

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: 30-025-37399				
		2. Well Name: COLE STATE #017				
		3. Well Number: 017				
HYDRAULIC FRACTURING FLUID DISCLOSURE <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment		4. Surface Hole Location: Unit:F Lot:F Section:16 Township:22S Range:37E Feet from:1650 N/S Line:N Feet from:2310 E/W Line:W				
		5. Bottom Hole Location: Unit:F Lot:F Section:16 Township:22S Range:37E Feet from:1650 N/S Line:N Feet from:2310 E/W Line:W				
		6. latitude: longitude: 32.3945662929436 -103.168963529869				
		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: 6/13/2014 Frac Performed by: CUDD		12. Production Type: O				
13. Pool Code(s): 50350		14. Gross Fractured Interval: 3,492 ft to 3,808 ft				
15. True Vertical Depth (TVD): 4,265 ft		16. Total Volume of Fluid Pumped: 97,579 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		Carrier / Base Fluid		7732-18-5	100%	83.68607%
Sand		Proppant	Silicon Dioxide	14808-60-7	100%	11.35609%
B-24	Weatherfork	Biocide	2,2 Dibromo-3-Nitrilopropionamide	10222-01-2	100%	0.00051%
CS-14	Chemplex, L.C.	Clay Control	Non-hazardous salts (Choline)	Proprietary	66%	0.05746%
SG-15G	PiP Technology	Polymer	Water	7732-18-5	45%	0.03918%
			Guar Gum	9000-30-0	50%	0.23389%
			Petroleum Distillate (Mineral Oil)	64742-47-8	55%	0.25728%
			Bentonite Clay	14808-60-7	2%	0.00936%
XL-335	ASK	Crosslinker	Surfactant	68439-51-0	2%	0.00936%
			Ethylene Glycol	107-21-1	25%	0.02424%
			Potassium Hydroxide	1310-58-3	25%	0.02424%
			Proprietary	Proprietary	25%	0.02424%
BC-1	Benchmark	Breaker Catalyst	Proprietary	Proprietary	15%	0.01454%
			Proprietary	Proprietary	10%	0.0097%
			Triethanolamine	102-71-6	100%	0.0538%
			Diethanolamine	111-42-2	30%	0.01614%
GB-2	Fritz Industries, Inc.	Breaker	Ammonium Persulfate	7727-54-0	99.9%	0.00566%
NE-227	CESI	Non-emulsifier	Isopropanol	67-63-0	15%	0.01176%
			Methanol	67-56-1	15%	0.01176%
			Ethoxylated Nonylphenol	9016-45-9	20%	0.01568%
Garnett,Pearl RCS	Preferred Sands	RCS Proppants	Quartz(SiO2)	14808-60-7	98%	4.08432%
			Polyurethane Resin	Proprietary	5%	0.20838%
			Colorant	Proprietary	1%	0.04168%
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: 9/23/2014						
E-mail Address: rhicks@vnrlc.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.