

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:
30-025-40389

2. Well Name:
MALACHITE 22 FEDERAL #002H

3. Well Number:
002H

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒Original
☐Amendment

4. Surface Hole Location:
Unit:C Lot:C Section:22 Township:19S Range:33E
Feet from:330 N/S Line:N
Feet from:1465 E/W Line:W

5. Bottom Hole Location:
Unit:C Lot:C Section:22 Township:19S Range:33E
Feet from:330 N/S Line:N
Feet from:1465 E/W Line:W

6. Latitude:
32.6520423139501 Longitude:
-103.654778464941

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:
1/26/2015 Frac Performed by:
Baker Hughes

12. Production Type:
O

13. Pool Code(s):
59475

14. Gross Fractured Interval:
9,500 ft to 13,552 ft

15. True Vertical Depth (TVD):
9,290 ft

16. Total Volume of Fluid Pumped:
4,375,081 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%	84.5612143%
HCl, 10.1 – 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.1275423%
Sand White-30/50, Sand White-100 mesh, Super LC-20	Baker Hughes	Proppant, Tension Reducer, Gelling Agent, Clay Control, Friction Reducer, Biocide, Paraffin Inhibitor	Crystalline Silica (Quartz)	14808-60-7	100%	12.6132415%
			Silicon Dioxide (Silica Sand)	14808-60-7	97%	1.4421843%
			Water	7732-18-5	97%	0.8525662%
			Hydrochloric Acid	7647-01-0	15%	0.1275423%
			Guar Gum	9000-30-0	100%	0.0953032%
			PiF Resin	9003-35-4	5%	0.0743304%
			Choline Chloride	67-48-1	75%	0.0333881%
			Polyethers	68815-65-6	30%	0.0276697%
			Isopropanol	67-63-0	30%	0.0275697%
			1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-, polymer with 2-propanamide, sodium salt	83446-68-8	60%	0.021388%
			Hydrotreated Light Distillate	64742-47-8	30%	0.013934%
			Organic Polyol	112-27-6	15%	0.0137848%
			Diatomaceous Earth, Calcined (kieselguhr)	91053-39-3	70%	0.0129814%
			Mineral Oil	8042-47-5	70%	0.0097698%
			Methanol	67-56-1	60%	0.0083666%
			Nonionic Alkoxylate	70559-25-0	10%	0.0091899%
			Poly (Oxyethylene)	9016-45-9	50%	0.008473%
			Nonylphenol Ether			
			Glutaraldehyde	111-30-8	30%	0.008161%
			Ammonium Persulphate	7727-54-0	100%	0.006437%
			Orange Terpene	68647-72-3	5%	0.0045949%
			Surfactant	68131-39-5	1.5%	0.0032165%
			Paraffinic Petroleum Distillate	64742-55-8	30%	0.0029949%
			Acetic acid ethenyl ester, polymer with ethene	24937-78-8	15%	0.0027817%
			2-Mercaptoethanol	60-24-2	100%	0.0025536%
			Diatomaceous Earth, Natural (kieselguhr)	61790-53-2	10%	0.0018545%
			Sodium Chloride	7647-14-5	5%	0.0017997%
			Oxyalkylated alcohol	78330-21-9	5%	0.0017823%
			Polyoxyethylene sorbitan monooleate	9005-65-6	5%	0.0017823%
			Sorbitan, mono-(9Z)-9-octadecenoate	1338-43-8	5%	0.0017823%
			Vinylidene Chloride-Methyl Acrylate Polymer	25038-72-6	25%	0.000678%
			Ulexite Mineral	1319-33-1	40%	0.0005151%
			Acrylic Polymers	26006-22-4	60%	0.0004903%
			Fatty Acids	61790-12-3	30%	0.0004128%
			Thiourea Polymer	68527-49-1	30%	0.0004128%
			Polyoxyalkylenes	68951-67-7	30%	0.0004128%
			Potassium Formate	590-29-4	30%	0.0003863%
			Oxyalkylated Amine Quaternary	138879-94-4	60%	0.0002736%
			Hemicellulase Enzyme Concentrate	9025-56-3	3%	0.0002551%
			Nonionic glycol ester	68400-71-5	25%	0.001975%
			Crystalline Silica (Cristobalite)	14464-46-1	1%	0.0001854%
			Hexamethylenetetramine	100-97-0	0.01%	0.0001487%
			Propargyl Alcohol	107-19-7	10%	0.0001376%
			Ammonium Hydroxide	1336-21-6	5%	0.0001277%
			Cupric Chloride	7447-39-4	5%	0.0001277%
			Propylene Glycol	57-55-6	15%	0.0001185%
			Olefin	64743-02-8	5%	6.88E-05%
			Oxyalkylated Alkylphenol	9016-45-9	5%	4.08E-05%
			Clay	12174-11-7	3%	3.38E-05%
			Hydrated Magnesium Silicate	14807-96-6	1%	2.71E-05%
			Cellulose	9004-32-4	2%	2.58E-05%
			Sodium octylimodipropionate	94441-92-6	3%	2.37E-05%
			Benzenesulfonic acid, hexadecyl(sulfo)phenoxy)-, disodium salt	65143-89-7	2%	1.58E-05%
			Fatty Acid Esters	67701-32-0	1.9%	1.55E-05%
			Poly (Tetrafluoroethylene)	9002-84-0	0.5%	1.36E-05%
			Sodium formaldehyde bisulfate	870-72-4	1%	1.29E-05%
			Sodium glycolate	2836-32-0	1%	1.29E-05%
			Sodium bisulfate	7681-30-1	1%	1.29E-05%
			Crystalline Silica Quartz	14808-60-7	1%	1.29E-05%
			Sodium chloride	7647-14-5	1%	1.29E-05%
			Acrylamide-acrylic acid copolymer, sulfomethylated,	EPA Acct 108431	1%	1.29E-05%
			Sodium lauriminodipropionate	14960-06-6	1%	7.9E-06%
			Xylene	1330-20-7	0.6%	4.9E-06%
			diester of sulfosuccinic acid sodium salt	2673-22-5	0.5%	4.1E-06%
			Fatty Acid Oxyalkylate	70142-34-6	0.2%	1.6E-06%
			Formaldehyde	50-00-0	0.05%	7E-07%
			Magnesium chloride	7786-30-3	0%	0%
			Magnesium nitrate	10377-60-3	0%	0%
			5-Chloro-2-methyl-3(2H)-isothiazolone	26172-55-4	0%	0%
			2-methyl-4-isothiazolin-3-one	2682-20-4	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: Sara Cook Title: Regulatory Associate

Date: 6/8/2015

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

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