13. Pool Code(s):     96473  15. True Vertical Depth (TVD):     9,828 ft  17. Total Volume of Re-Use Water Pumped:     N/A  19. HYDRAULIC FLUID COMPOS  Trade Name  Supplier  Water  OCCIDENT  PETROLEL  C&J Well Si  Sand  C&J Well Si  CS-3	Performed by: C&J ENERGY  SITION AND CONCE Purpose  AL JM ervices Sand - Bulk - Texas  ervices Biocides  ervices Friction Reducer	NTRATION: Ingredients  Water  Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Ethanol Glutaraldehyde Quaternary ammonium compounds, benzyl- C12-16- alkyldimethyl, chlorides Distillates (Petroleum), Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl	9. OGRID:  12. Production O 14. Gross Fract 10, 16. Total Volum 3.66 13. Percent of 1	ured Interval: 083 ft to 14,262 ft te of Fluid Pumped: 07,158 gals Re-Use Water in Fluid Pumped: t Disclosed  act Maximum Ingredient Concentration in Additive (% by Cor	p:24S Range:29E :N e:W ip:24S Range:29E e:S e:W
DISCLOSURE	RING FLUID  Performed by: C&J ENERG  SITION AND CONCE Purpose  AL Water JM ervices Sand - Bulk - Texas  ervices Biocides  ervices Friction Reducer  ervices Clay Control Additives ervices Acid Corrosion	Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Ethanol Glutaraldehyde Quaternary ammonium compounds, benzyl- C12-16- alkyldimethyl, chlorides Distiliates (Petroleum), Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl	9. OGRID:  12. Production O 14. Gross Fract 10, 16. Total Volum 3,6 18. Percent of I Not  (CAS #) Chemical Abstr. Service #  7732-18-5 1344-28-1 14808-60-7 1399-37-1 13463-67-7 1344-28-1 14808-60-7 1399-37-1 13463-67-7 64-17-5 111-30-8 68424-85-1	CEDAR CANYON 16 STAT  3. Well Number: 009H  4. Surface Hole Location: Unit:D Lot:D Section:16 Feet from:224 N/S Line Feet from:224 N/S Line Feet from:250 E/W Line Section:16 N/S Line Feet from:155 N/S Line Feet from:125 N/S Line Jeff Line Jef	p:24S Range:29E :N ::N ::N ::N ::N ::N ::N ::N ::N ::N
DISCLOSURE   ☑ Original  ☐ Amendment  Operator Name and Address: OXY USA INC PO Box 4294 Houston 77210  1. Last Fracture Date: 8/30/2015 Frac 3. Pool Code(s): 96473 5. True Vertical Depth (TVD): 9,828 ft 7. Total Volume of Re-Use Water Pumped: N/A 9. HYDRAULIC FLUID COMPOS rade Name  Supplier  Vater OCCIDENT PETROLEU X Specific 20/40 mesh C&J Well St Sand  C&J Well St CA-2 C&J Well St	Performed by: C&J ENERGY  SITION AND CONCE Purpose  AL Water JM ervices Sand - Bulk - Texas  ervices Biocides  ervices Friction Reducer  ervices Clay Control Additives ervices Acid Corrosion	NTRATION: Ingredients  Water  Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Titanium Oxide Ethanol Glutaraidehyde Quaternary ammonium compounds, benzyl- C12-16- alkyldimethyl, chlorides Distiliates (Petroleum), Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl	9. OGRID:  12. Production: O 14. Gross Fract 10, 16. Total Volum 3,6, 18. Percent of I Not  (CAS #) Chemical Abstr. Service # 7732-18-5  1344-28-1 14808-60-7 1309-37-1 13463-67-7 1344-28-1 14808-60-7 1309-37-1 13463-67-7 64-17-5 111-30-8 68424-85-1	4. Surface Hole Location: Unit:D Lot:D Section:16 Townshi Feet from:224 N/S Line Feet from:350 E/W Line 5. Bottom Hole Location: Unit:M Lot:M Section:16 Townshi Feet from:326 E/W Line 6. Istitude: longitude: 32.2242699 7. County: Eddy  16696 10. Phone Number:  Type: tured Interval: 083 ft to 14,262 ft te of Fluid Pumped: 07,158 gals Re-Use Water in Fluid Pumped: L'Disclosed  act Maximum Ingredient Concentration in Additive (% by mass) 100%  1.1% 99.9% 0.1% 1.1% 99.9% 0.1% 1.1% 99.9% 0.1% 1.1% 99.9% 0.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1	in i
