

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: 30-039-31359				
		2. Well Name: LOGOS 2406 29H COM #013				
		3. Well Number: 013				
HYDRAULIC FRACTURING FLUID DISCLOSURE  <input checked="" type="checkbox"/> Original  <input type="checkbox"/> Amendment		4. Surface Hole Location: Unit:H Lot:H Section:29 Township:24N Range:06W Feet from:2410 N/S Line:N Feet from:330 E/W Line:E				
		5. Bottom Hole Location: Unit:H Lot:H Section:29 Township:24N Range:06W Feet from:2410 N/S Line:N Feet from:330 E/W Line:E				
		6. latitude: longitude: 36.28406 -107.484069				
		7. County: Rio Arriba				
8. Operator Name and Address: LOGOS OPERATING, LLC 2010 Afton Place Farmington 87401		9. OGRID: 289408	10. Phone Number: 832-794-1355			
11. Last Fracture Date: 9/7/2017 Frac Performed by: Halliburton		12. Production Type: O				
13. Pool Code(s): 17610		14. Gross Fractured Interval: 5,426 ft to 6,523 ft				
15. True Vertical Depth (TVD): 6,920 ft		16. Total Volume of Fluid Pumped: 32,978 gals				
17. Total Volume of Re-Use Water Pumped: 32,978 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)
2% KCL Water	Operator	Base Fluid	Water	7732-18-5	98%	59.51984%
Cla-Web(TM)	Halliburton	Additive	Listed Below	Listed Below	0%	0%
GBW-30 BREAKER	Halliburton	Breaker	Listed Below	Listed Below	0%	0%
HC-2	Halliburton	Additive	Listed Below	Listed Below	0%	0%
LOSURF-300D	Halliburton	Non-ionic Surfactant	Listed Below	Listed Below	0%	0%
OPTIFLO-HTE	Halliburton	Breaker	Listed Below	Listed Below	0%	0%
SAND-CRC PREMIUM-16/30, 100 LB SACK	Halliburton	Proppant	Listed Below	Listed Below	0%	0%
WG-35 GELLING AGENT	Halliburton	Gelling Agent	Listed Below	Listed Below	0%	0%
MSDS and Non-MSDS Ingredients are listed below the					0%	0%
Ingredients	Listed Above	Listed Above	1,2,4 Trimethylbenzene	95-63-6	1%	0.00024%
			Amine salts	Proprietary	0.1%	6E-05%
			C.I. Pigment Red 5	6410-41-9	1%	6E-05%
			Crystalline silica, quartz	14808-60-7	100%	39.00198%
			Cured acrylic resin	Proprietary	30%	0.00188%
			Enzyme	Proprietary	5%	0.0003%
			Ethanol	64-17-5	60%	0.01466%
			Glycerine	56-81-5	5%	0.00555%
			Guar gum	9000-30-0	100%	0.08623%
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.00733%
			Hemicellulase enzyme	9012-54-8	30%	0.00176%
			Hexamethylenetetramine	100-97-0	2%	0.78%
			Hydroxyalkylammonium chloride	Proprietary	60%	0.01905%
			Inner salt of alkyl amines	Proprietary	30%	0.03329%
			Lactose	63-42-3	100%	0.00585%
			Naphthalene	91-20-3	5%	0.00122%
			Oxylated phenolic resin	Proprietary	30%	0.00978%
			Phenol / formaldehyde resin	9003-35-4	5%	1.95001%
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5%	0.00122%
			Potassium chloride	7447-40-7	2%	1.21469%
			Quaternary amine	Proprietary	5%	0.00194%
Sodium chloride	7647-14-5	30%	0.03488%			
Walnut hulls	CAS Not Assigned	100%	0.00607%			
Water	7732-18-5	60%	0.08563%			
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: Tamra Sessions Title: Operations Technician						
Date: 11/22/2017						
E-mail Address: tsessions@logosresourcesllc.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.