

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:
30-039-23480

2. Well Name:
JICARILLA TRIBAL 396 #009

3. Well Number:
009

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:I Lot:Z00 Section:7 Township:23N Range:03W
Feet from:1950 N/S Line:S
Feet from:980 E/W Line:E

5. Bottom Hole Location:
Unit:I Lot:Z00 Section:7 Township:23N Range:03W
Feet from:1950 N/S Line:S
Feet from:980 E/W Line:E

6. latitude:
0 longitude:
0

7. County:
Rio Arriba

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:
7/13/2012 Frac Performed by: Baker Hughes

12. Production Type:
O

13. Pool Code(s):
39189

14. Gross Fractured Interval:
6,060 ft to 7,342 ft

15. True Vertical Depth (TVD):
7,320 ft

16. Total Volume of Fluid Pumped:
177,286 gals

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%	89.08288%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.0437%
			Water	7732-18-5	85%	0.24761%
Alpha 452	Baker Hughes	Biocide	Tetrakis (hydroxymethyl) Phosphonium Sulfate	55566-30-8	60%	0.02832%
Magnacide 575	Baker Hughes	Biocide	Tetrakis (Hydroxymethyl) Phosphonium Sulfate	55566-30-8	100%	0.00346%
GBW-5	Baker Hughes	Breaker	Ammonium Persulfate	7727-54-0	100%	0.00874%
Enzyme G-I	Baker Hughes	Breaker	Contains non-hazardous ingredients which are listed in in the non-MSDS section of the report	NA	100%	0.0201%
High Perm CRB	Baker Hughes	Breaker	Ammonium Persulphate	7727-54-0	100%	0.00422%
			Crystalline Silica Quartz	14808-60-7	15%	0.00063%
BF-7L	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	50%	0.04574%
CorrSorb 3500	Baker Hughes	Corrosion Inhibitor	Acid Phosphate Ester	Trade Secret	10%	0.00301%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	0.0003%
			Diatomaceous Earth, Calcined	91053-39-3	100%	0.03013%
			Ethanol	64-17-5	5%	0.00151%
			Quaternary Ammonium Compound	Trade Secret	30%	0.00904%
CI-27	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	30%	0.00027%
			Methanol	67-56-1	60%	0.00054%
			Olefin	Trade Secret	5%	4E-05%
			Polyoxyalkylenes	Trade Secret	30%	0.00027%
			Propargyl Alcohol	107-19-7	10%	9E-05%
			Thiourea Polymer	68527-49-1	30%	0.00027%
XLW-32	Baker Hughes	Crosslinker	Boric Oxide	1303-86-2	20%	0.00703%
			Methanol	67-56-1	90%	0.03161%
BioSealers MR	Baker Hughes	Degradable Sealers	Non-Hazardous Ingredient	Trade Secret	100%	0.01808%
FRW-20	Baker Hughes	Friction Reducer	Petroleum Distillates	64742-47-8	30%	0.01119%
GW-3LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	40%	0.0933%
			Petroleum Distillate Blend	Trade Secret	70%	0.16327%
Ferrotrol 300L	Baker Hughes	Iron Control	Citric Acid	77-92-9	60%	0.00114%
NE-900, tote	Baker Hughes	Non-emulsifier	Methanol	67-56-1	30%	0.02715%
			Nonyl Phenyl Polyethylene Glycol Ether	9016-45-9	10%	0.00367%
			Nonyl phenyl polyethylene glycol ether	9016-45-9	10%	0.00538%
Sand, Brown, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	9.73287%
ScaleSorb 3, (25# pail)	Baker Hughes	Scale Inhibitor	Amino Alkyl Phosphonic Acid	Trade Secret	30%	0.00904%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	0.0003%
			Diatomaceous Earth, Calcined	91053-39-3	100%	0.03013%
InFlo 250W	Baker Hughes	Surfactant	Phosphonic Acid	13598-36-2	1%	0.0003%
			2-Butoxyethanol	111-76-2	5%	0.00153%
			Methanol	67-56-1	30%	0.0092%
			Surfactants	Trade Secret	80%	0.02452%
GasFlo G, 330 gal tote	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.01582%
			Mixture of Surfactants	Trade Secret	60%	0.03164%
			Water	7732-18-5	50%	0.02637%
Non-MSDS Ingredients			Aliphatic Hydrocarbon	Trade Secret	0%	0.0086872%
			Copolymer	Trade Secret	0%	0.0362028%
			Crystalline Silica	14808-60-7	0%	0%
			Cured Acrylic Resin	Trade Secret	0%	0.0042186%
			Ethylene Glycol Monobutyl Ether	111-76-2	0%	0%
			Formaldehyde	50-00-0	0%	2.68E-05%
			Hemicellulase	9025-56-3	0%	0.000603%
			Enzyme Concentrate	Trade Secret	0%	0.0007457%
			Oxyalkylated Alcohol	Trade Secret	0%	0%
			Poly (oxy-1,2-ethanediy)	24938-91-8	0%	0%
			Polyglycol Ester	Trade Secret	0%	0.0003356%
			Polyol Ester	Trade Secret	0%	0.0004101%
			Quaternary Ammonium Compounds bis [Hydrogenated Tallow Alkyl] Dimethyl Salts With Bentonite	68953-58-2	0%	0%
			Sodium Aryl Sulfonate	119345-04-9	0%	0.000472%
			Sodium Chloride	7647-14-5	0%	0.0015194%
			Sodium Sulfate	7757-82-6	0%	2.36E-05%
			Thioglycolic Acid	68-11-1	0%	6.03E-05%
			Vinyl Copolymer	Trade Secret	0%	0.0104396%
			Water	7732-18-5	0%	0.1618628%

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: Regulatory Director

Date: 11/6/2013

E-mail Address: ryoung@enervest.net

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