	completion	State	of New Mex	ico				Revised	November 6, 2013	
							1. WELL API NO. 30-025-42086			
	Energy, Minerals and Natural Resource						30-025-42086			
Oil Conservation Division						2. Well Name:				
						HEA	ARNS 27 STATE	COM #301H		
		1220 8	S. St Francis	Dr.		3. Well Number:				
		Santa	a Fe, NM 875	505		301	Н			
HYDRAULIC F	RACTURING F	LUID				4. Surface Hole		Township:24S	Range:33E	
DISCLOSURE □ Original								N/S Line:S	Kange.55L	
							Feet from:600 E/W Line:W 5. Bottom Hole Location:			
100 A	sure submitted on 2/	2/2015				Feet from:210 Feet from:600		Township:24S N/S Line:S E/W Line:W	Range:33E	
						6. latitude: 32.	1819169645723	longitude: -103	.566783215552	
						7. County: Lea				
 Operator Name and Address: EOG RESOURC 					9. OGRID:	7377	10. Phone Number	r: 432	-686-3689	
P.O. Box 2267										
Midland 79702 11. Last Fracture Date: 1/6	3/2015 Frac Performed by	: Universal Pressure I	Pumping Company		12. Production	Type:				
	1/2015 Fract endined by	Oniversal Fressure	Fullipling Company		0					
13. Pool Code(s): 96682						ctured Interval:),375 ft to 15,40	02 ft			
15. True Vertical Depth (TVD):						lume of Fluid Pumped:				
10,375 ft 17. Total Volume of Re-Use Wa	iter Pumped:					,323,941 gals of Re-Use Water in Fluid Pumped:				
N/A	D COMPONITON A	UD CONOFILEDA	TON.		N	ot Disclosed				
19. HYDRAULIC FLUII Trade Name	Supplier Supplier	Purpose	Ingredients	(CAS#) Chemic	al Abstract	Maximum Ingre	edient	Maximum Ingr	edient	
Trade Name	Supplier	1 dipose	ingredients	Service #	al Abstract	Concentration	in Additive (% by	Concentration	in HF Fluid (% by	
Water	EOG	Carrier/Base Fluid	Water	7732-18-5		mass)	100%	mass)	87.25346%	
Sand	EOG	Proppant	Crystalline Silica	14808-60-7			100%		11.26893%	
Hydrochloric Acid	UPPI	Acid	Hydrogen Chloride	7647-01-0			37%		0.43173%	
Universal Polybreak XPA	Chemplex	Breakers and	Water Hydrogen peroxide	7732-18-5 7722-84-1			74% 7%		0.86347%	
Oniversal Folybreak XI A	Onempiex	Breaker Catalysts	Trydrogen peroxide	1122-04-1			770		0.003037	
		Acid Corrosion	Methyl Alcohol	67-56-1			40%		0.0007%	
CIA-5	Chemplex								0.000440	
		Inhibitors Iron Control	Propargyl Alcohol	107-19-7 10125130			8% 7%		0.00014%	
X.	Chemplex Chemplex	Inhibitors	Propargyl Alcohol Cupric Chloride Dihydrate	107-19-7 10125130			8% 7%		0.00023%	
R-1	Chemplex	Inhibitors Iron Control Additives	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol	107-19-7 10125130 60-24-2			8% 7% 75%		0.00023%	
IR-1		Inhibitors Iron Control	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol	107-19-7 10125130			8% 7%		0.00023%	
IR-1	Chemplex Economy Polymers	Inhibitors Iron Control Additives Non-Emulsifier and	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether	107-19-7 10125130 60-24-2 67-56-1 9004-77-7			8% 7% 75% 70% 50%		0.00023% 0.00251% 0.0004% 0.00029%	
