

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

4. Surface Hole Location:
Unit:A Lot:A Section:16 Township:21S Range:27E
Feet from:660 N/S Line:N
Feet from:660 E/W Line:E

5. Bottom Hole Location:
Unit:A Lot:A Section:16 Township:21S Range:27E
Feet from:660 N/S Line:N
Feet from:660 E/W Line:E

6. latitude: longitude:
32.4851892805622 -104.188543574023

7. County:
Eddy

8. Operator Name and Address:
NADEL AND GUSSMAN PERMIAN, LLC
601 N MARIENFELD
SUITE 508
MIDLAND 79701

9. OGRID: 155615

10. Phone Number:

11. Last Fracture Date: 10/25/2014 Frac Performed by: CUDD ENERGY SERVICES

12. Production Type:
G

13. Pool Code(s):
73280

14. Gross Fractured Interval:
10,650 ft to 10,673 ft

15. True Vertical Depth (TVD):
11,800 ft

16. Total Volume of Fluid Pumped:
49,602 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	Base Carrier Fluid	Water	7732-18-5	100%	86.24615%
Sand	Multiple Suppliers	Proppants	Silicon Dioxide	14808-60-7	100%	6.93138%
7.5% Hydrochloric Acid	Reagent	Scale Dissolver	Water	7732-18-5	92.5%	5.53613%
			36% Hydrochloric Acid	7647-01-0	7.5%	0.44888%
SG-15G	PIP Technology	Gelling Agents	Petroleum Distillate (Mineral Oil)	64742-47-8	55%	0.33169%
			Guar Gum	9000-30-0	50%	0.30154%
			Surfactant	68439-51-0	2%	0.01206%
			Bentonite Clay	14808-60-7	2%	0.01206%
FE-4	Chemplex, L.C.	Iron Controller / Reducers	Water	7732-18-5	55%	0.01877%
			Citric Acid Anhydrous	77-92-9	55%	0.01877%
NE-227	CESI	Non and De-Emulsifiers	Ethoxylated Nonylphenol	9016-45-9	20%	0.01421%
			Methanol	67-56-1	15%	0.01066%
			Isopropanol	67-63-0	15%	0.01066%
CS-14	Chemplex, L.C.	Clay Control / Stabilizers	Non-Hazardous salts (Choline Chloride)	67-48-1	62%	0.01416%
			Water	7732-18-5	38%	0.00868%
CS-135	Chemplex, L.C.	Clay Control / Stabilizers	Polycationic Organic Polymer	Proprietary	50%	0.01962%
			Water	7732-18-5	0.5%	0.00029%
FR-620	Chemplex	Friction Reducers	Cationic Polyacrylamide copolymer	Proprietary	35%	0.0056%
			Water	7732-18-5	35%	0.0056%
			Petroleum Distillate	64742-47-8	30%	0.0048%
			Alcohol Ethoxylate Surfactants	Proprietary	8%	0.00128%
			Sodium Chloride	7647-14-5	2%	0.00032%
I-122	Chemplex, L.C.	Acid Corrosion Inhibitors	Methanol	67-56-1	70%	0.00695%
			Alcohol Ethoxylate Surfactants	Proprietary	30%	0.00298%
			thiourea-formaldehyde copolymer	68527-49-1	30%	0.00298%
			n-olefins	Proprietary	10%	0.00099%
			Propargyl alcohol	107-19-7	8%	0.00079%
BF-200	ASK	Buffers / Ph Control	Water	7732-18-5	80%	0.01089%
			Potassium Hydroxide	1310-58-3	25%	0.0034%
CX-14A	Benchmark	Crosslinkers	Proprietary	Proprietary	75%	0.00938%
			Sodium Tetraborate	1330-43-4	25%	0.00313%
S-222	Chemplex, L.C.	Surfactants	Water	7732-18-5	65%	0.00345%
			2-butoxyethanol	111-76-2	15%	0.0008%
			Methanol	67-56-1	15%	0.0008%
			Surfactant based on cocamide	Trade Secret	10%	0.00053%
			Diethanolamine	111-42-2	5%	0.00027%
			Nonionic Fluorosurfactant	Trade Secret	1%	5E-05%
NE-217	Chemplex, L.C.	Non and De-Emulsifiers	Methyl Alcohol	67-56-1	60%	0.00306%
			Proprietary	Proprietary	30%	0.00153%
			Napthalene	91-20-3	10%	0.00051%
			Heavy Aromatic Petroleum Naptha	64742-94-5	10%	0.00051%
GB-2	Fritz Industries, inc.	Gel Breakers / Delayed Breakers	Ammonium Persulfate	7727-54-0	100%	0.00461%

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: Sarah Presley

Date: 12/15/2014

E-mail Address: spresley@naguss.com

Title: Regulatory Analyst

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.