

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: 30-015-40640				
		2. Well Name: RDX 17 FEDERAL COM #010H				
		3. Well Number: 010H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit: A Lot: A Section: 17 Township: 26S Range: 30E Feet from: 275 N/S Line: N Feet from: 430 E/W Line: E				
		5. Bottom Hole Location: Unit: A Lot: A Section: 17 Township: 26S Range: 30E Feet from: 275 N/S Line: N Feet from: 430 E/W Line: E				
		6. Latitude: Longitude: 32.0491026153441 -				
		103.896299204067				
		7. County: Eddy				
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: 12/10/2012 Frac Performed by: RKI EXPLORATION & PRODUCTION		12. Production Type: O				
13. Pool Code(s): 97863		14. Gross Fractured Interval: Confidential				
15. True Vertical Depth (TVD): 11,836 ft		16. Total Volume of Fluid Pumped: 3,646,659 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)
Fresh Water	Operator	Base Fluid	Water	7732-18-5	100%	89.37101%
15% HCL	WFT	Acid	Hydrochloric Acid	7647-01-1	0.15%	0.00094%
100 Mesh Sand	WFT	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	100%	1.97415%
Ottawa Sand 40/70 (2.63 sg)	WFT	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	1%	5.67971%
Super LC 20/40 (2.51 sg)	WFT	Proppant	Crystalline Silica (Quartz)	14808-60-7	72.98%	1.01568%
			Formaldehyde	50-00-0	0.01%	0.00014%
			Hexamethylenetetramine	100-97-0	1%	0.01392%
			Hydrated Aluminum Silicate	1332-58-7	5%	0.06959%
			Iron Oxide (fume)	1309-37-1	15%	0.20876%
			Phenol	108-95-2	0.01%	0.00014%
			Phenol-Formaldehyde Resin	9003-35-4	6%	0.0835%
WBK-133	WFT	Breaker	Ammonium Persulfate	7727-54-0	100%	0.01771%
WBK-134	WFT	Breaker	Ammonium Persulfate	7727-54-0	75%	0.00221%
Superset W	Santrol	Activator	Methanol	67-56-1	50%	0.02513%
			Poly(oxyethylene) nonylphenol ether	9016-45-9	50%	0.02513%
Bio-Clear 5000	WFT	Bactericide	2,2-dibromo-3-nitripropionamide	10222-01-2	5%	0.00108%
			Polyethylene Glycol	25322-68-3	50%	0.01083%
WCS-631LC	WFT	Clay Control	No ingredients as hazardous according to OSHA 29 CFR 1910.1200		0%	0%
WXL-100L	WFT	Crosslink Control	Ethylene Glycol	107-21-1	40%	0.03222%
WGA-15L	WFT	Gelling Agents	Petroleum Distillates	64742-47-8	60%	0.29722%
WSI-671L	WFT	Inhibitor	Ammonium Chloride	12125-02-9	0.2%	9E-05%
WPB-584L	WFT	ph Adjusting Agents	Potassium Carbonate	584-08-7	0.4%	9E-05%
			Potassium Hydroxide	1310-58-3	0.2%	5E-05%
WNE-363L	WFT	Surfactant	2-Ethylhexanol	104-76-7	0.07%	3E-05%
			DB-964	9003-11-6	0.3%	0.00015%
			Dodecylbenzenesulfonic acid, monoethanolamine salt	26836-07-7	0.15%	7E-05%
			Poly(oxy-1,2-ethanediyl), a-isotridecyl-w-hydroxy-	9043-30-5	0.05%	2E-05%
WSI-671L	WFT	Inhibitor	Ammonium Chloride	12125-02-9	20%	0.01342%
WPB-584L	WFT	ph Adjusting Agents	Potassium Carbonate	584-08-7	40%	0.0331%
			Potassium Hydroxide	1310-58-3	20%	0.01655%
WNE-363L	WFT	Surfactant	2-Ethylhexanol	104-76-7	7%	0.00463%
			DB-964	9003-11-6	30%	0.01983%
			Dodecylbenzenesulfonic acid, monoethanolamine salt	26836-07-7	15%	0.00992%
			Poly(oxy-1,2-ethanediyl), a-isotridecyl-w-hydroxy-	9043-30-5	5%	0.00331%
			Hydrochloric Acid	7647-01-1	15%	0.08963%
			2-Butoxyethanol	111-76-2	0%	0.00495%
			Alcohol Ethoxylate	Mixture	0%	0.00495%
			Alcohols, C12-16, Ethoxylated	68551-12-2	0%	0.00495%
			Amines, polyethylenepoly-, ethoxylated, phosphonomethylated	68966-36-9	0%	0.02685%
			Arlacel 83	8007-43-0	0%	0.00495%
			Choline Chloride	67-48-1	0%	0.07099%
			Crystalline Silica in the form of Quartz	14808-60-7	0%	0.00495%
			Deionized Water	7732-18-5	0%	0.01083%
			Ethanolamine Borate	68425-67-2	0%	0.03222%
			Guar gum	9000-30-0	0%	0.24769%
			Proprietary Ingredient	Proprietary	0%	0.02499%
					0%	0%
					0%	0%
					0%	0%
					0%	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: 1/16/2014						
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.