



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS MANAGEMENT PROGRAM

DEP USE ONLY	
Site ID	Primary Fac ID
Client	Subfacility id

Completion Report

Well Information					
If you are submitting this Completion Report attached to the Well Record, you only need to enter the well API # in this section.					
Well Operator Range Resources-Appalachia, LLC	DEP ID# 141142	Well API # (Permit / Reg) 37-125-23923-00	Project Number	Acres 568.2147	
Address 380 Southpointe Blvd, Suite 300		Well Farm Name Hewitt, Douglas	Well # #1H	Serial #	
City Canonsburg	State PA	Zip Code 15317	County Washington	Municipality Donegal	
Phone 724-743-6700	Fax 724-743-6490	Email	USGS 7.5 min. quadrangle map West Middletown		
Check the appropriate submission: <input checked="" type="checkbox"/> Original Completion Report <input type="checkbox"/> Amended Completion Report					

STIMULATION BASE FLUID		
List Water Management Plan Approved Water Source(s) that were used	Water Management Plan ID No.	Volume (Gallons)
1. Buffalo Creek	Source 25	757,209
2. Ohio River	Source 19	1,057,855
3. PA American Water Company/Rt. 844 Near Breezy Heights Metering Vault	Source 6	3,096,368
4.		
5.		
6.		
Recycled Water Used		965,250
Other Base Fluid(s)/Components Used		
1.		
2.		
Total Base Fluid(s)/Components Used		5,876,682

PERFORATION RECORD					
Stage No.	Perforation Date	Stage Perforated From	Stage Perforated To	Perf. Orientation (Vertical, Horizontal, Radial)	Formation
1	7/10/11	10145" MD	9945" MD	Horizontal	Marcellus Shale
2	8/6/11	9895" MD	9795" MD	Horizontal	Marcellus Shale
3	8/6/11	9745" MD	9645" MD	Horizontal	Marcellus Shale
4	8/7/11	9595" MD	9495" MD	Horizontal	Marcellus Shale
5	8/7/11	9445" MD	9345" MD	Horizontal	Marcellus Shale
6	8/7/11	9295" MD	9195" MD	Horizontal	Marcellus Shale
7	8/8/11	9145" MD	9045" MD	Horizontal	Marcellus Shale
8	8/8/11	8995" MD	8895" MD	Horizontal	Marcellus Shale
9	8/8/11	8845" MD	8745" MD	Horizontal	Marcellus Shale
10	8/9/11	8695" MD	8595" MD	Horizontal	Marcellus Shale
11	8/9/11	8545" MD	8445" MD	Horizontal	Marcellus Shale
12	8/9/11	8395" MD	8295" MD	Horizontal	Marcellus Shale
13	8/10/11	8245" MD	8145" MD	Horizontal	Marcellus Shale

14	8/10/11	8095" MD	7995" MD	Horizontal	Marcellus Shale
15	8/10/11	7945" MD	7845" MD	Horizontal	Marcellus Shale
16	8/10/11	7795" MD	7695" MD	Horizontal	Marcellus Shale
17	8/11/11	7645" MD	7545" MD	Horizontal	Marcellus Shale
18	8/12/11	7495" MD	7395" MD	Horizontal	Marcellus Shale
19	8/15/11	7345" MD	7245" MD	Horizontal	Marcellus Shale
20	8/15/11	7195" MD	7095" MD	Horizontal	Marcellus Shale

STIMULATION FLUID ADDITIVES

Note: Trade secret or confidential proprietary information should be clearly identified as such and should be submitted on a separate sheet attached to this report.

