

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: 30-015-35627				
		2. Well Name: WILLIAMS B FEDERAL #001				
		3. Well Number: 001				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:E Lot:E Section:29 Township:17S Range:28E Feet from:1650 N/S Line:N Feet from:990 E/W Line:W				
		5. Bottom Hole Location: Unit:E Lot:E Section:29 Township:17S Range:28E Feet from:1650 N/S Line:N Feet from:990 E/W Line:W				
		6. latitude: 32.8078315170607 longitude: - 104.203114957758				
		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: 8/2/2013 Frac Performed by: ELITE		12. Production Type: O				
13. Pool Code(s): 51300		14. Gross Fractured Interval: 2,052 ft to 2,875 ft				
15. True Vertical Depth (TVD): 3,575 ft		16. Total Volume of Fluid Pumped: 5,421 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 Brown 16/30	ELITE	Proppant	SILICON DIOXIDE	14808-60-7	100%	10.60596%
RSC PROPPANT	ELITE	Proppant	SILICON DIOXIDE	14808-60-7	100%	3.3942%
AMA-398	CHEMPLEX, LC	Biocide	TETRAHYDRO-3, DIMETHYL-2H-1	533-74-4	98%	0.01438%
SODIUM PERSULFATE	CHEMPLEX, LC	BREAKER	SODIUM PERSULFATE	7775-27-1	98%	0.00521%
CLAYMAX	CHEMPLEX, LC	Clay Control	Choline Chloride	67-48-1	62%	0.05407%
FERRIPLEX 66	CHEMPLEX, LC	Iron Control	ACETIC ACID	64-19-7	50%	0.0166%
			CITRIC ACID	77-92-9	30%	0.00996%
PLEXBOR 101	CHEMPLEX, LC	Crosslinker	Ethylene Glycol	107-21-1	9.99%	0.00766%
			POTASSIUM METRABORATE	13709-94-9	30%	0.02301%
			POTASSIUM HYDROXIDE	1310-58-3	5%	0.00384%
PLEXBREAK 150	CHEMPLEX, LC	Non-emulsifier	COCAMIDE DIETHANOLAMINE SALT	68603-42-9	30%	0.00155%
			DIETHANOLAMINE	111-42-2	20%	0.00104%
			METHYL ALCOHOL	67-56-1	50%	0.00259%
			TRADE SECRET	Trade Secret	5%	0.00026%
PLEXCIDE 24B	CHEMPLEX, LC	Biocide	TETRAHYDRO-3, DIMETHYL-2H-1	533-75-2	24%	0.00535%
			Sodium Hydroxide	1310-73-2	12%	0.00267%
PLEXGEL BREAKER 10L	CHEMPLEX, LC	BREAKER	MANNANASE ENZYMES	Trade Secret	2%	0.00174%
			SODIUM CHLORIDE	7647-14-5	15%	0.01304%
PLEXHIB 256	CHEMPLEX, LC	Corrosion Inhibitor	METHYL ALCOHOL	67-56-1	70%	0.00692%
			PROPARGYL ALCOHOL	107-19-7	8%	0.00079%
			THIOUREA-FORMALDEHYDE COPOLYMER	68527-49-1	30%	0.00297%
			ALCOHOL ETHOXYLATE SURFACTANTS	Trade Secret	30%	0.00297%
			N-OLEFINS	TRADE SECRET	10%	0.00099%
PLEXSET 730	CHEMPLEX, LC	ACTIVATOR	SECONDARY ALCOHOL ETHOXYLATE	84133-50-6	50%	0.01055%
			METHYL ALCOHOL	67-56-1	50%	0.01055%
PLEXSURF 240 E	CHEMPLEX, LC	SURFACTANT	METHYL ALCOHOL	67-56-1	20%	0.00112%
			ALCOHOL ETHOXYLATE SURFACTANTS	Trade Secret	20%	0.00112%
15% HYDROCHLORIC ACID	CNR	ACIDIZING	36% HYDROCHLORIC ACID	7647-01-0	18.8%	0.13005%
PLEXGEL 907 LE	PFP TECHNOLOGY	POLYMER	Guar Gum	9000	50%	0.29557%
			MINERAL OIL	64742-47-8	55%	0.32513%
			BENTONITE CLAY	14808-60-7	2%	0.01182%
			SURFACTANT	68439-51-0	2%	0.01182%
PLEXSURF 580 ME	CHEMPLEX, LC	SURFACTANT	METHYL ALCOHOL	67-56-1	10%	0.0077%
			2-BUTOXYETHANOL	111-76-2	50%	0.03848%
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: 8/4/2013						
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.