

**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: 30-039-29995
2. Well Name: JICARILLA CONTRACT 155 #016M
3. Well Number: 016M
4. Surface Hole Location: Unit:C Lot:C Section:30 Township:26N Range:05W Feet from:760 N/S Line:N Feet from:2570 E/W Line:W
5. Bottom Hole Location: Unit:C Lot:C Section:30 Township:26N Range:05W Feet from:760 N/S Line:N Feet from:2570 E/W Line:W
6. latitude: 36.4630345509379 longitude: - 107.401415626054
7. County: Rio Arriba

HYDRAULIC FRACTURING FLUID DISCLOSURE

Original

Amendment

8. Operator Name and Address: ENERVEST OPERATING L.L.C. 1001 Fannin Street Suite 800 Houston 77002	9. OGRID: 143199	10. Phone Number: 713-659-3500
11. Last Fracture Date: 9/22/2012 Frac Performed by: Baker Hughes	12. Production Type: G	
13. Pool Code(s): 71599, 72319	14. Gross Fractured Interval: 5,296 ft to 7,520 ft	
15. True Vertical Depth (TVD): 7,538 ft	16. Total Volume of Fluid Pumped: 7,116 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	Operator	Carrier	Water	7732-18-5	100%	83.16844%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.10955%
			Water	7732-18-5	85%	0.6208%
Alpha 1427	Baker Hughes	Biocide	Didecyl Dimethyl Ammonium Chloride	7173-51-5	10%	0.00529%
			Ethanol	64-17-5	5%	0.00264%
			Glutaraldehyde	111-30-8	30%	0.01587%
			Quaternary Ammonium Compound	68424-85-1	5%	0.00264%
Magnacide 575	Baker Hughes	Biocide	Tetrakis (Hydroxymethyl) Phosphonium Sulfate	55566-30-8	100%	0.00039%
Enzyme G-IV	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	9025-56-3	0.05%	0%
			Water	7732-18-5	99.95%	0.00672%
CorrSorb 3500	Baker Hughes	Corrosion Inhibitor	Acid Phosphate Ester	Trade Secret	10%	0.00302%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	0.00302%
			Diatomaceous Earth, Calcined	91053-39-3	100%	0.03022%
			Ethanol	64-17-5	5%	0.00151%
			Quaternary Ammonium Compound	Trade Secret	30%	0.00907%
CI-27	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	30%	0.00067%
			Methanol	67-56-1	60%	0.00135%
			Olefin	Trade Secret	5%	0.00011%
			Polyoxyalkylenes	Trade Secret	30%	0.00067%
			Propargyl Alcohol	107-19-7	10%	0.00022%
BioSealers MR	Baker Hughes	Degradable Sealers	Non-Hazardous Ingredient	Trade Secret	100%	0.00386%
FAW-22, 260 gal. tote	Baker Hughes	Foamer	Alkyl Sulfate	Trade Secret	1%	0.00161%
			Ammonium Alkyl Ether Sulfate	Trade Secret	10%	0.00538%
			Isopropanol	67-63-0	30%	0.01613%
			Sodium Sulfonate	68439-57-9	30%	0.01613%
FRW-20	Baker Hughes	Friction Reducer	Petroleum Distillates	64742-8	30%	0.01487%
GW-3LDF	Baker Hughes	Gelling Agent	1-Butoxy-2-Propanol	5131-66-8	5%	0.00291%
			Crystalline Silica, Quartz (SiO2)	14808-60-7	5%	0.00291%
			Guar Gum	9000-30-0	60%	0.0349%
			Isotridecanol, ethoxylated	9043-30-5	5%	0.00291%
			Paraffinic Petroleum Distillate	64742-55-8	30%	0.01745%
			Petroleum Distillate	64742-47-8	30%	0.01745%
Ferrotrol 300L	Baker Hughes	Iron Control	Citric Acid	77-92-9	60%	0.00212%
Nitrogen	Baker Hughes	Nitrogen	Liquid Nitrogen	7727-37-9	100%	4.20771%
Sand, Brown, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	10.9474%
ScaleSorb 3, (25# pail)	Baker Hughes	Scale Inhibitor	Amino Alkyl Phosphonic Acid	Trade Secret	30%	0.00907%
			Crystalline Silica; Quartz (SiO2)	14808-60-7	1%	0.0003%
			Diatomaceous Earth, Calcined	91053-39-3	100%	0.03022%
			Phosphonic Acid	13598-36-2	1%	0.0003%
GasFlo G, 330 gal tote	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.02736%
			Mixture of surfactants	Trade Secret	60%	0.05471%
			water	7732-18-5	50%	0.04559%
Non-MSDS Ingredients			2-Butoxy-1-Propanol	15821-83-7	0%	4.65E-05%
			Aliphatic Hydrocarbon	Trade Secret	0%	0.011547%
			Ethoxylated Alcohol	NP-R2429_2	0%	0.0005378%
			Fatty Amide Derivative	70851-08-0	0%	0.0005378%
			Formaldehyde	50-00-0	0%	0.0005493%
			Modified Thiourea Polymer	68527-49-1	0%	0.000247%
			Oxyalkylated Alcohol	Trade Secret	0%	0.0009912%
			Polyglycol Ester	Trade Secret	0%	0.000446%
			Polyol Ester	Trade Secret	0%	0.0005451%
			Sodium Chloride	7647-14-5	0%	0.0025313%
			Sodium Sulfate thioglycolic Acid	7757-82-6	0%	0.0005378%
			Vinyl Copolymer	68-11-1	0%	6.04E-05%
			Water	7732-18-5	0%	0.076227%
			Ethylene Glycol	107-21-1	0%	0.0005378%

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: Ronnie Young Title: Compliance Supervisor

Date: 10/11/2012

E-mail Address: ryoung@enervest.net

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