

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: 30-025-40798						
		2. Well Name: WERTA FEDERAL #002						
		3. Well Number: 002						
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:O Lot:O Section:35 Township:19S Range:38E Feet from:990 N/S Line:S Feet from:1650 E/W Line:E						
		5. Bottom Hole Location: Unit:O Lot:O Section:35 Township:19S Range:38E Feet from:990 N/S Line:S Feet from:1650 E/W Line:E						
		6. Latitude: 32.6121245008345 Longitude: - 103.11605443623						
		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: 11/9/2012 Frac Performed by: Baker Hughes		12. Production Type: O						
13. Pool Code(s): 33230, 33250, 33470		14. Gross Fractured Interval: 6,105 ft to 7,060 ft						
15. True Vertical Depth (TVD): 7,060 ft		16. Total Volume of Fluid Pumped: 8,993 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%	85.46539%		
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.43289%		
			Water	7732-18-5	85%	2.45306%		
			Glutaraldehyde	111-30-8	30%	0.00681%		
GBW-5	Baker Hughes	Breaker	Ammonium Phosphate	7727-54-0	100%	0.00217%		
GBW-15L	Baker Hughes	Breaker	Enzyme solution	Trade Secret	100%	0.03416%		
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.07091%		
			Water	7732-18-5	30%	0.02836%		
CI-14	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	10%	0.00069%		
			Olefin	Trade Secret	5%	0.00034%		
			Polyoxyalkylenes	Trade Secret	30%	0.00207%		
			Propargyl Alcohol	107-19-7	5%	0.00034%		
CorrSorb 3600, 25 lb pail	Baker Hughes	Corrosion Inhibitor	Acid Phosphate Ester	9046-01-9	5.47%	0.00059%		
			Crystalline Silica Quartz	14808-60-7	1%	0.00011%		
			Diatomaceous Earth, Calcined	91053-39-3	80%	0.00868%		
			Quaternary Ammonium Chloride	61789-71	15.06%	0.00163%		
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30%	0.02453%		
			Sodium Hydroxide	1310-73-2	10%	0.00818%		
			Sodium Tetraborate	1330-43-4	30%	0.02453%		
FRW-20	Baker Hughes	Friction Reducer	Petroleum Distillates	64742-47-8	30%	0.01202%		
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60%	0.18403%		
			Paraffinic Petroleum Distillate	64742-55-8	60%	0.18403%		
			Petroleum Distillate	64742-47-8	60%	0.18403%		
Ferotrol 280L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.00972%		
			Ammonium Hydroxide	1336-21-6	5%	0.00049%		
			Cupric Chloride	7447-39-4	5%	0.00049%		
NE-23	Baker Hughes	Non-emulsifier	Isopropanol	67-63-0	30%	0.00104%		
NE-35, 330 gl tote	Baker Hughes	Non-emulsifier	Mixture of Surfactants	Trade Secret	50%	0.00136%		
			Propylene Glycol	57-55-6	30%	0.00081%		
Sand, White, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	4.34432%		
Sand, White, 100 mesh	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	1.12896%		
Preferred Garnet RC 20/40	Baker Hughes	Proppant	Castor Oil	8001-79-4	5%	0.24672%		
			Crystalline Silica (Quartz)	14808-60-7	100%	4.93431%		
Scaletrol 767W	Baker Hughes	Scale Inhibitor	Methanol	67-56-1	30%	0.00684%		
			Organic Phosphonate	Trade Secret	30%	0.00684%		
InFlo 250G, 330 gl tote	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.02539%		
			Mixture of Surfactants	Trade Secret	50%	0.04231%		
			Water	7732-18-5	30%	0.02539%		
Ingredients shown above are subject to 29 CFR 1910			Aliphatic Hydrocarbon	Trade Secret	0%	0.0093329%		
			Ethylene Glycol	107-21-1	0%	0.000102%		
			Formaldehyde	50-00-0	0%	6.89E-05%		
			Hydrochloric Acid	7647-01-0	0%	6.89E-05%		
			Methanol	67-56-1	0%	0.0069431%		
			Modified Thiorea Polymer	68527-49-1	0%	0.000482%		
			Oxyalkylated Alcohol	Trade Secret	0%	0.0008011%		
			Phosphoric Acid	7664-38-2	0%	1.19E-05%		
			Polyglycol Ester	Trade Secret	0%	0.0003605%		
			Polyol Ester	Trade Secret	0%	0.0004406%		
			Polyoxyalkylenes	78330-21-9	0%	3.91E-05%		
			Sodium Chloride	7647-14-5	0%	0.0016022%		
			Thioglycolic Acid	68-11-1	0%	1.63E-05%		
			Vinyl Copolymer	Trade Secret	0%	0.0112155%		
			Water	7732-18-5	0%	0.0639372%		
			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: Fatima Vasquez Title: Regulatory Tech					
			Date: 1/24/2013					
			E-mail Address: fatima.vasquez@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.