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.
30-043-20300

2. Well Name:
CHACON JICARILLA D #010

3. Well Number:
010

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:I Lot:Z00 Section:27 Township:23N Range:03W
Feet from:1700 N/S Line:S
Feet from:790 E/W Line:E

5. Bottom Hole Location:
Unit:I Lot:Z00 Section:27 Township:23N Range:03W
Feet from:1700 N/S Line:S
Feet from:790 E/W Line:E

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: 7/3/2013 Frac Performed by: Halliburton

12. Production Type:
G

13. Pool Code(s):
39189

14. Gross Fractured Interval:
6,124 ft to 6,226 ft

15. True Vertical Depth (TVD):
7,520 ft

16. Total Volume of Fluid Pumped:
21,878 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%	50.64407%
FE ACID - >10% HCL	Halliburton		Hydrochloric acid	7647-01-0	30%	0.73811%
SAND - COMMON WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	1.37298%
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	20.6167%
FE-1A ACIDIZING COMPOSITION	Halliburton	Additive	Acetic acid	64-19-7	60%	0.01477%
			Acetic anhydride	108-24-7	100%	0.02461%
FE-2A	Halliburton	Additive	Citric acid	77-92-9	60%	0.01702%
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Methanol	67-56-1	60%	0.00122%
			Propargyl alcohol	107-19-7	10%	0.0002%
LoSurf-300D	Halliburton	Non-ionic Surfactant	1,2,4 Trimethylbenzene	95-63-6	1%	0.00033%
			Ethanol	64-17-5	60%	0.01982%
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.00991%
			Naphthalene	91-20-3	5%	0.00165%
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5%	0.00165%
LGC-36 UC	Halliburton	Liquid Gel Concentrate	Guar gum	9000-30-0	60%	0.14612%
			Naphtha, hydrotreated heavy	64742-48-9	60%	0.14612%
BC-200 UC	Halliburton	Crosslinker	Modified alkane	Confidential Business Information	60%	0.06323%
AQF-2 FOAMING AGENT	Halliburton	Foaming Agent	Ethylene glycol monobutyl ether	111-76-2	30%	0.04632%
			Diethylene glycol	111-46-6	10%	0.01544%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00549%
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.00604%
			Crystalline silica, quartz	14808-60-7	30%	0.00181%
NITROGEN LIQUEFIED	Halliburton	Fluid	Nitrogen	7727-37-9	100%	24.30298%
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%
			Alcohols, C14-C15, ethoxylated	68951-67-7	0%	0%
			Alkyl sulfonate	Confidential Business Information	0%	0%
			Borate salts	Confidential Business Information	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	Confidential Business Information	0%	0%
			Fatty acids, tall oil	Confidential Business Information	0%	0%
			Fatty alcohol polyglycol ether surfactant	9043-30-5	0%	0%
			Methanol	67-56-1	0%	0%
			Modified bentonite	Confidential Business Information	0%	0%
			Olefins	Confidential Business Information	0%	0%
			Olefins	Confidential Business Information	0%	0%
			Olefins	Confidential Business Information	0%	0%
			Olefins	Confidential Business Information	0%	0%
			Organic salt	Confidential Business Information	0%	0%
			Oxyalkylated phenolic resin	Confidential Business Information	0%	0%
			Oxyalkylated phenolic resin	Confidential Business Information	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%
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	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: 10/7/2013

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.