

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: 30-015-40796				
		2. Well Name: KAISER 18 A #015				
		3. Well Number: 015				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:A Lot:A Section:18 Township:18S Range:27E Feet from:330 N/S Line:N Feet from:800 E/W Line:E				
		5. Bottom Hole Location: Unit:A Lot:A Section:18 Township:18S Range:27E Feet from:330 N/S Line:N Feet from:800 E/W Line:E				
		6. latitude: longitude: 32.7540855 -104.3116837				
		7. County: Eddy				
8. Operator Name and Address: LIME ROCK RESOURCES II-A, L.P. 1111 Bagby Street Suite 4600 Houston 77002		9. OGRID: 277558	10. Phone Number: 713-292-9517			
11. Last Fracture Date: 7/1/2016 Frac Performed by: Producers Service		12. Production Type: O				
13. Pool Code(s): 51120		14. Gross Fractured Interval: 2,800 ft to 3,400 ft				
15. True Vertical Depth (TVD): 4,425 ft		16. Total Volume of Fluid Pumped: 759,570 gals				
17. Total Volume of Re-Use Water Pumped: 759,570 gals		18. Percent of Re-Use Water in Fluid Pumped: 100%				
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)
SAND	PSC	PROPANT	SILICA SUBSTRATE	14808-60-7	100%	8.147%
15% HCL	PSC	ACIDIZING	HYDROCHLORIC ACID	7647-01-0	10%	0.03893%
PRO REDUCER	PSC	IRON CONTROL	2-MERCAPTOETHANOL	60-24-2	75%	0.0009%
			AQUA AMMONIA	1336-21-6	12%	0.00014%
			CUPRIC CHLORIDE	10125-13-0	7%	8E-05%
			POTASSIUM IODIDE	7681-11-0	1%	1E-05%
PRO SCALE 125	PSC	SCALE INHIBITOR	PHOSPHONATED COMPOUND	TRADE SECRET	15%	0.00367%
			AMMONIUM CHLORIDE	12125-02-9	2.5%	0.00061%
PRO HIB 360	PSC	ACID CORROSION INHIBITOR	METHYL ALCOHOL	67-56-1	45%	0.00014%
			ETHYLENE GLYCOL	107-21-1	20%	6E-05%
			ISOQUINOLINE	TRADE SECRET	15%	5E-05%
			DIMETHYL FORMAMIDE	68-12-2	10%	3E-05%
			2-BUTOXYETHANOL	111-76-2	5%	2E-05%
PRO BIO 714	PSC	BIOCIDE	GLUTARALDEHYDE	111-30-8	14%	0.00331%
			QUATERY AMMONIUM COMPOUNDS	68424-85-1	2.5%	0.00059%
			ETHANOL	64-17-5	0.3%	7E-05%
PRO NE 2520	PSC	NON EMULSIFIER	SULFERIC ACID, MONO (2-ETHYLHEXY) ESTER, SODIUM	126-92-1	50%	0.00013%
			DIPROPYLENE GLYCOL	34590-94-8	10%	3E-05%
			MONOMETHYL ETHER			
			PROPRIETARY DEMULSIFYING AGENT	TRADE SECRET	5%	1E-05%
PRO FR SLF	PSC	FRICTION REDUCER	PETROLEUM DISTILLATES	64742-47-8	30%	0.01351%
			ALCOHOLS ETHOXYLATED	68002-97-1	31%	0.01396%
			ALCOHOLS, ETHOXYLATED	68439-50-9	31%	0.01396%
			ALCOHOLS, ETHOXYLATED	68551-12-2	31%	0.01396%
PRO WAX 19	PSC	PARRIFIN DISPERSANT	XYLENE	1330-20-7	90%	0.02477%
			ETHYLBENZENE	100-41-4	15%	0.00413%
			FATTY AND DIAMETHYLAMIDE	TRADE SECRET	5%	0.00138%
			BENZENESULFONIC ACID, C10-16-ALKYL DERVIS, COMPS.	68584-24-7	10%	0.00275%
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: Mike Pippin Title: Consultant Date: 7/11/2016 E-mail Address: mike@pippinllc.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.