

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.
30-025-41360

2. Well Name:
LIMESTONE 11 23 33 FEDERAL #001H

3. Well Number:
001H

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:D Lot:D Section:11 Township:23S Range:33E
Feet from:150 N/S Line:N
Feet from:650 E/W Line:W

5. Bottom Hole Location:
Unit:D Lot:D Section:11 Township:23S Range:33E
Feet from:150 N/S Line:N
Feet from:650 E/W Line:W

6. latitude:
32.3260927234751 longitude:
-103.549564514315

7. County:
Lea

8. Operator Name and Address:
CHEVRON U S A INC
Attn: Sandy Stedman-Daniel
P.O. Box 2100
Houston 77252

9. OGRID:
4323

10. Phone Number:
505-333-1941

11. Last Fracture Date:
12/17/2013 Frac Performed by: FTSI

12. Production Type:
O

13. Pool Code(s):
7320

14. Gross Fractured Interval:
Confidential

15. True Vertical Depth (TVD):
11,028 ft

16. Total Volume of Fluid Pumped:
1,303,958 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)
Hydrochloric Acid (HCl)	FTSI	Acid	Hydrogen Chloride	7647-01-0		37%
			Water	7732-18-5		63%
CI-150	FTSI	Acid Corrosion Inhibitor	Isopropanol	67-63-0		30%
			Dimethylformamide	68-12-2		10%
			Organic amine resin salt	Proprietary		30%
			Quaternary ammonium compound	Proprietary		10%
			Aromatic aldehyde	Proprietary		10%
			Ethylene Glycol	107-21-1		30%
			Water	7732-18-5		5%
			Fatty Acid	Proprietary		0.1%
			Fatty Acid Salt	Proprietary		0.1%
			Aliphatic alcohol	Proprietary		0.1%
			Alkyene Oxide Block Polymer	Proprietary		0.1%
			Diethylene glycol	111-46-6		1%
FE-100L	FTSI	Iron control	Citric acid	77-92-9		55%
			Water	7732-18-5		60%
NE-100	FTSI	Non-emulsifier	2-Butoxyethanol	111-76-2		10%
			2-Propanol	67-63-0		10%
			Dodecylbenzenesulfonic acid	27176-87-0		5%
			Water	7732-18-5		90%
			Sulfuric Acid	7664-93-9		0.01%
			Sulfur Dioxide	7446-09-5		0%
			Benzene, C10-16 Alkyl Derivatives	68648-87-3		0.04%
			Unsulphonated Matter	Proprietary		0.03%
KCLS-4	FTSI	Clay Control	No hazardous materials	Not applicable.		0%
			Water	7732-18-5		30%
			Choline Chloride	67-48-1		75%
			Water	7732-18-5		95%
			Sodium Hydroxide	1310-73-2		0%
ICI-150	FTSI	Biocide	Gluteral	111-30-8		50%
			Water	7732-18-5		50%
			Methanol	67-56-1		0.5%
FRW-200	FTSI	Friction reducer	Petroleum distillate	64742-47-8		26%
			hydrotreated light			
			Acrylamide P/W acrylic acid, ammonium salt	26100-47-0		25%
			Water	7732-18-5		48%
			Sorbitan Monooleate	1338-43-8		3%
			Alcohols (C12-C14), ethoxylated	68439-50-9		4%
			Alcohols (C12-C16), ethoxylated	68551-12-2		4%
			Alcohols (C10-C16), ethoxylated	68002-97-1		4%
			Acrylamide	79-06-1		0.1%
			Dewaxed heavy paraffinic	64742-65-0		1.5%
			Ammonium Acrylate	10604-69-0		0.5%
			Ammonium Chloride	12125-02-9		12%
			Polyethylene glycol monooleate	9004-96-0		3%
			Alkylloxypolyethyleneoxyethanol	84133-50-6		1%
			Sorbitol Tetraoleate	61723-83-9		2%
			Copolymer of acrylamide and sodium acrylate	25987-30-8		33%
			Surfactant	Proprietary		7%
			Hydrotreated heavy paraffinic	64742-54-7		5%
			Isopropanol	67-63-0		0.3%
CS-250 SI	FTSI	Scale Inhibitor	Ethylene glycol	107-21-1		10%
			Water	7732-18-5		81%
			Sodium chloride	7647-14-5		6%
			Sodium Polyacrylate	9003-04-7		10%
HVG-1	FTSI	Water Gelling Agent	Guar Gum	9000-30-0		55%
			Petroleum Distillate	64742-47-8		55%
			Raffinates (Petroleum), Sorption Process	64741-85-1		50%
			Clay	14808-60-7		2%
			Clay	1302-78-9		5%
			Surfactant	24938-91-8		1%
			Surfactant	154518-36-2		1%
			Surfactant	9043-30-5		1%
APB-1	FTSI	Gel breaker	Ammonium Persulfate	7727-54-0		100%
BXL-2	FTSI	Borate crosslinker	Sodium metaborate	10555-76-7		25%
			Boric acid	10043-35-3		15%
			Potassium hydroxide	1310-58-3		12%
			Water	7732-18-5		75%
B-10	FTSI	High pH buffer	Potassium carbonate	584-08-7		48%
			Potassium hydroxide	1310-58-3		20%
			Water	7732-18-5		55%
30/50 White	FTSI	proppant	Silica, Quartz	14808-60-7		100%
20/40 Super LC	FTSI	proppant	Crystalline Silica (quartz)	14808-60-7		97%
			Phenol-Formaldehyde Novolak Resin	9003-35-4		5%
			Hexamethylenetetramine	100-97-0		1%

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
Date:
2/12/2014
E-mail Address:
eeof@chevron.com

Printed Name:
Cindy Herrera-Murillo

Title:
Permitting Specialist

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