	ompletion	State	of New Mexi	CO				Revised N	November 6, 2013										
						1. WELL API NO.													
	Energy, Minerals and Natural Resource						30-015-40752												
Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505						Well Name: DODD FEDERAL UNIT #632 3. Well Number: 632													
												June	a 1 0, 11111 07 0	00		14121	6.7%		
										HYDRAULIC FF	RACTURING	G FLUID				4. Surface Hole Lo Unit:P Lot:P		170	Range:29E
DISCLOSURE						Unit:P Lot:P Section:15 Township:17S Range:29E Feet from:1156 N/S Line:S Feet from:980 E/W Line:E													
Original						5. Bottom Hole Lo	cation:												
□ Amendment						Unit:P Lot:P Section:15 Township:17S Range:29E													
						Feet from: 1156 N/S Line: S Feet from: 980 E/W Line: E													
						6. latitude:		longitude:											
							305437463515		.05725295476										
						7. County:													
						Eddy													
8. Operator Name and Address:				9	OGRID:	229137	10. Phone Numb	er: 43	32-685-4332										
COG OPERATING One Concho Cente 600 W. Illinois Ave Midland 79701																			
11. Last Fracture Date: 2/24/2015 Frac Performed by: Elite Well Servies					2. Production	uction Type:													
13. Pool Code(s):					4. Gross Fractured Interval:														
97917				200	4,019 ft to 4,330 ft														
15. True Vertical Depth (TVD):				16	16. Total Volume of Fluid Pumped:														
4,460 ft 17. Total Volume of Re-Use Water Pumped:						210,252 gals of Re-Use Water in Fluid Pumped:													
	- Pumped:			1 1	2 Paraget of	Ro-Use Water in Eli													
N/A	r Pumped:			1		Re-Use Water in Fluit Disclosed	uid Pumped:												
N/A		N AND CONCENTRA	TION:	1:			uid Pumped:	117010 1780	7179										
N/A 19. HYDRAULIC FLUID		N AND CONCENTRA	TION:	(CAS#) Chemical Service#	No	Maximum Ingred	lient												
N/A 19. HYDRAULIC FLUID Trade N ame	COMPOSITION Supplier	Purpose	Ingredients	(CAS #) Chemical Service #	No	t Disclosed Maximum Ingred	ient Additive (% by		in HF Fluid (% b										
N/A 19. HYDRAULIC FLUID Trade Name Water	COMPOSITION			(CAS #) Chemical	No	Maximum Ingred	lient	Concentration	in HF Fluid (% b 86.68453%										
N/A 19. HYDRAULIC FLUID Trade Name Water Sand (Proppant)	COMPOSITION Supplier	Purpose Carrier/Base Fluid	Ingredients Water	(CAS #) Chemical Service #	No	Maximum Ingred	ient Additive (% by	Concentration	86.684539 10.943319										
N/A 19. HYDRAULIC FLUID Trade Name Water Sand (Proppant) RCS (Proppant)	COMPOSITION Supplier Customer US Silica	Purpose Carrier/Base Fluid Proppant	Water Silica Substrate	(CAS #) Chemical Service # 7732-18-5 14808-60-7	No	Maximum Ingred	ient Additive (% by 100% 100%	Concentration	86.684539 10.943319 1.323089										
N/A 19. HYDRAULIC FLUID Trade Name Water Sand (Proppant) RCS (Proppant) Hydrochloric Acid (7 1/2%)	COMPOSITION Supplier Customer US Silica Momentive	Purpose Carrier/Base Fluid Proppant Proppant	Water Silica Substrate Silica Substrate	(CAS #) Chemical Service # 7732-18-5 14808-60-7 14808-60-7	No	Maximum Ingred	ient Additive (% by 100% 100%	Concentration	86.684539 10.943319 1.323089 0.077189										
