

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

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original
☐ Amendment

1. WELL API NO:
30-045-33989

2. Well Name:
PIERCE FEDERAL A #002F

3. Well Number:
002F

4. Surface Hole Location:
Unit:F Lot:F Section:34 Township:29N Range:10W
Feet from:1975 N/S Line:N
Feet from:1665 E/W Line:W

5. Bottom Hole Location:
Unit:F Lot:F Section:34 Township:29N Range:10W
Feet from:1975 N/S Line:N
Feet from:1665 E/W Line:W

6. latitude: 36.6843224 longitude: -107.8751602

7. County: San Juan

8. Operator Name and Address:
BURLINGTON RESOURCES OIL & GAS COMPANY LP
3401 E. 30TH STREET
FARMINGTON 87402

9. OGRID: 14538

10. Phone Number: 505-326-9837

11. Last Fracture Date: 8/5/2016 Frac Performed by: HES

12. Production Type:
G

13. Pool Code(s):
72319

14. Gross Fractured Interval:
3,840 ft to 4,408 ft

15. True Vertical Depth (TVD):
6,498 ft

16. Total Volume of Fluid Pumped:
71,241 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	Water	7732-18-5	100%	64.42763%
AQF-2 FOAMING AGENT	Halliburton	Foaming Agent	Listed Below	Listed Below	0%	0%
BE-6 MICROBIOCID	Halliburton	Biocide	Listed Below	Listed Below	0%	0%
FERCHEK A REDUCING AGENT	Halliburton	Iron Reducing Agent	Listed Below	Listed Below	0%	0%
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Listed Below	Listed Below	0%	0%
HYDROCHLORIC ACID	Halliburton	Solvent	Listed Below	Listed Below	0%	0%
LOSURF-300D	Halliburton	Non-ionic Surfactant	Listed Below	Listed Below	0%	0%
NITROGEN LIQUEFIED	Halliburton	Fluid	Listed Below	Listed Below	0%	0%
OptiKleen-WF(TM)	Halliburton	Concentrate	Listed Below	Listed Below	0%	0%
SAND-PREMIUM WHITE- 20/40, 55 LB SACK	Halliburton	Proppant	Listed Below	Listed Below	0%	0%
FR-76	Halliburton	Friction Reducer	Listed Below	Listed Below	0%	0%
MSDS and Non-MSDS Ingredients are listed below the			1,2,4 Trimethylbenzene	95-63-6	1%	0.00037%
			2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	0.00163%
			Citric acid	77-92-9	60%	0.00111%
			Copper dichloride	7447-39-4	1%	2E-05%
			Crystalline silica, quartz	14808-60-7	100%	16.26772%
			Diethylene glycol	111-46-6	10%	0.02157%
			Ethanol	64-17-5	60%	0.02202%
			Ethoxylated alcohols	Proprietary	30%	0.00048%
			Ethylene glycol monobutyl ether	111-76-2	30%	0.06472%
			Fatty acids, tall oil	Proprietary	30%	0.00048%
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.01101%
			Hydrochloric acid	7647-01-0	60%	0.48914%
			Hydrotreated light petroleum distillate	64742-47-8	30%	0.02126%
			Hydroxylamine hydrochloride	5470-11-1	60%	0.00111%
			Inorganic Salt	Proprietary	30%	0.02126%
			Methanol	67-56-1	60%	0.00096%
			Naphthalene	91-20-3	5%	0.00183%
			Nitrogen	7727-37-9	100%	18.15727%
			Olefins	Proprietary	5%	0.00019%
			Oxylated phenolic resin	Proprietary	30%	0.01468%
			Poly (oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5%	0.00183%
			Propargyl alcohol	107-19-7	10%	0.00016%
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	30%	0.00048%
			Salts of alphatic sulfonic acids	Proprietary	60%	0.12944%
			Silica, amorphous - fumed	7631-86-9	5%	9E-05%
			Sodium perborate tetrahydrate	10486-00-7	100%	0.0038%
			Water	7732-18-5	100%	0.94467%

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: 9/6/2016
E-mail Address: Dollie.L.Busse@conocophillips.com

Printed Name: Dollie L Busse

Title: Regulatory Technician

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.