DISCLOSURE	Performed by: C&J ENERG  SITION AND CONCE Purpose  AL JM ervices Sand - Bulk - Texas  ervices Biocides  ervices Friction Reducer  ervices Clay Control Additives ervices Acid Corrosion	NTRATION: Ingredients  Water  Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Challey Guaternary ammonium compounds, benzyl- C12-16- alkyldimethyl, chlorides Distillates (Petroleum), Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl	12. Production O  14. Gross Fract 10, 16. Total Volum 3,6 18. Percent of if Not  (CAS #) Chemical Abstr. Service #  7732-18-5  1344-28-1 14808-60-7 1309-37-1 13463-67-7 1344-28-1 14808-60-7 1309-37-1 13463-67-7 64-17-5 111-30-8 68424-85-1	Unit:D Lot:D Section:16 Townshi Feet from:224 E/W Line Feet from:350 E/W Line 5. Bottom Hole Location: Unit:M Lot:M Section:16 Townshi Feet from:336 E/W Line 6. Istitude: 32.2242699 7. County: Eddy  16696 10. Phone Number:  Type:  tured Interval: 083 ft to 14,262 ft 10 of Fluid Pumped: 07,158 gals 07,158 gals 07,158 gals 10 Disclosed  act Maximum Ingredient Concentration in Additive (% by mass)  100%  1.1% 99.9% 0.1% 0.1% 1.1% 99.9% 0.1% 1.1% 99.9% 0.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1	in i
Moriginal  Amendment  Amendment  Coperator Name and Address: OXY USA INC PO Box 4294 Houston 77210  1. Last Fracture Date: 8/30/2015 Frac 3. Pool Code(s): 9,828 ft 7. Total Volume of Re-Use Water Pumped: N/A  9. HYDRAULIC FLUID COMPO: rade Name Supplier  Vater OCCIDENT PETROLEL X Specific 20/40 mesh Ca.J Well Si Sand  Ca.J Well Si	SITION AND CONCE Purpose  AL Water JM ervices Sand - Bulk - Texas  ervices Biocides  ervices Friction Reducer  ervices Clay Control Additives  ervices Acid Corrosion	NTRATION: Ingredients  Water  Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Ethanol Glutaraldehyde Quaternary ammonium compounds, benzyl- C12-16- alkyldimethyl, chlorides Distillates (Petroleum), Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl	12. Production O  14. Gross Fract 10, 16. Total Volum 3,6 18. Percent of if Not  (CAS #) Chemical Abstr. Service #  7732-18-5  1344-28-1 14808-60-7 1309-37-1 13463-67-7 1344-28-1 14808-60-7 1309-37-1 13463-67-7 64-17-5 111-30-8 68424-85-1	Feet from:224	in i
□ Amendment  Operator Name and Address:     OXY USA INC     PO Box 4294     Houston 77210  1. Last Fracture Date: 8/30/2015 Frac 3. Pool Code(s):     96473 5. True Vertical Depth (TVD):     9,828 ft 7. Total Volume of Re-Use Water Pumped:     N/A 9. HYDRAULIC FLUID COMPOS rade Name Supplier  Vater OCCIDENT X Specific 20/40 mesh C&J Well Si Sand  X Specific 30/50 mesh C&J Well Si Sand  C&J Well Si CA-2 C&J Well Si	SITION AND CONCE Purpose  AL Water JM ervices Sand - Bulk - Texas  ervices Biocides  ervices Friction Reducer  