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

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

1. WELL API NO.: 30-043-20444
2. Well Name: CHACON JICARILLA D #017
3. Well Number: 017
4. Surface Hole Location: Unit:G Lot:Z00 Section:22 Township:23N Range:03W Feet from:1850 N/S Line:N Feet from:1850 E/W Line:E
5. Bottom Hole Location: Unit:G Lot:Z00 Section:22 Township:23N Range:03W Feet from:1850 N/S Line:N Feet from:1850 E/W Line:E
6. latitude: 36.21152 longitude: -107.14117
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: 6/10/2013 Frac Performed by: HALLIBURTON
12. Production Type: O
13. Pool Code(s): 39189
14. Gross Fractured Interval: 6,468 ft to 6,482 ft
15. True Vertical Depth (TVD): 7,680 ft
16. Total Volume of Fluid Pumped: 25,471 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)
2% KCL Water	Operator				100%	55.38918%
FE ACID - >10% HCL	Halliburton		Hydrochloric acid	7647-01-0	30%	0.68875%
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	18.10365%
LGC-36 UC	Halliburton	Liquid Gel Concentrate	Guar gum	9000-30-0	60%	0.17929%
			Naphtha, hydrotreated heavy	64742-48-9	60%	0.17929%
BC-200 UC	Halliburton	Crosslinker	Modified Alkane	Confidential Business Information	60%	0.06253%
LoSurf-300D	Halliburton	Non-ionic Surfactant	1,2,4 Trimethylbenzene	95-63-6	1%	0.00027%
			Ethanol	64-17-5	60%	0.01629%
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.00815%
			Naphthalene	91-20-3	5%	0.00136%
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5%	0.00136%
AQF-2 FOAMING AGENT	Halliburton	Foaming Agent	Ethylene glycol monobutyl ether	111-76-2	30%	0.04887%
			Diethylene glycol	111-46-6	10%	0.01629%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00387%
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.00516%
			Crystalline silica, quartz	14808-60-7	30%	0.00155%
NITROGEN LIQUEFIED	Halliburton	Fluid	Nitrogen	7727-37-9	100%	23.60922%
Ingredients Listed Below This Line Are Part of the			2-Ethyl hexanol	104-76-7	0%	0%
			Acetic acid	64-19-7	0%	0%
			Acetic anhydride	108-24-7	0%	0%
			Alkyl Sulfonate	68439-57-6	0%	0%
			Borate salts	1319-33-1	0%	0%
			Butyl alcohol	71-36-3	0%	0%
			Citric acid	77-92-9	0%	0%
			Crystalline silica, quartz	14808-60-7	0%	0%
			Cured Acrylic Resin	Mixture	0%	0%
			Fatty alcohol polyglycol ether surfactant	9043-30-5	0%	0%
			Methanol	67-56-1	0%	0%
			Organic salt	26264-06-2	0%	0%
			Oxyalkylated Phenolic Resin	29316-47-0	0%	0%
			Oxyalkylated Phenolic Resin	63428-92-2	0%	0%
			Propylene carbonate	108-32-7	0%	0%
			Propylene glycol	57-55-6	0%	0%
			Quaternary ammonium compounds, bis (hydrogenated tallow alkyl) dimethyl,salts with bentonite	68953-58-2	0%	0%
			Sodium carbonate	497-19-8	0%	0%
			Sodium sulfate	7757-82-6	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: 8/29/2013

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.