well completion	ays of	State	of New Mexico				Revise	d February 15, 2012	
well completion		Energy, Mi	inerals and Natur	1. WEI	LL APIN				
			esources	u.	30-	-015-40	117		
		recording to the same of the same of			l Name:				
			Oil Conservation Division		WASHINGTON 33 STATE #061				
1220 S. St Francis Dr.					3. Well Number:				
		Santa	a Fe, NM 87505		061 4. Surface Hole Location:				
HYDRAUL	IC FRA	CTURING FL	UID DISCLOSURE	7				ip:17S Range:28	
⊠ Original					Feet from: 1040 N/S Line: S				
					Feet from:990 E/W Line:E 5. Bottom Hole Location: Unit:P Lot:P Section:33 Township:17S Range:28				
					from: 10		E/W Lin		
					itude:			ngitude:	
					32	2.78682	7800133	-	
							10	04.17563220419	
				7. Cou	inty: Edi	dy			
8 Operator Name a	nd Address			9. OG	RID.		10. Phone N	umber:	
Operator Name and Address: APACHE CORP					873		432-818-1062		
303 Vet	erans Airp	oark Lane			13300				
Suite 30									
Midland					_				
11. Last Fracture Date: 10/17/2012 Frac Performed by: Baker Hughes					12. Production Type: O				
13. Pool Code(s):				14. G	14. Gross Fractured Interval:				
96830					4,750 ft to 4,900 ft				
15. True Vertical De	epth (TVD):			16. To			luid Pumped:		
4,900 ft	LUD COL	IDO CITION AND	CONCENTRATION		2,5	583 bbls	3		
17. HYDKAULIC F	Supplier	Purpose	CONCENTRATION:	(CAS#) Ch	emical	Maximu	um.	Maximum	
Trade Name	Supplier	Purpose	ingredients	Abstract S		Ingredie		Ingredient	
				#	19071034		tration in	Concentration in	
						Additive mass)	e (% by	HF Fluid (% by mass)	
		. 0	101-1		-				
Water	Operator	r Carrier	Water	7732-18-	5		100%	85.553689	
		r Carrier Activator	Denatured Ethanol	7732-18- 64-17-5	5		100% 45%		
		Activator	Denatured Ethanol Di (Ethylene Glycol) Ethyl	64-17-5	- 0			0.036179	
Superset-U, tote	Baker Hughes	Activator	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate	64-17-5 112-15-2			45% 55%	0.036179 0.044219	
Superset-U, tote	Baker Hughes Baker	Activator Biocide	Denatured Ethanol Di (Ethylene Glycol) Ethyl	64-17-5			45%	0.036179 0.044219	
Superset-U, tote Alpha 125	Baker Hughes Baker Hughes	Activator Biocide	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde	64-17-5 112-15-2 111-30-8			45% 55% 30%	0.036179 0.044219 0.00659	
Water Superset-U, tote Alpha 125 GBW-15L	Baker Hughes Baker Hughes Baker	Activator Biocide Breaker	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate	64-17-5 112-15-2			45% 55%	85.553689 0.036179 0.044219 0.00659	
Superset-U, tote Alpha 125 GBW-15L	Baker Hughes Baker Hughes Baker Hughes	Activator Biocide Breaker	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde Enzyme solution	64-17-5 112-15-2 111-30-8 Trade Se			45% 55% 30% 100%	0.036179 0.044219 0.00659 0.047279	
Superset-U, tote Alpha 125	Baker Hughes Baker Hughes Baker Hughes Baker	Activator Biocide Breaker	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde Enzyme solution Choline Chloride	64-17-5 112-15-2 111-30-8 Trade Se 67-48-1	cret		45% 55% 30% 100% 75%	0.036179 0.044219 0.00659 0.047279 0.040659	
