

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 February 15, 2012				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		1. WELL API NO. 30-025-40749				
		2. Well Name: ENCORE M STATE #009				
		3. Well Number: 009				
		4. Surface Hole Location: Unit:D Lot:D Section:20 Township:22S Range:37E Feet from:468 N/S Line:N Feet from:300 E/W Line:W				
5. Bottom Hole Location: Unit:D Lot:D Section:20 Township:22S Range:37E Feet from:468 N/S Line:N Feet from:300 E/W Line:W		6. latitude: 32.383296026249 longitude: -103.192586748566				
7. County: Lea						
8. Operator Name and Address: QUANTUM RESOURCES MANAGEMENT, LLC 1401 McKinney St Suite 2400 Houston 77010		9. OGRID: 243874	10. Phone Number: 713-634-4696			
11. Last Fracture Date: 11/2/2012 Frac Performed by: Cudd Energy Services		12. Production Type: O				
13. Pool Code(s): 6660, 19190		14. Gross Fractured Interval: 5,489 ft to 6,690 ft				
15. True Vertical Depth (TVD): 6,874 ft		16. Total Volume of Fluid Pumped: 196,295 gals				
17. 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%	81.49653%
Sand		Proppant	Silicon Dioxide	14808-60-7	100%	9.54678%
Super LC RCS	Sandtrol	Proppant	Silicon Dioxide	14808-60-7	97%	4.75301%
			P/F Novolak Resin	9003-35-4	5%	0.245%
			Hexamethylenetetramine	1009-7-0	0%	0%
			2,2 Dibromo-3-Nitrilopropionamide	10222-01-2	100%	0.00103%
B-24	Weatherfork	Biocide	Potassium Hydroxide	1310-58-3	25%	0.02292%
BF-200	ASK	Buffer	Water	7732-18-5	80%	0.07335%
			Non-hazardous salts (Choline)	Proprietary	66%	0.05534%
CS-14	Chemplex, L.C.	Clay Control	Water	7732-18-5	45%	0.03773%
			36% Hydrochloric Acid	7647-01-0	15%	0.46858%
15% Hydrochloric Acid	Reagent	Scale Dissolver	Water	7732-18-5	85%	2.65531%
I-122	Chemplex,L.C.	Acid Corrosion Inhibitor	Methonol	67-56-1	70%	0.001%
			Propargyl alcohol	107-19-7	8%	0.0002%
			Alcohol Ethoxylate	Trade Secret	30%	0.00075%
			n-olefins	Trade Secret	10%	0.00025%
			thiourea-formaldehyde copolymer	68527-49-1	30%	0.00075%
SG-15G	P/P Technology	Polymer	Guar Gum	9000-30-0	50%	0.24133%
			Petroleum Distillate (Mineral Oil)	64742-47-8	55%	0.26547%
			Bentonite Clay	14808-60-7	2%	0.00965%
			Surfactant	68439-51-0	2%	0.00965%
					0%	0%
CX-10	Benchmark	Crosslinker	Sodium Borate Decahydrate	1303-96-4	29.9%	0.02513%
			Water	7732-18-5	69.1%	0.05807%
GB-2	Fritz Industries, Inc.	Breaker	Ammonium Persulfate	7727-54-0	99.9%	0.00822%
GB-150	Chemplex, L.C.	Breaker	Non-hazardous ingredients	NA	100%	0.05572%
NE-212	Chemplex, L.C.	Non-emulsifier	Isopropanol	67-63-0	5%	0.00025%
			Methanol	67-56-1	50%	0.00252%
			Alkyl Quanternary Ammonium Chlorides	Mixture	25%	0.00126%
			Diethanolamine	111422	2%	5E-05%
			1,3-Propanediol, 2-amino-2-(hm)-polymer	Trade Secret	8%	0.0004%
			2-Butoxy-1-ethanol	111-76-2	7%	0.00035%
			Cocamide	68603-42-9	2%	0.0001%
			Diethanolamine Salt			
FE-360	Chemplex, L.C.	Iron Control Additive	Cupric Chloride Dihydrate	10125-13-0	7%	0.00067%
S-222	Chemplex, L.C.	Flouro Surfactant	Thioglycol	60-24-2	80%	0.00767%
			Methanol	67-56-1	100%	0.07143%
Superset W	Santrol	Resin Activator	Methanol	67-56-1	50%	0.01851%
			Poly(oxyethylene) nonyphenol ether	9016-45-9	54%	0.01999%
18. 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: Celeste G Dale Title: Sr. Regulatory Analyst						
Date: 10/8/2013						
E-mail Address: cdale@gracq.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.