

Petition to the Montana Board of Oil and Gas Conservation
EXHIBIT 3

Hydraulic Fracturing Fluid Product Component Information Disclosure

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MAY - 3 2012

MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS

Fracture Date	9/7/2011
State:	MT
County:	Richland
API Number:	25-083-22879
Operator Name:	Continental Resources
Well Name and Number:	Cochrane 1-11H
Longitude:	-104.5876295
Latitude:	47.926124
Long/Lat Projection:	NAD27
Production Type:	Oil
True Vertical Depth (TVD):	
Total Water Volume (gal)*:	1,057,690

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
WF125, YF125FLEX	Schlumberger	Base Fluid, Activator, Bactericide, Breaker, Crosslinker, Gelling Agent, Non-Emulsifying Agent, Resin Coated Proppant, Sand, Stabilizer	Water (Includes Mix Water Supplied by Client)	-	-	84.64374%	
			Crystalline silica	14808-60-7	93.83854%	14.41009%	
			Guar gum	9000-30-0	1.85905%	0.28548%	
			Hydrocarbon hydrocarbon	Proprietary	1.85905%	0.28548%	
			Phenolic resin	9003-35-4	1.44430%	0.22179%	
			Tetramethylammonium chloride	75-57-0	0.42994%	0.06602%	
			Aliphatic polyol	Proprietary	0.32812%	0.05039%	
			Methanol	67-56-1	0.32569%	0.05001%	
			Sodium hydroxide	1310-73-2	0.21059%	0.03234%	
			Potassium hydroxide	1310-58-3	0.16406%	0.02519%	
			Decyl-dimethyl amine oxide	2605-79-0	0.10748%	0.01651%	
			Oxyalkylated alkyl alcohol (1)	Proprietary	0.04653%	0.00714%	
			Oxyalkylated alcohol (2)	Proprietary	0.04653%	0.00714%	
			Sodium bromate	7789-38-0	0.03444%	0.00529%	
			Diammonium peroxidisulphate	7727-54-0	0.03100%	0.00476%	
			Quaternary ammonium compound	Proprietary	0.02326%	0.00357%	
			Oxyalkylated alcohol (1)	Proprietary	0.02326%	0.00357%	
			Heavy aromatic naphtha	64742-94-5	0.02326%	0.00357%	
			Amorphous silica	Proprietary	0.00767%	0.00118%	
			Tetrakis(hydroxymethyl)phosphonium sulfate	55566-30-8	0.00767%	0.00118%	

* 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%

Report ID: RPT-JPL-1289 (Generated on 12/10/2011 2:58 PM)

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date	7/21/2011
State:	Montana
County:	Richland
API Number:	25-083-22870
Operator Name:	XTO Energy
Well Name and Number:	Thiel 2 11X-12
Longitude:	-104.096336
Latitude:	47.686258
Long/Lat Projection:	NAD83
Production Type:	Oil
True Vertical Depth (TVD):	10,152
Total Water Volume (gal)*:	2,254,602

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			Water	7732-18-5	100.00%	87.43482%	
Sand	Schlumberger	Proppant	Crystalline Silica	14808-60-7	100.00%	11.38364%	
B306	Schlumberger	Gel					
			Hydrocarbon hydrocarbon	Proprietary	60.00%	0.27220%	Pending Disclosure by Supplier
			Guar gum	9000-30-0	60.00%	0.27220%	
J583	Schlumberger	Clay Stabilizer (w/Surfactant)					
			Tetramethylammonium chloride	75-57-0	40.00%	0.10158%	
			Decyl-dimethyl amine oxide	2605-79-0	10.00%	0.02540%	
			Proprietary Component	Proprietary	50.00%	0.12698%	Pending Disclosure by Supplier
XE183K	Schlumberger	Crosslinker					
			Potassium hydroxide	1310-58-3	15.00%	0.02730%	
			Proprietary Component	Proprietary	85.00%	0.15472%	Pending Disclosure by Supplier
Gypton T-475	Champion Technologies	Antiscale					
			Ethylene Glycol	67-56-1	30.00%	0.02948%	
			Methanol	67-56-1	10.00%	0.00983%	
			Amine phosphonate 5	Proprietary	5.00%	0.00491%	Pending Disclosure by Supplier
			Potassium Chloride	7447-40-7	5.00%	0.00491%	
			Amine phosphonate 5, Potassium Salt	Proprietary	30.00%	0.02948%	Pending Disclosure by Supplier
			Proprietary Component	Proprietary	20.00%	0.01965%	Pending Disclosure by Supplier
W054	Schlumberger	Non-Emulsifying Surfactant					
			Methanol	67-56-1	70.00%	0.05837%	
			Oxyalkylated alkyl alcohol (1)	Proprietary	10.00%	0.00834%	Pending Disclosure by Supplier
			Oxyalkylated alcohol (2)	Proprietary	10.00%	0.00834%	Pending Disclosure by Supplier
			Quaternary ammonium compound	Proprietary	5.00%	0.00417%	Pending Disclosure by Supplier

			Heavy aromatic naphtha	64742-94-5	5.00%	0.00417%	
			Oxyalkylated alcohol (1)	Proprietary	5.00%	0.00417%	Pending Disclosure by Supplier
J481	Schlumberger	Gel Breaker (High Temp)					
			Sodium bromate	7789-38-0	100.00%	0.04576%	
J353L	Schlumberger	Gel Stabilizer High Temperature					
			Sodium thiosulphate	7772-98-7	30.00%	0.00809%	
			Proprietary Component	Proprietary	70.00%	0.01888%	Pending Disclosure by Supplier
Bactron K-31W	Champion Technologies	Antibacterial					
			Ethylene Glycol	107-21-1	30.00%	0.00610%	
			Glutaraldehyde	111-30-8	30.00%	0.00610%	
			Ethanol	64-17-5	30.00%	0.00610%	
			Proprietary Component	Proprietary	10.00%	0.00203%	Pending Disclosure by Supplier
Bactron K-139W	Champion Technologies	Antibacterial					
			Isopropyl Alcohol	67-63-0	60.00%	0.00957%	
			Ethylene Glycol	107-21-1	30.00%	0.00479%	
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	10.00%	0.00160%	
			Glutaraldehyde	111-30-8	5.00%	0.00080%	
			Ethanol	64-17-5	5.00%	0.00080%	
J218	Schlumberger	Non-Encapsulated Gel Breaker (Instant)					
			Diammonium peroxidisulphate	7727-54-0	100.00%	0.00122%	

* 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%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.

