

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 February 15, 2012					
		1. WELL API NO: 30-025-40789					
		2. Well Name: NORTHEAST DRINKARD UNIT #428					
		3. Well Number: 428					
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:K Lot:K Section:10 Township:21S Range:37E Feet from:2245 N/S Line:S Feet from:1815 E/W Line:W					
		5. Bottom Hole Location: Unit:K Lot:K Section:10 Township:21S Range:37E Feet from:2245 N/S Line:S Feet from:1815 E/W Line:W					
		6. Latitude: Longitude: 32.4926957448097 - 103.153441369003					
		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: 4/11/2013 Frac Performed by: Baker Hughes				12. Production Type: O			
13. Pool Code(s): 22900				14. Gross Fractured Interval: 5,729 ft to 6,765 ft			
15. True Vertical Depth (TVD): 6,765 ft				16. Total Volume of Fluid Pumped: 2,705 bbls			
17. 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%	72.58128%	
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.616%	
Superset-W, 330 gl tote	Baker Hughes	Activator	Water	7732-18-5	85%	3.49069%	
			Methanol	67-56-1	50%	0.1657%	
			Poly (Oxyethylene) Nonylphenol Ether	9016-45-9	50%	0.1657%	
X-Cide 207	Baker Hughes	Biocide	2-Methyl-4-Isothiazolin-3-One	2682-20-4	5%	0.00015%	
			5-Chloro-2-Methyl-4-Isothiazolin-3-One	26172-55-4	10%	0.00029%	
			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%	0.00175%	
			Magnesium Chloride	7786-30-3	5%	0.00015%	
			Magnesium Nitrate	10377-60-3	10%	0.00029%	
			Ammonium Phosphate	7727-54-0	100%	0.00536%	
GBW-5	Baker Hughes	Breaker	Enzyme solution	Trade Secret	100%	0.08864%	
GBW-15L	Baker Hughes	Breaker	Enzyme solution	Trade Secret	100%	0.08864%	
BF-7L, Tote	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60%	0.08306%	
			Potassium Hydroxide	1310-58-3	1%	0.00138%	
ClayCare, tote	Baker Hughes	Clay Control	Water	7732-18-5	60%	0.08306%	
			Choline Chloride	67-48-1	75%	0.06012%	
CI-14	Baker Hughes	Corrosion Inhibitor	Water	7732-18-5	30%	0.02405%	
			Fatty Acids	Trade Secret	10%	0.00028%	
			Olefin	Trade Secret	5%	0.00014%	
			Polyoxyalkylenes	Trade Secret	30%	0.00083%	
			Propargyl Alcohol	107-19-7	5%	0.00014%	
			Acid Phosphate Ester	9046-01-9	5.47%	0.00084%	
CorrSorb 3600, 25 lb pail	Baker Hughes	Corrosion Inhibitor	Crystalline Silica Quartz	14808-60-7	1%	0.00015%	
			Diatomaceous Earth, Calcined	91053-39-3	80%	0.01226%	
			Quaternary Ammonium Chloride	61789-71	15.06%	0.00231%	
XLW-24	Baker Hughes	Crosslinker	Glyoxal	107-22-2	10%	0.01105%	
			Sodium Tetraborate	1303-96-4	30%	0.03316%	
MaxPerm-20A, 265 gallon tote	Baker Hughes	Friction Reducer	Aliphatic Hydrocarbon	Trade Secret	30%	0.00123%	
			Oxyalkylated Alcohol	Trade Secret	5%	0.00021%	
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60%	0.40697%	
			Paraffinic Petroleum Distillate	64742-55-8	60%	0.40697%	
			Petroleum Distillate	64742-47-8	60%	0.40697%	
			2-Mercaptoethanol	60-24-2	100%	0.01407%	
Ferrotrol 280L	Baker Hughes	Iron Control	Ammonium Hydroxide	1336-21-6	5%	0.0007%	
			Cupric Chloride	7447-39-4	5%	0.0007%	
NE-23, 55 gallon drum	Baker Hughes	Non-emulsifier	Isopropanol	67-63-0	30%	0.00098%	
NE-35, 330 gl tote	Baker Hughes	Non-emulsifier	Mixture of Surfactants	Trade Secret	50%	0.04058%	
Super LC, 20/40	Baker Hughes	Proppant	Propylene Glycol	57-55-6	30%	0.02435%	
			Hexamethylenetetramine	1009-7-0	0.01%	0.00207%	
			P/F Resin	9003-35-4	5%	1.03693%	
			Silicon Dioxide (Silica Sand)	14808-60-7	97%	20.1165%	
Scaletrol 720	Baker Hughes	Scale Inhibitor	Calcium Chloride	10043-52-4	5%	0.00452%	
			Ethylene Glycol	107-21-1	30%	0.02714%	
			Anionic Terpolymer	Trade Secret	0%	0.0024633%	
			Benzyl Chloride	100-44-7	0%	3.26E-05%	
			EDTA	64-02-8	0%	2.1E-06%	
			Ethoxylated Nonylphenol	9016-45-9	0%	0.000163%	
			Ethylene Glycol	107-21-1	0%	0.0001441%	
			Formaldehyde	50-00-0	0%	2.78E-05%	
			Glycol Ether	Trade Secret	0%	0.000163%	
			Hydrochloric Acid	7647-01-0	0%	2.78E-05%	
			Inorganic Salt	7647-14-5	0%	0.0002053%	
			Methanol	67-56-1	0%	0.0027776%	
			Modified Thiorea Polymer	68527-49-1	0%	0.0001944%	
			Olefin Sulfonate	Trade Secret	0%	0.0019562%	
			Oxyalkylated Fatty Acid Derivative	Trade Secret	0%	0.0002053%	
			Phosphoric Acid	7664-38-2	0%	1.69E-05%	
			Polyacrylate	Trade Secret	0%	0.0180939%	
			Polyester	Trade Secret	0%	0.000489%	
			Polyol Ester	Trade Secret	0%	0.0002053%	
			Polyoxyalkylenes	78330-21-9	0%	5.52E-05%	
			Potassium Chloride	7447-40-7	0%	4.52E-05%	
			Quaternary Amine Compounds	Trade Secret	0%	0.0009781%	
			Sodium Chloride	7647-14-5	0%	2.71E-05%	
			Thioglycolic Acid	68-11-1	0%	2.3E-05%	
			Water	7732-18-5	0%	0.0519321%	
18. 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. Engineering Tech	
Date:		5/1/2013					
E-mail Address:		reesa.holland@apachecorp.com					
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