

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: 30-025-41134				
		2. Well Name: BLACK JACK STATE #002				
		3. Well Number: 002				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:J Lot:J Section:18 Township:18S Range:35E Feet from:2310 N/S Line:S Feet from:2310 E/W Line:E				
		5. Bottom Hole Location: Unit:J Lot:J Section:18 Township:18S Range:35E Feet from:2310 N/S Line:S Feet from:2310 E/W Line:E				
		6. latitude: 32.7469456934371 longitude: - 103.495877891164				
		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: 2/14/2014 Frac Performed by: Elite Well Services LLC		12. Production Type: O				
13. Pool Code(s): 97930		14. Gross Fractured Interval: 9,484 ft to 9,601 ft				
15. True Vertical Depth (TVD): 9,898 ft		16. Total Volume of Fluid Pumped: 33,142 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		Carrie Base Fluid		7732-18-5	100%	96.09744%
Sand Proppant		Proppant	Silicon Dioxide	14808-60-7	100%	2.47174%
Greenhib 679	Chemplex, LC	Scale Inhibitor	Glycerine	56-81-5	35%	0.04208%
			Trade Secret	Trade Secret	35%	0.04208%
			Water	7732-18-5	50%	0.06012%
15% Hydrochloric Acid	CNR	Acid	36% Hydrochloric Acid	7647-01-0	18.8%	0.00389%
			Water	7732-18-5	81.2%	0.0168%
Plexslick 953	Chemplex, LC	Friction Reducer	Alcohol Ethoxylate Surfactants	Trade Secret	8%	0.01207%
			Hydrotreated Petroleum Distillate	64742-47-8	30%	0.04526%
			Water	7732-18-5	31%	0.04676%
			Polyacrylamide-Co-Acreytic Acid	9003-06-9	31%	0.04676%
4-N-1	Chemplex, LC	Acidizing Agent	2 Ethythexanol	104-76-7	10%	0.00014%
			Acetic Acid	64-19-7	85%	0.0012%
			Alcohol Ethoxylate Surfactants	Trade Secret	2%	3E-05%
			Cocamide Diethanolamine Salt	68603-42-9	2%	3E-05%
			Diethanolamine	111-42-2	2%	3E-05%
			Methyl Alcohol	67-56-1	0.1%	0.00014%
			N-Olefins	Trade Secret	0.01%	1E-05%
			Propargyl Alcohol	107-19-7	0.01%	1E-05%
			Thiourea-Formaldehyde Copolymer	68527-49-1	0.02%	3E-05%
			Plexcide 24L	Chemplex, LC	Biocide	Tetrahydro-3, 5-Dimethyl-2H-1,3,5-Thiadiazine 2 Thione
Sodium Hydroxide	1310-73-2	12%	0.00324%			
Water	7732-18-5	72%	0.01946%			
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: <u>Signed Electronically</u> Printed Name: <u>Deana Weaver</u>		Title: <u>Production Clerk</u>				
Date: <u>2/18/2014</u>						
E-mail Address: <u>deanap@mackenergycorp.com</u>						

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.