

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/26/2023
Job End Date:	9/18/2023
State:	Texas
County:	Loving
API Number:	42-301-36081-00-00
Operator Name:	COG Operating LLC
Well Name and Number:	UL 20 Paddle Tail D 553H
Latitude:	31.74006900
Longitude:	-103.35989200
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	10,312
Total Base Water Volume (gal):	26,450,668
Total Base Non Water Volume:	0



## Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
WATER	CONOCOPHILLIPS	CARRIER/BASE FLUID					
			WATER	7732-18-5	100.00000	87.05332	None
100 MESH REGIONAL	US SILICA	PROPPING AGENT					
			CRYSTALLINE SILICA	14808-60-7	99.90000	12.60930	None
			ALUMINUM OXIDE	1344-28-1	1.00000	0.12622	None
7.5% HCL	ONCOR	ACID					
			WATER	7732-18-5	92.50000	0.19922	None
			HYDROGEN CHLORIDE	7647-01-0	7.50000	0.01615	None
ACEFLOW-3300	ACE COMPLETIONS	FRICTION REDUCER					
			DISTILLATES, C8-C26, BRANCHED AND LINEAR	848301-67-7	70.00000	0.05880	None
			POLYACRYLAMIDE	9003-05-8	40.00000	0.03360	None
			STYRENE-ETHYLENE/PROPYLENE	68648-89-5	5.00000	0.00420	None
			FATTY ACID ESTER	Proprietary	5.00000	0.00420	None
CS-15	ACE COMPLETIONS	CLAY CONTROL					
			MAGNESIUM CHLORIDE	7791-18-6	100.00000	0.01915	None
			CHOLINE CHLORIDE	67-48-1	100.00000	0.01915	None

			WATER	7732-18-5	100.00000	0.01915	None
BIOC16779A	CHAMPIONX	BIOCIDE					
			ACETIC ACID	64-19-7	60.00000	0.00294	None
			PEROXYACETIC ACID	79-21-0	21.00000	0.00103	None
			HYDROGEN PEROXIDE	7722-84-1	4.00000	0.00020	None
AIM1015	CHAMPIONX	ACID INHIBITOR					
			ISOPROPANOL	67-63-0	60.00000	0.00035	None
			ETHOXYLATED FATTY ALCOHOL	Proprietary	30.00000	0.00018	None
			ETHOXYLATED ALCOHOL	Proprietary	10.00000	0.00006	None
			AROMATIC ALDEHYDE	Proprietary	10.00000	0.00006	None
			ALKOXYLATED FATTY AMINE	Proprietary	5.00000	0.00003	None
			METHANOL	67-56-1	1.00000	0.00001	None
AIC100L	CHAMPIONX	IRON CONTROL					
			CITRIC ACID	77-92-9	60.00000	0.00039	None
ASP301	CHAMPIONX	NON-EMULSIFIER					
			POLYALKYLENE GLYCOL	Proprietary	30.00000	0.00003	None
			OXYALKYLATED ALCOHOL	Proprietary	5.00000	0.00001	None
			POLYETHYLENE GLYCOL	25322-68-3	5.00000	0.00001	None
			ORGANIC SULFONIC ACID	Proprietary	1.00000	0.00000	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			WATER	7732-18-5	92.50000	0.19922	
			ALUMINUM OXIDE	1344-28-1	1.00000	0.12622	
			POLYACRYLAMIDE	9003-05-8	40.00000	0.03360	
			WATER	7732-18-5	100.00000	0.01915	
			MAGNESIUM CHLORIDE	7791-18-6	100.00000	0.01915	
			STYRENE-ETHYLENE/PROPYLENE	68648-89-5	5.00000	0.00420	
			FATTY ACID ESTER	Proprietary	5.00000	0.00420	
			PEROXYACETIC ACID	79-21-0	21.00000	0.00103	
			HYDROGEN PEROXIDE	7722-84-1	4.00000	0.00020	
			ETHOXYLATED FATTY ALCOHOL	Proprietary	30.00000	0.00018	
			ETHOXYLATED ALCOHOL	Proprietary	10.00000	0.00006	
			AROMATIC ALDEHYDE	Proprietary	10.00000	0.00006	
			ALKOXYLATED FATTY AMINE	Proprietary	5.00000	0.00003	
			METHANOL	67-56-1	1.00000	0.00001	
			OXYALKYLATED ALCOHOL	Proprietary	5.00000	0.00001	
			POLYETHYLENE GLYCOL	25322-68-3	5.00000	0.00001	
			ORGANIC SULFONIC ACID	Proprietary	1.00000	0.00000	

\* Total Water Volume sources may include fresh water, produced water, and/or recycled water

\*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