ervices Clay Control Additives  ervices Acid Corrosion	NTRATION: Ingredients  Water  Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Ethanol Glutaraldehyde Quaternary ammonium compounds, benzyl- C12-16- alkyldimethyl, chlorides Distillates (Petroleum), Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl	12. Production O  14. Gross Fract 10, 16. Total Volum 3,6 18. Percent of if Not  (CAS #) Chemical Abstr. Service #  7732-18-5  1344-28-1 14808-60-7 1309-37-1 13463-67-7 1344-28-1 14808-60-7 1309-37-1 13463-67-7 64-17-5 111-30-8 68424-85-1	Unit:M Lot:M Section:16 Townshi Feet from:125 Enet from:125 E/W Lin 6. Istitude: Jongitude: Jongitu	ximum Ingredient -103.9969101  713-366-5069  713-366-5069  81.02506  0.00622 0.56503 0.00057 0.00057 0.18622 16.91186 0.01693
Operator Name and Address:	SITION AND CONCE Purpose  AL Water JM ervices Sand - Bulk - Texas  ervices Biocides  ervices Friction Reducer  ervices Clay Control Additives  ervices Acid Corrosion	NTRATION: Ingredients  Water  Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Ethanol Glutaraldehyde Quaternary ammonium compounds, benzyl- C12-16- alkyldimethyl, chlorides Distillates (Petroleum), Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl	12. Production O  14. Gross Fract 10, 16. Total Volum 3,6 18. Percent of if Not  (CAS #) Chemical Abstr. Service #  7732-18-5  1344-28-1 14808-60-7 1309-37-1 13463-67-7 1344-28-1 14808-60-7 1309-37-1 13463-67-7 64-17-5 111-30-8 68424-85-1	Feet from: 336	ximum Ingredient -103.9969101  713-366-5069  713-366-5069  81.02506  0.00622 0.56503 0.00057 0.00057 0.18622 16.91186 0.01693
OXY USA INC     PO Box 4294     Houston 77210  1. Last Fracture Date: 8/30/2015 Frac 3. Pool Code(s): 96473 5. True Vertical Depth (TVD): 9,828 ft 7. Total Volume of Re-Use Water Pumped: N/A 9. HYDRAULIC FLUID COMPOS rade Name Supplier  Vater OCCIDENT PETROLEL IX Specific 20/40 mesh C&J Well Stand  IX Specific 30/50 mesh C&J Well Stand	SITION AND CONCE Purpose  AL Water JM ervices Sand - Bulk - Texas  ervices Biocides  ervices Friction Reducer  ervices Clay Control Additives  ervices Acid Corrosion	NTRATION: Ingredients  Water  Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Ethanol Glutaraldehyde Quaternary ammonium compounds, benzyl- C12-16- alkyldimethyl, chlorides Distillates (Petroleum), Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl	12. Production O  14. Gross Fract 10, 16. Total Volum 3,6 18. Percent of if Not  (CAS #) Chemical Abstr. Service #  7732-18-5  1344-28-1 14808-60-7 1309-37-1 13463-67-7 1344-28-1 14808-60-7 1309-37-1 13463-67-7 64-17-5 111-30-8 68424-85-1	7. County: Eddy  16696	713-366-5069  ximum Ingredient ncentration in HF Fluid ( mass)  81.02506  0.00622  0.56503  0.00057  0.18622  16.91186  0.01693
