

**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: 30-039-20905
2. Well Name: JICARILLA 107 #003
3. Well Number: 003
4. Surface Hole Location: Unit:A Lot:A Section:27 Township:26N Range:04W Feet from:790 N/S Line:N E/W Line:E
5. Bottom Hole Location: Unit:A Lot:A Section:27 Township:26N Range:04W Feet from:790 N/S Line:N E/W Line:E
6. Latitude: 36.4626521195421 Longitude: - 107.23315847209
7. County: Rio Arriba

HYDRAULIC FRACTURING FLUID DISCLOSURE

Original

Amendment

8. Operator Name and Address: ENERGEN RESOURCES CORPORATION 2010 Afton Place Farmington 87401	9. OGRID: 162928	10. Phone Number: 505-324-4154
11. Last Fracture Date: 5/10/2012 Frac Performed by: Halliburton	12. Production Type: G	
13. Pool Code(s): 85920	14. Gross Fractured Interval: 3,688 ft to 3,715 ft	
15. True Vertical Depth (TVD): 8,160 ft	16. Total Volume of Fluid Pumped: 671 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)
2% KCL Water	Operator	Fluid	Potassium Chloride	7447-40-7	100%	77.4242%
SSA-2	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	3.25734%
MonoProp Proppant	Halliburton	Proppant	Nylon fibers	25038-54-4	30%	0.42508%
			Titanium dioxide	13463-67-7	5%	0.07085%
AQF-2 FOAMING AGENT	Halliburton	Foaming Agent	Diethylene glycol	111-46-6	10%	0.01916%
			Ethylene glycol monobutyl ether	111-76-2	30%	0.05748%
BC-140	Halliburton	Crosslinker	Ethylene glycol	107-21-1	30%	0.02345%
			Monoethanolamine borate	26038-87-9	60%	0.04691%
SuperFlo 2000	Halliburton	Surfactant	Methanol	67-56-1	10%	0.00591%
			Terpene	Confidential Business Information	30%	0.01774%
LGC-36 UC	Halliburton	Liquid Gel Concentrate	Guar gum	9000-30-0	60%	0.13796%
			Naphtha, hydrotreated heavy	64742-48-9	60%	0.13796%
HAI-82 ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Quaternary Amine Salt	Confidential Business Information	10%	0.00025%
			Isopropanol	67-63-0	10%	0.00025%
			Methanol	67-56-1	30%	0.00076%
			Propargyl alcohol	107-19-7	5%	0.00013%
HYDROCHLORIC ACID	Halliburton	Solvent	Hydrochloric acid	7647-01-0	60%	1.43942%
GBW-30 BREAKER	Halliburton	Breaker	Hemicellulase enzyme	9012-54-8	15%	0.00068%
			Carbohydrates	Confidential Business Information	95%	0.00433%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00274%
			Walnut hulls	Mixture	100%	0.00912%
NITROGEN LIQUEFIED	Halliburton	Fluid	Nitrogen	7727-37-9	100%	14.92744%
Ingredients Listed Below This Line Are Part of the			Alcohols, C12-16, ethoxylated	68551-12-2	0%	0%
			Alcohols, Ethoxylated	Confidential Business Information	0%	0%
			Alkyl Sulfonate	Confidential Business Information	0%	0%
			C.I. Pigment Red 5	6410-41-9	0%	0%
			Crystalline silica, quartz	14808-60-7	0%	0%
			Cured Acrylic Resin	Confidential Business Information	0%	0%
			Cured Acrylic Resin	Confidential Business Information	0%	0%
			Enzyme	Confidential Business Information	0%	0%
			Ethoxylated hydrogenated tallow alkylamines	61790-82-7	0%	0%
			Ethoxylated nonylphenol	Confidential Business Information	0%	0%
			Fatty Acid Tall Oil Blend	Confidential Business Information	0%	0%
			Fatty alcohol polyglycol ether surfactant	9043-30-5	0%	0%
			Hydrotreated light petroleum distillate	64742-47-8	0%	0%
			Isopropanol	67-63-0	0%	0%
			Kerosene	8008-20-6	0%	0%
			Nylon	Confidential Business Information	0%	0%
			Polyethylene glycol monododecyl ether	9002-92-0	0%	0%
			Polymer	Proprietary	0%	0%
			Polyphenylene Ether	Confidential Business Information	0%	0%
			Proprietary	Proprietary	0%	0%
			Proprietary	Proprietary	0%	0%
			Proprietary	Proprietary	0%	0%
			Proprietary	Proprietary	0%	0%
			Proprietary	Proprietary	0%	0%
			Proprietary	Proprietary	0%	0%
			Proprietary	Proprietary	0%	0%
			Proprietary	Proprietary	0%	0%
			Quaternary Amine Salt	Confidential Business Information	0%	0%
		Quaternary Amine Salt	Confidential Business Information	0%	0%	
		Quaternary ammonium compounds, bis (hydrogenated tallow alkyl) dimethyl, salts with bentonite	68953-58-2	0%	0%	
		Toluene	108-88-3	0%	0%	
		Water	7732-18-5	0%	0%	

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: Anna Stotts Title: Regulatory Analyst

Date: 6/11/2012

E-mail Address: astotts@energen.com

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