Descriptive Additive Type	Chemical Component(s) listed on Material Safety Data Sheet of the Additive	CAS No. of Chemical Component	Chemical Component % By Volume in Additive	Chemical Component % By Volume used in Each Stage						
				Stage No. 1	Stage No. 2	Stage No. 3	Stage No. 4	Stage No. 5	Stage No. 6	
FR-200W	N/A	N/A	N/A	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
FR-300W	N/A	N/A	N/A	0.0370%	0.0399%	0.0311%	0.0294%	0.0395%	0.0383%	0.0383%
MX 588-2	N/A	N/A	N/A	0.0000%	0.0074%	0.0070%	0.0065%	0.0072%	0.0073%	0.0073%
NE100	N/A	N/A	N/A	0.0004%	0.0004%	0.0004%	0.0003%	0.0004%	0.0004%	0.0004%
FE100L	N/A	N/A	N/A	0.0011%	0.0011%	0.0011%	0.0009%	0.0011%	0.0011%	0.0011%
37% HCL	HCL	7647-01-0	37.0%	0.0637%	0.0621%	0.0657%	0.0527%	0.0636%	0.0646%	0.0646%
CI-100	Methanol	67-56-1	92.5%	0.0007%	0.0006%	0.0007%	0.0006%	0.0007%	0.0007%	0.0007%
CI-100	Propargyl Alcohol	107-19-7	4.4%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
MC B-8650	Glutaraldehyde	111-30-8	48.8%	0.0000%	0.0038%	0.0036%	0.0033%	0.0037%	0.0037%	0.0037%
MC B-8650	Methanol	67-56-1	0.7%	0.0000%	0.0001%	0.0001%	0.0000%	0.0001%	0.0001%	0.0001%
MC B-8520	4,4-Dimethyloxazolidine	51200-87-4	76.5%	0.0000%	0.0150%	0.0148%	0.0136%	0.0148%	0.0148%	0.0151%
MC B-8520	3,4,4-Trimethyloxazolidine	75673-43-7	5.0%	0.0000%	0.0010%	0.0010%	0.0009%	0.0010%	0.0010%	0.0010%
MC B-8520	2-Amino-2-methyl-1-propanol	124-68-5	1.0%	0.0000%	0.0002%	0.0002%	0.0002%	0.0002%	0.0002%	0.0002%
MC B-8520	Formaldehyde Amine	56652-26-7	0.5%	0.0000%	0.0001%	0.0001%	0.0001%	0.0001%	0.0001%	0.0001%

Please insert additional copies of this page if additional rows/stages are needed.

STIMULATION FLUID ADDITIVES-Continued

Descriptive Additive Type	Chemical Component(s) listed on Material Safety Data Sheet of the Additive	CAS No. of Chemical Component	Chemical Component % By Volume in Additive	Chemical Component % By Volume used in Each Stage						
				Stage No. 7	Stage No. 8	Stage No. 9	Stage No. 10	Stage No. 11	Stage No. 12	
FR-200W	N/A	N/A	N/A	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
FR-300W	N/A	N/A	N/A	0.0417%	0.0409%	0.0407%	0.0482%	0.0324%	0.0465%	0.0465%
MX 588-2	N/A	N/A	N/A	0.0066%	0.0069%	0.0072%	0.0068%	0.0071%	0.0070%	0.0070%
NE100	N/A	N/A	N/A	0.0004%	0.0004%	0.0004%	0.0004%	0.0004%	0.0004%	0.0004%
FE100L	N/A	N/A	N/A	0.0011%	0.0011%	0.0011%	0.0011%	0.0011%	0.0011%	0.0012%
37% HCL	HCL	7647-01-0	37%	0.0649%	0.0647%	0.0667%	0.0667%	0.0625%	0.0686%	0.0686%
Cl-100	Methanol	67-56-1	93%	0.0007%	0.0007%	0.0007%	0.0007%	0.0007%	0.0007%	0.0007%
Cl-100	Propargyl Alcohol	107-19-7	4%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
MC B-8650	Glutaraldehyde	111-30-8	49%	0.0036%	0.0037%	0.0037%	0.0037%	0.0036%	0.0038%	0.0038%
MC B-8650	Methanol	67-56-1	1%	0.0001%	0.0001%	0.0001%	0.0001%	0.0001%	0.0001%	0.0001%
MC B-8520	4,4-Dimethyloxazolidine	51200-87-4	77%	0.0148%	0.0148%	0.0150%	0.0147%	0.0148%	0.0148%	0.0148%
MC B-8520	3,4,4-Trimethyloxazolidine	75673-43-7	5%	0.0010%	0.0010%	0.0010%	0.0010%	0.0010%	0.0010%	0.0010%
MC B-8520	2-Amino-2-methyl-1-propanol	124-68-5	1%	0.0002%	0.0002%	0.0002%	0.0002%	0.0002%	0.0002%	0.0002%
MC B-8520	Formaldehyde Amine	56652-26-7	0%	0.0001%	0.0001%	0.0001%	0.0001%	0.0001%	0.0001%	0.0001%

Please insert additional copies of this page if additional rows/stages are needed.

