - isodecyl-omega -hydroxy -	61827-42-7	30%	0.02%
			Glycerine	56-81-5	10%	0.00667%
			Complex Alkylamine	Confidential Business Information	5%	0.00333%
OptiKleen-WF™	Halliburton	Concentrate	Sodium perborate tetrahydrate	10486-00-7	100%	0.00094%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.20073%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00126%
			Walnut hulls	Mixture	100%	0.00418%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00094%
Ingredients Listed Below This Line Are Part of the			2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfor-1-naphthalenyl) azo] -, trisodium salt	915-67-3	0%	0%
			Alcohols, C12-16, ethoxylated	68551-12-2	0%	0%
			Amine Salts	75-57-0	0%	0%
			Amine Salts	593-81-7	0%	0%
			Ammonium chloride	12125-02-9	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%
			Crystalline Silica, Quartz	14808-60-7	0%	0%
			Cured Acrylic Resin	Mixture	0%	0%
			Cured Acrylic Resin	9002-98-6	0%	0%
			Enzyme	9025-56-3	0%	0%
			Oxyalkylated Phenolic Resin	29316-47-0	0%	0%
			Oxyalkylated Phenolic Resin	63428-92-2	0%	0%
			Polyacrylamide Copolymer	62649-23-4	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%
			Sodium chloride	7647-14-5	0%	0%
			Sodium sulfate	7757-82-6	0%	0%
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	0%	0%
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	0%	0%
			Surfactant Mixture	67254-71-1	0%	0%
			Surfactant Mixture	56449-46-8	0%	0%
			Tall oil acid diethanolamide	68155-20-4	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.