

STIMULATION INFORMATION (WELL)			
Open Flow Production: 0mcf/d @ 24hrs pos treatment	24 Hr. Open Flow Production: 0mcf/d @ 24hrs pos treatment	24 Hr. Shut-in Pressure: N/A @ 24hrs post treatment	Flow Back Date: 11/23/2011
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: 11/7/2011	Pump Rate: 27.0	
Pressure (psi): 3,749	Shut-in Surface Pressure: 3,020	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 105,000	Propping Agent Size: 80/100 mesh/20-40 Mesh	
Stage No.:	Stimulation Date:	Pump Rate:	
Pressure (psi):	Shut-in Surface Pressure:	5 Minute Shut-in Surface Pressure:	
Propping Agent Type:	Propping Agent Amount:	Propping Agent Size:	
Stage No.:	Stimulation Date:	Pump Rate:	
Pressure (psi):	Shut-in Surface Pressure:	5 Minute Shut-in Surface Pressure:	
Propping Agent Type:	Propping Agent Amount:	Propping Agent Size:	
Stage No.:	Stimulation Date:	Pump Rate:	
Pressure (psi):	Shut-in Surface Pressure:	5 Minute Shut-in Surface Pressure:	
Propping Agent Type:	Propping Agent Amount:	Propping Agent Size:	
Stage No.:	Stimulation Date:	Pump Rate:	
Pressure (psi):	Shut-in Surface Pressure:	5 Minute Shut-in Surface Pressure:	
Propping Agent Type:	Propping Agent Amount:	Propping Agent Size:	
Stage No.:	Stimulation Date:	Pump Rate:	
Pressure (psi):	Shut-in Surface Pressure:	5 Minute Shut-in Surface Pressure:	
Propping Agent Type:	Propping Agent Amount:	Propping Agent Size:	
WELL SERVICE COMPANIES (Provide the name, address, and telephone number of all well service companies involved.)			
Name Universal Well Services	Name Beckman Production Services	Name	
Address 201 Arch Street	Address 177 W. Adams St.	Address	
City - State - Zip Meadville, PA. 16335	City - State - Zip Cochranton, PA. 16314	City - State - Zip	
Phone 814 337-1983	Phone 814 425-1066	Phone	
<i>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..</i>			
Well Operator's Signature		DEP USE ONLY	
<i>Melanie Dennis</i>	Reviewed by:	Date:	
Title: Regulatory Analyst	Date: 1/5/2011	Comments:	