OXY USA INC     PO Box 4294     Houston 77210  1. Last Fracture Date: 8/30/2015 Frac 3. Pool Code(s): 96473 5. True Vertical Depth (TVD): 9,828 ft 7. Total Volume of Re-Use Water Pumped: N/A 9. HYDRAULIC FLUID COMPOS rade Name Supplier  Vater OCCIDENT PETROLEL IX Specific 20/40 mesh C&J Well Stand  IX Specific 30/50 mesh C&J Well Stand	SITION AND CONCE Purpose  AL Water JM ervices Sand - Bulk - Texas  ervices Biocides  ervices Friction Reducer  ervices Clay Control Additives  ervices Acid Corrosion	NTRATION: Ingredients  Water  Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Ethanol Glutaraldehyde Quaternary ammonium compounds, benzyl- C12-16- alkyldimethyl, chlorides Distillates (Petroleum), Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl	12. Production O  14. Gross Fract 10, 16. Total Volum 3,6 18. Percent of if Not  (CAS #) Chemical Abstr. Service #  7732-18-5  1344-28-1 14808-60-7 1309-37-1 13463-67-7 1344-28-1 14808-60-7 1309-37-1 13463-67-7 64-17-5 111-30-8 68424-85-1	Type: tured Interval: 083 ft to 14,262 ft tee of Fluid Pumped: 07,158 gals Re-Use Water in Fluid Pumped: Disclosed  act Maximum Ingredient Concentration in Additive (% by mass)  100%  1.1% 99,9% 0.1% 1.196 99.9% 0.1% 42%	ximum Ingredient neentration in HF Fluid ( mass) 81.02506 0.00622 0.56503 0.00057 0.00057 0.18622 16.91186 0.01693
PO Box 4294	SITION AND CONCE Purpose  AL Water JM ervices Sand - Bulk - Texas  ervices Biocides  ervices Friction Reducer  ervices Clay Control Additives  ervices Acid Corrosion	NTRATION: Ingredients  Water  Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Ethanol Glutaraldehyde Quaternary ammonium compounds, benzyl- C12-16- alkyldimethyl, chlorides Distillates (Petroleum), Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl	O 14. Gross Fract 10, 10, 16. Total Volum 3,6 18. Percent of i Not 18. Percent of i Not 18. Percent of i Not 18. Percent of i	tured Interval: 083 ft to 14,262 ft te of Fluid Pumped: 07,158 gals Re-Use Water in Fluid Pumped: t Disclosed  act Maximum Ingredient Concentration in Additive (% by mass)  100%  1.1% 99.9% 0.1% 0.1% 1.196 99.9% 0.196 0.196 0.196 0.196 0.196 428	0.00622 0.06503 0.00622 0.56503 0.00057 0.00057 0.18622 16.91186 0.01693
1. Last Fracture Date: 8/30/2015 Frac 3. Pool Code(s): 96473 5. True Vertical Depth (TVD): 9,828 ft 7. Total Volume of Re-Use Water Pumped: N/A 9. HYDRAULIC FLUID COMPO: rade Name Supplier  Vater OCCIDENT PETROLEU  X Specific 20/40 mesh C&J Well Stand  X Specific 30/50 mesh C&J Well Stand  QUCAR 742 C&J Well Stand  CR-15 C&J Well Stand  CA-2 C	SITION AND CONCE Purpose  AL Water JM ervices Sand - Bulk - Texas  ervices Biocides  ervices Friction Reducer  ervices Clay Control Additives  ervices Acid Corrosion	NTRATION: Ingredients  Water  Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Ethanol Glutaraldehyde Quaternary ammonium compounds, benzyl- C12-16- alkyldimethyl, chlorides Distillates (Petroleum), Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl	O 14. Gross Fract 10, 10, 16. Total Volum 3,6 18. Percent of i Not 18. Percent of i Not 18. Percent of i Not 18. Percent of i	tured Interval: 083 ft to 14,262 ft te of Fluid Pumped: 07,158 gals Re-Use Water in Fluid Pumped: t Disclosed  act Maximum Ingredient Concentration in Additive (% by mass)  100%  1.1% 99.9% 0.1% 0.1% 1.196 99.9% 0.196 0.196 0.196 0.196 0.196 428	0.00622 0.00529 0.00057 0.00057 0.00057 0.18622 16,91186 0.01693
