

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. 30-025-41593 2. Well Name: WERTA FEDERAL #004 3. Well Number: 004
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit: Lot: Section: 35 Township: 19S Range: 38E Feet from: 1650 N/S Line: S Feet from: 990 E/W Line: E 5. Bottom Hole Location: Unit: Lot: Section: 35 Township: 19S Range: 38E Feet from: 1650 N/S Line: S Feet from: 990 E/W Line: E 6. Latitude: 32.6139565 Longitude: -103.113884 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: 6/24/2015 Frac Performed by: Chemplex		
12. Production Type: O		
13. Pool Code(s): 33230, 33250, 33470		
14. Gross Fractured Interval: 6,118 ft to 7,050 ft		
15. True Vertical Depth (TVD): 7,050 ft		
16. Total Volume of Fluid Pumped: 222,738 gals		
17. Total Volume of Re-Use Water Pumped: N/A		
18. Percent of Re-Use Water in Fluid Pumped: Not Disclosed		

10. 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	Customer	Carrier/Base Fluid	Water	7732-18-5	100%	82.36627%	
Sand (Proppant)	US Silica	Proppant	Silica Substrate	14808-60-7	100%	0%	
RCS (Proppant)	Momentive	Proppant	Silica Substrate	14808-60-7	100%	11.90631%	
Hydrochloric Acid (15%)	CNR	Acidizing	Hydrochloric Acid	7647-01-0	38.8%	1.94377%	
Claymax	Chemplex	Clay Stabilizer	Choline Chloride	67-48-1	62%	0.02261%	
4-N-1 Plus	Chemplex	Iron Control, Corr Inhib, Surfactant	Acetic Acid	64-19-7	80%	0.03052%	
			Methanol	67-56-1	10%	0.00381%	
Plexicide 24L	Chemplex	Biocide	Tetrahydro-3, Dimethyl-2H	533-74-4	24%	0%	
Plexset 730	Chemplex	Activator	Secondary Alcohol Ethoxylate	84133-50-6	50%	0%	
Plexsurf 240 E	Chemplex	Surfactant	Methyl Alcohol	67-56-1	20%	0.00721%	
			Alcohol Alkoxylate	Proprietary	20%	0.00721%	
Plexsick 953	Chemplex	Friction Reducer	Alcohol Ethoxylate Surfactants	Proprietary	8%	0.00094%	
			Hydroreated Petroleum Distillate	64742-47-8	30%	0.00353%	
			Polyacrylamide-co-Acrylic Acid	9003-06-9	31%	0.00364%	
AMA 398	Chemplex	Biocide	Tetrahydro-3, Dimethyl-2H	533-74-4	98%	0%	
Plexgel 907 LE	Chemplex	Polymer	Guar Gum	9000-30-0	50%	0.218%	
			Mineral Oil	64742-47-8	55%	0.2398%	
			Bentonite Clay	14808-60-7	2%	0.00872%	
			Surfactant	68439-51-0	2%	0.00872%	
Plexbor 101	Chemplex	Crosslinker	Ethylene Glycol	107-21-1	9.99%	0.01019%	
			Potassium Metaborate	13709-94-9	30%	0.03061%	
			Potassium Hydroxide	1310-58-3	5%	0.0051%	
Plexgel Breaker 10L	Chemplex	Gel Breaker	Mannanase Enzymes	Proprietary	2%	0.00067%	
			Sodium Chloride	7647-14-5	15%	0.00505%	
Sodium Persulfate	Chemplex	Gel Breaker	Sodium Persulfate	7775-27-1	98%	0.00172%	
Buffer 11	Chemplex	PH Control	Potassium Hydroxide	1310-58-3	23%	0%	
Greenhib 679	Chemplex	Scale Inhibitor	Glycerine	56-81-5	35%	0%	
			Proprietary	Proprietary	35%	0%	
			Water	7732-18-5	30%	0%	
Scalesorb 3	Baker Hughes	Scale Inhibitor	Diatomaceous earth, calcined	91053-39-3	69%	0%	
			Amino alkyl phosphonic acid	Proprietary	30%	0%	
			Phosphonic acid	13598-36-2	1%	0%	
			Crystalline silica: Quartz (SiO2)	14808-60-7	1%	0%	
Plexicide 15G	Chemplex, LC	Biocide	Glutaraldehyde	111-30-8	14%	0.00306%	
			Didecyl dimethyl ammonium chloride	7173-51-5	3%	0.00066%	
			Alkyl dimethyl benzyl ammonium chloride	68424-85-1	3%	0.00066%	
			Ethanol	64-17-5	3%	0.00066%	

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: <u>Signed Electronically</u>	Printed Name: <u>Reesa R. Holland</u>	Sr Staff Regulatory Title: <u>Analyst</u>
Date: <u>7/27/2015</u>		
E-mail Address: <u>reesa.fisher@apachecorp.com</u>		

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.

NOV 04 2015



Master Schematic

Well Name: WERTA FEDERAL 4

API/UWI 3002541593	Surface Legal Location	Field Name HOUSE	License #	State/Province NEW MEXICO	Well Purpose NEW DEV
Original KB Elevation (ft) 3,601.0	KB-Ground Distance (ft) 13.0	Ground Elevation (ft) 3,588.0	Casing Flange Elevation (ft)	Spud Date 1/18/2014 01:00	Original Drilling Rig Release 1/26/2014 23:59

Most Recent Job

Job Category LWO	Primary Job Type Land-Workover	Secondary Job Type Acid Frac	Start Date 6/18/2015	End Date
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TD: 7,420.0

NEW DEV - Original Hole, 00, 7/24/2015 10:49:47 AM

Vertical schematic (actual)

