

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: 30-015-34614				
		2. Well Name: WILLIAMS A FEDERAL #003				
		3. Well Number: 003				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit: L Lot: L Section: 29 Township: 17S Range: 28E Feet from: 1400 N/S Line: S Feet from: 1150 E/W Line: W				
		5. Bottom Hole Location: Unit: L Lot: L Section: 29 Township: 17S Range: 28E Feet from: 1400 N/S Line: S Feet from: 1150 E/W Line: W				
		6. Latitude: 32.8017433245161 longitude: -104.202646085164				
		7. County: Eddy				
8. Operator Name and Address: LRE OPERATING, LLC 1111 Bagby Suite 4600 Houston 77002			9. OGRID: 281994	10. Phone Number: 713-292-9517		
11. Last Fracture Date: 5/3/2013 Frac Performed by: BAKER			12. Production Type: O			
13. Pool Code(s): 51300			14. Gross Fractured Interval: 2,200 ft to 3,202 ft			
15. True Vertical Depth (TVD): 3,550 ft			16. Total Volume of Fluid Pumped: 212,268 gals			
17. Total Volume of Re-Use Water Pumped: 0 gals			18. Percent of Re-Use Water in Fluid Pumped: %			
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)
HCL 7.5%	BAKER	ACID	HYDROCHLORIC ACID	7647-01-0	7.5%	0.25507%
ACTIVATOR, 330	BAKER	ACTIVATOR	ALCOHOLS, C12-14-SECONDARY, ETHOXYLATED	84133-50-6	70%	0.01888%
X-CIDE 207	BAKER	BIOCIDE	METHANOL	67-56-1	50%	0.01349%
			2-METHYL-4-ISOTHIAZOLIN-3-ONE	2682-20-4	5%	0.0003%
			5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE	26172-55-4	10%	0.00059%
			CRYSTALLINE SILICA: CRISTOBALITE	14464-46-1	1%	6E-05%
			CRYSTALLINE SILICA: QUARTZ (SIO2)	14808-60-7	1%	6E-05%
			DIATOMACEOUS EARTH, CALCINED	91053-39-3	60%	0.00355%
			MAGNESIUM CHLORIDE	7786-30-3	5%	0.0003%
			MAGNESIUM NITRATE	10377-60-3	10%	0.00059%
			GBW-5	BAKER	BREAKER	AMMONIUM PERSULFATE
CLAY CARE, CLAY TREAT-2C, 330 GL TOTE	BAKER	CLAY CONTROL	CHOLINE CHLORIDE	67-48-1	75%	0.06192%
CL-27	BAKER	CORROSION INHIBITOR	FATTY ACIDS	TRADE SECRET	30%	0.00094%
			METHANOL	67-56-1	60%	0.00188%
			OLEFIN	TRADE SECRET	5%	0.00016%
			POLYOXYALKYLENES	TRADE SECRET	30%	0.00094%
			PROPARGYL ALCOHOL	107-19-7	10%	0.00031%
XLW-10A	BAKER	CROSSLINKER	ETHYLENE GLYCOL	107-21-1	30%	0.02083%
			SODIUM HYDROXIDE	1310-73-2	10%	0.00694%
			SODIUM TETRABORATE	1330-43-4	30%	0.02083%
			GUAR GUM	9000-30-0	40%	0.40474%
GW-4LDF	BAKER	GELLING AGENT	PETROLEUM DISTILLATES BLEND	TRADE SECRET	70%	0.7083%
FERROTROL 280L, 330 GL TOTE	BAKER	IRON CONTROL	2-MERCAPTOETHANOL	60-24-2	100%	0.01292%
			AMMOMIUM HYDROXIDE	1336-21-6	5%	0.00065%
			CUPRIC CHLORIDE	7447-39-4	5%	0.00065%
NE-118, 55 GAL DRUM	BAKER	NON-EMULSIFIER	AROMATIC HYDROCARBON SOLVENT	64742-94-5	35%	0.00106%
			ISOPROPYL ALCOHOL	67-63-0	65%	0.00196%
			NAPHTHALENE	91-20-3	5%	0.00015%
			XYLENE	1330-20-7	5%	0.00015%
NE-945, TOTE	BAKER	NON-EMULSIFIER	OXYALKYLATED ALCOHOL	TRADE SECRET	5%	0.00394%
SAND	BAKER	PROPPANT	CRYSTALLINE SILICA (QUARTZ)	14808-60-7	100%	12.01237%
SAND	BAKER	PROPPANT	CRYSTALLINE SILICA (QUARTZ)	14808-60-7	100%	0.28144%
SIBERPROP, 16/30	BAKER	PROPPANT	QUARTZ (SIO2)	14808-60-7	100%	3.21966%
SCALESORB 3, (50# BAG)	BAKER	SCALE INHIBITOR	AMINO TRI (METHYLENE PHOSPHORIC ACID)	6419-19-8	30%	0.019%
			CALCINED DIATOMACEOUS EARTH	91053-39-3	100%	0.06332%
			CRYSTALLINE SILICA QUARTZ	14808-60-7	1%	0.00063%
			PHOSPHONIC ACID	13598-36-2	1%	0.00063%
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: 1/10/2014 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.