Superset-U, tote Alpha 125 GBW-15L ClayCare, tote	Baker Hughes Baker Hughes Baker Hughes	Activator Biocide Breaker Clay Control	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde Enzyme solution	64-17-5 112-15-2 111-30-8 Trade Se	cret 5		45% 55% 30% 100%	0.036179 0.044219 0.00659 0.047279	
Superset-U, tote Alpha 125 GBW-15L ClayCare, tote	Baker Hughes Baker Hughes Baker Hughes Baker Hughes	Activator Biocide Breaker Clay Control Crosslinker	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde Enzyme solution Choline Chloride Water	64-17-5 112-15-2 111-30-8 Trade Se 67-48-1 7732-18-	cret		45% 55% 30% 100% 75% 30%	0.036179 0.044219 0.00659 0.047279 0.040659 0.016269 0.038149	
Superset-U, tote Alpha 125 GBW-15L ClayCare, tote	Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker	Activator Biocide Breaker Clay Control Crosslinker	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde Enzyme solution Choline Chloride Water Ethylene Glycol	64-17-5 112-15-2 111-30-8 Trade Se 67-48-1 7732-18- 107-21-1	cret 5		45% 55% 30% 100% 75% 30% 30%	0.036179 0.044219 0.00659 0.047279 0.040659 0.016269 0.038149 0.012719	
Superset-U, tote Alpha 125 GBW-15L ClayCare, tote XLW-10A	Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes	Activator Biocide Breaker Clay Control Crosslinker	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde Enzyme solution Choline Chloride Water Ethylene Glycol Sodium Hydroxide	64-17-5 112-15-2 111-30-8 Trade Se 67-48-1 7732-18- 107-21-1 1310-73-	cret 5 2 4		45% 55% 30% 100% 75% 30% 30% 10%	0.036179 0.044219 0.00659 0.047279 0.040659 0.016269 0.038149 0.012719 0.038149	
Superset-U, tote Alpha 125 GBW-15L ClayCare, tote XLW-10A	Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes	Activator Biocide Breaker Clay Control Crosslinker	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde Enzyme solution Choline Chloride Water Ethylene Glycol Sodium Hydroxide Sodium Tetraborate	64-17-5 112-15-2 111-30-8 Trade Se 67-48-1 7732-18- 107-21-1 1310-73- 1330-43-	5 2 4 0		45% 55% 30% 100% 75% 30% 30% 10% 30%	0.036179 0.044219 0.04659 0.040659 0.016269 0.038149 0.038149 0.353019	
Superset-U, tote Alpha 125 GBW-15L ClayCare, tote XLW-10A	Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes	Activator Biocide Breaker Clay Control Crosslinker Gelling	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde Enzyme solution Choline Chloride Water Ethylene Glycol Sodium Hydroxide Sodium Tetraborate Guar Gum Paraffinic Petroleum Distillate	64-17-5 112-15-2 111-30-8 Trade Se 67-48-1 7732-18- 107-21-1 1310-73- 1330-43- 9000-30- 64742-55	5 2 4 0 5-8		45% 55% 30% 100% 75% 30% 30% 10% 60% 60%	0.036179 0.044219 0.00659 0.047279 0.040659 0.016269 0.038149 0.012719 0.038109 0.353019	
Superset-U, tote Alpha 125 GBW-15L ClayCare, tote XLW-10A GW-4LDF	Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes	Activator Biocide Breaker Clay Control Crosslinker Gelling Agent	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde Enzyme solution Choline Chloride Water Ethylene Glycol Sodium Hydroxide Sodium Tetraborate Guar Gum Paraffinic Petroleum Distillate Petroleum Distillate	64-17-5 112-15-2 111-30-8 Trade Se 67-48-1 7732-18- 107-21-1 1310-73- 1330-43- 9000-30- 64742-55	cret 5 2 4 0 5-8 7-8		45% 55% 30% 100% 75% 30% 30% 10% 60% 60%	0.036179 0.044219 0.04659 0.047279 0.040659 0.016269 0.038149 0.012719 0.038149 0.353019 0.353019	
