1220 S Santa CTURING FL UM CORPORATI	ormed by: CUDD CONCENTRATION:	n	3. Well Numi 0(4. Surface Hi Unit: N Lot: Feet from: 6 Feet from: 1 5. Bottom Ho Unit: N Lot: Feet from: 6 Feet from: 6 Feet from: 6 7. County: 9. OGRID: 25 12. Productio 0 14. Gross Frace	Die Location: N Section:1! 60 980 N Section:1! 60 980 Section:1! 60 980 12.5534981 ddy	9 Townsh N/S Lir E/W Lir 9 Townsh N/S Lir E/W Lir	nip:20S Range:28 ne:W nip:20S Range:28 ne:W longitude: - 104.219717442			
Santa CTURING FL UM CORPORATI 1/2013 Frac Perfo	ION CONCENTRATION:		4. Surface Hi Unit:N Lot: Feet from:0 Feet from:1 5. Bottom Ho Unit:N Lot: Feet from:6 Feet from:1 6. latitude: 7. County: 9. OGRID: 25	Die Location: N Section:1! 60 980 N Section:1! 60 980 Section:1! 60 980 12.5534981 ddy	9 Townsh N/S Lir E/W Lir 9 Townsh N/S Lir E/W Lir 515885	ne:S ne:W nip:20S Range:28 ne:S ne:W longitude: - 104.219717442			
UM CORPORATI	ION CONCENTRATION:		Unit:N Lot: Feet from:0 Feet from:1 5. Bottom Ho Unit:N Lot: Feet from:0 Feet from:1 6. latitude: 3 7. County: E0 9. OGRID: 25	N Section:1! 60 980 980 N Section:1! 60 980 12.5534981 ddy 575	9 Townsh N/S Lir E/W Lir 9 Townsh N/S Lir E/W Lir 515885	ne:S ne:W nip:20S Range:28 ne:S ne:W longitude: - 104.219717442			
UM CORPORATI	ormed by: CUDD CONCENTRATION:		Unit:N Lot: Feet from:0 Feet from:1 6. latitude: 7. County: E9. OGRID: 25	N Section:1! 60 980 2.5534981 ddy 575	N/S Lin E/W Lin 515885	ne:S ne:W longitude: - 104.219717442			
UM CORPORATI	ormed by: CUDD CONCENTRATION:		7. County: E: 9. OGRID: 25 12. Productio 0 14. Gross Frac	ddy 575 n Type:	10. Pho	- 104.219717442			
UM CORPORATI	ormed by: CUDD CONCENTRATION:		9. OGRID: 25 12. Productio O 14. Gross Frac	575 n Type:					
UM CORPORATI	ormed by: CUDD CONCENTRATION:		12. Productio O 14. Gross Frac	n Type:					
1/2013 Frao Perfo	ormed by: CUDD CONCENTRATION:		12. Productio O 14. Gross Frac	n Type:	Number	n			
POSITION AND (CONCENTRATION:		O 14. Gross Frac	**					
			14. Gross Frac	tured Interva					
			6.0						
		96213 15. True Vertical Depth (TVD): 11,500 ft 17. HYDRAULIC FLUID COMPOSITION AND CONCENTRATION:				6,274 ft to 6,360 ft 16. Total Volume of Fluid Pumped: 146,958 gals			
	Ingredients		S #) Chemical tract Service	Maximum Ingredient Concentrati Additive (% mass)		Maximum Ingredient Concentration in HF Fluid (% by mass)			
Carrier / Base Fluid		773	2-18-5	massj	100%	83.61102			
Proppant	Silicon Dioxide	148	08-60-7		100%	11.95295			
Proppant	Silicon Dioxide	148	08-60-7		97%	3.34845			
	P/F Novolak Resin Hexamethylenetetramine		3-35-4		5% 1%	0.1726 0.03452			
Biocide	Tetrakis (hydroxymethyl) phosphonium sulfate Water	555	66-30-8		20%	0.00186			
ork Biocide	2,2 Dibromo-3- Nitrilopropionamide		22-01-2		100%	0.00055			
Buffer	Potassium Hydroxide		0-58-3		25%	0.01243			
x, Clay Control	Water Non-hazardous salts (Choline)	Pro	2-18-5 prietary		80% 66%	0.03978 ⁴ 0.05962 ⁴			
Polymer	Water Guar Gum		2-18-5 0-30-0		45% 50%	0.04065 0.27274			
ogy Polymer	Petroleum Distillate (Mineral Oil)	647	42-47-8		55%	0.30001			
	Bentonite Clay Surfactant		08-60-7 39-51-0		2% 2%	0.01091 0.01091			
Crosslinker	Ethylene Glycol		-21-1		25%	0.03481			
	Potassium Hydroxide		0-58-3		25%	0.03481			
						0.03481 0.02089			
	Proprietary	Pro			10%	0.01392			
x, Breaker	Non-hazardous ingredients	NA			100%	0.03129			
Non-	Isopropanol				15%	0.01228			
emuisitier						0.01228 0.01637			
_	Methanol Poly(oxyethylene)	67-	56-1		50% 54%	0.01812 0.01957			
9	Non- emulsifier Resin Activator	Resin Activator Poly(oxyethylene) nonyphenol ether that the information shown on this disclosure for	Proprietary	Proprietary Proprietary	Proprietary	Proprietary Proprietary 15%			

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.

 Date:
 8/13/2013

 E-mail Address:
 tinah@ypcnm.com