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.
30-015-42250

2. Well Name:
SANDIA FEE #001

3. Well Number:
001

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:A Lot:A Section:15 Township:23S Range:27E
Feet from:175 N/S Line:N
Feet from:1105 E/W Line:E

5. Bottom Hole Location:
Unit:A Lot:A Section:15 Township:23S Range:27E
Feet from:355 N/S Line:N
Feet from:965 E/W Line:E

6. latitude: 32.3120766 longitude: -104.1730576

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: 1/3/2017 Frac Performed by: RockPile

12. Production Type:
O

13. Pool Code(s):
24660

14. Gross Fractured Interval:
5,768 ft to 8,970 ft

15. True Vertical Depth (TVD):
9,270 ft

16. Total Volume of Fluid Pumped:
1,452,514 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%	87.6039342%
Sand	Titan Sand	Proppant	Crystalline Silica	14808-60-7	100%	11.2477978%
15% HCL	Roywell	Acidizing	Hydrochloric Acid	7647-01-0	37%	0.2920213%
			Water	7732-18-5	63%	0.4972254%
CI-360	Roywell Services	Acid Corrosion Inhibitor	Methyl Alcohol	67-56-1	45%	0.0010497%
			Ethylene Glycol	107-21-1	20%	0.0004665%
			Isoquinoline	Proprietary	15%	0.0003499%
			Water	7732-18-5	10%	0.0002333%
			Dimethyl Formamide	68-12-2	10%	0.0002333%
			2-Butoxyethanol	111-76-2	5%	0.0001166%
NEA-157	Roywell Services	Non-emulsifying Agent	Alkybenzene Sulfonic Acid	27176-87-0	10%	0.000138%
IRA-100	Roywell Services	Iron Reducing Agent	Hydrochloric Acid	7647-01-0	70%	0.0005434%
			Stannous Chloride Dihydrate	7772-99-8	65%	0.0005045%
APGEL 40S	Apex Resources Inc.	Liquid Gel Slurry	Hydro Treated Oil	64742-47-8	60%	0.0930915%
			Guar	9000-30-0	50%	0.0775762%
			Organophilic Clay	1302-87-0	3%	0.0046546%
			Surfactant	Proprietary	3%	0.0046546%
AP CC70	Apex Resources Inc.	Clay Stabilizer	Choline Chloride	67-48-1	70%	0.059815%
			Water	7732-18-5	30%	0.025635%
APSI 306	Apex Resources Inc.	Scale Inhibitor	Ethylene Glycol	107-21-1	10%	0.0030657%
			Methanol	67-56-1	5%	0.0015328%
Aquacide 123	Apex Resources Inc.	Biocide	Glutaraldehyde	111-30-8	20%	0.0057755%
			Didecyldimethylammonium Chloride	7173-51-5	3%	0.0008663%
			Quaternary Ammonium Compounds, Benzyl-C12-C16-Alkyldimethyl Chlorides	68424-85-1	3%	0.0008663%
APGEL BREAK 100	Apex Resources Inc.	Instant Breaker	Ammonium Persulfate	7727-54-0	100%	0.0005059%
APFR 60A	Apex Resources Inc.	Anionic Friction Reducer	Distillates, Hydro Treated Light	64742-47-8	28%	0.0150892%
			Alcohols, C12-16, Ethoxylated	68551-12-2	3%	0.0016167%
			Alcohols, C10-16, Ethoxylated	68002-97-1	3%	0.0016167%
			Alkyl (C12-C14) alcohol, Ethoxylated >2-10 EO	68439-50-9	3%	0.0016167%

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: 1/19/2017

E-mail Address: kathy.rondeau@wpxenergy.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.