

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 8, 2013

1. WELL API NO.
30-025-41914

2. Well Name:
HORNED VIPER 20 FEDERAL COM #002H

3. Well Number:
002H

HYDRAULIC FRACTURING FLUID
DISCLOSURE
☒ Original
☐ Amendment

4. Surface Hole Location:
Unit:M Lot:M Section:20 Township:23S Range:33E
Feet from:200 N/S Line:S
Feet from:1300 E/W Line:W

5. Bottom Hole Location:
Unit:M Lot:M Section:20 Township:23S Range:33E
Feet from:200 N/S Line:S
Feet from:1300 E/W Line:W

6. latitude: longitude:
32.2835426 -103.5986786

7. County:
Lea

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: 4/4/2015 Frac Performed by: Baker Hughes

12. Production Type:
O

13. Pool Code(s):
14865

14. Gross Fractured Interval:
Confidential

15. True Vertical Depth (TVD):
11,043 ft

16. Total Volume of Fluid Pumped:
4,290,888 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	100%	82.7249919%
HCl, 10.1 - 15%		Acidizing	Hydrochloric Acid	7647-01-0	15%	0.1238178%
Sand White-30/50, Sand White-100 mesh, Black Ultra	Baker Hughes	Proppant, Gelling Agent, Clay Control, Surface Tension Reducer, Crosslinker, Friction Reducer, Buffe	Crystalline Silica (Quartz)	14808-60-7	100%	14.3384403%
			Crystalline Silica	14808-60-7	100%	1.4386929%
			Water	7732-18-5	99%	0.9207281%
			Guar Gum	9000-30-0	100%	0.0949579%
			Choline Chloride	67-48-1	75%	0.0678676%
			1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-, polymer with 2-propenamide, sodium salt	83446-68-8	60%	0.0331533%
			Polyethers	68915-65-6	30%	0.0261928%
			Isopropanol	67-83-0	30%	0.0261928%
			Ulexite Mineral	1319-33-1	40%	0.0227285%
			Potassium Carbonate	584-08-7	60%	0.0205582%
			Potassium Formate	590-29-4	30%	0.0170463%
			Hydrotreated Light Distillate	64742-47-8	30%	0.0165767%
			Furfuryl Alcohol	98-00-0	1%	0.0143869%
			Organic Polyol	112-27-6	15%	0.0130964%
			Diatomaceous Earth, Calcined (kieselguhr)	91053-39-3	70%	0.0113301%
			Potassium Hydroxide	1310-58-3	30%	0.0102791%
			Ammonium Persulphate	7727-54-0	100%	0.0101162%
			Sodium Tetraborate	1303-96-4	30%	0.0093215%
			Nonionic Alkoxylate	70559-25-0	10%	0.0087309%
			Glycerin	8043-29-6	25%	0.0077679%
			Glutaraldehyde	111-30-8	30%	0.005255%
			Orange Terpene	68647-72-3	5%	0.0043655%
			Surfactant	68131-39-5	1.5%	0.0030558%
			Sodium Chloride	7647-14-5	5%	0.0027754%
			Sorbitan, mono-(9Z)-9-octadecenoate	1338-43-8	5%	0.0027628%
			Oxyalkylated alcohol	78330-21-9	5%	0.0027628%
			Polyoxyethylene sorbitan monooleate	9005-65-6	5%	0.0027628%
			Mineral Oil	8042-47-5	15%	0.0024279%
			Acetic acid ethenyl ester, polymer with ethene	24937-78-8	15%	0.0024279%
			2-Mercaptoethanol	60-24-2	100%	0.0023562%
			Clay	12174-11-7	3%	0.0017046%
			Diatomaceous Earth, Natural (kieselguhr)	61790-53-2	10%	0.0016186%
			Vinylidene Chloride-Methyl Acrylate Polymer	25038-72-6	25%	0.0012573%
			Cellulose	9004-32-4	2%	0.0011364%
			Methanol	67-56-1	60%	0.0008879%
			Sodium glycolate	2836-32-0	1%	0.0005682%
			Sodium bisulfate	7681-38-1	1%	0.0005682%
			Sodium chloride	7647-14-5	1%	0.0005682%
			Acrylamide-acrylic acid copolymer, sulfomethylated,	EPA Acct 108431	1%	0.0005682%
			Crystalline Silica Quartz	14808-60-7	1%	0.0005682%
			Sodium formaldehyde bisulfate	870-72-4	1%	0.0005682%
			Polyoxyalkylenes	68951-67-7	30%	0.0004221%
			Thiourea Polymer	68527-49-1	30%	0.0004221%
			Fatty Acids	61790-12-3	30%	0.0004221%
			Crystalline Silica (Cristobalite)	14464-46-1	1%	0.0001619%
			Propargyl Alcohol	107-19-7	10%	0.0001407%
			Cupric Chloride	7447-39-4	5%	0.0001178%
			Ammonium Hydroxide	1336-21-6	5%	0.0001178%
			Olefin	64743-02-8	5%	7.03E-06%
			Glycerol	56-81-5	0.5%	5.81E-06%
			Beta-Mannanases	37288-54-3	0.45%	5.05E-06%
			Hydrated Magnesium Silicate	14807-96-6	1%	5.03E-06%
			Poly (Tetrafluoroethylene)	9002-84-0	0.5%	2.51E-06%
			Formaldehyde	50-00-0	0.05%	7E-07%
			Magnesium nitrate	10377-60-3	0%	6E-07%
			Magnesium chloride	7786-30-3	0%	6E-07%
			2-methyl-4-isothiazolin-3-one	2682-20-4	0%	6E-07%
			5-Chloro-2-methyl-3 (2H)-Isothiazolone	26172-55-4	0%	6E-07%

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: Sara Cook

Date: 7/24/2015

E-mail Address: sara.cook@dvn.com

Title: Regulatory Associate

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