

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:
30-015-42347

2. Well Name:
VEGA 29 FEDERAL #004H

3. Well Number:
004H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:P Lot:P Section:20 Township:19S Range:31E
Feet from:400 N/S Line:S E/W Line:E
Feet from:777

5. Bottom Hole Location:
Unit:P Lot:P Section:20 Township:19S Range:31E
Feet from:400 N/S Line:S E/W Line:E
Feet from:777

6. latitude:
32.6399206500529 longitude:
-103.88540597687

7. County:
Eddy

8. Operator Name and Address:
DEVON ENERGY PRODUCTION COMPANY, LP
333 W. Sheridan Avenue
Oklahoma City 73102

9. OGRID:
6137

10. Phone Number:
405-228-8588

11. Last Fracture Date:
2/13/2015 Frac Performed by:
FTSI

12. Production Type:
O

13. Pool Code(s):
29345

14. Gross Fractured Interval:
8,475 ft to 13,036 ft

15. True Vertical Depth (TVD):
8,213 ft

16. Total Volume of Fluid Pumped:
5,412,792 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)
Water	Operator	Carrier	Water	7732-18-5		85.3079474%
Hydrochloric Acid (HCl)	FTSI	Acid	Hydrogen Chloride	7647-01-0		0.1946881%
			Water	7732-18-5		0.3318025%
20/40 White	FTSI	Proppant	Silica, Quartz	14808-60-7		0.0833375%
30/50 White	FTSI	Proppant	Silica, Quartz	14808-60-7		8.9414003%
20/40 Super LC	FTSI	Proppant	Crystalline Silica (quartz)	14808-60-7		4.5381136%
			Phenol-Formaldehyde Novolak Resin	9003-35-4		0.2339234%
			Hexamethylenetetramine	100-97-0		0.0467847%
B-10	FTSI	High pH buffer	Potassium carbonate	584-08-7		0.013904%
			Potassium hydroxide	1310-58-3		0.0055793%
			Water	7732-18-5		0.0153432%
BXL-2	FTSI	Borate crosslinker	Sodium metaborate	10555-76-7		0.0058467%
			Boric acid	10043-35-3		0.003508%
			Potassium hydroxide	1310-58-3		0.0028064%
			Water	7732-18-5		0.0175401%
BXL-3	FTSI	Crosslinker	Crystalline Silica, Quartz	14808-60-7		0.1%
			Borate Salt	1319-33-1		3.33E-05%
			Potassium Formate	590-29-4		0.0133258%
			Hydrated aluminum-magnesium silicate (palygorskite)	12174-11-7		0.0016657%
			Sodium Sulfate	7757-82-6		3.33E-05%
			Sodium Chloride	7647-14-5		3.33E-05%
			Water	7732-18-5		0.019888%
APB-1	FTSI	Gel breaker	Ammonium Persulfate	7727-54-0		0.0017877%
CI-150	FTSI	Acid Corrosion Inhibitor	Isopropanol	67-63-0		0.0002789%
			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%
			Alkylene Oxide Block Polymer	Proprietary		10%
			Diethylene glycol	111-46-6		1%
CS POLYBREAK 210W	FTSI	Polymer breaker	Sodium chloride	7647-14-5		15%
			Sodium chlorite	7732-18-5		80%
			Water	7732-18-5		0%
			Sodium Hydroxide	1310-73-2		41%
			Tetrasodium EDTA	64-02-8		2%
			Sodium hydroxide	1310-73-2		2%
			Trisodium Nitrotriacetic acid	5064-31-3		0.8%
			Ethylenediaminetetracetic acid, trisodium salt	19019-43-3		60%
			Water	7732-18-5		60%
			Sodium formate	141-53-7		0.6%
			Sodium glycolate	2836-32-0		1.5%
			Iminodiacetate disodium salt	17593-73-6		0.2%
			Guar Gum	90003-30-0		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%
			Surfactant	Proprietary		2%
			Water	7732-18-5		30%
			Choline Chloride	67-48-1		75%
			Methanol	67-56-1		15%
			2-Butoxyethanol	111-76-2		10%
			2-Propanol	67-63-0		10%
			Dodecylbenzenesulfonic acid	21776-87-0		80%
			Water	7732-18-5		0.01%
			Sulfuric Acid	7664-93-9		0%
			Sulfur Dioxide	7446-09-5		0%
			Benzene, C10-16 Alkyl Derivatives	68648-87-3		0.04%
			Unsulphonated Matter	Proprietary		0.03%
Superset W	FTSI	Resin Coated Proppant Activator	Methanol	67-56-1		50%
			Poly(oxyethylene)nonylphenol ether	9016-45-9		50%
FRW-200	FTSI	Friction reducer	Petroleum distillate	64742-47-8		26%
			hydroreated light Acrylamide FW 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%
			Alkylpolyethyleneoxyethanol	84133-50-6		1%
			Sorbitol Tetraoleate	61723-83-9		2%
			Copolymer of acrylamide and sodium acrylate	25987-30-8		33%
			Surfactant	Proprietary		7%
			Hydroreated heavy paraffinic	64742-54-7		5%
			Isopropanol	67-63-0		0.3%
LTB-1	FTSI	Breaker	Ammonium Persulfate	7727-54-0		100%
			Cured acrylic resin	Proprietary		100%
			Silica, Crystalline- Quartz	14808-60-7		10%
CS POLYBREAK 210	FTSI	Polymer breaker	Sodium chlorite	7758-18-2		5%
			Water	7732-18-5		95%
			Sodium Hydroxide	1310-73-2		0%
NE-100	FTSI	Non-emulsifier	2-Butoxyethanol	111-76-2		10%
			2-Propanol	67-63-0		10%
			Dodecylbenzenesulfonic acid	21776-87-0		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%

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: _____
Date: 4/23/2015
E-mail Address: sara.cook@dvn.com

Signed Electronically

Printed Name: Sara Cook

Title: Regulatory Associate

NMOCDO does not require the reporting of information beyond MSDS data as described in 29 CFR 1910.1200. NMOCDO does not require the reporting or disclosure of proprietary, trade secret or confidential business information.