STIMULATION FLUID ADDITIVES-Continued

Descriptive Additive Type	Chemical Component(s) listed on Material Safety Data Sheet of the Additive	CAS No. of Chemical Component	Chemical Component % By Volume in Additive	Chemical Component % By Volume used in Each Stage						
				Stage No. 13	Stage No. 14	Stage No. 15	Stage No. 16	Stage No. 17	Stage No. 18	
FR-200W	N/A	N/A	N/A	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
FR-300W	N/A	N/A	N/A	0.0404%	0.0343%	0.0439%	0.0373%	0.0355%	0.0344%	0.0344%
MX 588-2	N/A	N/A	N/A	0.0073%	0.0069%	0.0069%	0.0072%	0.0072%	0.0073%	0.0073%
NE100	N/A	N/A	N/A	0.0004%	0.0004%	0.0004%	0.0004%	0.0004%	0.0004%	0.0004%
FE100L	N/A	N/A	N/A	0.0011%	0.0011%	0.0011%	0.0011%	0.0011%	0.0011%	0.0011%
37% HCL	HCL	7647-01-0	37%	0.0645%	0.0641%	0.0648%	0.0668%	0.0635%	0.0677%	0.0677%
CI-100	Methanol	67-56-1	93%	0.0007%	0.0007%	0.0007%	0.0007%	0.0007%	0.0007%	0.0007%
CI-100	Propargyl Alcohol	107-19-7	4%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
MC B-8650	Glutaraldehyde	111-30-8	49%	0.0037%	0.0035%	0.0037%	0.0037%	0.0037%	0.0037%	0.0037%
MC B-8650	Methanol	67-56-1	1%	0.0001%	0.0001%	0.0001%	0.0001%	0.0001%	0.0001%	0.0001%
MC B-8520	4,4-Dimethylloxazolidine	51200-87-4	77%	0.0148%	0.0147%	0.0148%	0.0150%	0.0148%	0.0149%	0.0149%
MC B-8520	3,4,4-Trimethylloxazolidine	75673-43-7	5%	0.0010%	0.0010%	0.0010%	0.0010%	0.0010%	0.0010%	0.0010%
MC B-8520	2-Amino-2-methyl-1-propanol	124-68-5	1%	0.0002%	0.0002%	0.0002%	0.0002%	0.0002%	0.0002%	0.0002%
MC B-8520	Formaldehyde Amine	56652-26-7	0%	0.0001%	0.0001%	0.0001%	0.0001%	0.0001%	0.0001%	0.0001%

Please insert additional copies of this page if additional rows/stages are needed.

STIMULATION FLUID ADDITIVES-Continued

Descriptive Additive Type	Chemical Component(s) listed on Material Safety Data Sheet of the Additive	CAS No. of Chemical Component	Chemical Component % By Volume in Additive	Chemical Component % By Volume used in Each Stage	
				Stage No. 19	Stage No. 20
FR-200W	N/A	N/A	N/A	0%	0.0000%
FR-300W	N/A	N/A	N/A	0%	0.0321%
MX 588-2	N/A	N/A	N/A	0%	0.0069%
NE100	N/A	N/A	N/A	0%	0.0004%
FE100L	N/A	N/A	N/A	0%	0.0011%
37% HCL	HCL	7647-01-0	37%	0%	0.0646%
CI-100	Methanol	67-56-1	93%	0%	0.0007%
CI-100	Propargyl Alcohol	107-19-7	4%	0%	0.0000%
MC B-8650	Glutaraldehyde	111-30-8	49%	0%	0.0036%
MC B-8650	Methanol	67-56-1	1%	0%	0.0001%
MC B-8520	4,4-Dimethyloxazolidine	51200-87-4	77%	0%	0.0148%
MC B-8520	3,4,4-Trimethyloxazolidine	75673-43-7	5%	0%	0.0010%
MC B-8520	2-Amino-2-methyl-1-propanol	124-68-5	1%	0%	0.0002%
MC B-8520	Formaldehyde Amine	56652-26-7	0%	0%	0.0001%

Please insert additional copies of this page if additional rows/stages are needed.

STIMULATION INFORMATION (WELL)			
Open Flow Production: Omcfd @ 24hrs pos treatment	24 Hr. Open Flow Production: Omcfd @ 24hrs pos treatment	24 Hr. Shut-in Pressure: N/A @ 24hrs post treatment	Flow Back Date:

STIMULATION INFORMATION (STAGE)

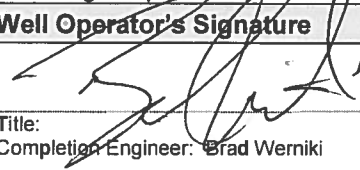
Complete a separate record for each stimulation stage. (Please insert additional copies of this page for additional stages).

