

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: 30-041-20971		
				2. Well Name: TUPELO HONEY 27 COM #005H		
		3. Well Number: 005H				
HYDRAULIC FRACTURING FLUID DISCLOSURE <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment		4. Surface Hole Location: Unit:L Lot:L Section:27 Township:06S Range:34E Feet from:2400 N/S Line:S Feet from:528 E/W Line:W				
		5. Bottom Hole Location: Unit:L Lot:L Section:27 Township:06S Range:34E Feet from:2400 N/S Line:S Feet from:528 E/W Line:W				
		6. latitude: 33.7659096 longitude: -103.4596873				
		7. County: Roosevelt				
8. Operator Name and Address: MANZANO LLC P.O. Box 1737 Roswell 88202		9. OGRID: 231429		10. Phone Number: 575-623-1996		
11. Last Fracture Date: 6/20/2017 Frac Performed by: Cudd		12. Production Type: O				
13. Pool Code(s): 46950		14. Gross Fractured Interval: 4,850 ft to 11,670 ft				
15. True Vertical Depth (TVD): 4,215 ft		16. Total Volume of Fluid Pumped: 4,997,348 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)
Water		Carrier / Base Fluid		7732-18-5	100%	84.44423%
Sand		Proppant	Silicon Dioxide	14808-60-7	100%	9.61686%
Super DC/LC TLC/THS Opti RCS	Sandtrol	Proppant	Silicon Dioxide	14808-60-7	97%	0.87196%
			P/F Novolak Resin	9003-35-4	5%	0.04495%
			Hexamethylenetetramine	1009-7-0	1%	0.00899%
FR-601	SNF	Friction Reducer	Copolymer of acrylamide and sodium acrylate	25987-30-8	10%	0.00618%
			Isoparaffinic Solvent	64742-47-8	10%	0.00618%
			Water	7732-18-5	60%	0.3706%
			Nonylphenol	9016-45-9	10%	0.00618%
			Sorbitan Monooleate	1338-43-8	10%	0.00618%
15% Hydrochloric Acid	Reagent	Scale Dissolver	37% Hydrochloric Acid	7647-01-0	15%	0.70538%
			Water	7732-18-5	85%	3.9714%
SG-15G	Multiple Suppliers	Polymer	Guar Gum	9000-30-0	50%	0.04612%
			Petroleum Distillate(Mineral Oil)	64742-47-8	55%	0.05073%
			Bentonite Clay	14808-60-7	2%	0.00184%
			Surfactant	68439-51-0	2%	0.00184%
XL-335	PIP Technology	Crosslinker	Sodium Metaborate	7775-19-1	40%	0.00218%
			Glycerol	56-81-5	45%	0.00245%
GB-2	Multiple Suppliers	Breaker	Ammonium Persulfate	7727-54-0	99.9%	0.00149%
FE-4	Multiple Suppliers	Iron Control Additive	Citric Acid Anhydrous	77-92-9	55%	0.01437%
			Water	7732-18-5	55%	0.01437%
FR-620	SNF	Friction Reducer	Distillates(petroleum), Hydrotreated light	64742-47-8	30%	0.00341%
			Alcohols, C-12-14-iso-, C13-rich, ethoxylated	78330-21-9	5%	0.00057%
			Poly(acrylamide and Adam methyl Chloride)	69418-26-4	31%	0.00352%
			Isoparaffinic Solvent	64742-47-8	26%	0.00295%
			Water	7732-18-5	35%	0.00397%
			Sorbitan Monooleate	1338-43-8	3%	0.00034%
			Inverting Surfactant	Proprietary	5%	0.00057%
MCS-376	Ace Completions	Surfactant	Diethanolamine	111-42-2	1%	0.00088%
			Solvent Naptha(Petroleum), Heavy	64742-94-5	1%	0.00088%
			Alcohol	68609-68-7	5%	0.00438%
			Isotridecanol, ethoxylated	9043-30-5	5%	0.00438%
			Poly(oxy-1,2-ethanediyl), alpha hexyl-omega-hydroxy-	31726-34-8	5%	0.00438%
			Coconut diethanolamide	68603-42-9	8%	0.007%
			Proprietary	NA	15%	0.01313%
			Ethylene Oxide/propylene oxide co-polymer	9003-11-6	10%	0.00875%
			Water	7732-18-5	75%	0.06565%
SI-625	Ace Completions	Scale Inhibitor	Diethylenetriamine penta methy phosphoric acid sodium salts	22042-96-2	20%	0.0093%
			Potassium Hydroxide solution	1310-58-3	2%	0.00093%
			Water	7732-18-5	90%	0.04187%
I-123	Finoric	Corrosion Inhibitor	Ethylene Glycol	107-21-1	40%	0.00199%
			N,N-Dimethylformamide	68-12-2	20%	0.001%
			1-Decanol	112-30-1	10%	0.0005%
			2-Butoxyethanol	111-76-2	10%	0.0005%
			Cinnamaldehyde	104-55-2	10%	0.0005%
			Ethoxylated Nonylphenol	68412-54-4	10%	0.0005%
			Tar based, quinoline derived, benzyl chloride-quaternized	72480-70-7	10%	0.0005%
			1-Octanol	111-87-5	2.5%	0.00012%
			Isopropyl Alcohol	67-63-0	2.5%	0.00012%
			Triethyl Phosphate	78-40-0	2.5%	0.00012%
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>Lori Pack</u>		Title: <u>Production Analyst</u>		
Date: <u>6/27/2017</u>						
E-mail Address: <u>anna-marie@manzanoenergy.com</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.