96473  5. True Vertical Depth (TVD): 9,828 ft 7. Total Volume of Re-Use Water Pumped: N/A  9. HYDRAULIC FLUID COMPOS Trade Name  Vater  OCCIDENT PETROLEL IX Specific 20/40 mesh Sand  IX Specific 30/50 mesh C&J Well Si  CR-15  CR-	Purpose  Purpose  Water  Water  M  Ervices Sand - Bulk -  Texas  Biocides  Purpose  Sand - Bulk -  Texas  Biocides  Friction Reducer  Clay Control  Additives  Ervices Acid Corrosion	Ingredients  Water  Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Titanium Oxide Titanium Oxide Ethanol Glutaraldehyde Quaternary ammonium compounds, benzyl- C12-16- alkyldimethyl, chlorides Distillates (Petroleum), Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl	10, 16. Total Volum 3,6 18. Percent of in Not  (CAS #) Chemical Abstr. Service #  7732-18-5  1344-28-1 14808-60-7 1309-37-1 13463-67-7 1344-28-1 14808-60-7 1309-37-1 13463-67-7 64-17-5 111-30-8 68424-85-1	083 ft to 14,262 ft  te of Fluid Pumped: 07,158 gals Re-Use Water in Fluid Pumped: t Disclosed  act Maximum Ingredient Concentration in Additive (% by mass)  100%  1.1% 99.9% 0.1% 0.1% 1.1% 99.9% 0.1% 1.1% 42%	0.00622 0.06503 0.00622 0.56503 0.00057 0.00057 0.18622 16.91186 0.01693
7. Total Volume of Re-Use Water Pumped: N/A  2. HYDRAULIC FLUID COMPO3 rade Name  Vater  Vate	Purpose  Purpose  Water  Water  M  Ervices Sand - Bulk -  Texas  Biocides  Purpose  Sand - Bulk -  Texas  Biocides  Friction Reducer  Clay Control  Additives  Ervices Acid Corrosion	Ingredients  Water  Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Titanium Oxide Titanium Oxide Ethanol Glutaraldehyde Quaternary ammonium compounds, benzyl- C12-16- alkyldimethyl, chlorides Distillates (Petroleum), Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl	18. Percent of i Not (CAS #) Chemical Abstractive # 7732-18-5 1344-28-1 14808-60-7 1309-37-1 13463-67-7 1344-28-1 14808-60-7 1309-37-1 13463-67-7 64-17-5 111-30-8 68424-85-1	Maximum Ingredient   Concentration in Additive (% by mass)	0.00622 0.00650 0.00650 0.00657 0.00057 0.00057 0.18622 16.91186 0.01693
### PACK   PACK	Purpose  Purpose  Water  Water  M  Ervices Sand - Bulk -  Texas  Biocides  Purpose  Sand - Bulk -  Texas  Biocides  Friction Reducer  Clay Control  Additives  Ervices Acid Corrosion	Ingredients  Water  Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Titanium Oxide Titanium Oxide Ethanol Glutaraldehyde Quaternary ammonium compounds, benzyl- C12-16- alkyldimethyl, chlorides Distillates (Petroleum), Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl	(CAS #) Chemical Abstr. Service # 7732-18-5 1344-28-1 14808-60-7 1309-37-1 13463-67-7 1344-28-1 14808-60-7 1309-37-1 13463-67-7 64-17-5 111-30-8 68424-85-1	act Concentration in Additive (% by mass)  100%  1.1%  99.9%  0.1%  0.1%  1.196  99.9%  0.196  0.196  1.196  42%	0.00622 0.06503 0.00622 0.56503 0.00057 0.00057 0.18622 16.91186 0.01693
Vater OCCIDENT PETROLEL X Specific 20/40 mesh C&J Well Si and C&J Well Si and C&J Well Si and C&J Well Si and C&J Well Si C&J	AL Water JM Sand - Bulk - Texas Services Sand - Bulk - Texas Services Biocides Friction Reducer Clay Control Additives Services Acid Corrosion	Water  Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Ethanol Glutaraldehyde Quaternary ammonium compounds, benzyl- C12-16- alkyldimethyl, chlorides Distillates (Petroleum), Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl	Service #  7732-18-5  1344-28-1  14808-60-7  1399-37-1  13463-67-7  1344-28-1  14808-60-7  1309-37-1  13463-67-7  64-17-5  111-30-8  68424-85-1	Concentration in Additive (% by mass)  100%  1.1% 99.9% 0.1% 1.196 99.9% 0.1% 0.1% 42%	0.00622 0.00650 0.00650 0.00657 0.00057 0.00057 0.18622 16.91186 0.01693