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MONTANA BOARD OF OIL & GAS CONS. BILLINGS

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	8/24/2011
State:	Montana
County:	Richland
API Number:	25-083-22875
Operator Name:	XTO Energy
Well Name and Number:	Sherlock 13X-24
Longitude:	-104.2269
Latitude:	47.7373
Long/Lat Projection:	NAD83
Production Type:	Oil
True Vertical Depth (TVD):	10,421
Total Water Volume (gal)*:	2,537,598

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		Vehicle	Water	7732-18-5	100.00%	0.88640%	
Sand	Superior Well Svcs	Proppant	Crystalline Silica	14808-60-7	100.00%	0.10419%	
LSG-1	Superior Well Svcs	Gel	Iso-Alkanes/n-Alkanes	proprietary	60.00%	0.00244%	Pending Disclosure by Supplier
			Polysaccharide Blend	proprietary	60.00%	0.00244%	Pending Disclosure by Supplier
Clay Treat LT	Superior Well Svcs	Clay Control	Choline Chloride	67-48-1	70.00%	0.00074%	
			Water	7789-20-0	50.00%	0.00053%	
XLBHT-2	Superior Well Svcs	Delayed Cross-linker	Potassium Formate	590-29-4	50.00%	0.00088%	
			Formic Acid	64-18-6	2.00%	0.00004%	
			Proprietary Component	proprietary	0.00%	0.00000%	Pending Disclosure by Supplier
Gytron T-475	Champion Technologies	Scale Inhibitor	Ethylene Glycol	107-21-1	30.00%	0.00025%	
			Methanol	67-56-1	10.00%	0.00008%	
			Amine phosphonate 5	proprietary	5.00%	0.00004%	Pending Disclosure by Supplier
			Potassium Chloride	7447-40-7	5.00%	0.00004%	
			Amine phosphonate 5, Potassium Salt	proprietary	30.00%	0.00025%	Pending Disclosure by Supplier
Bactron K-31W	Champion Technologies	Antibacterial	Ethylene Glycol	107-21-1	30.00%	0.00012%	
			Glutaraldehyde	111-30-8	30.00%	0.00012%	
			Ethanol	64-17-5	30.00%	0.00012%	
			Proprietary Component	proprietary	0.00%	0.00000%	Pending Disclosure by Supplier
Super OW-3	Superior Well Svcs	Non-Emulsifying Surfactant	Isopropyl Alcohol	67-63-0	40.00%	0.00032%	
			Proprietary Component	proprietary	5.00%	0.00004%	Pending Disclosure by Supplier
					0.00%	0.00000%	
					0.00%	0.00000%	
					0.00%	0.00000%	
					0.00%	0.00000%	
PH-16L	Superior Well Svcs	Gel Stabilizer (Buffer)	Potassium Hydroxide	1310-58-3	70.00%	0.00032%	
			Proprietary Component	proprietary	0.00%	0.00000%	Pending Disclosure by Supplier
					0.00%	0.00000%	
					0.00%	0.00000%	
OB-2 HT	Superior Well Svcs	Encapsulated Gel Breaker (Delayed) High Temp.	Ammonium Persulfate	7727-54-0	100.00%	0.00003%	
			Crystalline Silica in the form of Quartz	14808-60-7	40.00%	0.00001%	
OB Breaker	Superior Well Svcs	Non-Encapsulated Gel Breaker (Instant)	Ammonium Persulfate	7727-54-0	100.00%	0.00003%	

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	10/3/2012
State:	MT
County:	Rosebud
API Number:	25-087-21738
Operator Name:	Fidelity
Well Name and Number:	71 Ranch 44-1H
Longitude:	-107.379455
Latitude:	46.642727
Long/Lat Projection:	NAD83
Production Type:	Oil
True Vertical Depth (TVD):	5,115
Total Water Volume (gal)*:	1,082,654

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
Sand (Proppant)	CWS	Propping Agent					
DAP-925	CWS	Acid Corrosion Inhibitor					
DWP-111	CWS	Gel Slurry					
DWP-123	CWS	Crosslinker					
DWP-204	CWS	pH Buffer					
DWP-621	CWS	Friction Reducer					
DWP-902	CWS	Breaker					
DWP-905	CWS	Breaker					
DWP-913	CWS	Clay Control					
DWP-944	CWS	Biocide					
DWP-955	CWS	Non-Emulsifier					
Hydrochloric Acid	CWS	Clean Perforations					
			2,2-Dibromo-3-Nitrilopropionamide	10222-01-2	40.00%	0.01180%	
			Ammonium Persulfate	7727-54-0	100.00%	0.08724%	
			Apatite	64476-38-6	0.10%	0.00285%	
			Biotite	1302-27-8	0.10%	0.00285%	
			Calcite	471-34-1	1.00%	0.02366%	
			Choline chloride	67-48-1	100.00%	0.06960%	
			Crystalline silica (Quartz)	14808-60-7	30.00%	12.98209%	
			Distillates (petroleum), hydrotreated middle	64742-46-7	60.00%	0.17820%	
			Fatty acids	Trade Secret	30.00%	0.00001%	
			Formaldehyde	50-00-0	0.10%	0.00000%	
			Formic Acid	64-18-6	13.00%	0.00149%	
			Goethite	1310-14-1	0.10%	0.00510%	
			Guar gum	9000-30-0	60.00%	0.17820%	
			Hydrochloric acid	7647-01-0	37.00%	0.03165%	
			Illite	12173-60-3	1.00%	0.00465%	
			Ilmenite	98072-94-7	0.10%	0.00172%	
			Methanol	67-56-1	60.00%	0.00002%	
			Modified thiourea polymer	68527-49-1	30.00%	0.00001%	
			Nonionic surfactant	Trade Secret	5.00%	0.00106%	

			Olefin	Trade Secret	5.00%	0.00000%
			Oxirane, 2-methyl-, polymer with oxirane, monodecyl ether	37251-67-5	1.50%	0.00446%
			Paraffinic hydrocarbon solvent	64742-47-8	30.00%	0.00637%
			Polyacrylamide polymer	Trade Secret	40.00%	0.00849%
			Polyethylene Glycol Mixture	25322-68-3	70.00%	0.01180%
			Polyoxyalkylenes	Trade Secret	30.00%	0.00001%
			Polyoxyalkylenes surfactant	Trade Secret	5.00%	0.00106%
			Potassium hydroxide	1310-58-3	30.00%	0.03760%
			Propargyl Alcohol	107-19-1	10.00%	0.00000%
			Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite	68953-58-2	5.00%	0.01485%
			Sodium chloride	7647-14-5	1.00%	0.00000%
			Sodium tetraborate pentahydrate	12179-04-3	Trade Secret	Trade Secret
			Styrene acrylic copolymer	25085-34-1	40.00%	0.03490%
Water	Customer & CWS	Base Fluid & Mix Water	Water	7732-18-5	100.00%	86.38062%
CO2	Customer	Base Fluid Gas	Carbon Dioxide	124-38-9	Not Listed	Not Listed

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	2/8/2011
State:	Montana
County:	Richland
API Number:	25-083-22850
Operator Name:	XTO Energy
Well Name and Number:	Thiel 11X-12
Longitude:	-104.096764
Latitude:	47.685967
Long/Lat Projection:	NAD83
Production Type:	Oil
True Vertical Depth (TVD):	10,147
Total Water Volume (gal)*:	1,557,161