Superset-U, tote Alpha 125 GBW-15L ClayCare, tote XLW-10A GW-4LDF	Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes	Activator Biocide Breaker Clay Control Crosslinker Gelling Agent Non-	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde Enzyme solution Choline Chloride Water Ethylene Glycol Sodium Hydroxide Sodium Tetraborate Guar Gum Distillate Petroleum Distillate Mixture of Surfactants	64-17-5 112-15-2 111-30-8 Trade Se 67-48-1 7732-18- 107-21-1 1310-73- 1330-43- 9000-30- 64742-55 64742-47 Trade Se	cret 5 2 4 0 5-8 7-8		45% 55% 30% 100% 75% 30% 30% 10% 60% 60% 60%	0.036179 0.044219 0.04659 0.047279 0.040659 0.016269 0.038149 0.012719 0.0383019 0.353019 0.353019	
Superset-U, tote Alpha 125 GBW-15L ClayCare, tote XLW-10A GW-4LDF NE-35, 330 gl tote	Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes	Activator Biocide Breaker Clay Control Crosslinker Gelling Agent Non- emulsifier	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde Enzyme solution Choline Chloride Water Ethylene Glycol Sodium Hydroxide Sodium Tetraborate Guar Gum Paraffinic Petroleum Distillate Petroleum Distillate Mixture of Surfactants Propylene Glycol	64-17-5 112-15-2 111-30-8 Trade Se 67-48-1 7732-18- 107-21-1 1310-73- 1330-43- 9000-30- 64742-47 Trade Se 57-55-6	5 2 4 0 5-8 7-8 cret		45% 55% 30% 100% 75% 30% 10% 30% 60% 60% 50% 30%	0.036179 0.044219 0.04659 0.04659 0.016269 0.038149 0.012719 0.0383149 0.353019 0.353019 0.044179 0.02659	
Superset-U, tote Alpha 125 GBW-15L ClayCare, tote XLW-10A GW-4LDF NE-35, 330 gl tote Sand, White,	Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes	Activator Biocide Breaker Clay Control Crosslinker Gelling Agent Non- emulsifier Proppant	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde Enzyme solution Choline Chloride Water Ethylene Glycol Sodium Hydroxide Sodium Tetraborate Guar Gum Distillate Petroleum Distillate Mixture of Surfactants	64-17-5 112-15-2 111-30-8 Trade Se 67-48-1 7732-18- 107-21-1 1310-73- 1330-43- 9000-30- 64742-55 64742-47 Trade Se	5 2 4 0 5-8 7-8 cret		45% 55% 30% 100% 75% 30% 30% 10% 60% 60% 60%	0.036179 0.044219 0.04659 0.047279 0.040659 0.016269 0.038149 0.012719 0.0383019 0.353019 0.353019 0.044179 0.02659	
Superset-U, tote Alpha 125 GBW-15L ClayCare, tote XLW-10A GW-4LDF NE-35, 330 gl tote Sand, White, 16/30	Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes	Activator Biocide Breaker Clay Control Crosslinker Gelling Agent Non- emulsifier Proppant	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde Enzyme solution Choline Chloride Water Ethylene Glycol Sodium Hydroxide Sodium Tetraborate Guar Gum Paraffinic Petroleum Distillate Petroleum Distillate Mixture of Surfactants Propylene Glycol Crystalline Silica (Quartz)	64-17-5 112-15-2 111-30-8 Trade Se 67-48-1 7732-18- 107-21-1 1310-73- 1330-43- 9000-30- 64742-47 Trade Se 57-55-6 14808-60	5 2 4 0 5-8 7-8 cret		45% 55% 30% 100% 75% 30% 30% 60% 60% 60% 50% 30% 100%	0.036179 0.044219 0.044219 0.047279 0.040659 0.016269 0.038149 0.0353019 0.353019 0.353019 0.040659 0.05659 0.056739	