N/A 19. HYDRAULIC FLUID Trade Name Water Sand (Proppant) RCS (Proppant) Hydrochloric Acid (7 1/2%) 4-N-1 Plus	COMPOSITION Supplier Customer US Silica Momentive CNR Chemplex	Purpose Carrier/Base Fluid Proppant Proppant Acidizing Iron Control,Corr Inhib,Surfactant	Water Silica Substrate Silica Substrate Hydrochloric Acid Acetic Acid Methanol	(CAS #) Chemical Service # 7732-18-5 14808-60-7 14808-60-7 7647-01-0 64-19-7 67-56-1	No	Maximum Ingred	ient Additive (% by 100% 100% 100% 100% 18% 80% 10%	Concentration	86.684539 10.943319 1.323089 0.077189 0.002699 0.000349										
N/A 19. HYDRAULIC FLUID Trade Name Water Sand (Proppant) RCS (Proppant) Hydrochloric Acid (7 1/2%) 4-N-1 Plus Plexset 730	COMPOSITION Supplier Customer US Silica Momentive CNR	Purpose Carrier/Base Fluid Proppant Proppant Acidizing Iron Control,Corr	Water Silica Substrate Silica Substrate Hydrochloric Acid Acetic Acid	(CAS #) Chemical Service # 7732-18-5 14808-60-7 14808-60-7 7647-01-0 64-19-7 67-56-1 84133-50-6	No	Maximum Ingred	100% 100% 100% 100% 18% 80%	Concentration	86.684539 10.943319 1.323089 0.077189 0.002699 0.000349 0.011499										
N/A 19. HYDRAULIC FLUID Trade Name Water Sand (Proppant) RCS (Proppant) Hydrochloric Acid (7 1/2%) 4-N-1 Plus Plexset 730	COMPOSITION Supplier Customer US Silica Momentive CNR Chemplex	Purpose Carrier/Base Fluid Proppant Proppant Acidizing Iron Control,Corr Inhib,Surfactant	Ingredients Water Silica Substrate Silica Substrate Hydrochloric Acid Acetic Acid Methanol Secondary Alcohol Ethoxylate Methyl Alcohol	(CAS #) Chemical Service # 7732-18-5 14808-60-7 14808-60-7 7647-01-0 64-19-7 67-56-1 84133-50-6	No	Maximum Ingred	ient Additive (% by 100% 100% 100% 18% 80% 10% 50%	Concentration	in HF Fluid (% E 86.684539 10.943319 1.323089 0.077189 0.002699 0.000349 0.011499										
N/A 19. HYDRAULIC FLUID Trade Name Water Sand (Proppant) RCS (Proppant) Hydrochloric Acid (7 1/2%) 4-N-1 Plus Plexset 730 Plexsurf 580 ME	COMPOSITION Supplier Customer US Silica Momentive CNR Chemplex Chemplex	Purpose Carrier/Base Fluid Proppant Proppant Acidizing Iron Control, Corr Inhib, Surfactant Activator Surfactant	Water Silica Substrate Silica Substrate Silica Substrate Hydrochloric Acid Acetic Acid Methanol Secondary Alcohol Ethoxylate Methyl Alcohol 2-Butoxyethanol	(CAS #) Chemical Service # 7732-18-5 14808-60-7 7647-01-0 64-19-7 67-56-1 84133-50-6 67-56-1 111-76-2	No	Maximum Ingred	100% 100% 100% 100% 18% 80% 10% 50%	Concentration	in HF Fluid (% b 86.684539 10.943319 1.323089 0.077189 0.002699 0.000349 0.011499										
N/A 19. HYDRAULIC FLUID Trade Name Water Sand (Proppant) RCS (Proppant) Hydrochloric Acid (7 1/2%) 4-N-1 Plus Plexset 730 Plexsurf 580 ME	COMPOSITION Supplier Customer US Silica Momentive CNR Chemplex Chemplex	Purpose Carrier/Base Fluid Proppant Proppant Acidizing Iron Control,Corr Inhib,Surfactant Activator	Water Silica Substrate Silica Substrate Silica Substrate Hydrochloric Acid Acetic Acid Methanol Secondary Alcohol Ethoxylate Methyl Alcohol 2-Butoxyethanol Guar Gum	(CAS #) Chemical Service # 7732-18-5 14808-60-7 14808-60-7 7647-01-0 64-19-7 67-56-1 84133-50-6 67-56-1 111-76-2 9000-30-0	No	Maximum Ingred	100% 100% 100% 100% 100% 18% 80% 10% 50%	Concentration	in HF Fluid (% b 86.684539 10.943319 1.323089 0.077189 0.000689 0.000349 0.011499 0.008059 0.040249										