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		Vehicle	Water	7732-18-5	100.00%	87.99928%	
Sand	Superior Well Svcs	Proppant	Crystalline Silica	14808-60-7	100.00%	10.93520%	
LSG-1	Superior Well Svcs	Gel					
			Iso-Alkanes/n-Alkanes	proprietary	60.00%	0.27551%	Pending Disclosure by Supplier
			Polysaccharide Blend	proprietary	60.00%	0.27551%	Pending Disclosure by Supplier
XLBHT-2	Superior Well Svcs	Delayed Cross-linker					
			Potassium Formate	590-29-4	50.00%	0.11949%	
			Formic Acid	64-18-6	2.00%	0.00478%	
			Proprietary Component	proprietary	48.00%	0.11471%	Pending Disclosure by Supplier
Clay Treat LT	Superior Well Svcs	Clay Control					
			Choline Chloride	67-48-1	70.00%	0.06693%	
			Water	7789-20-0	50.00%	0.04780%	
Gypton T-106	Champion Technologies	Scale Inhibitor					
			Methanol	67-56-1	30.00%	0.02692%	
			Hydrochloric acid	7647-01-0	5.00%	0.00449%	
			Proprietary Component	proprietary	65.00%	0.05832%	Pending Disclosure by Supplier
Super OW-3	Superior Well Svcs	Non-Emulsifying Surfactant					
			Isopropyl Alcohol	67-63-0	40.00%	0.03293%	
			Proprietary Component	proprietary	5.00%	0.00412%	Pending Disclosure by Supplier
			Proprietary Component	proprietary	55.00%	0.04527%	Pending Disclosure by Supplier
PH-16L	Superior Well Svcs	Gel Stabilizer (Buffer)					
			Potassium Hydroxide	1310-58-3	70.00%	0.04371%	
			Proprietary Component	proprietary	30.00%	0.01873%	Pending Disclosure by Supplier
Bactron K-31W	Champion Technologies	Antibacterial					
			Ethylene Glycol	107-21-1	30.00%	0.00939%	
			Glutaraldehyde	111-30-8	30.00%	0.00939%	
			Ethanol	64-17-5	30.00%	0.00939%	
			Proprietary Component	proprietary	10.00%	0.00313%	Pending Disclosure by Supplier
OB-2 HT	Superior Well Svcs	Encapsulated Gel Breaker (Delayed) High Temp.					
			Ammonium Persulfate	7727-54-0	100.00%	0.00299%	
			Crystalline Silica in the form of Quartz	14808-60-7	40.00%	0.00120%	

OB Breaker	Superior Well Svcs	Non-Encapsulated Gel Breaker (Instant)					
			Ammonium Persulfate	7727-54-0	100.00%	0.00299%	
			Proprietary Component	proprietary	10.00%	0.00030%	Pending Disclosure by Supplier

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	5/9/2011
State:	Montana
County:	Richland
API Number:	25-083-22854
Operator Name:	XTO Energy
Well Name and Number:	Witt 13X-25
Longitude:	-104.226783
Latitude:	47.724986
Long/Lat Projection:	NAD83
Production Type:	Oil
True Vertical Depth (TVD):	10,318
Total Water Volume (gal)*:	914,088

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		Vehicle	Water	7732-18-5	100.00%	86.10299%	
Sand	Superior Well Svcs	Proppant	Crystalline Silica	14808-60-7	100.00%	12.70124%	
LSG-1	Superior Well Svcs	Gel					
			Iso-Alkanes/n-Alkanes	proprietary	60.00%	0.27181%	Pending Disclosure by Supplier
			Polysaccharide Blend	proprietary	60.00%	0.27181%	Pending Disclosure by Supplier
XLBHT-2	Superior Well Svcs	Delayed Cross-linker					
			Potassium Formate	590-29-4	50.00%	0.13402%	
			Formic Acid	64-18-6	2.00%	0.00536%	
			Proprietary Component	proprietary	48.00%	0.12866%	Pending Disclosure by Supplier
Gypton T-475	Champion Technologies	Scale Inhibitor					
			Ethylene Glycol	107-21-1	30.00%	0.03861%	
			Methanol	67-56-1	10.00%	0.01287%	
			Amine phosphonate 5	proprietary	5.00%	0.00643%	Pending Disclosure by Supplier
			Potassium Chloride	7447-40-7	5.00%	0.00643%	
			Amine phosphonate 5, Potassium Salt	proprietary	30.00%	0.03861%	Pending Disclosure by Supplier
			Proprietary Component	proprietary	20.00%	0.02574%	Pending Disclosure by Supplier
Clay Treat LT	Superior Well Svcs	Clay Control					
			Choline Chloride	67-48-1	70.00%	0.06898%	
			Water	7789-20-0	50.00%	0.04927%	
Bactron K-31W	Champion Technologies	Antibacterial					
			Ethylene Glycol	107-21-1	30.00%	0.03004%	
			Glutaraldehyde	111-30-8	30.00%	0.03004%	
			Ethanol	64-17-5	30.00%	0.03004%	
			Proprietary Component	proprietary	10.00%	0.01001%	Pending Disclosure by Supplier
Super OW-3	Superior Well Svcs	Non-Emulsifying Surfactant					
			Isopropyl Alcohol	67-63-0	40.00%	0.03105%	
			Proprietary Component	proprietary	5.00%	0.00388%	Pending Disclosure by Supplier
			Proprietary Component	proprietary	55.00%	0.04270%	Pending Disclosure by Supplier
PH-16L	Superior Well Svcs	Gel Stabilizer (Buffer)					
			Potassium Hydroxide	1310-58-3	70.00%	0.04450%	
			Proprietary Component	proprietary	30.00%	0.01907%	Pending Disclosure by Supplier
OB-2 HT	Superior Well Svcs	Encapsulated Gel Breaker (Delayed) High Temp.					
			Ammonium Persulfate	7727-54-0	100.00%	0.00307%	
			Crystalline Silica in the form of	14808-60-7	40.00%	0.00123%	

OB Breaker	Superior Well Svcs	Non-Encapsulated Gel Breaker (Instant)	Quartz				
			Ammonium Persulfate	7727-54-0	100.00%	0.00307%	
			Proprietary Component	proprietary	10.00%	0.00031%	Pending Disclosure by Supplier

* 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%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	02/09/2012
State:	Montana
County:	Sheridan
API Number:	25-091-21891
Operator Name:	Marathon Oil Company
Well Name and Number:	Wegner 34-11H
Longitude:	-104.1362
Latitude:	48.44861
Long/Lat Projection:	NAD83
Production Type:	Oil
True Vertical Depth (TVD):	9,647
Total Water Volume (gal)*:	1,725,667

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	Operator	Carrier	Water	7732-18-5	100.00%	83.04193%	0
Frac-Cide 1000	Baker Hughes	Biocide	2,2-Dibromo-3-Nitrilopropionamide	10222-01-2	100.00%	0.00078%	0
Alpha 452	Baker Hughes	Biocide	Tetrakis(hydroxymethyl) Phosphonium Sulfate	55566-30-8	60.00%	0.01502%	0
GBW-5	Baker Hughes	Breaker	Ammonium Persulfate	7727-54-0	100.00%	0.00006%	SmartCare Product
Enzyme G-I	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	9025-56-3	3.00%	0.00068%	0
0	0	0	Water	7732-18-5	97.00%	0.02199%	0
GBW-23L	Baker Hughes	Breaker	White Mineral Oil	8042-47-5	100.00%	0.04842%	0
BF-9L, 55 gal drum	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60.00%	0.03493%	SmartCare Product
0	0	0	Potassium Hydroxide	1310-58-3	30.00%	0.01747%	0
XLW-30AG, tote	Baker Hughes	Crosslinker	Hydrotreated Light Distillate	64742-47-8	70.00%	0.02929%	SmartCare Product
XLW-32	Baker Hughes	Crosslinker	Boric Acid (H3BO3)	10043-35-3	30.00%	0.00191%	0
0	0	0	Methanol	67-56-1	60.00%	0.00382%	0
0	0	0	Methyl Borate	121-43-7	30.00%	0.00191%	0
GW-3LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	40.00%	0.21285%	SmartCare Product
0	0	0	Petroleum Distillate Blend	Trade Secret	70.00%	0.37249%	0