IR-1 NE-601	Chemplex Economy Polymers & Chemicals	Inhibitors Iron Control Additives Non-Emulsifier and De-Emulsifiers	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether Diethanolamide	107-19-7 10125130 60-24-2 67-56-1 9004-77-7 Trade Secret			8% 7% 75% 70% 50%		0.00023% 0.00251% 0.0004% 0.00029% 0.0004%	
IR-1 NE-601	Chemplex Economy Polymers	Inhibitors Iron Control Additives Non-Emulsifier and	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether Diethanolamide Paraffinic,	107-19-7 10125130 60-24-2 67-56-1 9004-77-7			8% 7% 75% 70% 50%		0.00023% 0.00251% 0.0004% 0.00029%	
R-1 NE-601	Chemplex Economy Polymers & Chemicals	Inhibitors Iron Control Additives Non-Emulsifier and De-Emulsifiers	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether Diethanolamide	107-19-7 10125130 60-24-2 67-56-1 9004-77-7 Trade Secret			8% 7% 75% 70% 50% 70% 25%		0.00023% 0.00251% 0.0004% 0.00029% 0.0004% 0.01157%	
IR-1 NE-601	Chemplex Economy Polymers & Chemicals	Inhibitors Iron Control Additives Non-Emulsifier and De-Emulsifiers	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether Diethanolamide Paraffinic, Naphthenic Solvent Oleamide DEA Sorbitan Monooleate	107-19-7 10125130 60-24-2 67-56-1 9004-77-7 Trade Secret 64742-47-8 Trade Secret 1338-43-8			8% 7% 75% 70% 50% 70% 25% 2%		0.00023% 0.00251% 0.0004% 0.00029% 0.0004% 0.01157% 0.00093% 0.00093%	
IR-1 NE-601	Chemplex Economy Polymers & Chemicals	Inhibitors Iron Control Additives Non-Emulsifier and De-Emulsifiers	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether Diethanolamide Paraffinic, Naphthenic Solvent Oleamide DEA Sorbitan Monooleate Poly (acrylamide-co-	107-19-7 10125130 60-24-2 67-56-1 9004-77-7 Trade Secret 64742-47-8 Trade Secret			8% 7% 75% 70% 50% 70% 25%		0.000239 0.002519 0.00049 0.000299 0.00049 0.011579 0.000939 0.000939	
IR-1 NE-601	Chemplex Economy Polymers & Chemicals	Inhibitors Iron Control Additives Non-Emulsifier and De-Emulsifiers	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether Diethanolamide Paraffinic, Naphthenic Solvent Oleamide DEA Sorbitan Monooleate Poly (acrylamide-co- acrylic acid), partial sodium salt	107-19-7 10125130 60-24-2 67-56-1 9004-77-7 Trade Secret 64742-47-8 Trade Secret 1338-43-8 62649-23-4			8% 7% 75% 70% 50% 25% 2% 32%		0.000239 0.002519 0.00049 0.000299 0.00049 0.011579 0.000939 0.000939 0.01489	
IR-1 NE-601	Chemplex Economy Polymers & Chemicals	Inhibitors Iron Control Additives Non-Emulsifier and De-Emulsifiers	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether Diethanolamide Paraffinic, Naphthenic Solvent Oleamide DEA Sorbitan Monooleate Poly (acrylamide-co- acrylic acid), partial sodium Salt Sodium Chloride	107-19-7 10125130 60-24-2 67-56-1 9004-77-7 Trade Secret 64742-47-8 Trade Secret 1338-43-8 62649-23-4			8% 7% 75% 70% 50% 70% 25% 2% 32%		0.00023% 0.00251% 0.0004% 0.00029% 0.0004% 0.01157% 0.00093% 0.00093% 0.0148% 0.00324%	