N/A 19. HYDRAULIC FLUID Trade Name Water Sand (Proppant) RCS (Proppant) Hydrochloric Acid (7 1/2%) 4-N-1 Plus Plexset 730 Plexsurf 580 ME	COMPOSITION Supplier Customer US Silica Momentive CNR Chemplex Chemplex Chemplex	Purpose Carrier/Base Fluid Proppant Proppant Acidizing Iron Control, Corr Inhib, Surfactant Activator Surfactant	Water Silica Substrate Silica Substrate Silica Substrate Hydrochloric Acid Acetic Acid Methanol Secondary Alcohol Ethoxylate Methyl Alcohol 2-Butoxyethanol Guar Gum Mineral Oil	(CAS #) Chemical Service # 7732-18-5 14808-60-7 14808-60-7 7647-01-0 64-19-7 67-56-1 84133-50-6 67-56-1 111-76-2 9000-30-0 64742-47-8	No	Maximum Ingred	ient Additive (% by 100% 100% 100% 18% 80% 50% 10% 50% 50% 50% 55%	Concentration	in HF Fluid (% b 86.684539 10.943319 1.323089 0.077189 0.000349 0.0011499 0.008059 0.040249 0.173679 0.191049										
N/A 19. HYDRAULIC FLUID Trade Name Water Sand (Proppant) RCS (Proppant) Hydrochloric Acid (7 1/2%) 4-N-1 Plus Plexset 730 Plexsurf 580 ME	COMPOSITION Supplier Customer US Silica Momentive CNR Chemplex Chemplex Chemplex	Purpose Carrier/Base Fluid Proppant Proppant Acidizing Iron Control, Corr Inhib, Surfactant Activator Surfactant	Ingredients Water Silica Substrate Silica Substrate Hydrochloric Acid Acetic Acid Methanol Secondary Alcohol Ethoxylate Methyl Alcohol 2-Butoxyethanol Guar Gum Mineral Oil Bentonite Clay	(CAS #) Chemical Service # 7732-18-5 14808-60-7 14808-60-7 7647-01-0 64-19-7 67-56-1 84133-50-6 67-56-1 111-76-2 9000-30-0 64742-47-8 14808-60-7	No	Maximum Ingred	ient Additive (% by 100% 100% 100% 18% 80% 50% 10% 50% 50% 50% 55% 2%	Concentration	in HF Fluid (% b 86.684539 10.943319 1.323089 0.077189 0.000349 0.011499 0.008059 0.040249 0.173679 0.191049										
N/A 19. HYDRAULIC FLUID Trade Name Water Sand (Proppant) RCS (Proppant) Hydrochloric Acid (7 1/2%) 4-N-1 Plus Plexset 730 Plexsurf 580 ME Plexgel 907 LE	COMPOSITION Supplier Customer US Silica Momentive CNR Chemplex Chemplex Chemplex Chemplex	Purpose Carrier/Base Fluid Proppant Proppant Acidizing Iron Control, Corr Inhib, Surfactant Activator Surfactant Polymer	Water Silica Substrate Silica Substrate Silica Substrate Hydrochloric Acid Acetic Acid Methanol Secondary Alcohol Ethoxylate Methyl Alcohol 2-Butoxyethanol Guar Gum Mineral Oil Bentonite Clay Surfactant	(CAS #) Chemical Service # 7732-18-5 14808-60-7 14808-60-7 7647-01-0 64-19-7 67-56-1 84133-50-6 67-56-1 111-76-2 9000-30-0 64742-47-8 14808-60-7 68439-51-0	No	Maximum Ingred	ient Additive (% by 100% 100% 100% 18% 80% 10% 50% 50% 55% 2% 2%	Concentration	in HF Fluid (% b 86.684539 10.943319 1.323089 0.077189 0.002699 0.0011499 0.008059 0.040249 0.173679 0.191049 0.006959										
