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.
30-015-41275

2. Well Name:
RDX 16 #017H

3. Well Number:
017H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:D Lot:D Section:16 Township:26S Range:30E
Feet from:250 N/S Line:N
Feet from:675 E/W Line:W

5. Bottom Hole Location:
Unit:D Lot:D Section:16 Township:26S Range:30E
Feet from:250 N/S Line:N
Feet from:675 E/W Line:W

6. latitude: 32.0491821537214 longitude: -103.892715492813

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: 405-949-2221

11. Last Fracture Date: 8/11/2013 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
97863

14. Gross Fractured Interval:
8,048 ft to 11,920 ft

15. True Vertical Depth (TVD):
7,652 ft

16. Total Volume of Fluid Pumped:
3,655,535 gals

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)
Fresh Water	Operator				100%	89.23048%
HYDROCHLORIC ACID 10-30%	Halliburton		Hydrochloric acid	7647-01-0	30%	0.18903%
SSA-2	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	2.10626%
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	5.97349%
CRC SAND	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	1.55754%
			Hexamethylenetetramine	100-97-0	2%	0.03115%
			Phenol / formaldehyde resin	9003-35-4	5%	0.07788%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.01055%
			Monoethanolamine borate	26038-87-9	100%	0.03517%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00393%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.00373%
LOSURF-360, 330 GALL	Halliburton				100%	0%
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	8E-05%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.03339%
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.03339%
Cla-Web™	Halliburton	Additive	Ammonium salt	Confidential Business Information	60%	0.07298%
D-AIR 3000L	Halliburton	Defoamer	Alkenes	Confidential Business Information	100%	0.00026%
			Silica, amorphous precipitated	67762-90-7	30%	8E-05%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.21365%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00123%
			Walnut hulls	Mixture	100%	0.0041%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00082%
Scalechek® SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.01873%
K-35	Halliburton	Additive	Sodium carbonate	497-19-8	100%	0.00015%
Ingredients Listed Below This Line Are Part of the			1,2-Benzisothiazolin-3-one	2634-33-5	0%	0%
			2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfor-1-naphthalenyl) azo] -, trisodium salt	915-67-3	0%	0%
			Amine salts	Confidential Business Information	0%	0%
			Amine salts	Confidential Business Information	0%	0%
			Bentonite, benzyl (hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	0%	0%
			C.I. Pigment Red 5	6410-41-9	0%	0%
			Calcium chloride	10043-52-4	0%	0%
			Crystalline Silica, Quartz	14808-60-7	0%	0%
			Cured acrylic resin	Confidential Business Information	0%	0%
			Cured acrylic resin	Confidential Business Information	0%	0%
			Enzyme	Confidential Business Information	0%	0%
			Enzyme	Confidential Business Information	0%	0%
			Polypropylene glycol	25322-69-4	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Silica gel	112926-00-8	0%	0%
			Sodium chloride	7647-14-5	0%	0%
			Sodium sulfate	7757-82-6	0%	0%
			Surfactant mixture	Confidential Business Information	0%	0%
			Surfactant mixture	Confidential Business Information	0%	0%
			Water	7732-18-5	0%	0%

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: 9/11/2013

E-mail Address: jnoerdlinger@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.