X Specific 20/40 mesh and C&J Well Si C&J	Mervices Sand - Bulk - Texas  ervices Sand - Bulk - Texas  ervices Biocides  ervices Friction Reducer  ervices Clay Control Additives  ervices Acid Corrosion	Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Crystalline Silica, quartz Iron Oxide Ethanol Glutaraldehyde Quaternary ammonium compounds, benzyl- C12-16- alkyldimethyl, chlorides Distillates (Petroleum), Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl	1344-28-1 14808-60-7 1309-37-1 13463-67-7 1344-28-1 14808-60-7 1309-37-1 13463-67-7 64-17-5 111-30-8 68424-85-1	1.1% 99.9% 0.1% 0.1% 1.1% 99.9% 0.1% 0.1% 42%	0.00622 0.56503 0.00057 0.00057 0.18622 16.91188 0.01693
And C&J Well Si C&	ervices Sand - Bulk - Texas  ervices Biocides  ervices Friction Reducer  ervices Clay Control Additives  ervices Acid Corrosion	Crystalline Silica, quartz Iron Oxide Titanium Oxide Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Titanium Oxide Ethanol Glutaraldehyde Quaternary ammonium compounds, benzyl- C12-16- alkyldimethyl, chlorides Distillates (Petroleum), Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl	14808-60-7 1309-37-1 13463-67-7 1344-28-1 14808-60-7 1309-37-1 13463-67-7 64-17-5 111-30-8 68424-85-1	99.9% 0.1% 0.1% 1.1% 99.9% 0.1% 0.1% 42%	0.56503 0.00057 0.00057 0.18622 16.91186 0.01693
QUCAR 742	revices Biocides  ervices Friction Reducer  ervices Clay Control Additives  ervices Acid Corrosion	Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide Ethanol Glutaraldehyde Quaternary ammonium compounds, benzyl- C12-16- alkyldimethyl, chlorides Distillates (Petroleum), Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl	1344-28-1 14808-60-7 1309-37-1 13463-67-7 64-17-5 111-30-8 68424-85-1	1.1% 99.9% 0.1% 0.1% 1% 42%	0.18622 16.91186 0.01693
QUCAR 742	ervices Biocides  ervices Friction Reducer  ervices Clay Control Additives  ervices Acid Corrosion	Iron Oxide Titanium Oxide Ethanol Glutaraldehyde Quaternary ammonium compounds, benzyl- C12-16- alkyldimethyl, chlorides Distiliates (Petroleum), Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl	1309-37-1 13463-67-7 64-17-5 111-30-8 68424-85-1	0.1% 0.1% 1% 42%	0.01693
CA-2 C&J Well Si CA-2 C&J Well Si CA-2 C&J Well Si CA-3 C&J Well Si	ervices Friction Reducer ervices Clay Control Additives ervices Acid Corrosion	Ethanol Glutaraldehyde Quaternary ammonium compounds, benzyl- C12-16- alkyldimethyl, chlorides Distillates (Petroleum), Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl	64-17-5 111-30-8 68424-85-1	1% 42%	0.01693
CA-2 C&J Well Si  CA-2 C&J Well Si  CA-3 C&J Well Si	ervices Clay Control Additives ervices Acid Corrosion	Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides Distillates (Petroleum), Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl	68424-85-1		1E-05
