

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: 30-015-41715				
		2. Well Name: STATE A #612				
		3. Well Number: 612				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:E Lot:E Section:16 Township:17S Range:31E Feet from:2198 N/S Line:N Feet from:836 E/W Line:W				
		5. Bottom Hole Location: Unit:E Lot:E Section:16 Township:17S Range:31E Feet from:2198 N/S Line:N Feet from:836 E/W Line:W				
		6. latitude: longitude: 32.8357631610514 - 103.880637275881				
		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: 1/10/2014 Frac Performed by: Frac Specialists LLC		12. Production Type: O				
13. Pool Code(s): 28509		14. Gross Fractured Interval: 2,986 ft to 3,789 ft				
15. True Vertical Depth (TVD): 5,000 ft		16. Total Volume of Fluid Pumped: 230,565 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	Linn Operating	Water	Water	7732-18-5	1%	86%
FIC-80L	Frac Specialists	Iron Sequesterant	Acetic Acid	64-19-7	0.8%	0.00856%
			Water	7732-18-5	0.2%	0.00214%
FBK-133	Frac Specialists	Oxidative Breaker	Ammonium Persulfate	7727-54-0	0.99%	0.00285%
FXL-101L	Frac Specialists	Crosslinker/Buffer	Ethylene Glycol	107-21-1	0.1%	0.00313%
			Potassium Metaborate	13709-94-9	0.3%	0.00939%
			Water	7732-18-5	0.55%	0.01721%
F ENZYME BREAKER	Frac Specialists	Enzyme Breaker	Mannanase Enzymes	Proprietary	0.02%	9E-05%
			Sodium Chloride	7647-14-5	0.15%	0.00067%
			Water	7732-18-5	0.83%	0.00373%
FBK-XPA	Frac Specialists	Polymer Breaker	Hydrogen Peroxide	7722-84-1	0.08%	0.00103%
			Water	7732-18-5	0.93%	0.01192%
			Phosphoric Acid	007664-38-2	0.001%	1E-05%
			Direct Red 81	2610-11-9	0.001%	1E-05%
			Organic Solvent	Proprietary	0.001%	1E-05%
FAI-251LC	Frac Specialists	Corrosion Inhibitor	Alcohol Ethoxylate Surfactants	Proprietary	0.15%	0.00075%
			Methyl Alcohol	67-56-1	0.8%	0.004%
			n-olefins	Proprietary	0.08%	0.0004%
			Propargyl Alcohol	107-19-7	0.06%	0.0003%
			thiourea-formaldehyde copolymer	68527-49-1	0.15%	0.00075%
FFR-982LC	Frac Specialists	Friction Reducer	Alcohol Ethoxylate Surfactants	Proprietary	0.08%	0.00609%
			Cationic Polyacrylamide co polymer	Proprietary	0.35%	0.02664%
			Hydrotreated Petroleum Distillate	64742-47-8	0.3%	0.02283%
			Sodium Chloride	7647-14-5	0.02%	0.00152%
			Water	7732-18-5	0.35%	0.02664%
20/40 White	Frac Specialists	Proppant	SILICA/QUARTZ/SIO2	14808-60-7	1%	3.26656%
FGA-15L	Frac Specialists	Water Gelling Agent	White Mineral Oil	8042-47-5	0.4%	0.01971%
			Guar Powder	Proprietary	0.6%	0.02956%
FNE-334LN	Frac Specialists	non emulsifier for acids	Cocamide Diethanolamine Salt	68603-42-9	0.07%	0.00013%
			Diethanolamine	111-42-2	0.03%	6E-05%
			Ethylene Glycol Monobutyl Ether	111-76-2	0.15%	0.00029%
			Methyl Alcohol	67-56-1	0.15%	0.00029%
			Water	7732-18-5	0.6%	0.00115%
15% HCL	Frac Specialists	Hydrochloric Acid	Hydrogen Chloride	7647-01-0	0.15%	0.3209%
			Water	7732-18-5	0.85%	1.81843%
30/50 RCS Garnet	Frac Specialists	Proppant	CRYSTALINE SILICA QUARTZ	14808-60-7	0.95%	1.40443%
			PENOL-FOMALDEHYDE	9003-35-4	0.05%	0.07392%
			NOVOLAK RESIN			
			HEXAMETHYLENETETRAMINE	100-97-0	0.01%	0.01478%
20/40 RCS Garnet	Frac Specialists	Proppant	CRYSTALINE SILICA QUARTZ	14808-60-7	0.95%	1.40443%
			PENOL-FOMALDEHYDE	9003-35-4	0.05%	0.08634%
			NOVOLAK RESIN			
			HEXAMETHYLENETETRAMINE	100-97-0	0.01%	0.01727%
100 Mesh	Frac Specialists	Proppant	SILICA/QUARTZ/SIO2	14808-60-7	1%	2.27843%
FSU-240LN	Frac Specialists	Water recovery surfactant	Methyl Alcohol	67-56-1	0.2%	0.00927%
			Alcohol Alkoxylate	Proprietary	0.2%	0.00927%
Solid Scale inhibitor	Frac Specialists	Scale Inhibitor	Dodecylbenzene Sulfonic acid/ linear	27176-87-0	0.2%	0.00106%
			Bis(hexamerthylenetriamine penta methylene phosphonic acid salt	35657-77-3	0.18%	0.00095%
			ISOPROPANOL	Proprietary	0.011%	6E-05%
			p-Nonylphenol ethoxylated	26027-38-3	0.2%	0.00106%
			Ethylene Glycol Monobutyl Ether	111-76-2	0.06%	0.00032%
			Distillates(petroleum)/ hydrotreated heavy napthenic	647-42-478	0.06%	0.00032%
			Distillates(petroleum) hydrotreated heavy napthenic	647-42-489	0.02%	0.00011%
			1/3/5- Trimethylbenzene	108-67-8	0.045%	0.00024%
			Light Aromatic distillates	64742-95-6	0.008%	4E-05%
			Alkylaryl Sulfonate	26264-05-1	0.008%	4E-05%
			1/2/4-Trimethylbenzene	95-63-6	0.004%	2E-05%
			2-Ethylhexanol	104-76-7	0.004%	2E-05%
			Toluene	108-88-3	0.002%	1E-05%
			1/2/3-Trimethylbenzene	526-73-8	0.001%	1E-05%
			Xylene	1330-20-7	0.0005%	0%
30/50 White	Frac Specialists	Proppant	SILICA/QUARTZ/SIO2	14808-60-7	1%	2.30626%
ISR-100	Frac Specialists	Biocide	Proprietary	Proprietary	1%	0.00254%
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: Laura Moreno		Regulatory Compliance Title: Advisor				
Date: 3/6/2014						
E-mail Address: lmoreno@linnenergy.com						

NMOCDD does not require the reporting of information beyond MSDS data as described in 29 CFR 1910.1200. NMOCDD does not require the reporting or disclosure of proprietary, trade secret or confidential business information.