N/A 19. HYDRAULIC FLUID Trade Name Water Sand (Proppant) RCS (Proppant) Hydrochloric Acid (7 1/2%) 4-N-1 Plus Plexset 730 Plexsurf 580 ME Plexgel 907 LE	COMPOSITION Supplier Customer US Silica Momentive CNR Chemplex Chemplex Chemplex	Purpose Carrier/Base Fluid Proppant Proppant Acidizing Iron Control, Corr Inhib, Surfactant Activator Surfactant	Water Silica Substrate Silica Substrate Silica Substrate Silica Substrate Hydrochloric Acid Acetic Acid Methanol Secondary Alcohol Ethoxylate Methyl Alcohol 2-Butoxyethanol Guar Gum Mineral Oil Bentonite Clay Surfactant Ethylene Glycol	(CAS #) Chemical Service # 7732-18-5 14808-60-7 14808-60-7 7647-01-0 64-19-7 67-56-1 84133-50-6 67-56-1 111-76-2 9000-30-0 64742-47-8 14808-60-7 68439-51-0	No	Maximum Ingred	ient Additive (% by 100% 100% 100% 18% 80% 10% 50% 50% 50% 55% 2% 29%	Concentration	in HF Fluid (% b 86.684539 10.943319 1.323089 0.077189 0.002699 0.000349 0.011499 0.008059 0.040249 0.173679 0.191049 0.006959 0.006959										
N/A 19. HYDRAULIC FLUID Trade Name Water Sand (Proppant) RCS (Proppant) Hydrochloric Acid (7 1/2%) 4-N-1 Plus Plexset 730 Plexsurf 580 ME Plexgel 907 LE	COMPOSITION Supplier Customer US Silica Momentive CNR Chemplex Chemplex Chemplex Chemplex	Purpose Carrier/Base Fluid Proppant Proppant Acidizing Iron Control, Corr Inhib, Surfactant Activator Surfactant Polymer	Water Silica Substrate Silica Substrate Silica Substrate Silica Substrate Hydrochloric Acid Acetic Acid Methanol Secondary Alcohol Ethoxylate Methyl Alcohol 2-Butoxyethanol Guar Gum Mineral Oil Bentonite Clay Surfactant Ethylene Glycol Potssium Metaborate	(CAS #) Chemical Service # 7732-18-5 14808-60-7 14808-60-7 7647-01-0 64-19-7 67-56-1 84133-50-6 67-56-1 111-76-2 9000-30-0 64742-47-8 14808-60-7 68439-51-0 107-21-1 13709-94-9	No	Maximum Ingred	ient Additive (% by 100% 100% 100% 18% 80% 10% 50% 50% 50% 55% 2% 9.99% 30%	Concentration	in HF Fluid (% b 86.684539 10.943319 1.323089 0.0777189 0.002699 0.0011499 0.011499 0.040249 0.173679 0.191049 0.006959 0.006959 0.012839 0.038529										
N/A 18. HYDRAULIC FLUID Trade Name Water Sand (Proppant) RCS (Proppant) Hydrochloric Acid (7 1/2%) 4-N-1 Plus Plexset 730 Plexsurf 580 ME Plexgel 907 LE	COMPOSITION Supplier Customer US Silica Momentive CNR Chemplex Chemplex Chemplex Chemplex Chemplex Chemplex	Purpose Carrier/Base Fluid Proppant Proppant Acidizing Iron Control, Corr Inhib, Surfactant Activator Surfactant Polymer Crosslinker	Water Silica Substrate Silica Substrate Silica Substrate Hydrochloric Acid Acetic Acid Methanol Secondary Alcohol Ethoxylate Methyl Alcohol 2-Butoxyethanol Guar Gum Mineral Oil Bentonite Clay Surfactant Ethylene Glycol Potssium Metaborate Potassium Hydroxide	(CAS #) Chemical Service # 7732-18-5 14808-60-7 14808-60-7 7647-01-0 64-19-7 67-56-1 84133-50-6 67-56-1 111-76-2 9000-30-0 64742-47-8 14808-60-7 68439-51-0 107-21-1 13709-94-9 1310-58-3	No	Maximum Ingred	ient Additive (% by 100% 100% 100% 18% 80% 10% 50% 50% 50% 50% 55% 2% 2% 9.99% 30% 5%	Concentration	in HF Fluid (% b 86.684539 10.943319 1.323089 0.077189 0.000349 0.011499 0.040249 0.173679 0.191049 0.006959 0.006959 0.012839 0.038529 0.006429										
