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. 30-025-41577
2. Well Name: NORTHEAST DRINKARD UNIT #433
3. Well Number: 433
4. Surface Hole Location: Unit J Lot J Section 10 Township 21S Range 37E; Feet from 2610 N/S Line S; Feet from 1850 E/W Line E
5. Bottom Hole Location: Unit J Lot J Section 10 Township 21S Range 37E; Feet from 2610 N/S Line S; Feet from 1850 E/W Line E
6. latitude: 32.4933033506624 longitude: -103.148401786546
7. County: Lea

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original
☐ Amendment

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: 3/7/2014 Frac Performed by: Baker Hughes
12. Production Type: O
13. Pool Code(s): 22900
14. Gross Fractured Interval: 5,603 ft to 6,680 ft
15. True Vertical Depth (TVD): 6,680 ft
16. Total Volume of Fluid Pumped: 250,950 gals
17. Total Volume of Re-Use Water Pumped: NA
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%	75.31819%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.94481%
			Water	7732-18-5	85%	6.3539%
X-Cide 207	Baker Hughes	Biocide	2-Methyl-4-Isothiazolin-3-One	2682-20-4	5%	0.00019%
			5-Chloro-2-Methyl-4-Isothiazolin-3-One	26172-55-4	10%	0.00039%
Crystalline Silica: Cristobalite	Baker Hughes	Breaker	Crystalline Silica: Cristobalite	14464-46-1	1%	4E-05%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	4E-05%
			Diatomaceous Earth, Calcined	91053-39-3	60%	0.00233%
			Magnesium Chloride	7786-30-3	5%	0.00019%
			Magnesium Nitrate	10377-60-3	10%	0.00039%
Alpha 125	Baker Hughes	Biocide	Water	7732-18-5	75%	0.01601%
GBW-5	Baker Hughes	Breaker	Ammonium persulphate	7727-54-0	100%	0.00144%
Enzyme G-I	Baker Hughes	Breaker	Contains non-hazardous ingredients which are listed in in the non-MSDS section of the report	NA	100%	0.03872%
BF-7L	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60%	0.07091%
ClayTreat 4390	Baker Hughes	Clay Control	Non-hazardous ingredients (non-MSDS level ingredients are disclosed as dissociated components)	n/a	100%	0.07564%
CI-14	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	10%	0.00102%
			Methanol	67-56-1	100%	0.01018%
			Olefin	Trade Secret	5%	0.00051%
			Polyoxyalkylenes	Trade Secret	30%	0.00305%
			Propargyl Alcohol	107-19-7	5%	0.00051%
CorrSorb 3600, 25 lb pail	Baker Hughes	Corrosion Inhibitor	Acid Phosphate Ester	9046-01-9	10%	0.00108%
			Crystalline Silica: Quartz	14808-60-7	1%	0.00011%
			Ethylene Glycol	107-21-1	1%	0.00011%
			Quaternary Ammonium Compound	61789-71-7	30%	0.00324%
			Sodium Tetraborate	1303-96-4	30%	0.03136%
FLC-42	Baker Hughes	Fluid Loss Additive - 3lbm	Non-Hazardous Ingredient	Trade Secret	100%	0.045%
FRW-18	Baker Hughes	Friction Reducer	Petroleum Distillates	64742-47-8	30%	0.01651%
GW-3LDF	Baker Hughes	Gelling Agent	1-butoxy-2-propanol	5131-66-8	5%	0.02756%
			Crystalline Silica: Quartz	14808-60-7	5%	0.02756%
			Guar Gum	9000-30-0	60%	0.33071%
			Isotridecanol, ethoxylated	9043-30-5	5%	0.02756%
			Paraffinic Petroleum Distillate	64742-55-8	30%	0.16535%
			Petroleum Distillates	64742-47-8	30%	0.16535%
Ferrotrol 280L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.01851%
			Ammonium Hydroxide	1336-21-6	5%	0.00093%
			Cupric Chloride	7447-39-4	5%	0.00093%
NE-23, 55 gallon drum	Baker Hughes	Non-emulsifier	Isopropanol	67-63-0	30%	0.00202%
NE-35, 330 gl tote	Baker Hughes	Non-emulsifier	Mixture of Surfactants	Trade Secret	50%	0.03618%
			Propylene Glycol	57-55-6	30%	0.02171%
Preferred Garnet RC 16/30	Baker Hughes	Proppant	Castor Oil	8001-79-4	5%	0.81201%
			Crystalline Silica (Quartz)	14808-60-7	99%	15.91541%
			Iron Oxide (colorant)	1309-37-1	1%	0.1624%
Scaletrol 720	Baker Hughes	Scale Inhibitor	Calcium Chloride	10043-52-4	5%	0.00403%
			Ethylene Glycol	107-21-1	30%	0.02454%
Ingredients shown above are subjectto 29 CFR 1910			2-butoxy-1-propanol	15821-83-7	0%	0.00055112%
			Benzyl Chloride	100-44-7	0%	5.74E-05%
			Choline Chloride	67-48-1	0%	0.0567297%
			Ethoxylated Alcohol	Trade Secret	0%	0.0011071%
			Ethoxylated Nonylphenol	9016-45-9	0%	0.000337%
			Formaldehyde	50-00-0	0%	0.0001018%
			Glutaraldehyde	111-30-8	0%	0.0054033%
			Glycol Ether	Trade Secret	0%	0.000337%
			Hemicellulase Enzyme Concentrate	9025-56-3	0%	0.00118151%
			Hydrochloric Acid	7647-01-0	0%	0.00010181%
			Methanol	67-56-1	0%	5.34E-05%
			Modified Thiorea Polymer	68527-49-1	0%	0.0007125%
			Olefin Sulfonate	Trade Secret	0%	0.0040436%
			Poly (acrylamide-co-acrylic acid)	Trade Secret	0%	0.01669062%
			Polacrylate	Trade Secret	0%	0.01613578%
			Polyester	Trade Secret	0%	0.00101109%
			Potassium Chloride	7447-40-7	0%	4.09E-05%
			Potassium Hydroxide	1310-58-3	0%	0.00118181%
			Quaternary Amine Compounds	Trade Secret	0%	0.0020218%
			Salt	Trade Secret	0%	0.0027677%
			Sodium Chloride	7647-14-5	0%	2.45E-05%
			Sorbitan Monooleate	Trade Secret	0%	0.0027977%
			Water	7732-18-5	0%	0.2067648%

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: Reesa R. Holland Title: Sr Staff Reg Tech

Date: 4/9/2014

E-mail Address: reesa.fisher@apachecorp.com

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.