State of New Mexico						Revised November 6, 2013			
						1. WELL API NO. 30-045-35688			
Energy, Minerals and Natural Resources						2. Well Name: HEROS 2308 09L COM #001H			
Oil Conservation Division						3. Well Number:			
1220 S. St Francis Dr.						001H			
		Sant	ta Fe, NM 875	05					
						4. Surface Hole	agation		
HYDRAULIC FF	RACTURIN	IG FLUID				Unit:L Lot:L	Section:9 To	wnship:23N Range:08W	
DISCLOSURE						Feet from:210	EΛ	S Line:S W Line:W	
⊠ Original						Bottom Hole L Unit:E Lot:E		ownship:23N Range:08W	
□ Amendment						Feet from:2380	N	/S Line:N	
						Feet from:1310 6. latitude:		/W Line:W ongitude:	
						36.238493 -107.694942 7. County:			
						San S	luan		
Operator Name and Address:					9. OGRID:	289408	10. Phone Numb	per: 832-794-1355	
LOGOS OPERATI 2010 Afton Place Farmington 8740	-,				0.001.112	200.00	To a mone manua	002 70 7 1000	
						Туре:			
13. Pool Code(s): 14. Gro						O ractured Interval:			
47540 15. True Vertical Depth (TVD): 16. T						4,852 ft to 5,275 ft folume of Fluid Pumped:			
5,275 ft					1,3	,312,841 gals			
17. Total Volume of Re-Use Wa 918,989 gals	ater Pumped:				18. Percent of	Re-Use Water in	Fluid Pumped:		
	COMPOSIT	ION AND CONCENTRA	TION:		•				
Trade Name	Supplier	Purpose	Ingredients	(CAS #) Cher Service #	nical Abstract	Maximum Ingredient Maximum Ingredient Concentration in Additive (% by mass) Maximum Ingredient Concentration in HF Flui mass)		Concentration in HF Fluid (%	
Fresh Water	Operator	Base Fluid	Water	7732-18-5		,	100%	54.84219	
BE-7(TM) Cla-Web(TM)	Halliburton Halliburton	Biocide Additive	Listed Below Listed Below	Listed Belo		0%		0'	
GBW-30 BRÉAKER	Halliburton	Breaker	Listed Below	Listed Below		0%		0'	
HC-2 HCL >10%	Halliburton Halliburton	Additive Solvent	Listed Below Listed Below	Listed Below Listed Below		0%		0'	
LOSURF-300D	Halliburton	Non-ionic Surfactant		Listed Belo		0%		0'	
NITROGEN LIQUEFIED	Halliburton	Fluid	Listed Below	Listed Below Listed Below		0%		0'	
OPTIFLO-HTE SAND-PREMIUM WHITE-	Halliburton Halliburton	Breaker Proppant	Listed Below Listed Below	Listed Below		0%		0'	
20/40, BULK WG-35 GELLING AGENT	Halliburton		Listed Below	Listed Below			0%	0'	
MSDS and Non-MSDS	Halliburton	Gelling Agent	Listed Below	Elsted Below			0%		
Ingredients are listed below the									
Ingredients	Listed Above	Listed Above	1,2,4 Trimethylbenzene	95-63-6 Proprietary 6410-41-9			1%		
			Amine salts C.I. Pigment Red 5				0.1% 1%		
			Crystalline silica, quartz				100%		
			Cured acrylic resin	Proprietary			30%	0.00133	
			Enzyme	Proprietary 64-17-5			5%		
			Ethanol Glycerine	56-81-5			60% 5%		
			Guar gum	9000-30-0			100%		
			Heavy aromatic	64742-94-5			30%	0.00707	
			petroleum naphtha Hemicellulase enzyme	9012-54-8			30%	0.00129	
			Hydrochloric acid	7647-01-0			30%	0.07792	
			Hydroxyalkylammonium chloride	Proprietary			60%	0.01758	
			Inner salt of alkyl amines	Proprietary			30%	0.02113	
			Lactose	63-42-3			100%		
			Naphthalene Nitrogen	91-20-3 7727-37-9		5% 0.001 100% 16.172!			
			Oxylated phenolic resin			30%			
			Poly(oxy-1,2- ethanediyl), alpha-(4- nonylphenyl)-omega-	127087-87-	0		5%		
			hydroxy-, branched Quaternary amine	Proprietary			5%	0.00179	
			Sodium chloride	7647-14-5			30%	0.02259	
	1		Sodium hydroxide	1310-73-2		1	2%	0.00032	

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

11/22/2017

information.

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

30% 2% 30%

100% 100%

Title: Operations Technician

0.02259% 0.00032% 0.00476%

0.00476% 0.00428% 0.33545%

Sodium hydroxide

Walnut hulls

Water

Sodium hypochlorite

Proprietary 7647-14-5 1310-73-2

7681-52-9

CAS Not Assigned 7732-18-5