

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: 30-015-41892				
		2. Well Name: WILLIAMS A FEDERAL #015				
		3. Well Number: 015				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:M Lot:M Section:29 Township:17S Range:28E Feet from:470 N/S Line:S Feet from:920 E/W Line:W				
		5. Bottom Hole Location: Unit:M Lot:M Section:29 Township:17S Range:28E Feet from:470 N/S Line:S Feet from:920 E/W Line:W				
		6. Istitude: 32.7991742518741 longitude: -104.203421184399				
		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: 7/16/2014 Frac Performed by: ELITE		12. Production Type: O				
13. Pool Code(s): 96830		14. Gross Fractured Interval: 3,370 ft to 3,517 ft				
15. True Vertical Depth (TVD): 3,607 ft		16. Total Volume of Fluid Pumped: 97,314 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)
SAND	US SILICA	PROPPANT	SILICON DIOXIDE	14808-60-7	100%	11.36771%
RCS	MOMENTIVE	PROPPANT	SILICON DIOXIDE	14808-60-7	100%	3.74369%
HYDROCHLORIC ACID	CNR	ACIDIZING	HYDROCHLORIC ACID	7647-01-0	38.8%	1.08431%
CLAYMAX	CHEMPLEX	CLAY CONTROL	CHOLINE CHLORIDE	67-48-1	62%	0.04526%
4-N-1	CHEMPLEX	IRON CONTROL	ACETIC ACID	64-19-7	80%	0.01689%
PLEXSET 730	CHEMPLEX	ACTIVATOR	METHANOL	67-56-1	10%	0.00211%
			SECONDARY ALCOHOL ETHOXYLATE	84133-50-6	50%	0.03025%
PLEXSURF 580 ME	CHEMPLEX	SURFACTANT	METHYL ALCOHOL	67-56-1	10%	0.0098%
			2-BUTOXYETHANOL	111-76-2	50%	0.04901%
AMA 398	CHEMPLEX	BIOCIDE	TETRAHYDRO-3,DIMETHYL-2H	533-74-4	98%	0.00213%
PLEXGEL 907 LE	CHEMPLEX	POLYMER	GUAR GUM	9000-30-0	50%	0.28023%
			MINERAL OIL	64742-47-8	55%	0.30825%
			BENTONITE CLAY	14808-60-7	2%	0.01121%
			SURFACTANT	68439-51-0	2%	0.01121%
PLEXBOR 101	CHEMPLEX	CROSSLINKER	ETHYLENE GLYCOL	107-21-1	9.99%	0.00842%
			POTASSIUM METABORATE	13709-94-9	30%	0.02529%
			POTASSIUM HYDROXIDE	1310-58-3	5%	0.00421%
PLEXGEL BREAKER 10L	CHEMPLEX	BREAKER	MANNANASE ENZYMES	TRADE SECRET	2%	0.00084%
			SODIUM CLORIDE	7647-14-5	15%	0.00627%
SODIUM PERSULFATE	CHEMPLEX	BREAKER	SODIUM PERSULFATE	7775-27-1	98%	0.00506%
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: 7/22/2014						
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.