IR-1 NE-601	Chemplex Economy Polymers & Chemicals	Inhibitors Iron Control Additives Non-Emulsifier and De-Emulsifiers	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether Diethanolamide Paraffinic, Naphthenic Solvent Oleamide DEA Sorbitan Monooleate Poly (acrylamide-co- acrylic acid), partial sodium Salt Sodium Chloride Alcohols, C12-16,	107-19-7 10125130 60-24-2 67-56-1 9004-77-7 Trade Secret 64742-47-8 Trade Secret 1338-43-8 62649-23-4			8% 7% 75% 70% 50% 25% 2% 32%		0.00023% 0.00251% 0.0004% 0.00029% 0.0004% 0.01157% 0.00093% 0.00093% 0.0148%	
IR-1 NE-601 WFR-6	Chemplex Economy Polymers & Chemicals UPPI	Inhibitors Iron Control Additives Non-Emulsifier and De-Emulsifiers Friction Reducer	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether Diethanolamide Paraffinic, Naphthenic Solvent Oleamide DEA Sorbitan Monooleate Poly (acrylamide-co-acrylic acid), partial sodium salt Sodium Chloride Alcohols, C12-16, ethoxylated Water	107-19-7 10125130 60-24-2 67-56-1 9004-77-7 Trade Secret 64742-47-8 Trade Secret 1338-43-8 62649-23-4 7647-14-5 68551-12-2			8% 7% 75% 70% 50% 70% 25% 25% 29% 32% 32% 40%		0.00023% 0.00251% 0.0004% 0.00029% 0.0001157% 0.00093% 0.00093% 0.0148% 0.00231% 0.00231%	
IR-1 NE-601 WFR-6	Chemplex Economy Polymers & Chemicals	Inhibitors Iron Control Additives Non-Emulsifier and De-Emulsifiers	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether Diethanolamide Paraffinic, Naphthenic Solvent Oleamide DEA Sorbitan Monooleate Poly (acrylamide-coacrylic acid), partial sodium salt Sodium Chloride Alcohols, C12-16, ethoxylated Water Choline Chloride	107-19-7 10125130 60-24-2 67-56-1 9004-77-7 Trade Secret 64742-47-8 Trade Secret 1338-43-8 62649-23-4 7647-14-5 68551-12-2 7732-18-5 67-48-1			8% 7% 75% 70% 50% 70% 25% 25% 22% 32% 75% 40% 75%		0.00023% 0.00251% 0.0004% 0.00029% 0.0004% 0.01157% 0.00093% 0.0148% 0.00324% 0.00231% 0.0185% 0.13131%	
NE-601 WFR-6	Chemplex Economy Polymers & Chemicals UPPI UPPI	Inhibitors Iron Control Additives Non-Emulsifier and De-Emulsifiers Friction Reducer Clay Stabilizer	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether Diethanolamide Paraffinic, Naphthenic Solvent Oleamide DEA Sorbitan Monooleate Poly (acrylamide-coacrylic acid), partial sodium salt Sodium Chloride Alcohols, C12-16, ethoxylated Water Choline Chloride Water	107-19-7 10125130 60-24-2 67-56-1 9004-77-7 Trade Secret 64742-47-8 Trade Secret 1338-43-8 62649-23-4 7647-14-5 68551-12-2 7732-18-5 67-48-1 7732-18-5			8% 7% 75% 70% 50% 70% 25% 29% 32% 7% 5% 40% 75% 30%		0.00023% 0.00251% 0.0004% 0.00029% 0.0004% 0.01157% 0.00093% 0.00093% 0.0148% 0.00324% 0.00231% 0.0185% 0.13131% 0.05252%	
