

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:
30-025-41337

2. Well Name:
NORTHEAST DRINKARD UNIT #846

3. Well Number:
846

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:F Lot:F Section:23 Township:21S Range:37E
Feet from:1485 N/S Line:N
Feet from:2035 E/W Line:W

5. Bottom Hole Location:
Unit:F Lot:F Section:23 Township:21S Range:37E
Feet from:1485 N/S Line:N
Feet from:2035 E/W Line:W

6. latitude:
32.4675393815969 longitude:
-103.135683751109

7. County:
Lea

8. Operator Name and Address:
APACHE CORP
303 Veterans Airpark Lane
Suite 3000
Midland 79705

9. OGRID:
873

10. Phone Number:
432-818-1062

11. Last Fracture Date:
2/21/2014 Frac Performed by: Baker Hughes

12. Production Type:
O

13. Pool Code(s):
22900

14. Gross Fractured Interval:
5,530 ft to 6,609 ft

15. True Vertical Depth (TVD):
6,466 ft

16. Total Volume of Fluid Pumped:
308,868 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	Baker Hughes	Carrier	Water	7732-18-5	100%	77.580491%
Chlorine Dioxide	Baker Hughes	Biocide	Chlorine Dioxide	10049-04-4	0.3%	0%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.911216%
			Water	7732-18-5	85%	5.163559%
Enzyme G-I	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	9025-56-3	3%	0.001363%
			Water	7732-18-5	97%	0.044058%
Alpha 125	Baker Hughes	Biocide	Glutaraldehyde	111-30-8	30%	0.005357%
GW-3LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60%	0.268307%
			Petroleum Distillates	64742-47-8	30%	0.134154%
			Paraffinic Petroleum Distillate	64742-55-8	30%	0.134154%
			Crystalline Silica, Quartz (SiO2)	14808-60-7	5%	0.022359%
			Isotridecanol, ethoxylated	9043-30-5	5%	0.022359%
			1-Butoxy-2-Propanol	5131-66-8	5%	0.022359%
			Aliphatic Propylene Glycol Ethers	Trade Secret	0.08%	0.000358%
BF-7L	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60%	0.074482%
			Water	7732-18-5	60%	0.074482%
			Potassium Hydroxide	1310-58-3	1%	0.001241%
AG-12	Baker Hughes	Gelling Agent	Distillates, Petroleum, Hydrotreated Middle	64742-47-8	21.1%	0.000277%
			Acrylic Polymers	26006-22-4	50%	0.000656%
			Inorganic Solvent	Trade Secret	23.9%	0.000313%
			Fatty Acid Esters	Trade Secret	1.9%	2.5E-05%
			Oxalkylated Alkylphenol	Trade Secret	1.8%	2.4E-05%
			Aromatic Hydrocarbon	Trade Secret	0.6%	8E-06%
			Fatty Acid Oxalkylate	Trade Secret	0.2%	3E-06%
			Aliphatic sulfonate	Trade Secret	0.5%	7E-06%
Scaletrol 720	Baker Hughes	Scale Inhibitor	Ethylene Glycol	107-21-1	30%	0.025348%
			Calcium Chloride	10043-52-4	5%	0.004225%
NE-23	Baker Hughes	Non-emulsifier	Isopropanol	67-63-0	30%	0.00162%
Ferrotrol 280L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.016306%
			Ammonium Hydroxide	1336-21-6	5%	0.000815%
			Cupric Chloride	7447-39-4	5%	0.000815%
			Petroleum Distillates	64742-47-8	30%	0.001598%
FRW-18	Baker Hughes	Friction Reducer	Sodium Tetraborate	1303-96-4	30%	0.029725%
			Glyoxal	107-22-2	30%	0.029725%
XLW-24	Baker Hughes	Crosslinker	Sodium Glycolate	2836-32-0	10%	0.009908%
ClayCare	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.056108%
			Water	7732-18-5	30%	0.022443%
CI-14	Baker Hughes	Corrosion Inhibitor	Formaldehyde	50-00-0	1%	8.5E-05%
			Hydrochloric acid	7647-01-0	1%	8.5E-05%
			Water	7732-18-5	1%	8.5E-05%
			Modified Thiourea Polymer	68527-49-1	7%	0.000596%
Activator	Baker Hughes	Activator	Methanol	67-56-1	50%	0.116885%
			Alcohols, C12-14-Secondary, Ethoxylated	84133-50-6	70%	0.163638%
NE-35	Baker Hughes	Non-emulsifier	Propylene Glycol	57-55-6	30%	0.021865%
			Mixture of Surfactants	Trade Secret	50%	0.036442%
GBW-5	Baker Hughes	Breaker	Ammonium Persulfate	7727-54-0	100%	0.002109%
X-cide 207	Baker Hughes	Biocide	5-Chloro-2-Methyl-4-Isothiazolin-3-One	26172-55-4	10%	0.00028%
			2-Methyl-4-Isothiazolin-3-One	2682-20-4	5%	0.00014%
			Magnesium Nitrate	10377-60-3	10%	0.00028%
			Magnesium Chloride	7786-30-3	5%	0.00014%
			Diatomaceous Earth, Calcined	91053-39-3	60%	0.001681%
			Crystalline Silica: Cristobalite	14464-46-1	1%	2.8E-05%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	2.8E-05%
SiberProp	Baker Hughes	Proppant	Quartz (SiO2)	14808-60-7	100%	14.839612%
Corrsorb 3600	Baker Hughes	Corrosion Inhibitor	Diatomaceous Earth, Calcined	9105-39-3	80%	0.01446%
			Quaternary Ammonium Chloride	61789-71	15.06%	0.002722%
			Acid Phosphate Ester	9046-01-9	5.47%	0.000989%
			Crystalline Silica Quartz	14808-60-7	1%	0.000181%
Ingredients shown above are subject to 29 CFR 1910			Ethoxylated Alcohol	Trade Secret	0%	0.000107%
			Ethylene Glycol	107-21-1	0%	0.00017%
			Fatty Acids	Trade secret	0%	0.000851%
			Methanol	67-56-1	0%	4.5E-05%
			Methanol	67-56-1	0%	0.008514%
			Olefin	Trade secret	0%	0.000426%
			Phosphoric Acid	7664-38-2	0%	2E-05%
			Poly (acrylamide-co-acrylic acid)	Trade Secret	0%	0.001598%
			Polyacrylate	Trade Secret	0%	0.016898%
			Polyoxyalkylenes	Trade secret	0%	0.002554%
			Polyoxyalkylenes	78330-21-9	0%	6.5E-05%
			Potassium Chloride	7447-40-7	0%	4.2E-05%
			Propargyl Alcohol	107-19-7	0%	0.000426%
			Salt	Trade Secret	0%	0.000268%
			Sodium Chloride	7647-14-5	0%	2.5E-05%
			Sorbitan Monooleate	Trade Secret	0%	0.000266%
			Thioglycolic Acid	68-11-1	0%	2.7E-05%
			Water	7732-18-5	0%	0.013392%
			Water	7732-18-5	0%	0.042246%
			Water	7732-18-5	0%	0.001957%
			Water	7732-18-5	0%	0.002663%
			Water	7732-18-5	0%	0.044587%
			Water	7732-18-5	0%	0.000278%

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:
Date:
E-mail Address:

Signed Electronically
3/21/2014
reesa.fisher@apachecorp.com

Printed Name: Reesa R. Holland

Title: Sr Staff Reg Tech

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.