

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 February 15, 2012				
		1. WELL API NO. 30-015-32459				
		2. Well Name: WILLIAMS A FEDERAL #002Q				
		3. Well Number: 002Q				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:K Lot:K Section:29 Township:17S Range:28E Feet from:1800 N/S Line:S Feet from:1650 E/W Line:W				
		5. Bottom Hole Location: Unit:K Lot:K Section:29 Township:17S Range:28E Feet from:1800 N/S Line:S Feet from:1650 E/W Line:W				
		6. latitude: 32.8028694456079 longitude: - 104.201000902966				
		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: 10/4/2013 Frac Performed by: CUDD		12. Production Type: O				
13. Pool Code(s): 51300		14. Gross Fractured Interval: 1,854 ft to 3,040 ft				
15. True Vertical Depth (TVD): 3,570 ft		16. Total Volume of Fluid Pumped: 240,786 gals				
17. 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	CUDD	PROPPANT	SILICON DIOXIDE	14808-60-7	100%	9.24616%
RCS	CUDD	PROPPANT	SILICON DIOXIDE	14808-60-7	97%	3.91943%
			P/F NOVOLAK RESIN	9003-35-4	5%	0.20203%
			HEXAMETHYLENETETRAMINE	1009-7-0	1%	0.04041%
			TETRAKIS	55566-30-8	20%	0.00198%
CS-14	CHEMPLEX, LC	CLAY CONTROL	NON-HAZARDOUS SALTS	TRADE SECRET	66%	0.02972%
15% HYDROCHLORIC ACID	REAGENT	ACID	37% HYDROCHLORIC ACID	7647-01-0	15%	0.61114%
I-112	CHEMPLEX, LC	CORROSION INHIBITOR	METHANOL	67-56-1	49.6%	0.00157%
			PROPARGYL ALCOHOL	107-19-7	4%	0.00013%
SG-15G	PIP TECHNOLOGY	GEL	GUAR GUM	9000-30-0	50%	0.20611%
			PETROLEUM DISTILLATE	64742-47-8	55%	0.22672%
			BENTONITE CLAY	14808-60-7	2%	0.00824%
			SURFACTANT	68439-51-0	2%	0.00824%
XL-335	ASK	CROSSLINKER	ETHYLENE GLYCOL	107-21-1	25%	0.02621%
			PPOTASSIUM HYDROXIDE	1310-58-3	25%	0.02621%
			TRADE SECRET	TRADE SECRET	25%	0.02621%
			TRADE SECRET	TRADE SECRET	15%	0.01573%
BC-1	BENCHMARK	BREAKER	TRIETHANOLAMINE	102-71-6	100%	0.02423%
			DIETHANOLAMINE	111-42-2	30%	0.00727%
GB-2	FRITZ INDUSTRIES	BREAKER	AMMONIUM PERSULFATE	7727-54-0	99.9%	0.01001%
GB-150	CHEMPLEX, LC	BREAKER	NON-HAZARDOUS INGREDIENTS	NA	100%	0.4795%
NE-217	CHEMPLEX, LC	NON-EMULSIFIER	METHANOL	67-56-1	50%	0.02717%
FE-4	CHEMPLEX, LC	IRON CONTROL	CITRIC ACID	77-92-9	55%	0.01233%
SI-625	KELTECH	SCALE INHIBITO	METHANOL	67-56-1	19.9%	0.00742%
SUPERSSET W	SANTROL	RESIN ACTIVATOR	METHANOL	67-56-1	50%	0.03208%
			POLYNONYPHENOL ETHER	9016-45-9	54%	0.03464%
18. 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: 10/22/2013						
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.