IR-1 NE-601 WFR-6 CSA-70	Chemplex Economy Polymers & Chemicals UPPI	Inhibitors Iron Control Additives Non-Emulsifier and De-Emulsifiers Friction Reducer	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether Diethanolamide Paraffinic, Naphthenic Solvent Oleamide DEA Sorbitan Monooleate Poly (acrylamide-co-acrylic acid), partial sodium salt Sodium Chloride Alcohols, C12-16, ethoxylated Water Choline Chloride Water Sodium Carbonate Proteolytic Enzyme	107-19-7 10125130 60-24-2 67-56-1 9004-77-7 Trade Secret 64742-47-8 Trade Secret 1338-43-8 62649-23-4 7647-14-5 68551-12-2 7732-18-5 67-48-1 7732-18-5 497-19-18 9014-01-1			8% 7% 75% 70% 50% 70% 25% 25% 29% 32% 40% 75% 40% 75% 30% 40% 0.1%		0.00023% 0.00251% 0.0004% 0.00029% 0.001157% 0.00093% 0.00148% 0.00231% 0.0135% 0.13131% 0.05252% 0.00157% 4E-05%	
IR-1 NE-601 WFR-6 CSA-70	Chemplex Economy Polymers & Chemicals UPPI UPPI	Inhibitors Iron Control Additives Non-Emulsifier and De-Emulsifiers Friction Reducer Clay Stabilizer	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether Diethanolamide Paraffinic, Naphthenic Solvent Oleamide DEA Sorbitan Monooleate Poly (acrylamide-co-acrylic acid), partial sodium Salt Sodium Chloride Alcohols, C12-16, ethoxylated Water Choline Chloride Water Sodium Carbonate Proteolytic Enzyme Linear alkyl benene	107-19-7 10125130 60-24-2 67-56-1 9004-77-7 Trade Secret 64742-47-8 Trade Secret 1338-43-8 62649-23-4 7647-14-5 68551-12-2 7732-18-5 67-48-1 7732-18-5 497-19-18			8% 7% 75% 70% 50% 70% 25% 2% 32% 40% 75% 30% 40% 4%		0.00023% 0.00251% 0.0004% 0.00029% 0.0004% 0.01157% 0.00093% 0.00093% 0.0148% 0.00324% 0.00231% 0.0185% 0.13131% 0.05252% 0.00157%	
IR-1 NE-601 WFR-6 CSA-70	Chemplex Economy Polymers & Chemicals UPPI UPPI	Inhibitors Iron Control Additives Non-Emulsifier and De-Emulsifiers Friction Reducer Clay Stabilizer	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether Diethanolamide Paraffinic, Naphthenic Solvent Oleamide DEA Sorbitan Monooleate Poly (acrylamide-co-acrylic acid), partial sodium salt Sodium Chloride Alcohols, C12-16, ethoxylated Water Choline Chloride Water Sodium Carbonate Proteolytic Enzyme	107-19-7 10125130 60-24-2 67-56-1 9004-77-7 Trade Secret 64742-47-8 Trade Secret 1338-43-8 62649-23-4 7647-14-5 68551-12-2 7732-18-5 67-48-1 7732-18-5 497-19-18 9014-01-1			8% 7% 75% 70% 50% 70% 25% 25% 29% 32% 40% 75% 40% 75% 30% 40% 0.1%		0.00023% 0.00251% 0.0004% 0.00029% 0.0004% 0.01157% 0.00093% 0.0148% 0.00324% 0.00231% 0.0185% 0.13131% 0.05252% 0.00157% 4E-05% 0.00078%	
NE-601 WFR-6	Chemplex Economy Polymers & Chemicals UPPI UPPI	Inhibitors Iron Control Additives Non-Emulsifier and De-Emulsifiers Friction Reducer Clay Stabilizer	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether Diethanolamide Paraffinic, Naphthenic Solvent Oleamide DEA Sorbitan Monooleate Poly (acrylamide-co-acrylic acid), partial sodium salt Sodium Chloride Alcohols, C12-16, ethoxylated Water Choline Chloride Water Sodium Carbonate Proteolytic Enzyme Linear