NE-900, tote	Baker Hughes	Non-emulsifier	Methanol	67-56-1	30.00%	0.01234%	SmartCare Product
0	0	0	Oxyalkylated Alkylphenol	9016-45-9	10.00%	0.00411%	0
Sand, White, 30/50	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100.00%	12.71993%	0
Sand, White, 40/70	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100.00%	3.38556%	0
ScaleSorb 3, (50# bag)	Baker Hughes	Scale Inhibitor	Amino Alkyl Phosphonic Acid	Trade Secret	30.00%	0.00485%	SmartCare Product
0	0	0	Crystalline Silica: Quartz (SiO2)	14808-60-7	1.00%	0.00016%	0
0	0	0	Diatomaceous Earth, Calcined	91053-39-3	100.00%	0.01616%	0
0	0	0	Phosphonic Acid	13598-36-2	1.00%	0.00016%	0
InFlo 250W	Baker Hughes	Surfactant	2-Butoxyethanol	111-76-2	5.00%	0.00231%	0
0	0	0	Methanol	67-56-1	30.00%	0.01387%	0
0	0	0	Surfactants	Trade Secret	80.00%	0.03700%	0
Additional Ingredients							
			2-Bromo-3-Nitrilopropionamide	1113-55-9			
			Alkyl Benzenesulfonic Acid	68584-22-5			
			Boric Anhydride	1303-86-2			
			Copolymer	Trade Secret			
			Crystalline Silica	14808-60-7			
			Dibromoacetonitrile	3252-43-5			
			Ethylene Glycol Monobutyl Ether	111-76-2			
			Formaldehyde	50-00-0			
			Magnesium Hydroxide	1309-42-8			
			Magnesium Oxide	1309-48-4			
			Magnesium Peroxide	14452-57-4			
			Methanol	67-56-1			
			Modified Amide	68442-77-3			
			Petroleum Distillates	64742-47-8			
			Poly (oxy-1,2-ethanediyl)	24938-91-8			
			Propylene Carbonate	108-32-7			
			Quaternary Ammonium Compounds bis[Hydrogenated Tallow Alkyl] Dimethyl Salts With Bentonite	68953-58-2			
			Sodium Aryl Sulfonate	119345-04-9			
			Sodium Chloride	7647-14-5			
			Sodium Sulfate	7757-82-6			
			Sodium Tetraborate	1330-43-4			
			Water	7732-18-5			

* 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%

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	1/29/2016
Job End Date:	1/29/2016
State:	Montana
County:	Wibaux
API Number:	25-109-21202-00-00
Operator Name:	Interstate Explorations LLC
Well Name and Number:	Nelson 2-1
Longitude:	-104.16253600
Latitude:	46.94453300
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	11,750
Total Base Water Volume (gal):	50,833
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
Silica Sand	Sanjel	Proppant	Crystalline Silica, SiO2	14808-60-7	99.90000	6.82219	
Liquid Nitrogen	Sanjel	Stimulation	Nitrogen	7727-37-9	100.00000	2.33809	
Buffer A	Sanjel	Low ph Buffer	Acedic Acid	64-19-7	60.00000	0.19484	
15% HCl	Sanjel	Acid	Hydrogen Chloride Anhydrous	7647-01-0	40.00000	0.18907	
WG-9ZL	Sanjel	Gellant	Petroleum Distillate blend	64742-47-8	60.00000	0.14960	
WG-9ZL	Sanjel	Gellant	Polysaccharide blend	NA	60.00000	0.14960	
FA-1	Sanjel	Foamer	Ammonium C8-10 Alcohol	68891-29-2	60.00000	0.10638	
SCC-1L	Sanjel	Clay Control	No hazardous ingredients	NA	100.00000	0.09481	
FA-1	Sanjel	Foamer	Ethanol	64-17-5	30.00000	0.05319	
NE-7	Sanjel	Non-emulsifier					

			Hexylene glycol	107-41-5	40.00000	0.01883
NE-7	Sanjel	Non-emulsifier				
			Benzenesulfonic acid, C10-16-alkyl derivatives.	68584-22-5	30.00000	0.01412
Bioclear 2000	Weatherford	Biocide				
			2,2-dibromo-3-nitrilopropionamide	10222-01-2	40.00000	0.00346
NE-7	Sanjel	Non-emulsifier				
			Diethylenetriamine	111-40-0	5.00000	0.00235
FA-1	Sanjel	Foamer				
			C8-C10 ethoxylated alcohol	68439-45-2	1.00000	0.00177
1% Breaker O	Sanjel	Break Fluid				
			Ammonium persulfate	7727-54-0	1.00000	0.00046
AI-8	Sanjel	Acid Inhibitor				
			Isopropanol	67-63-0	40.00000	0.00035
D-3	Sanjel	Demulsifier				
			Sodium 2-ethylhexyl sulphate	126-92-1	70.00000	0.00034
AI-8	Sanjel	Acid Inhibitor				
			Modified thiorea polymer	Proprietary	30.00000	0.00026
AI-8	Sanjel	Acid Inhibitor				
			Polyoxyalkylenes	Proprietary	30.00000	0.00026
AI-8	Sanjel	Acid Inhibitor				
			Fatty acids	Proprietary	30.00000	0.00026
AI-8	Sanjel	Acid Inhibitor				
			Propargyl alcohol	107-19-7	10.00000	0.00009
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.						
Base Fluid	Operator	Base Fluid				
			Water, other	7732-18-5	100.00000	89.41079

* 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)

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/24/2015
Job End Date:	6/29/2015
State:	Montana
County:	Valley
API Number:	25-105-21580-00-00
Operator Name:	Great Western Oil & Gas Company, LLC
Well Name and Number:	Treasure 26-3143-302HC-C
Longitude:	-106.08577200
Latitude:	48.41038600
Datum:	NAD27
Federal/Tribal Well:	YES
True Vertical Depth:	5,470
Total Base Water Volume (gal):	0
Total Base Non Water Volume:	4,000



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
HCl > 10%	Halliburton	Base Fluid					
			NA	NA			
FERCHEK A REDUCING AGENT, HAI-404M(TM), LOSURF-300D, SCA-130 INHIBITOR	Halliburton	Corrosion Inhibitor, Inhibitor, Iron Reducing Agent, Non-ionic Surfactant					
			NA	NA			
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.							
		Hazardous and Non-Hazardous Ingredients					
			NFIDB:HCl > 10%	NFIDB:HCl > 10%	100.00000	97.75077	
			Water	7732-18-5	100.00000	1.81395	
			Aldol	107-89-1	60.00000	1.07758	
			Ethanol	64-17-5	60.00000	0.09856	
			Crotonaldehyde	123-73-9	5.00000	0.08980	
			Acetaldehyde	75-07-0	5.00000	0.08980	
			Oxyalkylated phenolic resin	Confidential	30.00000	0.06571	
			Hydroxylamine hydrochloride	11/1/5470	60.00000	0.06553	
			Citric acid	77-92-9	60.00000	0.06553	
			Methanol	67-56-1	30.00000	0.05393	

