

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: 30-025-33681				
		2. Well Name: COLE STATE #007				
		3. Well Number: 007				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:H Lot:H Section:16 Township:22S Range:37E Feet from:2300 N/S Line:N Feet from:920 E/W Line:E				
		5. Bottom Hole Location: Unit:H Lot:H Section:16 Township:22S Range:37E Feet from:2300 N/S Line:N Feet from:920 E/W Line:E				
		6. Latitude: 32.3927850094873 Longitude: - 103.162392286827				
		7. County: Lea				
8. Operator Name and Address: VANGUARD PERMIAN, LLC 5847 San Felipe, Suite 3000 Houston 77057		9. OGRID: 258350		10. Phone Number: 832-327-2252		
11. Last Fracture Date: 8/24/2013 Frac Performed by: Baker Hughes		12. Production Type: O				
13. Pool Code(s): 50350		14. Gross Fractured Interval: Confidential				
15. True Vertical Depth (TVD): 3,722 ft		16. Total Volume of Fluid Pumped: 55,776 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)
Water	Operator	Carrier	Water	7732-18-5	100%	79.07236%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.61641%
			Water	7732-18-5	85%	3.49299%
Superset-W, 55 gal drum	Baker Hughes	Activator	Methanol	67-56-1	50%	0.04709%
			Poly (Oxyethylene) Nonylphenol Ether	9016-45-9	50%	0.04709%
Superset-W, 330 gl tote	Baker Hughes	Activator	Methanol	67-56-1	50%	0.00258%
			Poly (Oxyethylene) Nonylphenol Ether	9016-45-9	50%	0.00258%
X-Cide 207	Baker Hughes	Biocide	2-Methyl-4-Isothiazolin-3-One	2682-20-4	5%	0.0002%
			5-Chloro-2-Methyl-4-Isothiazolin-3-One	26172-55-4	10%	0.00041%
			Crystalline Silica: Cristoballite	14464-46-1	1%	4E-05%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	4E-05%
			Diatomaceous Earth, Calcined	91053-39-3	60%	0.00245%
			Magnesium Chloride	7786-30-3	5%	0.0002%
			Magnesium Nitrate	10377-60-3	10%	0.00041%
Alpha 125	Baker Hughes	Biocide	Water	7732-18-5	75%	0.02257%
GBW-5	Baker Hughes	Breaker	Ammonium Phosphate	7727-54-0	100%	0.0017%
BC-3	Baker Hughes	Breaker Catalyst	Contains non-hazardous ingredients which are listed in in the non-MSDS section of the report	NA	0%	0%
CI-27	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	30%	0.00227%
			Methanol	67-56-1	60%	0.00454%
			Olefin	Trade Secret	5%	0.00038%
			Polyoxyalkylenes	Trade Secret	30%	0.00227%
			Propargyl Alcohol	107-19-7	10%	0.00076%
			Thiourea Polymer	68527-49-1	30%	0.00227%
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30%	0.0241%
			Sodium Hydroxide	1310-73-2	10%	0.00803%
			Sodium Tetraborate Decahydrate	1303-96-4	30%	0.0241%
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60%	0.33097%
			Petroleum Distillate Blend (1)	64742-47-8	70%	0.38613%
			Petroleum Distillate Blend (3)	8042-47-5	70%	0.38613%
			Petroleum Distillate Blend (2)	64742-55-8	70%	0.38613%
Ferrotrol 280L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.04995%
			Ammonium Hydroxide	1336-21-6	5%	0.0025%
			Cupric Chloride	7447-39-4	5%	0.0025%
NE-23, 55 gallon drum	Baker Hughes	Non-emulsifier	Isopropanol	67-63-0	30%	0.02387%
Sand, Brown, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	9.46677%
Super LC, 20/40	Baker Hughes	Proppant	Hexamethylenetetramine	100-97-0	0.01%	0.00052%
			P/F Resin	9003-35-4	5%	0.26066%
			Silicon Dioxide (Silica Sand)	14808-60-7	97%	5.05673%
Ingredients shown above are subject to 29 CFR 1910			Acetyl Triethyl Citrate	77-89-4	0%	0.0899799%
			Benzyl Chloride	100-44-7	0%	0.0007958%
			Ethoxylated Nonylphenol	9016-45-9	0%	0.0039791%
			Formaldehyde	50-00-0	0%	3.8E-06%
			Glutaraldehyde	111-30-8	0%	0.0090286%
			Glycol Ether	Trade Secret	0%	0.0039791%
			Methanol	67-56-1	0%	7.52E-05%
			Olefin Sulfonate	Trade Secret	0%	0.0477496%
			Polyester	Trade Secret	0%	0.0119374%
			Quaternary Amine Compounds	Trade Secret	0%	0.0238748%
			Sodium Chloride	7647-14-5	0%	3.78E-05%
			Water	7732-18-5	0%	0.0778451%
	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: Randall Hicks		Title: Sr Operations Engineer				
Date: 3/20/2014						
E-mail Address: rhicks@vnrllc.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.