CA-2 C&J Well Si	ervices Clay Control Additives ervices Acid Corrosion	alkyldimethyl, chlorides Distillates (Petroleum), Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl	64742-47-8		0.00039 7E-05
CA-2 C&J Well Si	ervices Clay Control Additives ervices Acid Corrosion	Hydrotreated Light Polyacrilamide Copolymer Surfactant Blend Choline Chloride ((2-Hydroxyethyl) trimethyl		60%	0.0186
CA-2 C&J Well Si	Additives ervices Acid Corrosion	Choline Chloride ((2-Hydroxyethyl) trimethyl	Proprietary	40%	0.0124
CA-2 C&J Well Si	ervices Acid Corrosion		Proprietary 67-48-1	6% 80%	0.00186 0.06931
CA-2 C&J Well Si		ammonium chloride) 1-DECANOL	112-30-1	5%	0.0001
(L-3 C&J Well S	1	1-OCTANOL 2-Butoxyethanol	111-87-5 111-76-2	2.5% 15%	5E-05 0.00029
(L-3 C&J Well S		Cinnamaldehyde Dimethylformamide	104-55-2 68-12-2	15% 20%	0.00029 0.00038
IL-3 C&J Well Si		Ethylene Glycol Isopropyl Alcohol	107-21-1 67-63-0	40% 2.5%	0.00077 5E-05
(L-3 C&J Well S		Nonyphenol (branched), ethoxylated Tar bases, quinoline derivs,	127087-87-0 72480-70-7	5% 15%	0.0001
(L-3 C&J Well S		benzyl chloride-quaternized Triethyl Phosphate	78-40-0	2.5%	5E-05
	ervices Iron Control Additives	Citric Acid	77-92-9	70%	0.00176
20.2	ervices Cross-linkers	Ethylene Glycol Potassium Hydroxide	107-21-1 1310-58-3	70% 5%	0.07306 0.00522
BR-2 C&J Well S	ervices Gel Breakers	Sodium Hydroxide Ammonium Persulfate Cured Resin	1310-73-2 7727-54-0 Proprietary	5% 76% 24%	0.00522 0.0759 0.02397
SR-7 C&J Well Si		Hemicellulase Bis(hexamethylene triaminepenta	9025-56-3	100% 100%	0.00313 0.00207
U-2 C&J Well Services		(methylenephosphonic acid)) Alcohols, C10-14, ethoxylated	66455-15-0	30%	0.02434
	Foamers	Amorphous Silica Glycerides, C14-18 Mono- And Di		10% 15%	0.00811 0.01217
		Hydroxyethylcellulose Polydimethyl siloxane Propylene Glycol	9004-62-0 63148-62-9 57-55-6	15% 15% 10%	0.01217 0.01217 0.00811
M-2 C&J Well S	ervices Surfactants & Foamers	2-Butoxyethanol Ethoxylated Alcohols Phosphate	111-76-2 68130-47-2	5% 2.5%	4E-05 2E-05
		Ether Isopropanol	67-63-0	40%	0.00028
		Methanol N-Cocoamidopropyl-N,N-dimethyl	67-56-1 - 68139-30-0	15% 15%	0.00011 0.00011
A-7 C&J Well Services	ervices Gelling Agents	N-2-hydroxypropylsulfobetainE Distillates (Petroleum), Hydrotreated Light	64742-47-8	60%	0.14455
HC-7.5 C&J Well Si	ervices Bulk Acid	Guar Gum Hydrochloric Acid	9000-30-0 7647-01-0	55% 7.5%	0.13251 0.06014
C&J Well Services	ervices Paraffin & Scale Additives	Alkanes, C10-24 branched and linear	848301-67-7	90%	0.00443
		Dodecane Hydrocarbons	112-40-3 Proprietary	40% 25%	0.00197 0.00123
		Tetradecane Tridecane Undecane	629-59-4 Proprietary 1120-21-4	30% 30% 30%	0.00148 0.00148 0.00148
0. I, as Operator, hereby certify that the inform Signature: Signed Electronically	A STATE OF THE STA	form is true and complete to the best of my kr			0.00140
Date: 9/25/2015		otewalt		Title: Sr. Regulatory Advisor	
E-mail Address: <u>david_stewart@oxy.(</u> OCD does not require the reporting of informs		scribed in 29 CFR 1910.1200. NMOCD does	not require the reporting or	disclosure of proprietary, trade secret or confi	dential burning
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