N/A 19. HYDRAULIC FLUID Trade Name Water Sand (Proppant) RCS (Proppant) Hydrochloric Acid (7 1/2%) 4-N-1 Plus Plexset 730 Plexsurf 580 ME Plexgel 907 LE	COMPOSITION Supplier Customer US Silica Momentive CNR Chemplex Chemplex Chemplex Chemplex	Purpose Carrier/Base Fluid Proppant Proppant Acidizing Iron Control, Corr Inhib, Surfactant Activator Surfactant Polymer	Water Silica Substrate Silica Substrate Silica Substrate Hydrochloric Acid Acetic Acid Methanol Secondary Alcohol Ethoxylate Methyl Alcohol 2-Butoxyethanol Guar Gum Mineral Oil Bentonite Clay Surfactant Ethylene Glycol Potssium Metaborate Potassium Hydroxide Mannanase Enzymes	(CAS #) Chemical Service # 7732-18-5 14808-60-7 14808-60-7 7647-01-0 64-19-7 67-56-1 84133-50-6 67-56-1 111-76-2 9000-30-0 64742-47-8 14808-60-7 68439-51-0 107-21-1 13709-94-9 1310-58-3 Proprietary	No	Maximum Ingred	ient Additive (% by 100% 100% 100% 18% 80% 50% 10% 50% 50% 50% 50% 2% 9.99% 30% 5% 2%	Concentration	in HF Fluid (% b 86.684539 10.943319 1.323089 0.077189 0.002699 0.000349 0.011499 0.040249 0.173679 0.191049 0.006959 0.006959 0.012839 0.038529 0.038529 0.006699										
N/A 19. HYDRAULIC FLUID Trade Name Water Sand (Proppant) RCS (Proppant) Hydrochloric Acid (7 1/2%) 4-N-1 Plus Plexset 730 Plexsurf 580 ME Plexgel 907 LE Plexbor 101 Plexgel Breaker 10L	COMPOSITION Supplier Customer US Silica Momentive CNR Chemplex Chemplex Chemplex Chemplex Chemplex Chemplex Chemplex	Purpose Carrier/Base Fluid Proppant Proppant Acidizing Iron Control, Corr Inhib, Surfactant Activator Surfactant Polymer Crosslinker Gel Breaker	Water Silica Substrate Silica Substrate Silica Substrate Silica Substrate Hydrochloric Acid Acetic Acid Methanol Secondary Alcohol Ethoxylate Methyl Alcohol 2-Butoxyethanol Guar Gum Mineral Oil Bentonite Clay Surfactant Ethylene Glycol Potssium Metaborate Potassium Hydroxide Mannanase Enzymes Sodium Chloride	(CAS #) Chemical Service # 7732-18-5 14808-60-7 14808-60-7 7647-01-0 64-19-7 67-56-1 84133-50-6 67-56-1 111-76-2 9000-30-0 64742-47-8 14808-60-7 68439-51-0 107-21-1 13709-94-9 1310-58-3 Proprietary 7647-14-5	No	Maximum Ingred	ient Additive (% by 100% 100% 100% 18% 80% 10% 50% 50% 55% 2% 2% 9.99% 30% 5% 2% 15%	Concentration	in HF Fluid (% b 86.684539 10.943319 1.323089 0.077189 0.002699 0.000349 0.011499 0.008059 0.040249 0.173679 0.191049 0.006959 0.006959 0.012839 0.03852 0.006429 0.00699										
N/A 19. HYDRAULIC FLUID Trade Name Water Sand (Proppant) RCS (Proppant) Hydrochloric Acid (7 1/2%) 4-N-1 Plus Plexset 730 Plexsurf 580 ME Plexgel 907 LE Plexbor 101 Plexgel Breaker 10L Sodium Persulfate	COMPOSITION Supplier Customer US Silica Momentive CNR Chemplex Chemplex Chemplex Chemplex Chemplex Chemplex	Purpose Carrier/Base Fluid Proppant Proppant Acidizing Iron Control, Corr Inhib, Surfactant Activator Surfactant Polymer Crosslinker	Water Silica Substrate Silica Substrate Silica Substrate Silica Substrate Hydrochloric Acid Acetic Acid Methanol Secondary Alcohol Ethoxylate Methyl Alcohol 2-Butoxyethanol Guar Gum Mineral Oil Bentonite Clay Surfactant Ethylene Glycol Potssium Metaborate Potassium Hydroxide Mannanase Enzymes Sodium Chloride Sodium Persulfate Tetrahydro-3,Dimethyl-	(CAS #) Chemical Service # 