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.: 30-043-20499

2. Well Name: JICARILLA 55 #001

3. Well Number: 001

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:K Lot:Z00 Section:35 Township:23N Range:03W
Feet from:1753 N/S Line:S
Feet from:1883 E/W Line:W

5. Bottom Hole Location:
Unit:K Lot:Z00 Section:35 Township:23N Range:03W
Feet from:1753 N/S Line:S
Feet from:1883 E/W Line:W

6. latitude: 0 longitude: 0

7. County: Sandoval

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: 9/26/2013 Frac Performed by: Schlumberger

12. Production Type: O

13. Pool Code(s): 39189

14. Gross Fractured Interval: 5,960 ft to 6,058 ft

15. True Vertical Depth (TVD): 7,335 ft

16. Total Volume of Fluid Pumped: 41,002 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)
YF 120 FlexD, WF110, HCL 15%	Schlumberger	Corrosion Inhibitor, Bactericide (Myacide GA25), Multifunctional Additive B392, Surfactant , Acid, B	Water (Including Mix Water Supplied by Client)*	NA	0%	0.84%
			Crystalline silica	14808-60-7	0%	0.15%
			Hydrogen chloride	7647-01-0	0%	0%
			Guar gum	9000-30-0	0%	0%
			Polylactide resin	9051-89-2	0%	0%
			Ethane-1,2-diol	107-21-1	0%	0%
			Cholinium chloride	67-48-1	0%	0%
			Diammonium peroxidisulphate	7727-54-0	0%	0%
			Sodium hydroxide	1310-73-2	0%	0%
			Gum, xanthan	11138-66-2	0%	0%
			Tetrasodium ethylenediaminetetraacetate	Ge0eral	0%	0%
			Urea	57-13-6	0%	0%
			Polyethylene glycol monohexyl ether	31726-34-8	0%	0%
			Sodium tetraborate	1330-43-4	0%	0%
			Glutaraldehyde	111-30-8	0%	0%
			Vinylidene chloride/methylacrylate copolymer	25038-72-6	0%	0%
			Methanol	67-56-1	0%	0%
			Fatty acids, tall-oil	61790-12-3	0%	0%
			Thiourea, polymer with formaldehyde and 1-phenylethanone	68527-49-1	0%	0%
			Polyethylene glycol sorbitan monolaurate	9005-64-5	0%	0%
			Sodium Glycolate (impurity)	2836-32-0	0%	0%
			Non-crystalline silica	7631-86-9	0%	0%
			Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0%	0%
			Prop-2-yn-1-ol	107-19-7	0%	0%
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0%	0%
			Alcohol, C11 linear, ethoxylated	34398-01-1	0%	0%
			Trisodium Ethylenediaminetetraacetate (impurity)	150-38-9	0%	0%
			Disodium Ethylene Diamine Tetra Acetate (impurity)	139-33-3	0%	0%
			Sodium erythorbate	6381-77-7	0%	0%
			Alkenes, C>10 a-	64743-02-8	0%	0%
			Alcohol, C9-C11, Ethoxylated	68439-46-3	0%	0%
			Alcohol, C7-9-iso, C8, ethoxylated	78330-19-5	0%	0%
			Alcohol, C9-11-iso, C10, ethoxylated	78330-20-8	0%	0%
			Propan-2-ol	67-63-0	0%	0%
			Trisodium nitrilotriacetate (impurity)	5064-31-3	0%	0%
			Ethoxylated propoxylated 4-nonylphenol-formaldehyde resin	30846-35-6	0%	0%
			Magnesium silicate hydrate (talc)	14807-96-6	0%	0%
			Heavy aromatic naphtha	64742-94-5	0%	0%
			Quaternary ammonium compounds chlorides derivatives	68989-00-4	0%	0%
			Alcohol, C11-14, ethoxylated	78330-21-9	0%	0%
			Cetylethylmorpholinium ethyl sulfate	78-21-7	0%	0%
			poly(tetrafluoroethylene)	9002-84-0	0%	0%
			Poly(oxy-1,2-ethanediyl)	25322-68-3	0%	0%
			Naphtalene (impurity)	91-20-3	0%	0%
† Proprietary Technology					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: 10/21/2013

E-mail Address: astotts@energen.com

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.