

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:
30-025-41811

2. Well Name:
GRAMMA RIDGE 14 24 34 #001H

3. Well Number:
001H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:B Lot:B Section: 14 Township:24S Range:34E
Feet from:330 N/S Line:N
Feet from:2300 E/W Line:E

5. Bottom Hole Location:
Unit:B Lot:B Section: 14 Township:24S Range:34E
Feet from:330 N/S Line:N
Feet from:2300 E/W Line:E

6. latitude: 32.2239042772277 longitude: -103.439679063786

7. County: Lea

8. Operator Name and Address:
CHEVRON U S A INC
Attn: Sandy Stedman-Daniel
1400 Smith
Houston 77002

9. OGRID: 4323

10. Phone Number: 713-372-2978

11. Last Fracture Date: 12/13/2014 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
96434

14. Gross Fractured Interval:
12,901 ft to 15,506 ft

15. True Vertical Depth (TVD):
11,091 ft

16. Total Volume of Fluid Pumped:
3,294,336 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)
Fresh Water	Operator	Base Fluid	Water	7732-18-5	100%	86.38559%
HYDROCHLORIC ACID 5-10%	Halliburton	Solvent	Hydrochloric acid	7647-01-0	10%	0.11819%
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	9.27157%
CRC SAND	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	2.19478%
			Hexamethylenetetramine	100-97-0	2%	0.0439%
			Phenol / formaldehyde resin	9003-35-4	5%	0.10974%
SAND - COMMON WHITE - 100 MESH	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	0.52395%
LoSurf-360W	Halliburton	Surfactant	Complex alkylamine	Confidential Business Information	5%	0.00407%
			Glycerine	56-81-5	10%	0.00814%
			Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl- omega -hydroxy-	61827-42-7	30%	0.02441%
FR-66	Halliburton	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8	30%	0.00932%
Cla-Web™	Halliburton	Additive	Ammonium salt	Confidential Business Information	60%	0.01521%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00447%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.0061%
CL-22 UC	Halliburton	Crosslinker	Potassium formate	590-29-4	60%	0.03518%
CL-31 CROSSLINKER	Halliburton	Crosslinker	Potassium hydroxide	1310-58-3	5%	0.00154%
			Potassium metaborate	13709-94-9	60%	0.01844%
LCA-1	Halliburton	Solvent	Paraffinic solvent	Confidential Business Information	100%	0.00336%
OptiKleen-WF™	Halliburton	Concentrate	Sodium perborate tetrahydrate	10486-00-7	100%	0.00294%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00088%
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.00565%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Crystalline silica, quartz	14808-60-7	30%	0.0017%
K-34	Halliburton	Buffer	Guar gum	9000-30-0	100%	0.13691%
			Sodium bicarbonate	144-55-8	100%	0.00031%
Ingredients Listed Below This Line Are Part of the			Acrylate polymer	Confidential Business Information	0%	0%
			Alcohols, C12-16, ethoxylated	68551-12-2	0%	0%
			Alkane	Confidential Business Information	0%	0%
			Amine salts	Confidential Business Information	0%	0%
			Amine salts	Confidential Business Information	0%	0%
			Ammonium chloride	12125-02-9	0%	0%
			Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	0%	0%
			Borate salts	Confidential Business Information	0%	0%
			Crystalline silica, quartz	14808-60-7	0%	0%
			Cured acrylic resin	Confidential Business Information	0%	0%
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	0%	0%
			Fatty acid tall oil amide	Confidential Business Information	0%	0%
			Hydrogen peroxide	7722-84-1	0%	0%
			Nitrotriactic acid, trisodium salt monohydrate	5064-31-3	0%	0%
			Polyacrylamide copolymer	Confidential Business Information	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Silica gel	112926-00-8	0%	0%
			Sodium bicarbonate	144-55-8	0%	0%
			Sodium carboxymethyl cellulose	9004-32-4	0%	0%
			Sodium chloride	7647-14-5	0%	0%
			Sodium glycollate	2836-32-0	0%	0%
			Sodium hydroxide	1310-73-2	0%	0%
			Sodium sulfate	7757-82-6	0%	0%
			Sorbitan monooleate	9005-65-6	0%	0%
			polyoxyethylene derivative			
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	0%	0%
			Surfactant mixture	Confidential Business Information	0%	0%
			Surfactant mixture	Confidential Business Information	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: Cindy Herrera-Murillo Title: Permitting Specialist

Date: 1/16/2015

E-mail Address: eeof@chevron.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.