

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: 30-015-40928				
		2. Well Name: RAZORBACK FEDERAL #005				
		3. Well Number: 005				
HYDRAULIC FRACTURING FLUID DISCLOSURE <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment		4. Surface Hole Location: Unit:E Lot:E Section:3 Township:18S Range:31E Feet from:1650 N/S Line:N Feet from:330 E/W Line:W				
		5. Bottom Hole Location: Unit:E Lot:E Section:3 Township:18S Range:31E Feet from:1650 N/S Line:N Feet from:330 E/W Line:W				
		6. Latitude: Longitude: 32.7793081177062 - 103.864924123089				
		7. County: Eddy				
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: 4/17/2013 Frac Performed by: Elite Well Service				12. Production Type: O		
13. Pool Code(s): 58060				14. Gross Fractured Interval: 4,601 ft to 4,681 ft		
15. True Vertical Depth (TVD): 5,619 ft				16. Total Volume of Fluid Pumped: 3,187 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%	79.95546%
Sand (Proppant)		Proppant	Silicon Dioxide	14808-60-7	100%	14.72563%
RCS (Proppant)		Proppant	Silicon Dioxide	14808-60-7	100%	3.6327%
AMA-398	Chemplex, LC	Biocide	Tetrahydro-3, 5-Dimethyl-2H-1,3,5-Thiadiazine-2-Thione	533-74-4	98%	0.02048%
Ammonium Persulfate	Chemplex, LC	Gel Breaker	Ammonium Persulfate	7727-54-0	98%	0.00351%
Claymax	Chemplex, LC	Clay Stabilizer	Choline Chloride	67-48-1	62%	0.05384%
Greenhib 679	Chemplex, LC	Scale Inhibitor	Water	7732-18-5	38%	0.033%
			Glycerine	56-81-5	35%	0.03971%
			Trade Secret	Trade Secret	35%	0.03971%
Plexbor 101	Chemplex, LC	Crosslinker	Water	7732-18-5	50%	0.05673%
			Ethylene Glycol	107-21-1	9.99%	0.01081%
			Potassium Metaborate	13709-94-9	30%	0.03247%
Plexbreaker 150	Chemplex, LC	Non-Emulsifier	Potassium Hydroxide	1310-58-3	5%	0.00541%
			Water	7732-18-5	75%	0.08118%
			Cocamide Diethanolamine Salt	68603-42-9	30%	0.02237%
			Diethanolamine	111-42-2	20%	0.01491%
Plexgel Breaker 10L	Chemplex, LC	Gel Breaker	Methyl Alcohol	67-56-1	50%	0.03728%
			Trade Secret	Trade Secret	5%	0.00373%
			Mannanase Enzymes	Trade Secret	2%	0.00075%
Plexset 730	Chemplex, LC	Activator	Sodium Chloride	7647-14-5	15%	0.00564%
			Water	7732-18-5	90%	0.03386%
			Secondary Alcohol Ethoxylate	84133-50-6	60%	0.02224%
Plexsurf 240 E	Chemplex, LC	Surfactant	Methyl Alcohol	67-56-1	50%	0.01853%
			Methyl Alcohol	67-56-1	20%	0.01497%
			Alcohol Ethoxylate Surfactants	Trade Secret	20%	0.01497%
			Water	7732-18-5	80%	0.05987%
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	
Date:		4/18/2013		Title: Production Clerk		
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.