alkyl benene sulfonate Primary C14-15 Alcohol Sulfate	107-19-7 10125130 60-24-2 67-56-1 9004-77-7 Trade Secret 64742-47-8 Trade Secret 1338-43-8 62649-23-4 7647-14-5 68551-12-2 7732-18-5 67-48-1 7732-18-5 497-19-18 9014-01-1 68081-98-1			8% 7% 75% 70% 50% 70% 25% 25% 29% 32% 40% 75% 40% 75% 30% 44% 0.11% 2%		0.00023% 0.00251% 0.0004% 0.00029% 0.001157% 0.00093% 0.00148% 0.00231% 0.01324% 0.013131% 0.013252 0.00157% 4E-05% 0.000739%	
R-1 NE-601 WFR-6	Chemplex Economy Polymers & Chemicals UPPI UPPI	Inhibitors Iron Control Additives Non-Emulsifier and De-Emulsifiers Friction Reducer Clay Stabilizer	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether Diethanolamide Paraffinic, Naphthenic Solvent Oleamide DEA Sorbitan Monooleate Poly (acrylamide-co-acrylic acid), partial sodium Salt Sodium Chloride Alcohols, C12-16, ethoxylated Water Choline Chloride Water Sodium Carbonate Proteolytic Enzyme Linear alkyl benene sulfonate Primary C14-15 Alcohol Sulfate Alcohol Ether Sulfate	107-19-7 10125130 60-24-2 67-56-1 9004-77-7 Trade Secret 64742-47-8 Trade Secret 1338-43-8 62649-23-4 7647-14-5 68551-12-2 7732-18-5 67-48-1 7732-18-5 9014-01-1 68081-81-2 68585-34-2			8% 7% 75% 70% 50% 50% 70% 25% 25% 29% 32% 40% 75% 30% 40% 0.1% 2% 11%		0.00023% 0.00251% 0.0004% 0.00029% 0.0004% 0.01157% 0.00093% 0.00188% 0.001324% 0.00231% 0.0185% 0.13131% 0.05252% 0.00157% 4E-05% 0.00078% 0.00039% 0.00039%	
R-1 NE-601 WFR-6 CSA-70 S-602	Chemplex Economy Polymers & Chemicals UPPI UPPI UPPI	Inhibitors Iron Control Additives Non-Emulsifier and De-Emulsifiers Friction Reducer Clay Stabilizer Surfactant	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether Diethanolamide Paraffinic, Naphthenic Solvent Oleamide DEA Sorbitan Monooleate Poly (acrylamide-co-acrylic acid), partial sodium Salt Sodium Chloride Alcohols, C12-16, ethoxylated Water Choline Chloride Water Sodium Carbonate Proteolytic Enzyme Linear alkyl benene sulfonate Primary C14-15 Alcohol Sulfate Alcohol Ether Sulfate d-Limonene	107-19-7 10125130 60-24-2 67-56-1 9004-77-7 Trade Secret 64742-47-8 Trade Secret 1338-43-8 62649-23-4 7647-14-5 68551-12-2 7732-18-5 67-48-1 7732-18-5 497-19-18 9014-01-1 68081-98-1 68585-34-2 94266-47-4			8% 7% 75% 70% 50% 50% 70% 25% 25% 32% 32% 40% 75% 30% 41% 0.1% 25%		0.00023% 0.00251% 0.0004% 0.00029% 0.0004% 0.01157% 0.00093% 0.0148% 0.00324% 0.00231% 0.0185% 0.131319 0.05252% 0.001579 4E-05% 0.00039% 0.00039%	
