

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. 30-025-35634				
		2. Well Name: TORO 22 STATE #004				
		3. Well Number: 004				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:F Lot:F Section:22 Township:19S Range:35E Feet from:1650 N/S Line:N Feet from:1880 E/W Line:W				
		5. Bottom Hole Location: Unit:F Lot:F Section:22 Township:19S Range:35E Feet from:1650 N/S Line:N Feet from:1880 E/W Line:W				
		6. latitude: 32.6487232395435 longitude: -103.447617561691				
		7. County: Lea				
8. Operator Name and Address: RKI EXPLORATION & PRODUCTION, LLC 210 PARK AVENUE SUITE 900 OKLAHOMA CITY 73102		9. OGRID: 246289	10. Phone Number: 405-996-5774			
11. Last Fracture Date: 8/4/2014 Frac Performed by: RKI EXPLORATION & PRODUCTION		12. Production Type: O				
13. Pool Code(s): 97098		14. Gross Fractured Interval: Confidential				
15. True Vertical Depth (TVD): 7,669 ft		16. Total Volume of Fluid Pumped: 67,746 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	Customer	Carrier/Base Fluid	Water	7732-18-5	100%	67.41282%
Sand (Proppant)	US Silica	Proppant	Silica Substrate	14808-60-7	100%	23.84858%
RCS (Proppant)	Momentive	Proppant	Silica Substrate	14808-60-7	100%	2.38486%
Hydrochloric Acid (15%)	CNR	Acidizing	Hydrochloric Acid	7647-01-0	38.8%	2.0849%
Claymax	Chemplex	Clay Stabilizer	Choline Chloride	67-48-1	62%	0.04753%
4-N-1 Plus	Chemplex	Iron Control, Corr Inhib, Surfactant	Acetic Acid Methanol	64-19-7 67-56-1	80% 10%	0.01624% 0.00203%
Plexcide 24L	Chemplex	Biocide	Tetrahydro-3,Dimethyl- 2H	533-74-4	24%	0.00609%
Plexset 730	Chemplex	Activator	Secondary Alcohol Ethoxylate	84133-50-6	50%	0.01834%
Plexsurf 580 ME	Chemplex	Surfactant	Methyl Alcohol 2-Butoxyethanol	67-56-1 111-76-2	10% 50%	0.00686% 0.03431%
Plexslick 953	Chemplex	Friction Reducer	Alcohol Ethoxylate Surfactants Hydrotreated Petroleum Distillate Polyacrylamide-co- Acrylic Acid	Proprietary 64742-47-8 9003-06-9	8% 30% 31%	0% 0% 0%
AMA 398	Chemplex	Biocide	Tetrahydro-3,Dimethyl- 2H	533-74-4	98%	0.0028%
Plexgel 907 LE	Chemplex	Polymer	Guar Gum Mineral Oil Bentonite Clay Surfactant	9000-30-0 64742-47-8 14808-60-7 68439-51-0	50% 55% 2% 2%	0.21806% 0.23987% 0.00872% 0.00872%
Plexbor 101	Chemplex	Crosslinker	Ethylene Glycol Potassium Metaborate Potassium Hydroxide	107-21-1 13709-94-9 1310-58-3	9.99% 30% 5%	0.01282% 0.03851% 0.00642%
Plexgel Breaker 10L	Chemplex	Gel Breaker	Mannanase Enzymes Sodium Chloride	Proprietary 7647-14-5	2% 15%	0.00302% 0.02261%
Sodium Persulfate	Chemplex	Gel Breaker	Sodium Persulfate	7775-27-1	98%	0.00584%
Buffer 11	Chemplex	PH Control	Potassium Hydroxide	1310-58-3	23%	0%
Greenhib 679	Chemplex	Scale Inhibitor	Glycerine Proprietary Water	56-81-5 Proprietary 7732-18-5	35% 35% 30%	0.01001% 0.01001% 0.00858%
Scalesorb 3	Baker Hughes	Scale Inhibitor	Diatomaceous earth, calcined Amino alkyl phosphonic acid Phosphonic acid Crystalline silica: Quartz (SiO2)	91053-39-3 Proprietary 13598-36-2 14808-60-7	69% 30% 1% 1%	0% 0% 0% 0%
Plexgel Breaker XPA	Chemplex, LC	Gel Breaker	Hydrogen Peroxide	7722-84-1	7%	0%
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:	Heather Brehm	Title: Regulatory analyst		
Date:	9/9/2014					
E-mail Address:	hbrehm@rkixp.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.