

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				
		1. WELL API NO: 30-025-40180				
		2. Well Name: RANGER FEDERAL #001				
		3. Well Number: 001				
HYDRAULIC FRACTURING FLUID DISCLOSURE <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment		4. Surface Hole Location: Unit:D Lot:4 Section:1 Township:18S Range:32E Feet from:990 N/S Line:N Feet from:990 E/W Line:W				
		5. Bottom Hole Location: Unit:D Lot:4 Section:1 Township:18S Range:32E Feet from:990 N/S Line:N Feet from:990 E/W Line:W				
		6. Iatitute: longitude: 32.7809592613382 - 103.72520836168				
		7. County: Lea				
8. Operator Name and Address: MACK ENERGY CORP PO Box 960 11344 Lovington Hwy Artesia 88211		9. OGRID: 13837		10. Phone Number: 575-748-1288		
11. Last Fracture Date: 5/10/2013 Frac Performed by: Elite Well Services LLC		12. Production Type: O				
13. Pool Code(s): 65350		14. Gross Fractured Interval: 7,778 ft to 7,929 ft				
15. True Vertical Depth (TVD): 9,365 ft		16. Total Volume of Fluid Pumped: 20,289 bbls				
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	Water	7732-18-5	100%	85.97977%
Sand (Proppant)		Proppant	Silicon Dioxide	14808-60-7	100%	3.15497%
Ferriplex 66	Chemplex, LC	Iron Control	Acetic Acid	64-19-7	50%	0.00029%
			Citric Acid	77-92-9	30%	0.00017%
			Water	7732-18-5	35%	0.0002%
Greenhib 679	Chemplex, LC	Scale Inhibitor	Glycerine	56-81-5	35%	0.01785%
			Trade Secret	Trade Secret	35%	0.01785%
			Water	7732-18-5	50%	0.02549%
Plexbreaker 150	Chemplex, LC	Non-Emulsifier	Cocamide Diethanolamine Salt	68603-42-9	30%	3E-05%
			Diethanolamine	111-42-2	20%	2E-05%
			Methyl Alcohol	67-56-1	50%	5E-05%
			Trade Secret	Trade Secret	5%	0%
Plexcide 24B	Chemplex, LC	Biocide	Tetrahydro-3,5-Dimethyl-2H, 1,3,5-Thiadiazine-2-Thione	533-73-2	24%	0.00578%
			Sodium Hydroxide	1310-73-2	12%	0.00289%
			Water	7732-18-5	72%	0.01733%
			Methyl Alcohol	67-56-1	70%	0.00012%
Plexhib 256	Chemplex, LC	Corrosion Inhibitor	Propargyl Alcohol	107-19-7	8%	1E-05%
			Thioreaa-Formaldehyde Copolymer	68527-49-1	30%	5E-05%
			Alcohol Ethoxylate Surfactants	Trade Secret	30%	5E-05%
			N-Olefins	Trade Secret	10%	2E-05%
			Hydrotreated Petroleum Distillate	64742-47-8	30%	0.0342%
			Polyacrylamide-Co-Acrylic Acid	9003-06-9	32%	0.03648%
Plexslick 921 E	Chemplex, LC	Friction Reducer	Water	7732-18-5	35%	0.0399%
			Alcohol Ethoxylate Surfactants	Trade Secret	8%	0.00912%
			Methyl Alcohol	67-56-1	20%	2E-05%
			Alcohol Ethoxylate Surfactants	Trade Secret	20%	2E-05%
Plexsurf 240 E	Chemplex, LC	Surfactant	Water	7732-18-5	80%	8E-05%
			36% Hydrochloric Acid	7647-01-0	38%	0.00552%
			Water	7732-18-5	62%	0.009%
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: Deana Weaver Title: Production Clerk						
Date: 5/13/2013						
E-mail Address: deanap@mackenergycorp.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.						