

Submit within 45 days of well completion

Revised February 15, 2012

**State of New Mexico
Energy, Minerals and
Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505**

1. WELL API NO.
30-015-406392. Well Name:
RAZORBACK FEDERAL #0023. Well Number:
002**HYDRAULIC FRACTURING FLUID DISCLOSURE** Original Amendment4. Surface Hole Location:
Unit:D Lot:4 Section:3 Township:18S Range:31E
Feet from:330 N/S Line:N
Feet from:330 E/W Line:W5. Bottom Hole Location:
Unit:D Lot:4 Section:3 Township:18S Range:31E
Feet from:330 N/S Line:N
Feet from:330 E/W Line:W6. Latitude: 32.7829362755299 Longitude:
-
103.8649302871257. County:
Eddy8. Operator Name and Address:
MACK ENERGY CORP
PO Box 960
11344 Lovington Hwy
Artesia 882119. OGRID:
1383710. Phone Number:
575-748-1288

11. Last Fracture Date: 11/15/2012 Frac Performed by: Elite

12. Production Type:
O13. Pool Code(s):
5806014. Gross Fractured Interval:
4,185 ft to 4,226 ft15. True Vertical Depth (TVD):
5,524 ft16. Total Volume of Fluid Pumped:
3,478 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	7732-15-8	100%	78.84734%
Sand (Proppant)		Proppant	Silicon Dioxide	14808-60-7	100%	14.53604%
RCS (Proppant)		Proppant	Silicon Dioxide	14808-60-7	100%	2.72713%
AMA-398	Chemplex, LC	Biocide	Tetrahydro-3, 5-Dimethyl-2H-1,3,5-Thiadiazine- 2 Thione	53374-7	98%	0.01514%
Ammonium Persulfate	Chemplex, LC	Gel Breaker	Ammonium Persulfate	7727-54-0	98%	0.00349%
Claymax	Chemplex, LC	Clay Stabilizer	Choline Chloride	67-48-1	62%	0.05047%
			Water	7732-18-5	38%	0.03093%
Greenhib 679	Chemplex, LC	Scale Inhibitor	Glycerine	56-81-5	35%	0.03588%
			Trade Secret	Trade Secret	35%	0.03588%
			Water	7732-18-5	50%	0.05126%
Plexbor 101	Chemplex LC	Crosslinker	Ethylene Glycol	107-21-1	9.99%	0.00984%
			Potassium Metaborate	13709-94-9	30%	0.02955%
			Potassium Hydroxide	1310-58-3	5%	0.00493%
			Water	7732-18-5	75%	0.07389%
Plexbreal 150	Chemplex, LC	Non-Emulsifer	Cocamide Diethanolamine Salt	68603-42-9	30%	0.02007%
			Diethanolamine	111-42-2	20%	0.01338%
			Methyl Alcohol	67-56-1	50%	0.03345%
			Trade Secret	Trade Secret	5%	0.00334%
Plexgel Breaker 10L	Chemplex, LC	Gel Breaker	Mannanase Enzymes	Trade Secret	2%	0.00121%
			Sodium Chloride	7647-14-5	15%	0.00911%
			Water	7732-18-5	90%	0.05464%
Plexset 730	Chemplex, LC	Activator	Secondary Alcohol Ethozylate	84133-50-6	60%	0.00786%
			Methyl Alcohol	67-56-1	50%	0.00655%
Plexsurf 240 E	Chemplex, LC	Surfactant	Methyl Alcohol	67-56-1	20%	0.01468%
			Alcohol Ethoxylate Surfactants	Trade Secret	20%	0.01468%
			Water	7732-18-5	80%	0.05871%
Plexgel 907 LE	PFP Technology	Polymer	Guar Gum	9000-30-0	50%	0.21945%
			Mineral Oil	64742-47-8	55%	0.2414%
			Bentonite Clay	14808-60-7	2%	0.00878%
			Surfactant	68436-51-0	2%	0.00878%

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: 11/19/2012
E-mail Address: deanap@mackenergycorp.com

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