R-1 NE-601 WFR-6 CSA-70 S-602	Chemplex Economy Polymers & Chemicals UPPI UPPI UPPI UPPI Spectrum Tracer Services	Inhibitors Iron Control Additives Non-Emulsifier and De-Emulsifiers Friction Reducer Clay Stabilizer	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether Diethanolamide Paraffinic, Naphthenic Solvent Oleamide DEA Sorbitan Monooleate Poly (acrylamide-co-acrylic acid), partial sodium salt Sodium Chloride Alcohols, C12-16, ethoxylated Water Choline Chloride Water Sodium Carbonate Proteolytic Enzyme Linear alkyl benene sulfonate Primary C14-15 Alcohol Sulfate Alcohol Sulfate Alcohol Ether Sulfate d-Limonene Charcoal Inert Ingredients	107-19-7 10125130 60-24-2 67-56-1 9004-77-7 Trade Secret 64742-47-8 Trade Secret 1338-43-8 62649-23-4 7647-14-5 68551-12-2 7732-18-5 67-48-1 7732-18-5 9014-01-1 68081-81-2 68585-34-2			8% 7% 75% 70% 50% 50% 70% 25% 22% 32% 5% 40% 75% 30% 44% 0.1% 2% 10.5% 10.5% 10.5%		0.00023% 0.00251% 0.0004% 0.00029% 0.001157% 0.00093% 0.0148% 0.01324% 0.00231% 0.0185% 0.13131% 0.05252% 0.001579 4E-05% 0.00039% 0.00039% 0.00039%	
IR-1 NE-601 WFR-6 CSA-70 S-602 Oil Soluble Tracer (OST)	Chemplex Economy Polymers & Chemicals UPPI UPPI UPPI UPPI Spectrum Tracer	Inhibitors Iron Control Additives Non-Emulsifier and De-Emulsifiers Friction Reducer Clay Stabilizer Surfactant	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether Diethanolamide Paraffinic, Naphthenic Solvent Oleamide DEA Sorbitan Monooleate Poly (acrylamide-co-acrylic acid), partial sodium Salt Sodium Chloride Alcohols, C12-16, ethoxylated Water Choline Chloride Water Sodium Carbonate Proteolytic Enzyme Linear alkyl benene sulfonate Primary C14-15 Alcohol Sulfate Alcohol Sulfate Alcohol Ether Sulfate d-Limonene Charcoal Inert Ingredients Ceeramic Proppant	107-19-7 10125130 60-24-2 67-56-1 9004-77-7 Trade Secret 64742-47-8 Trade Secret 1338-43-8 62649-23-4 7647-14-5 68551-12-2 7732-18-5 67-48-1 7732-18-5 497-19-18 9014-01-1 68081-98-1 68585-34-2 94266-47-4 7440-44-0 Trade Secret Proprietary			8% 7% 75% 70% 50% 50% 70% 25% 25% 29% 32% 40% 75% 30% 41% 0.1% 0.5% 11% 90% 10%		0.00023% 0.00251% 0.0004% 0.00029% 0.001157% 0.00093% 0.001324% 0.00231% 0.0185% 0.13131% 0.05252% 0.00157% 4E-05% 0.00039% 0.00039% 0.00039% 0.00039% 0.00039% 0.000306% 3.4E-05%	
CIA-5 IR-1 NE-601 WFR-6 CSA-70 S-602 Oil Soluble Tracer (OST) ZeroWash Tracer	Chemplex Economy Polymers & Chemicals UPPI UPPI UPPI UPPI Spectrum Tracer Services	Inhibitors Iron Control Additives Non-Emulsifier and De-Emulsifiers Friction Reducer Clay Stabilizer Surfactant Diagnostics	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether Diethanolamide Paraffinic, Naphthenic Solvent Oleamide DEA Sorbitan Monooleate Poly (acrylamide-co-acrylic acid), partial sodium Salt Sodium Chloride Alcohols, C12-16, ethoxylated Water Choline Chloride Water Choline Chloride Water Proteolytic Enzyme Linear alkyl benene sulfonate Primary C14-15 Alcohol Sulfate Alcohol Ether Sulfate d-Limonene Charcoal Inert Ingredients Ceeramic Proppant Water (major)	107-19-7 10125130 60-24-2 67-56-1 9004-77-7 Trade Secret 64742-47-8 Trade Secret 1338-43-8 62649-23-4 7647-14-5 68551-12-2 7732-18-5 67-48-1 7732-18-5 69044-01-1 68081-81-2 68585-34-2 94266-47-4 7440-44-0 Proprietary 7732-18-5			8% 7% 75% 70% 50% 50% 70% 25% 25% 29% 32% 32% 40% 75% 30% 40% 10% 10% 10% 10% 14% 70%		0.00023% 0.00251% 0.0004% 0.00029% 0.001457% 0.00093% 0.00093% 0.0148% 0.00231% 0.0185% 0.131319% 0.05252% 0.00157% 4E-05% 0.000306% 0.000306% 3.4E-05% 0.00	