Stage No.: 1	Stimulation Date: 8/6/11	Pump Rate: 70.3
Pressure (psi): 7108	Shut-in Surface Pressure: 3533	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 307,023	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 2	Stimulation Date: 8/6/11	Pump Rate: 69.1
Pressure (psi): 6771	Shut-in Surface Pressure: 3409	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 300,176	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 3	Stimulation Date: 8/6/11	Pump Rate: 69.5
Pressure (psi): 7190	Shut-in Surface Pressure: 3550	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 302,883	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 4	Stimulation Date: 8/7/11	Pump Rate: 68.7
Pressure (psi): 7233	Shut-in Surface Pressure: 3651	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 297,738	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 5	Stimulation Date: 8/7/11	Pump Rate: 67.5
Pressure (psi): 6842	Shut-in Surface Pressure: 3916	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 302,146	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 6	Stimulation Date: 8/7/11	Pump Rate: 68
Pressure (psi): 7607	Shut-in Surface Pressure: 3993	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 303,405	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 7	Stimulation Date: 8/8/11	Pump Rate: 70.5
Pressure (psi): 7215	Shut-in Surface Pressure: 4158	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 302,144	Propping Agent Size: 100 Mesh 30/50 Mesh

WELL SERVICE COMPANIES (Provide the name, address, and telephone number of all well service companies involved.)

Name	Name	Name
Frac Tech	Multi-Chem	Renegade Wireline
Address 16858 IH20	Address 200 Detroit Street	Address PO Box 852
City - State - Zip Cisco, TX 76437	City - State - Zip Washington, PA	City - State - Zip Levelland, TX 79336
Phone 817-850-1008	Phone 325-486-7489	Phone 337/552-8401

I do hereby certify to the best of my knowledge, information and belief that the information contained on this Completion Report is true and correct. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator's Signature	DEP USE ONLY	
 Title: Completion Engineer: Brad Werniki	Reviewed by:	Date:
	Comments:	
Date: 8/30/2011		

STIMULATION INFORMATION (STAGE- Continued)		
Complete a separate record for each stimulation stage. (Please insert additional copies of this page for additional stages).		
Stage No.: 8	Stimulation Date: 8/8/11	Pump Rate: 66.8
Pressure (psi): 6399	Shut-in Surface Pressure: 3863	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 300,901	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 9	Stimulation Date: 8/8/11	Pump Rate: 68.7
Pressure (psi): 6793	Shut-in Surface Pressure: 4082	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 300,933	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 10	Stimulation Date: 8/9/11	Pump Rate: 66.4
Pressure (psi): 7675	Shut-in Surface Pressure: 3987	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 287,352	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 11	Stimulation Date: 8/9/11	Pump Rate: 67.2
Pressure (psi): 6842	Shut-in Surface Pressure: 4081	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 303,688	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 12	Stimulation Date: 8/10/11	Pump Rate: 66.5
Pressure (psi): 6470	Shut-in Surface Pressure: 4103	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 291,966	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 13	Stimulation Date: 8/10/11	Pump Rate: 69.3
Pressure (psi): 7021	Shut-in Surface Pressure: 4139	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 283,411	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 14	Stimulation Date: 8/10/11	Pump Rate: 67.1
Pressure (psi): 6748	Shut-in Surface Pressure: 4115	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 301,622	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 15	Stimulation Date: 8/10/11	Pump Rate: 66.2
Pressure (psi): 6974	Shut-in Surface Pressure: 4268	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 299,781	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 16	Stimulation Date: 8/11/11	Pump Rate: 68.6
Pressure (psi): 6806	Shut-in Surface Pressure: 4168	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 304,189	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 17	Stimulation Date: 8/12/11	Pump Rate: 67.8
Pressure (psi): 7038	Shut-in Surface Pressure: 4250	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 301,114	Propping Agent Size: 100 Mesh 30/50 Mesh

Stage No.: 18	Stimulation Date: 8/15/11	Pump Rate: 65.8
Pressure (psi): 7031	Shut-in Surface Pressure: 3880	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 303,723	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 19	Stimulation Date: 8/15/11	Pump Rate: 65.5
Pressure (psi): 6644	Shut-in Surface Pressure: 3933	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 301,799	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 20	Stimulation Date: 8/15/11	Pump Rate: 67.3
Pressure (psi): 6080	Shut-in Surface Pressure: 3992	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 345,130	Propping Agent Size: 100 Mesh 30/50 Mesh



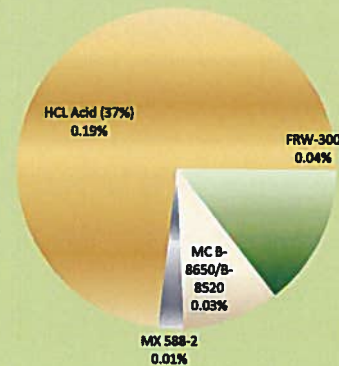
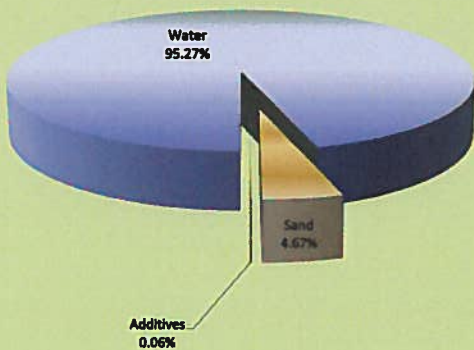
RANGE RESOURCES

