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.
30-015-41752

2. Well Name:
STATE A #608

3. Well Number:
608

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:L Lot:L Section:16 Township:17S Range:31E
Feet from:2616 N/S Line:S
Feet from:423 E/W Line:W

5. Bottom Hole Location:
Unit:L Lot:L Section:16 Township:17S Range:31E
Feet from:2616 N/S Line:S
Feet from:423 E/W Line:W

6. latitude: 32.8336578824857 longitude: -103.881120734487

7. County:
Eddy

8. Operator Name and Address:
LINN OPERATING, INC.
600 Travis Street
Suite 5100
Houston 77002

9. OGRID: 269324

10. Phone Number: 281-840-4010

11. Last Fracture Date: 10/21/2014 Frac Performed by: Advanced Stimulation Technologies, Inc.

12. Production Type:
O

13. Pool Code(s):
28509

14. Gross Fractured Interval:
Confidential

15. True Vertical Depth (TVD):
4,222 ft

16. Total Volume of Fluid Pumped:
132,468 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	Operator	Carrier/Base Fluid	Water	7732-18-5	100%	81.14522%
15% HCL	Reagent Chemical	Acidizing	Hydrogen Chloride	7647-01-0	15%	0.39507%
			Water	7732-18-5	85%	2.23872%
ATAS-100	Impact Chemical	Acid Inhibitor System	Acetic Acid	64-19-7	100%	0.01492%
			Propan-2-ol	67-63-0	100%	0.01492%
			Dodecylbenzenesulphonic Acid	27176-87-0	100%	0.01492%
			Methanol	67-56-1	100%	0.01492%
			1,3-imethylbutylamine	108-09-8	100%	0.01492%
			Petroleum, Oxidized	64743-01-7	100%	0.01492%
			Didecyldimethylammonium Chloride	7173-51-5	100%	0.01492%
			Prop-2-yn-1-ol	107-19-7	100%	0.01492%
AWRS-101	Chemplex	Surfactant	Methyl Alcohol	67-56-1	12%	0.00915%
			2-Butoxyethanol	111-76-2	35%	0.02668%
AGA-101	Poly Frac Plus	Slurried Gelling Agent	Guar Gum	9000-30-0	50%	0.13421%
			Petroleum Distillate	64742-47-8	55%	0.14763%
			Clay	Proprietary	5%	0.01342%
ABK-101	Fritz Industries	Oxidizer Breaker	Ammonium Persulphate	7727-54-0	100%	0.00484%
ABK-104	Economy Polymers and Chemicals	Liquid Enzyme Breaker	Cellulase Enzyme	Proprietary	100%	0.00277%
AXL-101	Chemplex	Crosslinker	Potassium Metaborate	13709-94-9	30%	0.02962%
			Potassium Hydroxide	1310-58-3	5%	0.00494%
			Ethylene Glycol	107-21-1	10%	0.00987%
Superset W	Santrol	Resin Activator	Methyl Alcohol	67-56-1	50%	0.03568%
			Polethylene Glycol Nonylphenyl Ether	9016-45-9	50%	0.03568%
20/40 White	Santrol	Proppant	Silica, Crystalline Quartz	14808-60-7	100%	11.96501%
20/40 Super LC	Santrol	Proppant	Crystilline Silica, Quartz	14808-60-7	97%	3.60714%
			Phenol-Formaldehyde Novolak Resin	9003-35-4	5%	0.18593%
			Hexamethylenetetramine	100-97-0	1%	0.03719%
					0%	0%
					0%	0%
					0%	0%
					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: Alex Bolanos Title: Regulatory Compliance Specialist II

Date: 12/4/2014

E-mail Address: aboanos@linnenergy.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.