

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: 30-015-40641				
		2. Well Name: RDX 17 FEDERAL COM #011H				
		3. Well Number: 011H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:N Lot:N Section:17 Township:26S Range:30E Feet from:205 N/S Line:S Feet from:2130 E/W Line:W				
		5. Bottom Hole Location: Unit:N Lot:N Section:17 Township:26S Range:30E Feet from:205 N/S Line:S Feet from:2130 E/W Line:W				
		6. Latitude: 32.0357919121913 longitude: -103.905151904711				
		7. County: Eddy				
8. Operator Name and Address: RKI EXPLORATION & PRODUCTION, LLC 3817 NW EXPRESSWAY SUITE 950 OKLAHOMA CITY 73112		9. OGRID: 246289	10. Phone Number: 405-949-2221			
11. Last Fracture Date: 1/7/2013 Frac Performed by: Halliburton		12. Production Type: O				
13. Pool Code(s): 97863		14. Gross Fractured Interval: Confidential				
15. True Vertical Depth (TVD): 12,196 ft		16. Total Volume of Fluid Pumped: 93,708 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	RKI Exploration & Production	Carrier / Base Fluid	Carrier / Base Fluid - Water		100%	89.2942%
Ottawa Sand 40/70 (2.63 sg)	WFT	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	100%	5.7548%
Super LC 20/40 (2.51 sg)	WFT	Proppant	Crystalline Silica (Quartz)	14808-60-7	72.98%	0.9745%
			Formaldehyde	50-00-0	0.01%	0.0001%
			Hexamethylenetetramine	100-97-0	1%	0.0134%
			Hydrated Aluminum Silicate	1332-58-7	5%	0.0668%
			Iron Oxide (fume)	1309-37-1	15%	0.2003%
100 Mesh Sand	WFT	Proppant	Phenol	108-95-2	0.01%	0.0001%
			Phenol-Formaldehyde Resin	9003-35-4	6%	0.0801%
			Crystalline Silica in the form of Quartz	14808-60-7	100%	2.1009%
WBK-133	WFT	Breaker	Ammonium Persulfate	7727-54-0	100%	0.0024%
WBK-134	WFT	Breaker	Ammonium Persulfate	7727-54-0	75%	0.0019%
Superset W	Santrol	Activator	Methanol	67-56-1	50%	0.0251%
			Poly(oxyethylene) nonylphenol ether	9016-45-9	50%	0.0251%
Bio-ClearA® 5000	WFT	Bactericide	2,2-dibromo-3-nitrilopropionamide	10222-01-2	5%	0.0011%
WCS-631LC	WFT	Clay Control	Polyethylene Glycol	25322-68-3	50%	0.0114%
			No ingredients as hazardous according to OSHA 29 CFR 1910.1200		0%	0%
WXL-100L	WFT	Crosslink Control	Ethylene Glycol	107-21-1	40%	0.0195%
WGA-15L	WFT	Gelling Agents	Petroleum Distillates	64742-47-8	60%	0.278%
WAI-251LC	WFT	Inhibitor	1-Decanol	112-30-1	5%	0.0001%
			1-Octanol	111-87-5	5%	0.0001%
			2-Butoxyethanol	111-76-2	10%	0.0002%
			Ethoxylated Nonylphenol	68412-54-4	5%	0.0001%
			Ethylene Glycol	111-76-2	40%	0.0007%
			Isopropyl Alcohol	67-63-0	5%	0.0001%
			N,N-Dimethylformamide	68-12-2	20%	0.0003%
			Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	10%	0.0002%
			Triethylphosphate	78-40-0	5%	0.0001%
			Ammonium Chloride	12125-02-9	20%	0.0131%
			Citric acid	77-92-9	60%	0.0011%
			WPB-584L	WFT	ph Adjusting Agents	Potassium Carbonate
			Potassium Hydroxide	1310-58-3	20%	0.021%
WNE-363L	WFT	Surfactant	2-Ethylhexanol	104-76-7	7%	0.0033%
			DB-964	9003-11-6	30%	0.014%
			Dodecylbenzenesulfonic acid, monoethanolamine salt	26836-07-7	15%	0.007%
			Poly(oxy-1,2-ethanediyl), a-isotridecyl-w-hydroxy-	9043-30-5	5%	0.0023%
15% HCL	WFT	Acid	Hydrochloric Acid	7647-01-1	15%	0.0971%
Ingredients shown above are subject to 29 CFR 1910			2-Butoxyethanol	111-76-2	0%	0.0046%
			Acetaldehyde	75-07-0	0%	0%
			Alcohol Ethoxylate	Mixture	0%	0.0046%
			Alcohols, C12-16, Ethoxylated	68551-12-2	0%	0.0046%
			Amines, polyethylenepoly-, ethoxylated, phosphonomethylated	68966-36-9	0%	0.0263%
			Arlacel 83	8007-43-0	0%	0.0046%
			Choline Chloride	67-48-1	0%	0.073%
			Cinnamaldehyde	104-55-2	0%	0.0001%
			Crystalline Silica in the form of Quartz	14808-60-7	0%	0.0046%
			Deionized Water	7732-18-5	0%	0.0114%
			Dioxane	123-91-1	0%	0%
			Ethanolamine Borate	68425-67-2	0%	0.0195%
			Ethylene Oxide	75-21-8	0%	0%
			Guar gum	9000-30-0	0%	0.2317%
			Proprietary Ingredient	Proprietary	0%	0.0234%
			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: Jody Noerdlinger Title: Regulatory Analyst			
Date: 2/13/2013						
E-mail Address: jnoerdlinger@rkxp.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.