		Naphthenic acid ethoxylate	68410-62-8	30.00000	0.05393	
		Isopropanol	67-63-0	30.00000	0.05393	
		Aldehyde	Confidential	30.00000	0.05393	Denise Tuck, Halliburton, 3000 N. Sam Houston Pkwy E., Houston, TX 77032, 281- 871-6226
		Heavy aromatic petroleum naphtha	64742-94-5	30.00000	0.04928	
		Fatty acids, tall oil	Confidential	10.00000	0.01798	
		Alcohols, C12-16, ethoxylated	68551-12-2	10.00000	0.01798	
		Polyethoxylated fatty amine salt	61791-26-2	10.00000	0.01798	
		Quaternary ammonium salt	Confidential	10.00000	0.01798	
		1-(Benzyl)quinolinium chloride	15619-48-4	10.00000	0.01798	
		Ethoxylated amine	Confidential	5.00000	0.00899	
		Naphthalene	91-20-3	5.00000	0.00821	
		Poly(oxy-1,2-ethanediyl), alpha- (4-nonylphenyl)-omega- hydroxy-, branched	127087-87-0	5.00000	0.00821	
		Silica, amorphous - fumed	7631-86-9	5.00000	0.00546	
		Ammonium phosphate	7722-76-1	1.00000	0.00180	
		Sodium iodide	7681-82-5	1.00000	0.00180	
		1,2,4 Trimethylbenzene	95-63-6	1.00000	0.00164	
		Inorganic salt	Confidential	1.00000	0.00109	

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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)

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	1/24/2015
Job End Date:	1/28/2015
State:	Montana
County:	Wibaux
API Number:	25-109-21204-00-00
Operator Name:	Slawson Exploration Company, Inc.
Well Name and Number:	Michels 1-3-10H
Longitude:	-104.09836060
Latitude:	46.91751670
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	9,908
Total Base Water Volume (gal):	1,480,856
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	Customer & CWS	Base Fluid & Mix Water					
			Water	7732-18-5	100.00000	92.04982	
Sand (Proppant), DAP-925, DWP-111, DWP-126, DWP-204, DWP-213, DWP-621, DWP-913, DWP-955, DWP-975, Hydrochloric Acid	CWS	Propping Agent, Acid Corrosion Inhibitor, Gel Slurry, Crosslinker, pH Buffer, pH Buffer, Friction Reducer, Clay Control, Non-Emulsifier, Breaker, Clean Perforations					
			Crystalline silica (Quartz)	14808-60-7	100.00000	7.00919	
			Hydrochloric acid	7647-01-0	37.00000	0.39006	
			Distillates (petroleum), hydrotreated middle	64742-46-7	60.00000	0.20502	
			Guar gum	9000-30-0	60.00000	0.20502	
			Choline chloride	67-48-1	100.00000	0.04382	
			Isobutyl alcohol	78-83-1	30.00000	0.02423	
			Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite	68953-58-2	5.00000	0.01709	
			Calcite	471-34-1	1.00000	0.01472	

			Polyacrylamide polymer	Proprietary	40.00000	0.00893	Proprietary CAS
			Paraffinic hydrocarbon solvent	64742-47-8	30.00000	0.00670	
			Oxirane, 2-methyl-, polymer with oxirane, monodecyl ether	37251-67-5	1.50000	0.00513	
			Formic Acid	64-18-6	13.00000	0.00365	
			Methanol	67-56-1	60.00000	0.00260	
			Ammonium Persulfate	7727-54-0	100.00000	0.00241	
			Goethite	1310-14-1	0.10000	0.00210	
			Polyoxyalkylenes	Proprietary	30.00000	0.00130	Proprietary CAS
			Modified thiourea polymer	68527-49-1	30.00000	0.00130	
			Fatty acids	Proprietary	30.00000	0.00130	Proprietary CAS
			Polyoxyalkylenes surfactant	Proprietary	5.00000	0.00112	Proprietary CAS
			Nonionic surfactant	Proprietary	5.00000	0.00112	Proprietary CAS
			Biotite	1302-27-8	0.10000	0.00070	
			Apatite	64476-38-6	0.10000	0.00070	
			Inorganic base	Proprietary	7.00000	0.00058	Proprietary CAS
			Vinylidene chloride-methyl acrylate copolymer	25038-72-6	30.00000	0.00052	
			Propargyl Alcohol	107-19-7	10.00000	0.00043	
			Olefin	Proprietary	5.00000	0.00022	Proprietary CAS
			Hydrated magnesium silicate	14807-96-6	1.00000	0.00009	
			Poly(tetrafluoroethylene)	9002-84-0	1.00000	0.00007	
			Sodium chloride	7647-14-5	1.00000	0.00004	
			Formaldehyde	50-00-0	0.10000		
			Borate salt	Proprietary			Proprietary CAS & Additive Concentration
			Ethoxylated phenolic resin	Proprietary			Proprietary CAS & Additive Concentration
			Isobutyl ketone I	Proprietary			Proprietary CAS & Additive Concentration
			Ethoxylated nonyl phenol	Proprietary			Proprietary CAS & Additive Concentration
			Isobutyl ketone II	Proprietary			Proprietary CAS & Additive Concentration
			Borate salt #2	Proprietary			Proprietary CAS & Additive Concentration

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.

* 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)

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/17/2014
Job End Date:	12/17/2014
State:	Montana
County:	Wibaux
API Number:	25-109-21202-00-00
Operator Name:	Interstate Explorations LLC
Well Name and Number:	Nelson # 2-1
Longitude:	-104.16254000
Latitude:	46.94453000
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	11,750
Total Base Water Volume (gal):	0
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
15% HCl	Sanjel	Acid	Hydrogen Chloride Anhydrous	7647-01-0	40.00000	37.57006	
HTAI-1	Sanjel	Corrosion Inhibitor	Propylene Glycol	57-55-6	70.00000	1.65149	
ICA-8	Sanjel	Acid Iron Control	Sodium Hypophosphite	7681-53-0	70.00000	1.18357	
HTAI-1	Sanjel	Corrosion Inhibitor	Antimony Potassium Oxide	29638-69-5	40.00000	0.94371	
AI-8	Sanjel	Acid Inhibitor	Isopropanol	67-63-0	40.00000	0.51694	
S-101	Sanjel	Surfactant	Isopropanol	67-63-0	60.00000	0.29897	
AI-8	Sanjel	Acid Inhibitor	Propargyl alcohol	107-19-7	10.00000	0.12924	
D-2	Sanjel	Surfactant	Sodium-2-ethylhexyl sulfate	126-92-1	60.00000	0.11534	
ICA-8C	Sanjel	Acid Iron Control	Copper (II) Chloride	7447-39-4	100.00000	0.04191	
D-2	Sanjel	Surfactant					

			2-ethylhexanol	104-76-7	1.50000	0.00288	
AI-8	Sanjel	Acid Inhibitor					
			Fatty acids	Proprietary			
AI-8	Sanjel	Acid Inhibitor					
			Modified thiorea polymer	Proprietary			
AI-8	Sanjel	Acid Inhibitor					
			Polyoxyalkylenes	Proprietary			
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.							