7732-18-5 14808-60-7 14808-60-7 7647-01-0 64-19-7 67-56-1 84133-50-6 67-56-1 111-76-2 9000-30-0 64742-47-8 14808-60-7 68439-51-0 107-21-1 13709-94-9 1310-58-3 Proprietary 7647-14-5 7775-27-1	No	Maximum Ingred	ient Additive (% by 100% 100% 100% 18% 80% 50% 10% 50% 50% 50% 50% 2% 9.99% 30% 5% 2%	Concentration	in HF Fluid (% b 86.684539 10.943319 1.323089 0.077189 0.002699 0.000349 0.011499 0.040249 0.173679 0.191049 0.006959 0.006959 0.006959 0.006859 0.006859										
N/A 19. HYDRAULIC FLUID Trade Name Water Sand (Proppant) RCS (Proppant) Hydrochloric Acid (7 1/2%) 4-N-1 Plus Plexset 730 Plexsurf 580 ME Plexgel 907 LE Plexbor 101 Plexgel Breaker 10L Sodium Persulfate AMA 398	COMPOSITION Supplier Customer US Silica Momentive CNR Chemplex	Purpose Carrier/Base Fluid Proppant Proppant Acidizing Iron Control, Corr Inhib, Surfactant Activator Surfactant Polymer Crosslinker Gel Breaker Biocide	Ingredients Water Silica Substrate Silica Substrate Silica Substrate Hydrochloric Acid Acetic Acid Methanol Secondary Alcohol Ethoxylate Methyl Alcohol 2-Butoxyethanol Guar Gum Mineral Oil Bentonite Clay Surfactant Ethylene Glycol Potssium Metaborate Potassium Hydroxide Mannanase Enzymes Sodium Chloride Sodium Persulfate Tetrahydro-3, Dimethyl- 2H	(CAS #) Chemical Service # 7732-18-5 14808-60-7 14808-60-7 7647-01-0 64-19-7 67-56-1 84133-50-6 67-56-1 111-76-2 9000-30-0 64742-47-8 14808-60-7 68439-51-0 107-21-1 13709-94-9 1310-58-3 Proprietary 7647-14-5 7775-27-1 533-74-4	No Abstract	Maximum Ingred	100% 100% 100% 100% 100% 18% 80% 10% 50% 50% 50% 59% 2% 9.99% 30% 5% 2% 9.89%	Concentration	in HF Fluid (% b 86.684539 10.943319 1.323089 0.077189 0.002699 0.000349 0.011499 0.040249 0.173679 0.191049 0.006959 0.006959 0.012839 0.038529 0.038529 0.006699										
N/A 19. HYDRAULIC FLUID Trade Name Water Sand (Proppant) RCS (Proppant) Hydrochloric Acid (7 1/2%) 4-N-1 Plus Plexset 730 Plexsurf 580 ME Plexgel 907 LE Plexgel Breaker 10L Sodium Persulfate AMA 398 20. I. as Operator, hereby certify ti	COMPOSITION Supplier Customer US Silica Momentive CNR Chemplex	Purpose Carrier/Base Fluid Proppant Proppant Acidizing Iron Control, Corr Inhib, Surfactant Activator Surfactant Polymer Crosslinker Gel Breaker Gel Breaker Biocide	Ingredients Water Silica Substrate Silica Substrate Silica Substrate Hydrochloric Acid Acetic Acid Methanol Secondary Alcohol Ethoxylate Methyl Alcohol 2-Butoxyethanol Guar Gum Mineral Oil Bentonite Clay Surfactant Ethylene Glycol Potssium Metaborate Potassium Hydroxide Mannanase Enzymes Sodium Chloride Sodium Persulfate Tetrahydro-3, Dimethyl- 2H us and complete to the best of	(CAS #) Chemical Service # 7732-18-5 14808-60-7 14808-60-7 7647-01-0 64-19-7 67-56-1 84133-50-6 67-56-1 111-76-2 9000-30-0 64742-47-8 14808-60-7 68439-51-0 107-21-1 13709-94-9 1310-58-3 Proprietary 7647-14-5 7775-27-1 533-74-4	No.	Maximum Ingred Concentration in mass)	ient Additive (% by 100% 100% 100% 18% 80% 50% 50% 50% 50% 50% 55% 2% 9.99% 30% 55% 2% 9.99% 9.99% 9.99% 9.99%	Concentration	in HF Fluid (% I 86.68453° 10.94331° 1.32308° 0.07718° 0.00269° 0.00034° 0.01149° 0.04024° 0.17367° 0.19104° 0.00695° 0.00695° 0.00685° 0.00685° 0.00685° 0.00685° 0.00685° 0.00685° 0.00685°										