Superset-U, tote Alpha 125 GBW-15L ClayCare, tote XLW-10A GW-4LDF NE-35, 330 gl tote Sand, White, 16/30	Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes	Activator Biocide Breaker Clay Control Crosslinker Gelling Agent Non- emulsifier Proppant	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde Enzyme solution Choline Chloride Water Ethylene Glycol Sodium Hydroxide Sodium Tetraborate Guar Gum Paraffinic Petroleum Distillate Petroleum Distillate Mixture of Surfactants Propylene Glycol Crystalline Silica (Quartz) Hexamethylenetetramine	64-17-5 112-15-2 111-30-8 Trade Se 67-48-1 7732-18- 107-21-1 1310-73- 1330-43- 9000-30- 64742-47 Trade Se 57-55-6 14808-60	5 2 4 4 0 5-8		45% 55% 30% 100% 75% 30% 30% 60% 60% 60% 50% 100%	0.036179 0.044219 0.044219 0.047279 0.040659 0.016269 0.038149 0.0353019 0.353019 0.353019 0.044179 0.02659 9.520739	
Superset-U, tote Alpha 125 GBW-15L ClayCare, tote XLW-10A GW-4LDF NE-35, 330 gl tote Sand, White, 16/30	Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes	Activator Biocide Breaker Clay Control Crosslinker Gelling Agent Non- emulsifier Proppant	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde Enzyme solution Choline Chloride Water Ethylene Glycol Sodium Hydroxide Sodium Tetraborate Guar Gum Paraffinic Petroleum Distillate Mixture of Surfactants Propylene Glycol Crystalline Silica (Quartz) Hexamethylenetetramine P/F Resin	64-17-5 112-15-2 111-30-8 Trade Se 67-48-1 7732-18- 107-21-1 1310-73- 1330-43- 9000-30- 64742-47 Trade Se 57-55-6 14808-60 1009-7-0 9003-35-	55 22 4 0 0 5-8 cret		45% 55% 30% 100% 75% 30% 30% 10% 60% 60% 50% 30% 100%	0.036179 0.044219 0.044219 0.047279 0.047279 0.040659 0.016269 0.038149 0.0353019 0.353019 0.044179 0.02659 9.520739 0.000339 0.165529	
Alpha 125 GBW-15L ClayCare, tote (LW-10A GW-4LDF NE-35, 330 gl ote Sand, White, 16/30	Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes	Activator Biocide Breaker Clay Control Crosslinker Gelling Agent Non- emulsifier Proppant	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde Enzyme solution Choline Chloride Water Ethylene Glycol Sodium Hydroxide Sodium Tetraborate Guar Gum Paraffinic Petroleum Distillate Petroleum Distillate Mixture of Surfactants Propylene Glycol Crystalline Silica (Quartz) Hexamethylenetetramine	64-17-5 112-15-2 111-30-8 Trade Se 67-48-1 7732-18- 107-21-1 1310-73- 1330-43- 9000-30- 64742-47 Trade Se 57-55-6 14808-60	55 22 4 0 0 5-8 cret		45% 55% 30% 100% 75% 30% 30% 60% 60% 60% 50% 100%	0.036179 0.044219 0.044219 0.047279 0.040659 0.016269 0.038149 0.0353019 0.353019 0.353019 0.044179 0.02659 9.520739	
