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 November 6, 2013

1. WELL API NO.
30-043-21144

2. Well Name:
BONANZA #012

3. Well Number:
012

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ **Original**

☐ **Amendment**

4. Surface Hole Location:
Unit:F Lot:Z00 Section:1 Township:22N Range:03W
Feet from:1980 N/S Line:N
Feet from:1700 E/W Line:W

5. Bottom Hole Location:
Unit:F Lot:Z00 Section:1 Township:22N Range:03W
Feet from:1980 N/S Line:N
Feet from:1700 E/W Line:W

6. latitude: 0 longitude: 0

7. County:
Sandoval

8. Operator Name and Address:
ELM RIDGE EXPLORATION COMPANY LLC
PO BOX 156
Bloomfield 87413

9. OGRID: 149052

10. Phone Number: 505-632-3476

11. Last Fracture Date: 2/7/2014 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
39189

14. Gross Fractured Interval:
Confidential

15. True Vertical Depth (TVD):
7,506 ft

16. Total Volume of Fluid Pumped:
752,250 gals

17. Total Volume of Re-Use Water Pumped:
N/A

18. Percent of Re-Use Water in Fluid Pumped:
Not Disclosed

19. **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%	90.30279%
CRC SAND	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	3.37633%
			Hexamethylenetetramine	100-97-0	2%	0.06753%
			Phenol / formaldehyde resin	9003-35-4	5%	0.16882%
LGC-36 UC	Halliburton	Liquid Gel Concentrate	Guar gum	9000-30-0	60%	0.02575%
			Naphtha, hydrotreated heavy	64742-48-9	60%	0.02575%
BC-200 UC	Halliburton	Crosslinker	Modified alkane	Confidential Business Information	60%	0.0126%
HC-2	Halliburton	Additive	Inner salt of alkyl amines	Confidential Business Information	30%	0.01007%
			Sodium chloride	7647-14-5	30%	0.01007%
LoSurf-300D	Halliburton	Non-ionic Surfactant	1,2,4 Trimethylbenzene	95-63-6	1%	4E-05%
			Ethanol	64-17-5	60%	0.00225%
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.00112%
			Naphthalene	91-20-3	5%	0.00019%
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5%	0.00019%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00063%
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.00108%
			Crystalline silica, quartz	14808-60-7	30%	0.00032%
NITROGEN LIQUEFIED	Halliburton	Fluid	Nitrogen	7727-37-9	100%	6.21795%
Ingredients Listed Below This Line Are Part of the			2-Ethyl hexanol	104-76-7	0%	0%
			Borate salts	Confidential Business Information	0%	0%
			Butyl alcohol	71-36-3	0%	0%
			Crystalline silica, quartz	14808-60-7	0%	0%
			Cured acrylic resin	Confidential Business Information	0%	0%
			Fatty alcohol polyglycol ether surfactant	9043-30-5	0%	0%
			Glycerine	56-81-5	0%	0%
			Methanol	67-56-1	0%	0%
			Modified bentonite	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%
			Sodium carbonate	497-19-8	0%	0%
			Sodium sulfate	7757-82-6	0%	0%
			Water	7732-18-5	0%	0%

20. 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: Amy Mackey Title: Administrative Manager

Date: 2/10/2014

E-mail Address: amackey1@elmridge.net

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.