N/A 19. HYDRAULIC FLUID Trade Name Water Sand (Proppant) RCS (Proppant) Hydrochloric Acid (7 1/2%) 4-N-1 Plus Plexset 730 Plexsurf 580 ME Plexgel 907 LE Plexbor 101 Plexgel Breaker 10L Sodium Persulfate AMA 398 20. 1, as Operator, hereby certify the Signature: Signature: Signed El	COMPOSITION Supplier Customer US Silica Momentive CNR Chemplex	Purpose Carrier/Base Fluid Proppant Proppant Acidizing Iron Control, Corr Inhib, Surfactant Activator Surfactant Polymer Crosslinker Gel Breaker Biocide	Ingredients Water Silica Substrate Silica Substrate Silica Substrate Hydrochloric Acid Acetic Acid Methanol Secondary Alcohol Ethoxylate Methyl Alcohol 2-Butoxyethanol Guar Gum Mineral Oil Bentonite Clay Surfactant Ethylene Glycol Potssium Metaborate Potassium Hydroxide Mannanase Enzymes Sodium Chloride Sodium Persulfate Tetrahydro-3, Dimethyl- 2H us and complete to the best of	(CAS #) Chemical Service # 7732-18-5 14808-60-7 14808-60-7 7647-01-0 64-19-7 67-56-1 84133-50-6 67-56-1 111-76-2 9000-30-0 64742-47-8 14808-60-7 68439-51-0 107-21-1 13709-94-9 1310-58-3 Proprietary 7647-14-5 7775-27-1 533-74-4	No.	Maximum Ingred	ient Additive (% by 100% 100% 100% 18% 80% 50% 50% 50% 50% 50% 55% 2% 9.99% 30% 55% 2% 9.99% 9.99% 9.99% 9.99%	Concentration	in HF Fluid (% I 86.68453° 10.94331° 1.32308° 0.07718° 0.00269° 0.00034° 0.01149° 0.04024° 0.17367° 0.19104° 0.00695° 0.00695° 0.00685° 0.00685° 0.00685° 0.00685° 0.00685° 0.00685° 0.00685°										
N/A 19. HYDRAULIC FLUID Trade Name Water Sand (Proppant) RCS (Proppant) Hydrochloric Acid (7 1/2%) 4-N-1 Plus Plexset 730 Plexsurf 580 ME Plexgel 907 LE Plexbor 101 Plexgel Breaker 10L Sodium Persulfate AMA 398 20. I. as Operator, hereby certify the Signature: Signed El Date: 3/26/2015	COMPOSITION Supplier Customer US Silica Momentive CNR Chemplex	Purpose Carrier/Base Fluid Proppant Proppant Proppant Acidizing Iron Control, Corr Inhib, Surfactant Activator Surfactant Polymer Crosslinker Gel Breaker Gel Breaker Biocide Denn on this disclosure form is tropped to the printed Name: Cha	Ingredients Water Silica Substrate Silica Substrate Silica Substrate Hydrochloric Acid Acetic Acid Methanol Secondary Alcohol Ethoxylate Methyl Alcohol 2-Butoxyethanol Guar Gum Mineral Oil Bentonite Clay Surfactant Ethylene Glycol Potssium Metaborate Potassium Hydroxide Mannanase Enzymes Sodium Chloride Sodium Persulfate Tetrahydro-3, Dimethyl- 2H us and complete to the best of	(CAS #) Chemical Service # 7732-18-5 14808-60-7 14808-60-7 7647-01-0 64-19-7 67-56-1 84133-50-6 67-56-1 111-76-2 9000-30-0 64742-47-8 14808-60-7 68439-51-0 107-21-1 13709-94-9 1310-58-3 Proprietary 7647-14-5 7775-27-1 533-74-4	No.	Maximum Ingred Concentration in mass)	ient Additive (% by 100% 100% 100% 18% 80% 50% 50% 50% 50% 50% 55% 2% 9.99% 30% 55% 2% 9.99% 9.99% 9.99% 9.99%	Concentration	in HF Fluid (% I 86.68453' 10.94331' 1.32308' 0.07718' 0.00269' 0.00034' 0.01149' 0.04024' 0.17367' 0.19104' 0.00695' 0.00695' 0.00695' 0.00845' 0.00695' 0.00695' 0.00695' 0.00695'										