

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: 30-015-42743				
		2. Well Name: RDX FEDERAL COM 17 #041H				
		3. Well Number: 041H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit: O Lot: O Section: 17 Township: 26S Range: 30E Feet from: 200 N/S Line: S Feet from: 1400 E/W Line: E				
		5. Bottom Hole Location: Unit: A Lot: A Section: 17 Township: 26S Range: 30E Feet from: 230 N/S Line: N Feet from: 1095 E/W Line: E				
		6. latitude: 32.0357935327358 longitude: -103.899472370271				
		7. County: Eddy				
8. Operator Name and Address: RKI EXPLORATION & PRODUCTION, LLC 3500 One Williams Center Tulsa 74172		9. OGRID: 246289	10. Phone Number: 539-573-5278			
11. Last Fracture Date: 1/24/2017 Frac Performed by: BJ Services		12. Production Type: O				
13. Pool Code(s): 97863		14. Gross Fractured Interval: 10,966 ft to 15,572 ft				
15. True Vertical Depth (TVD): 10,993 ft		16. Total Volume of Fluid Pumped: 9,893,837 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	RKI	Carrier/Base Fluid	Water	7732-18-5	100%	88.9813323%
Sand	Titan Sand	Proppant	Crystalline Silica	14808-60-7	100%	10.2822631%
15% HCL	Roywell	Acidizing	Hydrochloric Acid	7647-01-0	37%	0.128401%
			Water	7732-18-5	63%	0.2186287%
CI-360	Roywell Services	Acid Corrosion Inhibitor	Methyl Alcohol	67-56-1	45%	0.0004592%
			Ethylene Glycol	107-21-1	20%	0.0002041%
			Isoquinoline	Proprietary	15%	0.0001531%
			Water	7732-18-5	10%	0.000102%
			Dimethyl Formamide	68-12-2	10%	0.000102%
			2-Butoxyethanol	111-76-2	5%	5.1E-05%
NEA-157	Roywell Services	Non-emulsifying Agent	Alkybenzene Sulfonic Acid	27176-87-0	10%	5.91E-05%
IRA-100	Roywell Services	Iron Reducing Agent	Hydrochloric Acid	7647-01-0	70%	0.0002431%
			Stannous Chloride Dihydrate	7772-99-8	65%	0.0002257%
AP Breaker	Flotek Chemistry	Gel Breaker	Ammonium persulfate	7727-54-0	100%	0.0013935%
Progel 4.5	Flotek Chemistry	Gelling Agent	Mineral Oil	876065-86-0	55%	0.0508942%
			Guar	9000-30-0	50%	0.0462674%
			Organoclay	Proprietary	5%	0.0046267%
			Crystalline Silica	14808-60-7	0.3%	0.0002776%
			Clay Activator	Proprietary	90%	0.0832813%
			Glutaraldehyde	111-30-8	14%	0.0034052%
			Water	7732-18-5	83%	0.0201879%
			Quaternary ammonium compounds, benzyl C12-C16-alkyldimethyl, chlorides	68424-85-1	2.5%	0.0006081%
			Ethanol	64-17-5	0.3%	7.3E-05%
NEC-15	Flotek Chemistry	Clay Control	Ethylene Glycol	107-21-1	50%	0.0120449%
			Isopropanol	67-63-0	5%	0.0012045%
			Water	7732-18-5	70%	0.0168629%
			Quaternary Ammonium Compound	Proprietary	15%	0.0036135%
			Polyamine	Proprietary	15%	0.0036135%
PS-102	Flotek Chemistry	Scale Inhibitor	Amine Salt	Proprietary	60%	0.0130114%
			Water	7732-18-5	80%	0.0173485%
			Potassium Chloride	7447-40-7	5%	0.0010843%
			Dipotassium Phosphite	13492-26-7	5%	0.0010843%
			Methanol	67-56-1	25%	0.0054214%
StimLube F	Flotek Chemistry	Friction Reducer	Polyacrylamide	Proprietary	30%	0.0166121%
			Hydrotreated light distillate	64742-47-8	30%	0.0166121%
			Alcohols, ethoxylated	68002-97-1	5%	0.0027687%
			Alcohols, ethoxylated	68439-50-9	5%	0.0027687%
			Alcohols, ethoxylated	68551-12-2	5%	0.0027687%
			Ammonium Acrylate	10604-69-0	1%	0.0005537%
			Ammonium Chloride	12125-02-9	20%	0.0110747%
			Nonionic Surfactant	Proprietary	3%	0.0016612%
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			Ethoxylated Alcohol	Proprietary	1%	0.0005537%
			Surfactant	Proprietary	2%	0.0011075%
			Surfactant	Proprietary	2%	0.0011075%
			Water	7732-18-5	60%	0.0332242%
StimOil ENX	Flotek Chemistry	Stimulation Additive	Citrus terpenes	68647-72-3	30%	0.0504049%
			Isopropanol	67-63-0	30%	0.0504049%
			Water	7732-18-5	30%	0.0504049%
			Organic Polyol	Proprietary	13%	0.0218421%
			Organic Polyol	Proprietary	13%	0.0218421%
			Nonionic Surfactant	Proprietary	10%	0.0168016%
			Nonionic Surfactant	Proprietary	5%	0.0084008%
			Polyamine	Proprietary	30%	0.0504049%
			Polyethers	Proprietary		
			Nonionic Alkoxylate	Proprietary	10%	0.0168016%
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: Kathy Rondeau Title: Engineering Technician						
Date: 2/8/2017						
E-mail Address: kathy.rondeau@wpenergy.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.