IR-1 NE-601 WFR-6 CSA-70 S-602 Oil Soluble Tracer (OST)	Chemplex Economy Polymers & Chemicals UPPI UPPI UPPI UPPI Spectrum Tracer Services	Inhibitors Iron Control Additives Non-Emulsifier and De-Emulsifiers Friction Reducer Clay Stabilizer Surfactant Diagnostics	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether Diethanolamide Paraffinic, Naphthenic Solvent Oleamide DEA Sorbitan Monooleate Poly (acrylamide-co-acrylic acid), partial sodium Salt Sodium Chloride Alcohols, C12-16, ethoxylated Water Choline Chloride Water Sodium Carbonate Proteolytic Enzyme Linear alkyl benene sulfonate Primary C14-15 Alcohol Sulfate Alcohol Sulfate Alcohol Ether Sulfate d-Limonene Charcoal Inert Ingredients Ceeramic Proppant	107-19-7 10125130 60-24-2 67-56-1 9004-77-7 Trade Secret 64742-47-8 Trade Secret 1338-43-8 62649-23-4 7647-14-5 68551-12-2 7732-18-5 67-48-1 7732-18-5 497-19-18 9014-01-1 68081-98-1 68585-34-2 94266-47-4 7440-44-0 Trade Secret Proprietary			8% 7% 75% 70% 50% 50% 70% 25% 25% 29% 32% 40% 75% 30% 41% 0.1% 0.5% 11% 90% 10%		0.00023% 0.00251% 0.0004% 0.00029% 0.001157% 0.00093% 0.001324% 0.00231% 0.0185% 0.13131% 0.05252% 0.00157% 4E-05% 0.00039% 0.00039% 0.00039% 0.00039% 0.00039% 0.000306% 3.4E-05%	
IR-1 NE-601 WFR-6 CSA-70 S-602 Oil Soluble Tracer (OST)	Chemplex Economy Polymers & Chemicals UPPI UPPI UPPI UPPI Spectrum Tracer Services	Inhibitors Iron Control Additives Non-Emulsifier and De-Emulsifiers Friction Reducer Clay Stabilizer Surfactant Diagnostics	Propargyl Alcohol Cupric Chloride Dihydrate Thioglycol Methanol Polyoxyalkylene glycol butyl ether Diethanolamide Paraffinic, Naphthenic Solvent Oleamide DEA Sorbitan Monooleate Poly (acrylamide-co-acrylic acid), partial sodium Salt Sodium Chloride Alcohols, C12-16, ethoxylated Water Choline Chloride Water Sodium Carbonate Proteolytic Enzyme Linear alkyl benene sulfonate Primary C14-15 Alcohol Sulfate Alcohol Ether Sulfate d-Limonene Charcoal Inert Ingredients Ceeramic Proppant Water (major) Methanol (major)	107-19-7 10125130 60-24-2 67-56-1 9004-77-7 Trade Secret 64742-47-8 Trade Secret 1338-43-8 62649-23-4 7647-14-5 68551-12-2 7732-18-5 67-48-1 7732-18-5 497-19-18 9014-01-1 68081-98-1 68585-34-2 94266-47-4 7440-44-0 Trade Secret Proprietary 7732-18-5 67-56-1 34590-94-8			8% 7% 75% 70% 50% 50% 70% 25% 22% 32% 32% 40% 75% 40% 0.1% 2.1% 90% 14% 70% 30% 30%		0.00023% 0.00251% 0.0004% 0.00029% 0.0004% 0.01157% 0.00093% 0.0148% 0.00324% 0.00231% 0.0185% 0.13131% 0.05252% 0.00157% 4E-05% 0.00039% 0.00039% 0.00039% 0.00039% 0.000306% 3.4E-05% 0%	

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3/11/2015

Date: