

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: 30-025-41584		
				2. Well Name: NORTHEAST DRINKARD UNIT #662		
				3. Well Number: 662		
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment				4. Surface Hole Location: Unit:B Lot:B Section:15 Township:21S Range:37E Feet from:1250 N/S Line:N Feet from:2065 E/W Line:E 5. Bottom Hole Location: Unit:B Lot:B Section:15 Township:21S Range:37E Feet from:1250 N/S Line:N Feet from:2065 E/W Line:E 6. latitude: 32.48269280391 longitude: -103.149056366305 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: 2/28/2014 Frac Performed by: Baker Hughes				12. Production Type: O		
13. Pool Code(s): 22900				14. Gross Fractured Interval: 5,593 ft to 6,654 ft		
15. True Vertical Depth (TVD): 6,654 ft				16. Total Volume of Fluid Pumped: 331,338 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	Carrier	Water	7732-18-5	100%	76.99094%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	1.19946%
X-Cide 207	Baker Hughes	Biocide	Water	7732-18-5	85%	6.79691%
			2-Methyl-4-Isothiazolin-3-One	2682-20-4	5%	0.00014%
			5-Chloro-2-Methyl-4-Isothiazolin-3-One	26172-55-4	10%	0.00028%
			Crystalline Silica: Cristobalite	14464-46-1	1%	3E-05%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	3E-05%
			Diatomaceous Earth, Calcined	91053-39-3	60%	0.00171%
			Magnesium Chloride	7786-30-3	5%	0.00014%
			Magnesium Nitrate	10377-60-3	10%	0.00028%
Alpha 125	Baker Hughes	Biocide	Water	7732-18-5	75%	0.01295%
GBW-5	Baker Hughes	Breaker	Ammonium persulfate	7727-54-0	100%	0.00223%
Enzyme G-II	Baker Hughes	Breaker	Contains non-hazardous ingredients which are listed in in the non-MSDS section of the report	N.A.	0%	0%
BF-7L	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60%	0.07354%
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.05685%
			Water	7732-18-5	30%	0.02814%
Cl-14	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	10%	0.00075%
			Methanol	67-56-1	100%	0.00748%
			Olefin	Trade Secret	5%	0.00037%
			Polyoxyalkylenes	Trade Secret	30%	0.00224%
			Propargyl Alcohol	107-19-7	5%	0.00037%
CorrSorb 3600, 25 lb can	Baker Hughes	Corrosion Inhibitor	Acid Phosphate Ester	9046-01-9	10%	0.00167%
			Crystalline Silica: Quartz	14808-60-7	1%	0.00017%
			Ethylene Glycol	107-21-1	1%	0.00017%
			Quaternary Ammonium Compound	61789-71-7	30%	0.00502%
XLW-24, tote	Baker Hughes	Crosslinker	Glyoxal	107-22-2	10%	0.00938%
FRW-18	Baker Hughes	Friction Reducer	Sodium Tetraborate	1303-96-4	30%	0.02814%
GW-3LDF	Baker Hughes	Gelling Agent	Petroleum Distillates	64742-47-8	30%	0.0014%
			1-butoxy-2-propanol	5131-66-8	5%	0.0284%
			Crystalline Silica: Quartz	14808-60-7	5%	0.0284%
			Guar Gum	9000-30-0	60%	0.34085%
			Isotridecanol, ethoxylated	9043-30-5	5%	0.0284%
			Paraffinic Petroleum Distillate	64742-55-8	30%	0.17042%
			Petroleum Distillates	64742-47-8	30%	0.17042%
AG-12	Baker Hughes	Gelling Agent	Acrylic Polymers	26006-22-4	50%	0.00063%
			Distillates, Petroleum, Hydrotreated Middle	64742-47-8	21.1%	0.00026%
Ferrotrol 280L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.01382%
			Ammonium Hydroxide	1336-21-6	5%	0.00069%
NE-23, 55 gallon drum	Baker Hughes	Non-emulsifier	Cupric Chloride	7447-39-4	5%	0.00069%
NE-35, 330 gi tote	Baker Hughes	Non-emulsifier	Isopropanol	67-63-0	30%	0.00157%
			Mixture of Surfactants	Trade Secret	50%	0.0344%
Preferred Garnet RC 16/30	Baker Hughes	Proppant	Propylene Glycol	57-55-6	30%	0.02064%
			Castor Oil	8001-79-4	5%	0.66063%
			Crystalline Silica (Quartz)	14808-60-7	98%	12.94831%
			Iron Oxide (colorant)	1309-37-1	1%	0.13213%
Scaletrol 720	Baker Hughes	Scale Inhibitor	Calcium Chloride	10043-52-4	5%	0.00358%
			Ethylene Glycol	107-21-1	30%	0.02149%
Ingredients shown above are subject to 29 CFR 1910			2-butoxy-1-propanol	15821-83-7	0%	0.0005681%
			Benzyl Chloride	100-44-7	0%	5.22E-05%
			Ethoxylated Alcohol	Trade Secret	0%	9.36E-05%
			Ethoxylated Nonylphenol			