Superset-U, tote Alpha 125 GBW-15L ClayCare, tote KLW-10A GW-4LDF NE-35, 330 gl tote Sand, White, 16/30 Super LC, 16/30	Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes	Activator Biocide Breaker Clay Control Crosslinker Gelling Agent Non- emulsifier Proppant	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde Enzyme solution Choline Chloride Water Ethylene Glycol Sodium Hydroxide Sodium Tetraborate Guar Guar Distillate Petroleum Distillate Mixture of Surfactants Propylene Glycol Crystalline Silica (Quartz) Hexamethylenetetramine P/F Resin Silicon Dioxide (Silica	64-17-5 112-15-2 111-30-8 Trade Se 67-48-1 7732-18- 107-21-1 1310-73- 1330-43- 9000-30- 64742-47 Trade Se 57-55-6 14808-60 1009-7-0 9003-35-	55 22 4 0 0 5-8 cret		45% 55% 30% 100% 75% 30% 30% 10% 60% 60% 50% 30% 100%	0.036179 0.044219 0.044219 0.047279 0.047279 0.040659 0.016269 0.038149 0.0353019 0.353019 0.353019 0.044179 0.02659 9.520739 0.000339 0.165529	
Superset-U, tote Alpha 125 GBW-15L ClayCare, tote KLW-10A GW-4LDF NE-35, 330 gl ote Sand, White, 16/30 Guper LC, 16/30	Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes	Activator Biocide Breaker Clay Control Crosslinker Gelling Agent Non- emulsifier Proppant Proppant Surfactant	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde Enzyme solution Choline Chloride Water Ethylene Glycol Sodium Hydroxide Sodium Tetraborate Guar Gum Paraffinic Petroleum Distillate Petroleum Distillate Mixture of Surfactants Propylene Glycol Crystalline Silica (Quartz) Hexamethylenetetramine P/F Resin Silicon Dioxide (Silica Sand)	64-17-5 112-15-2 111-30-8 Trade Se 67-48-1 7732-18- 107-21-1 1310-73- 1330-43- 9000-30- 64742-55 64742-47 Trade Se 57-55-6 14808-60	5 2 4 0 5-8 7-8 cret		45% 55% 30% 100% 75% 30% 30% 60% 60% 60% 50% 30% 100% 0.01% 97%	0.036179 0.044219 0.04659 0.047279 0.040659 0.016269 0.038149 0.0353019 0.0353019 0.044179 0.02659 9.520739 0.000333 0.165529 3.21116	
Superset-U, tote Alpha 125 GBW-15L ClayCare, tote KLW-10A GW-4LDF NE-35, 330 gl tote Sand, White, 16/30 Super LC, 16/30 nFlo 250G, 330 gl tote	Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes	Activator Biocide Breaker Clay Control Crosslinker Gelling Agent Non- emulsifier Proppant Proppant Surfactant	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde Enzyme solution Choline Chloride Water Ethylene Glycol Sodium Hydroxide Sodium Tetraborate Guar Gum Paraffinic Petroleum Distillate Mixture of Surfactants Propylene Glycol Crystalline Silica (Quartz) Hexamethylenetetramine P/F Resin Silicon Dioxide (Silica Sand) Methanol Mixture of Surfactants Water	64-17-5 112-15-2 111-30-8 Trade Se 67-48-1 7732-18- 107-21-1 1310-73- 1330-43- 9000-30- 64742-47 Trade Se 57-55-6 14808-60 1009-7-0 9003-35- 14808-60 67-56-1 Trade Se 7732-18-	5 2 4 4 0 0 5-8 7-8 cret		45% 55% 30% 100% 75% 30% 30% 60% 60% 60% 50% 100% 0.01% 5% 97% 30% 30%	0.03617 ⁴ 0.04421 ⁴ 0.04421 ⁴ 0.04727 ⁴ 0.04727 ⁴ 0.04065 ⁴ 0.01626 ⁴ 0.03814 ⁴ 0.35301 ⁴ 0.35301 ⁴ 0.04065 ⁹ 9.52073 ⁴ 0.00033 ⁴ 0.016552 ⁴ 3.2111 ⁴ 0.0265 ⁶ 0.04416 ⁶ 0.0465 ⁶	