* 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)

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/20/2014
Job End Date:	11/24/2014
State:	Montana
County:	Toole
API Number:	25-101-24258-00-00
Operator Name:	Anadarko Petroleum Corporation
Well Name and Number:	HORGUS FEE 3702-08-05-11H
Longitude:	-111.90566000
Latitude:	48.98111100
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	3,893
Total Base Water Volume (gal):	333,609
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
N002	SCHLUMBERGER	NITROGEN					
			NITROGEN, LIQUID FORM	7727-37-9	100.00000	76.67191	
WATER	ANADARKO	CARRIER/BASE FLUID					
			WATER	7732-18-5	100.00000	16.90516	
WHITE OTTAWA/ST. PETERS 20/40	SCHLUMBERGER	PROPPING AGENT					
			CRYSTALLINE SILICA	14808-60-7	100.00000	5.44336	
H015	SCHLUMBERGER	ACID					
			HYDROCHLORIC ACID	7647-01-0	15.00000	0.10451	
F105	SCHLUMBERGER	SOLVENT					
			POLYETHOXYLATED ALKANOL (1)	PROPRIETARY	60.00000	0.03452	
			2-BUTOXYETHANOL	111-76-2	30.00000	0.01726	
			BUTAN-1-OL	71-36-3	13.00000	0.00748	
			POLYETHOXYLATED ALKANOL (2)	PROPRIETARY	10.00000	0.00575	
L071	SCHLUMBERGER	CLAY STABILIZER					
			CHOLINIUM CHLORIDE	67-48-1	75.00000	0.03817	
J590	SCHLUMBERGER	GELLING AGENT					
			PROPAN-2-OL	67-63-0	30.00000	0.02557	

J589	SCHLUMBERGER	CROSS-LINKER					
			PROPAN-2-OL	67-63-0	30.00000	0.01660	
B244	SCHLUMBERGER	BIOCIDE					
			GLUTARALDEHYDE	111-30-8	25.00000	0.00356	
A264	SCHLUMBERGER	CORROSION INHIBITOR					
			METHANOL	67-56-1	40.00000	0.00096	
			ALIPHATIC ACIDS	PROPRIETARY	30.00000	0.00072	
			ALIPHATIC ALCOHOLS, ETHOXYLATED #1	PROPRIETARY	30.00000	0.00072	
			PROP-2-YN-1-OL	107-19-7	10.00000	0.00024	
B451	SCHLUMBERGER	NONEMULSIFIER					
			PROPAN-2-OL	67-63-0	30.00000	0.00136	
			1, 2, 3 - PROPANETRIOL	56-81-5	10.00000	0.00045	
B315	SCHLUMBERGER	FRICITION REDUCER					
			DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	64742-47-8	30.00000	0.00172	
			ALIPHATIC ALCOHOL GLYCOL ETHER	PROPRIETARY	1.50000	0.00009	
U042	SCHLUMBERGER	IRON CONTROL					
			TETRASODIUM ETHYLENEDIAMINETETRAACETATE	64-02-8	60.00000	0.00123	
			SODIUM HYDROXIDE	1310-73-2	5.00000	0.00010	
			TRISODIUM NITRILACETATE (IMPURITY)	5064-31-3	1.00000	0.00002	
L058	SCHLUMBERGER	IRON CONTROL					
			SODIUM ERYTHORBATE	6381-77-7	100.00000	0.00075	
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 Chemicals					
			FATTY ACID AMIDOALKYL BETAINE	PROPRIETARY	60.00000	0.05114	
			SULFONATED POLYSTYRENE	PROPRIETARY	100.00000	0.00410	

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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)

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	2/25/2014
Job End Date:	2/25/2014
State:	Montana
County:	Dawson
API Number:	25-021-21195-00-00
Operator Name:	Interstate Explorations LLC
Well Name and Number:	MBA Consultants # 1-1
Longitude:	-104.55836000
Latitude:	47.36613000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	12,000
Total Base Water Volume (gal):	54,687
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	Customer	Carrier	Water	7732-18-5	100.00000	87.13815	
Econoprop, 20/40 mesh	Trican	Proppant	mullite	1302-93-8	85.00000	10.31529	
			Silica	7631-86-9	35.00000	4.24747	
			silica crystalline-cristobalite	14464-46-1	20.00000	2.42713	
FR-12 (Anionic Acrylamide)	Trican	Friction Reducer	Mineral oil/ light hydrotreated pet. distillate	64742-47-8	60.00000	0.02522	
			Anionic polyacrylamide copolymer	25987-30-8	40.00000	0.01681	
			Ammonium Chloride	12125-02-9	2.00000	0.00084	
pH-15 (pH Buffer)	Trican	pH Buffer	Potassium carbonate	584-08-7	31.96000	0.02602	
			Potassium hydroxide	1310-58-3	13.05000	0.01063	
WXB-15 (Borate Crosslinker)	Trican	Crosslinker	Petroleum distillate blend	64742-96-7	47.72000	0.03619	
Bio Clear 5000 (Biocide)	Trican	Biocide					

			Polyethylene glycol	25322-68-3	70.00000	0.03079
			2,2-dibromo-3-nitrilopropionamide	10222-01-2	10.00000	0.00440
CC-55 (Clay control)	Trican	Clay Control				
			Bis Quaternary Compound	Proprietary	40.40000	0.02462
			Formic acid	64-18-6	4.30000	0.00262
S-17 (Surfactant)	Trican	Surfactant				
			Ethylene/propylene oxide polymer	Proprietary	7.00000	0.00529
			Amine sulfonate	Proprietary	4.90000	0.00370
			2-Ethylhexanol	104-76-7	2.10000	0.00159
			alcohols, C11-14-iso, C13- rich ethoxylates	78330-21-9	1.00000	0.00076
Encap HP (Encapsulated Breaker)	Trican	Breaker				
			ammonium persulfate	7727-54-0	100.00000	
			Crystalline silica: Quartz (SiO2)	14808-60-7	15.00000	
			cured acrylic resin	Proprietary	25.00000	
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 Chemicals				
			Silica, Amorphous	112926-00-8		
			methylcellulose	9004-67-5		
			Tallow alkylidimethylammonium chloride/bentonite complex	71011-25-1		
			2-butoxyethanol	111-76-2		
			Water	7732-18-5		
			modified amidoamine	68990-47-6		
			Trade Secret Ingredient	Proprietary		
			ethoxylated alcohol, C11-14-iso	78330-21-9		
			Sodium Chloride	7647-14-5		
			Sorbitan monooleate	1338-43-8		
			Ulexite	1319-33-1		
			Fatty acids	61790-12-3		
			Alkyl amine salts	Proprietary		
			Aspartic acid, homopolymer, sodium salt	94525-01-6		
			polydimethylsiloxane	63148-62-9		
			guar gum	9000-30-0		
			propylene carbonate	108-32-7		

* 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)