Hewitt, Douglas Unit #1H
Well API: 37-125-23923

Completion Date: July 14th, 2011
Township: Donegal

% Composition of Hydraulic Fracture Fluid (by volume)						
Product Name	Additive	Purpose	Use and Dilution	Volume	Overall %	Common Uses
Water	Carrier Fluid	Creates fracture network in shale and carry proppant to the formation	Primary constituent	5,568,917 gal	95.08%	Water is the most abundant molecule on the Earth's surface
Sand	Sand	Allows fractures to remain open so gas can escape	Second most common constituent, making up almost 6% of the fluid	273,059 gal	4.66%	Drinking water filtration, play sand
FRW-300	Friction Reducer	Reduces friction between fluid and pipe	Diluted at one-half gallon per 1,000 gallons of water	2,191 gal	0.04%	Water treatment, soil conditioner; some children's toys
MC B-8650/B-8520	Antimicrobial Agent	Eliminates bacteria in the water that produce corrosive byproducts	Diluted at one-half gallon per 1,000 gallons of water	1,499 gal	0.03%	Water treatment, disinfectant, sterilize medical and dental equipment and surfaces
MX 588-2	Scale Inhibitor	Prevents scaling in pipe	Diluted at one-tenth gallon per 1,000 gallons of water	0,393 gal	0.01%	Water treatment, household cleaners, de-icing agent
HCL Acid (37%)	Perf Clean-Up	Dissolves cement and minerals to help initiate fractures	177 gallons per stage if required (non-diluted chemicals)	11,166 gal	0.19%	Swimming pool and household cleaner

Composition of Hydraulic Fracture Fluid (by volume)





RANGE RESOURCES

Composition of Components in Marcellus Shale Hydraulic Fracturing Fluid

Common Name & Supplier	Supplier Chemical Name	Common Description	Hazardous Component listed on MSDS	Hazardous Component CAS No.	Purpose	MSDS Component Weight % of Chemical	Gallons MSDS Component in Well	Maximum Concentration of MSDS Component of Total Stage Fluid	
								% Vol	% Weight
7.5% HCl Mixture (FracTech)	37% HCL	concentrated HCl Acid	HCL	7647-01-0	Cleans perforation	37.0%	11165.91	0.1906%	0.0776%
	CI-100	Corrosion Inhibitor	Methanol	67-56-1	Protects casing	95.0%	43.33	0.0007%	0.0005%
	NE100	Non-Emulsifier	Propargyl Alcohol	107-19-7	Protects casing	5.0%	1.86	0.0000%	0.0000%
	FE100L	Iron Chelator	No hazardous ingredients	N/A	Prevents emulsions	0.0%	N/A	N/A	N/A
			No hazardous ingredients	N/A	Prevents precipitation	0.0%	N/A	N/A	N/A
							TOTAL	0.1914%	0.0782%

Friction Reducer (FracTech)	FRW-300	Friction Reducer	No hazardous ingredients	N/A	Reduce friction down casing	0.0%	N/A	N/A	N/A
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Scale Inhibitor (Multichem)	MX 588-2	Scale Inhibitor	No hazardous ingredients	N/A	prevents scale deposits	0.0%	N/A	N/A	N/A
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Antibacterial Agent (Multichem)	MC B-8520	Antibacterial Agent	4,4-Dimethyloxazolidine	51200-87-4	eliminates bacteria in water	78.0%	823.59	0.0141%	0.0131%
			3,4,4-Trimethyloxazolidine	75673-43-7		5.0%	53.91	0.0009%	0.0008%
			2-Amino-2-methyl-1-propanol	124-66-5		1.0%	11.30	0.0002%	0.0002%
	MC B-8650	Antibacterial Agent	Formaldehyde Amine	56652-26-7	eliminates bacteria in water	0.5%	4.92	0.0001%	0.0001%
			Glutaraldehyde	111-30-8	eliminates bacteria in water	50.0%	154.64	0.0026%	0.0037%
			Methanol	67-56-1		0.5%	1.55	0.0000%	0.0000%
							TOTAL	0.0179%	0.0179%

SUMMARY	
by vol %	0.209%
by weight %	0.096%