Superset-U, tote Alpha 125 GBW-15L ClayCare, tote XLW-10A GW-4LDF NE-35, 330 gl tote Sand, White, 16/30 Super LC, 16/30 InFlo 250G, 330 gl tote Ingredients	Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes	Activator Biocide Breaker Clay Control Crosslinker Gelling Agent Non- emulsifier Proppant Proppant Surfactant	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde Enzyme solution Choline Chloride Water Ethylene Glycol Sodium Hydroxide Sodium Tetraborate Guar Gum Paraffinic Petroleum Distillate Mixture of Surfactants Propylene Glycol Crystalline Silica (Quartz) Hexamethylenetetramine P/F Resin Silicon Dioxide (Silica Sand) Methanol Mixture of Surfactants	64-17-5 112-15-2 111-30-8 Trade Se 67-48-1 7732-18- 107-21-1 1310-73- 1330-43- 9000-30- 64742-47 Trade Se 57-55-6 14808-60 1009-7-0 9003-35- 14808-60 67-56-1 Trade Se	5 2 4 4 0 0 5-8 7-8 cret		45% 55% 30% 100% 75% 30% 30% 60% 60% 60% 50% 0.01% 5% 97%	0.036179 0.044219 0.044219 0.04659 0.047279 0.040659 0.016269 0.038149 0.0353019 0.353019 0.04559 9.520739 0.000339 0.165529 3.21119 0.02659 0.044169 0.02659	
Superset-U, tote Alpha 125 GBW-15L ClayCare, tote XLW-10A GW-4LDF NE-35, 330 gl tote Sand, White, 16/30 Super LC, 16/30 InFlo 250G, 330 gl tote Ingredients shown above	Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes	Activator Biocide Breaker Clay Control Crosslinker Gelling Agent Non- emulsifier Proppant Proppant Surfactant	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde Enzyme solution Choline Chloride Water Ethylene Glycol Sodium Hydroxide Sodium Tetraborate Guar Gum Paraffinic Petroleum Distillate Mixture of Surfactants Propylene Glycol Crystalline Silica (Quartz) Hexamethylenetetramine P/F Resin Silicon Dioxide (Silica Sand) Methanol Mixture of Surfactants Water	64-17-5 112-15-2 111-30-8 Trade Se 67-48-1 7732-18- 107-21-1 1310-73- 1330-43- 9000-30- 64742-47 Trade Se 57-55-6 14808-60 1009-7-0 9003-35- 14808-60 67-56-1 Trade Se 7732-18- 67-56-1	5 2 4 0 0 5-8 cret 0-7 cret 5		45% 55% 30% 100% 75% 30% 30% 10% 60% 60% 50% 30% 100% 50% 30% 50% 30% 000%	0.036179 0.044219 0.044219 0.047279 0.047279 0.040659 0.016269 0.038149 0.012719 0.038149 0.353019 0.353019 0.353019 0.044179 0.02659 9.520739 0.000339 0.165529 3.21119 0.02659 0.044169 0.02659 5.41E-059	
Superset-U, tote Alpha 125 GBW-15L ClayCare, tote XLW-10A GW-4LDF NE-35, 330 gl tote Sand, White, 16/30 Super LC, 16/30 InFlo 250G, 330 gl tote Ingredients	Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes Baker Hughes	Activator Biocide Breaker Clay Control Crosslinker Gelling Agent Non- emulsifier Proppant Proppant Surfactant	Denatured Ethanol Di (Ethylene Glycol) Ethyl Ether Acetate Glutaraldehyde Enzyme solution Choline Chloride Water Ethylene Glycol Sodium Hydroxide Sodium Tetraborate Guar Gum Paraffinic Petroleum Distillate Mixture of Surfactants Propylene Glycol Crystalline Silica (Quartz) Hexamethylenetetramine P/F Resin Silicon Dioxide (Silica Sand) Methanol Mixture of Surfactants Water	64-17-5 112-15-2 111-30-8 Trade Se 67-48-1 7732-18- 107-21-1 1310-73- 1330-43- 9000-30- 64742-47 Trade Se 57-55-6 14808-60 1009-7-0 9003-35- 14808-60 67-56-1 Trade Se 7732-18-	5 2 4 0 0 5-8 cret 0-7 cret 5		45% 55% 30% 100% 75% 30% 30% 60% 60% 60% 50% 100% 0.01% 5% 97% 30% 30%	0.036179 0.044219 0.044219 0.04659 0.047279 0.040659 0.016269 0.038149 0.0353019 0.353019 0.04559 9.520739 0.000339 0.165529 3.21119 0.02659 0.044169 0.02659	

Date: 11/29/2012
E-mail Address: fatima.vasquez@apachecorp.com

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