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date	2/6/2013
State:	Montana
County:	Glacier
API Number:	25-035-22128
Operator Name:	Anschutz Exploration Corp.
Well Name and Number:	Paisley 1-4-37-13
Longitude:	-113.31579285
Latitude:	48.987935018
Long/Lat Projection:	NAD83
Production Type:	Oil
True Vertical Depth (TVD):	7,697
Total Water Volume (gal)*:	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
GelLP-10	CST	Gel	Phosphoric Acid	7664-38-2	5.00%	0.05733%	
GelLP-10	CST	Gel	Ester Mixture	Trade Secret	95.00%	1.08935%	
Activator XL-105	CST	Crosslinker	Ferric Sulfate	10028-22-5	45.00%	0.65772%	
Activator XL-105	CST	Crosslinker	Water	7732-18-5	30.00%	0.43848%	
Activator XL-105	CST	Crosslinker	2-Butoxyethanol	111-76-2	25.00%	0.36540%	
Activator XL-105	CST	Crosslinker	Fatty Amine Condensate	Trade Secret	10.00%	0.146159%	
Activator XL-105	CST	Crosslinker	Glycerol	Trade Secret	10.00%	0.146159%	
Activator XL-105	CST	Crosslinker	Soy Amide	Trade Secret	10.00%	0.146159%	
Activator XL-105	CST	Crosslinker	Alpha Olefin Sulfonate	Trade Secret	10.00%	0.146159%	
Activator XL-105	CST	Crosslinker	Cocamide Diethanolamide	Trade Secret	10.00%	0.146159%	
Activator XL-105	CST	Crosslinker	Sulfuric Acid	766493-9	1.00%	0.01462%	
BrkLP-10	Clearwater Speciality Chemical Co.	Breaker	Petroleum Distillates	64741-44-2	100.00%	0.49089%	
BrkLP-10	Clearwater Speciality Chemical Co.	Breaker	Magnesium Oxide	1309-48-4	60.00%	0.29454%	
Versaprop and Interprop	Saint-Gobain Proppants	Proppant	Aluminum Silicate (Mullite)	10043-01-3	65.00%	8.43231%	
Versaprop and Interprop	Saint-Gobain Proppants	Proppant	Aluminum Oxide (Corundum)	1344-28-1	65.00%	8.43231%	
HD-5 Propane	Gibsons	Base Fluid	Propane	74-98-6	99.00%	83.08878%	
HD-5 Propane	Gibsons	Base Fluid	Ethane	74-84-0	5.00%	4.19640%	
HD-5 Propane	Gibsons	Base Fluid	Butane(s)	75-28-5	5.00%	4.19640%	
HD-5 Propane	Gibsons	Base Fluid	Propylene	115-07-1	5.00%	4.19640%	

* 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%

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

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	10/3/2012
State:	MT
County:	Rosebud
API Number:	25-087-21738
Operator Name:	Fidelity
Well Name and Number:	71 Ranch 44-1H
Longitude:	-107.379455
Latitude:	46.642727
Long/Lat Projection:	NAD83
Production Type:	Oil
True Vertical Depth (TVD):	5,115
Total Water Volume (gal)*:	1,082,654

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
Sand (Proppant)	CWS	Propping Agent					
DAP-925	CWS	Acid Corrosion Inhibitor					
DWP-111	CWS	Gel Slurry					
DWP-123	CWS	Crosslinker					
DWP-204	CWS	pH Buffer					
DWP-621	CWS	Friction Reducer					
DWP-902	CWS	Breaker					
DWP-905	CWS	Breaker					
DWP-913	CWS	Clay Control					
DWP-944	CWS	Biocide					
DWP-955	CWS	Non-Emulsifier					
Hydrochloric Acid	CWS	Clean Perforations					
			2,2-Dibromo-3-Nitrilopropionamide	10222-01-2	40.00%	0.01180%	
			Ammonium Persulfate	7727-54-0	100.00%	0.08724%	
			Apatite	64476-38-6	0.10%	0.00285%	
			Biotite	1302-27-8	0.10%	0.00285%	
			Calcite	471-34-1	1.00%	0.02366%	
			Choline chloride	67-48-1	100.00%	0.06960%	
			Crystalline silica (Quartz)	14808-60-7	30.00%	12.98209%	
			Distillates (petroleum), hydrotreated middle	64742-46-7	60.00%	0.17820%	
			Fatty acids	Trade Secret	30.00%	0.00001%	
			Formaldehyde	50-00-0	0.10%	0.00000%	
			Formic Acid	64-18-6	13.00%	0.00149%	
			Goethite	1310-14-1	0.10%	0.00510%	
			Guar gum	9000-30-0	60.00%	0.17820%	
			Hydrochloric acid	7647-01-0	37.00%	0.03165%	
			Illite	12173-60-3	1.00%	0.00465%	
			Ilmenite	98072-94-7	0.10%	0.00172%	
			Methanol	67-56-1	60.00%	0.00002%	
			Modified thiourea polymer	68527-49-1	30.00%	0.00001%	
			Nonionic surfactant	Trade Secret	5.00%	0.00106%	

			Olefin	Trade Secret	5.00%	0.00000%
			Oxirane, 2-methyl-, polymer with oxirane, monodecyl ether	37251-67-5	1.50%	0.00446%
			Paraffinic hydrocarbon solvent	64742-47-8	30.00%	0.00637%
			Polyacrylamide polymer	Trade Secret	40.00%	0.00849%
			Polyethylene Glycol Mixture	25322-68-3	70.00%	0.01180%
			Polyoxyalkylenes	Trade Secret	30.00%	0.00001%
			Polyoxyalkylenes surfactant	Trade Secret	5.00%	0.00106%
			Potassium hydroxide	1310-58-3	30.00%	0.03760%
			Propargyl Alcohol	107-19-1	10.00%	0.00000%
			Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite	68953-58-2	5.00%	0.01485%
			Sodium chloride	7647-14-5	1.00%	0.00000%
			Sodium tetraborate pentahydrate	12179-04-3	Trade Secret	Trade Secret
			Styrene acrylic copolymer	25085-34-1	40.00%	0.03490%
Water	Customer & CWS	Base Fluid & Mix Water	Water	7732-18-5	100.00%	86.38062%
CO2	Customer	Base Fluid Gas	Carbon Dioxide	124-38-9	Not Listed	Not Listed

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

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	8/22/2012
State:	MT
County:	Rosebud
API Number:	25-087-21736
Operator Name:	Fidelity
Well Name and Number:	Grebe 31-33H Bid
Longitude:	-107.576491
Latitude:	46.6693
Long/Lat Projection:	NAD83
Production Type:	Gas
True Vertical Depth (TVD):	4,993
Total Water Volume (gal)*:	1,062,679

