

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:
30-015-42033

2. Well Name:
ARCTURUS 18 FEDERAL COM #008H

3. Well Number:
008H

4. Surface Hole Location:
Unit:M Lot:M Section:17 Township:19S Range:31E
Feet from:300 N/S Line:S
Feet from:312 E/W Line:W

5. Bottom Hole Location:
Unit:M Lot:M Section:17 Township:19S Range:31E
Feet from:300 N/S Line:S
Feet from:312 E/W Line:W

6. latitude: 32.6539834637248 longitude: -103.899074291283

7. County:
Eddy

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

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: 10/7/2014 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
97020

14. Gross Fractured Interval:
Confidential

15. True Vertical Depth (TVD):
7,917 ft

16. Total Volume of Fluid Pumped:
5,628,367 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	Fresh Water	7732-18-5	100%	87.14839%
FE ACID - >10% HCL	Halliburton	Solvent	Hydrochloric acid	7647-01-0	30%	0.15456%
Premium White 30/50	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	8.60778%
CRC 20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	3.27793%
			Hexamethylenetetramine	100-97-0	2%	0.06556%
			Phenol / formaldehyde resin	9003-35-4	5%	0.1639%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.02069%
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.02069%
LoSurf-360W	Halliburton	Surfactant	Complex alkylamine	Confidential Business Information	5%	0.00377%
			Glycerine	56-81-5	10%	0.00754%
			Poly(oxy-1,2-ethanedilyl), ,alpha -isodecyl- omega -hydroxy-	61827-42-7	30%	0.02261%
FR-66	Halliburton	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8	30%	0.0093%
Cla-Web™	Halliburton	Additive	Ammonium salt	Confidential Business Information	60%	0.02762%
CL-31 CROSSLINKER	Halliburton	Crosslinker	Potassium hydroxide	1310-58-3	5%	0.00055%
			Potassium metaborate	13709-94-9	60%	0.00659%
CL-22 UC	Halliburton	Crosslinker	Potassium formate	590-29-4	60%	0.01927%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.00416%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00019%
OptiKleen-WF™	Halliburton	Concentrate	Sodium perborate tetrahydrate	10486-00-7	100%	0.00332%
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.00446%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Crystalline silica, quartz	14808-60-7	30%	0.00134%
K-34	Halliburton	Buffer	Guar gum	9000-30-0	100%	0.12475%
			Sodium bicarbonate	144-55-8	100%	0.00028%
Ingredients Listed Below This Line Are Part of the			Acetic acid	64-19-7	0%	0%
			Acetic anhydride	108-24-7	0%	0%
			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%
			Citric acid	77-92-9	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 glycolate	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: Sara Cook

Date: 12/15/2014

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

Title: Regulatory Associate

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.