

Submit within 45 days of well completion	<div>State of New Mexico</div> <div>Energy, Minerals and Natural Resources</div> <div>Oil Conservation Division</div> <div>1220 S. St Francis Dr.</div> <div>Santa Fe, NM 87505</div>	Revised February 15, 2012				
		1. WELL API NO. 30-045-35423				
		2. Well Name: LOGOS #005				
		3. Well Number: 005				
<div>HYDRAULIC FRACTURING FLUID DISCLOSURE</div> <div><input checked="" type="checkbox"/> Original</div> <div><input type="checkbox"/> Amendment</div>		4. Surface Hole Location: Unit:P   Lot:P   Section:4   Township:23N   Range:08W Feet from:671   N/S Line:S Feet from:973   E/W Line:E				
		5. Bottom Hole Location: Unit:P   Lot:P   Section:4   Township:23N   Range:08W Feet from:671   N/S Line:S Feet from:973   E/W Line:E				
		6. latitude:                      longitude: 36.25086                      -107.68125				
		7. County: San Juan				
8. Operator Name and Address: LOGOS OPERATING, LLC 4001 N. Butler, Bldg 7101 Farmington 87401		9. OGRID:                      289408	10. Phone Number:                      832-794-1355			
11. Last Fracture Date:      10/30/2013    Frac Performed by: CalFrac		12. Production Type: G				
13. Pool Code(s): 71599, 97232		14. Gross Fractured Interval: 5,180 ft to 6,122 ft				
15. True Vertical Depth (TVD): 6,390 ft		16. Total Volume of Fluid Pumped: 858,013 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	CWS	Propping Agent	Silicon Dioxide	14808-60-7	100%	5.5171%
DWP-621	CWS	Friction Reducer	No hazardous Materials	Not listed	100%	0.05992%
DWP-913	CWS	Clay Control	No Hazardous Materials	Not listed	100%	0.07961%
DWP-942	CWS	Foamer	Ammonium C-10 alkyl ether sulphate	68891-29-3	60%	0.03548%
			Hexylene Glycol	124-04-9	10%	0.00591%
			Ammonium sulphate	7783-20-2	1.5%	0.00089%
BioClear 2000	CWS	Biocide	2,2-Dibromo-3-Nitrilopropionamide	10222-01-2	40%	0.00856%
DAP-901	CWS	Scale Inhibitor	Methanol	67-56-1	30%	0.0057%
			Phosphoric Acid ammonium salt	Trade Secret	5%	0.00095%
			Ammonium Chloride	12125-02-9	10%	0.0019%
			Organic Phosphonate	Trade secret	30%	0.0057%
			Amine Salt	Trade secret	5%	0.00095%
			Oxyalkylated polyamine	Trade secret	5%	0.00095%
			DAP-925	CWS	Acid Corrosion Inhibitor	Modified Thiourea Polymer
Fatty Acids	Trade Secret	30%				0.00014%
Methanol	67-56-1	60%				0.00029%
Propargyl Alcohol	107-19-1	10%				5E-05%
Olefin	Trade secret	5%				2E-05%
Hydrochloric Acid	CWS	Acid	Polyoxyalkylenes	Trade secret	30%	0.00014%
Water	Customer	Base Fluid	Hydrochloric Acid	7647-01-0	35%	0.40238%
100%						
93.09%						
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:                      Tamra Sessions		Title:                      Operations Technician		
Date:                      10/31/2013						
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.