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
Sand (Proppant)	CWS	Propping Agent	Silicon Dioxide	14808-60-7	100.00%	11.64973%	
DWP-621	CWS	Friction Reducer	No Hazardous Materials	Not listed	100.00%	0.01884%	
DWP-111	CWS	Gel Slurry	No Hazardous Materials	Not listed	100.00%	0.32074%	
DWP-204	CWS	pH Buffer	Formic Acid	64-18-6	13.00%	0.00148%	
DWP-123	CWS	Crosslinker	Borate Salt	Trade secret	Trade secret		
DWP-913	CWS	Clay Control	No Hazardous Materials	Not listed	100.00%	0.09335%	
DWP-931G	CWS	Non-Emulsifier	Polyethylene glycol nonylphenyl ether,liquids	9016-45-9	40.00%	0.02345%	
			Formaldehyde, polymer with 4-(1,1-dimethylethyl)phenol, methyloxirane and oxirane	30704-64-4	30.00%	0.01759%	
			Diisobutyl ketone	108-83-8	30.00%	0.01759%	
			Isobutyl Alcohol	78-83-1	30.00%	0.01759%	
			2-Heptanone, 4,6-dimethyl	19549-80-5	5.00%	0.00293%	
DWP-944	CWS	Biocide	Polyethylene Glycol Mixture	25322-68-3	70.00%	0.01684%	
			2,2-Dibromo-3-Nitropropionamide	10222-01-2	40.00%	0.00962%	
DWP-902	CWS	Breaker	Ammonium Persulfate	7727-54-0	75.00%	0.11416%	
			Cured Acrylic Resin	Not listed	16.00%	0.02435%	
			Silica, Crystalline-Quartz	14808-60-7	10.00%	0.01522%	
DAP-925	CWS	Acid Corrosion Inhibitor	Modified Thiourea Polymer	68527-49-1	30.00%	0.00019%	
			Fatty Acids	Trade secret	30.00%	0.00019%	
			Methanol	67-56-1	60.00%	0.00039%	
			Propargyl Alcohol	107-19-1	10.00%	0.00006%	
			Olefin	Trade secret	5.00%	0.00003%	
			Polyoxyalkylenes	Trade secret	30.00%	0.00019%	
Hydrochloric Acid	CWS	Acid	Hydrochloric Acid	7647-01-0	35.00%	0.56790%	
Water	Customer	Base Fluid	Water		100.00%	85.89157%	

* 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%

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

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	2012-04-17
State:	Montana
County:	Sheridan
API Number:	2509121897
Operator Name:	SAMSON RESOURCES CORP - EBUS
Well Name and Number:	Zuma 15-22-35-58H
Longitude:	-104.110017
Latitude:	48.766597
Long/Lat Projection:	NAD83
Production Type:	Oil
True Vertical Depth (TVD):	8,348
Total Water Volume (gal)*:	858,375

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
Fresh Water	Operator				100.00%	89.47743%	Density = 8.330
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100.00%	9.50705%	
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30.00%	0.02201%	
CL-31 CROSSLINKER	Halliburton	Crosslinker	Potassium hydroxide	1310-58-3	5.00%	0.00204%	
			Potassium metaborate	13709-94-9	60.00%	0.02448%	
CL-22 UC	Halliburton	Crosslinker	Potassium formate	590-29-4	60.00%	0.04915%	
Bactron K-31W	Halliburton	Biocide	Ethanol	64-17-5	60.00%	0.01431%	
			Ethylene glycol	107-21-1	60.00%	0.01431%	
			Glutaraldehyde	111-30-8	60.00%	0.01431%	
FR-66	Halliburton	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8	30.00%	0.00339%	
VICON NF BREAKER	Halliburton	Breaker	Chlorous acid, sodium salt	7758-19-2	10.00%	0.04146%	
			Sodium chloride	7647-14-5	30.00%	0.12439%	
3rd Party Scale Inhibitor	Operator	*3rd Party Additive	*Supplied by Operator		100.00%	0.01036%	Density = 8.600
FDP-S1007-11	Halliburton	Surfactant	Citrus, extract	94266-47-4	10.00%	0.01303%	
			Isopropanol	67-63-0	30.00%	0.03909%	
FDP-S998-10	Halliburton	Surfactant	Ethylene glycol	107-21-1	60.00%	0.01342%	
			THPS	Confidential Business Information	30.00%	0.00671%	
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100.00%	0.20662%	
Ingredients Listed Below This Line Are Part of the Fluid Composition Provided by Halliburton Which Do Not Appear On the Material Safety Data Sheets (MSDS)							
			Acrylate Polymer	Confidential Business Information			
			Alcohols, C12-16, ethoxylated	68551-12-2			

Ammonium chloride	12125-02-9
Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4
Borate salts	Confidential Business Information
Crystalline silica, quartz	14808-60-7
Polyacrylamide Copolymer	Confidential Business Information
Silica gel	112926-00-8
Sodium carboxymethyl cellulose	9004-32-4
Sodium chloride	7647-14-5
Sodium glycollate	2836-32-0
Sorbitan monooleate polyoxyethylene derivative	9005-65-6
Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8
Surfactant Mixture	Confidential Business Information
Surfactant Mixture	Confidential Business Information
Tall oil acid diethanolamide	68155-20-4
Water	7732-18-5

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

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	10/15/2011
State:	Montana
County:	Roosevelt
API Number:	25-085-21788
Operator Name:	G3 Operating
Well Name and Number:	Olson 1-21-16H
Longitude:	-104.321873743074
Latitude:	48.2451341918777
Long/Lat Projection:	NAD83
Production Type:	Oil
True Vertical Depth (TVD):	10,276
Total Water Volume (gal)*:	2,209,141

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
Sand (Proppant)	Calfrac	Propping Agent	Crystalline silica (Quartz)	14808-60-7	100.00%	14.92685%	
DWP-111	Calfrac	Liquid Guar Gel	No Hazardous Materials	Not listed	100.00%	0.50750%	
DWP-123	Calfrac	Crosslinker	Borate Salt	Trade secret	Trade secret		
			Potassium Hydroxide	1310-58-3	13.00%	0.03729%	
DWP-204	Calfrac	pH Buffer	Formic Acid	64-18-6	13.00%	0.00568%	
DWP-213	Calfrac	pH Buffer	Inorganic Base	Trade secret	7.00%	0.00663%	
DWP-901	Calfrac	Oxidizing Breaker	Ammonium Persulfate	7727-54-0	95.00%	0.00628%	
DWP-915	Calfrac	Clay Control	Tetramethylammonium Chloride	75-57-0	60.00%	0.03249%	
DWP-931	Calfrac	Non-Emulsifier	Isobutyl Alcohol	78-83-1	30.00%	0.02454%	
			Polysubstituted Aromatic Hydrocarbon Solvent	Trade secret	13.00%	0.01063%	
			Light Aromatic Hydrocarbon Solvent	Trade secret	5.00%	0.00409%	
			Light Aromatic Hydrocarbon Solvent	Trade secret	13.00%	0.01063%	
			Polysubstituted Aromatic Hydrocarbon Solvent	Trade secret	13.00%	0.01063%	
			Polysubstituted Aromatic Hydrocarbon Solvent	Trade secret	5.00%	0.00409%	
			Polysubstituted Aromatic Hydrocarbon Solvent	Trade secret	5.00%	0.00409%	
			Ethoxylated Nonyl Phenol	Trade secret	40.00%	0.03271%	
			Ethoxylated Phenolic Resin	Trade secret	30.00%	0.02454%	
DWP-944	Calfrac	Biocide	Polyethylene Glycol Mixture	25322-68-3	70.00%	0.00681%	
			2,2-Dibromo-3-Nitrilopropionamide	10222-01-2	40.00%	0.00389%	
DWP-975	Calfrac	Encapsulated Oxidative Breaker	Ammonium Persulfate	7727-54-0	76.00%	0.13624%	
			Cured Resin	Not listed	24.00%	0.04302%	
DAP-902	Calfrac	Scale Inhibitor	No Hazardous Materials	Not listed	100.00%	0.02080%	
Water	Provided by Customer	Base Fluid	Water		100.00%	83.78803%	

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