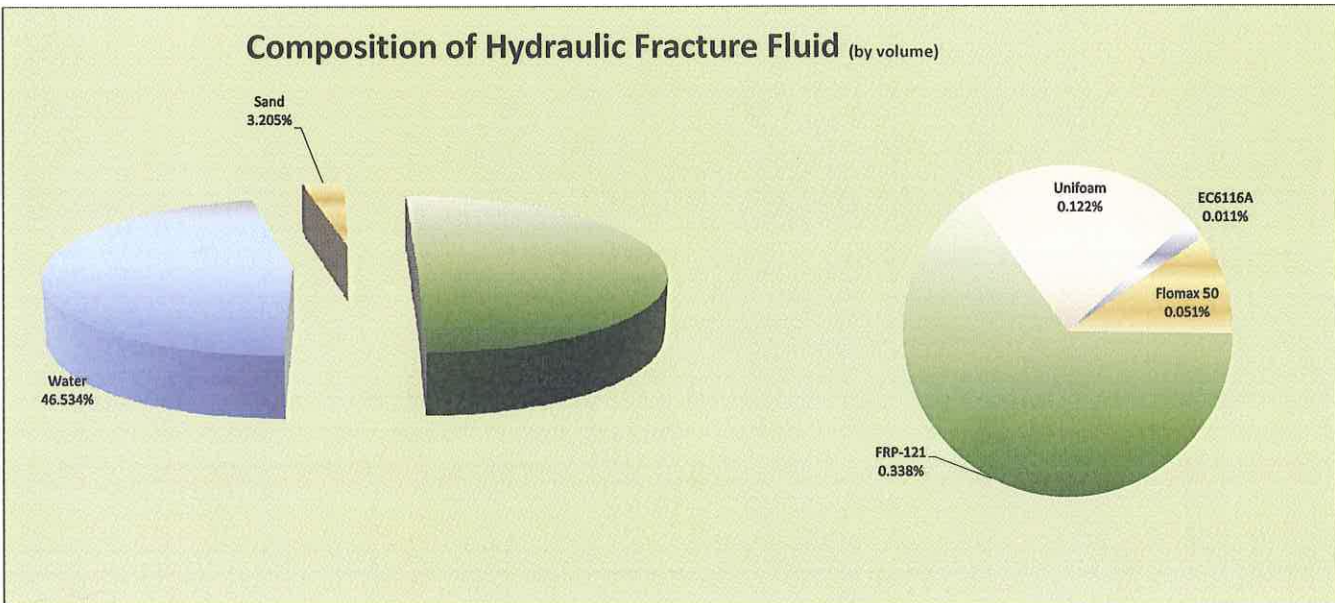
Bruce E Ziegler #1

Completion Date: 11/7/2011

Well API: 37-123-41251

Township: Triump

% Composition of Hydraulic Fracture Fluid (by volume)						
Product Name	Additive	Purpose	Use and Dillution	Volume	Overall %	Common Uses
Water	Carrier Fluid	Creates fracture network in shale and carry proppant to the formation	Primary constituent	68,911 gal	93.07%	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	4,746 gal	6.41%	Drinking water filtration, play sand
FRP-121	Friction Reducer	Reduces friction between fluid and pipe	Diluted at 3-5 lbs per 1,000 gallons of water	0,250 gal	0.34%	Water treatment; soil conditioner; some children's toys
Unifoam	Foamer	Foamer for water and acid	Diluted at 1.34 gallon per 1,000 gallons of water	0,090 gal	0.12%	Water treatment and cleaning
EC6116A	Bacteriacide	Eliminates bacteria in the water that produce corrosive byproducts	Diluted at 0.25 gallon per 1,000 gallons of water	0,008 gal	0.01%	Water treatment, disinfectant; sterilize medical and dental equipment and surfaces
Flomax 50	Microemulsion Surfactant	Aids to increase the recovery of water from the formation	Diluted at 2 gallon per 1,000 gallons of water	0,038 gal	0.05%	Antifreeze in cooling and heating system





Wellname: Bruce E. Ziegler #1
Township: Triumph

WELL API#: 37-123-41251
Completion Date: 11/7/2011

Composition of Components in Marcellus Shale Hydraulic Fracturing Fluid

RANGE RESOURCES

Common Name & Supplier	Supplier Chemical Name	Common Description	Hazardous Component listed on MSDS	Purpose	MSDS Component Weight % of Chemical	Specific Gravity of Additive	Specific Gravity of Component	Additive Conc (gal/1000 gal)	lbs Hazardous Component	Gallons MSDS Component in Well	Maximum Concentration of MSDS Component of Total Stage Fluid	
											% Vol	% Weight
Friction Reducer (Universal)	FRP-121	Friction Reducer	No Hazardous Ingredients	Reduce Friction Down Casing	N/A	0.65	0.65	3.4	N/A	N/A	N/A	N/A
Foamer (Universal)	Unifoam	Foamer for Water	Ethanol	Low Density Proppant Transport	5.0%	1	1	1.2	0.51	0.06	0.0001%	0.0066%
Antibacterial Agent (Universal)	EC6116A	Antibacterial Agent	Dibromoacetonitrile	Eliminates Bacteria in Water	5.0%	0.985	0.94	0.1	0.04	0.01	0.0000%	0.0183%
			2,2-Dibromo-3-nitropropionamide		30.0%	0.985	1.004	0.1	0.27	0.03	0.0000%	0.1096%
			Polyethylene Glycol		60.0%	0.985	1.08	0.1	0.53	0.03	0.0001%	0.2192%
			TOTAL								0.0001%	0.3471%
Surfactant (Universal)	Flomax 50	Microemulsion Surfactant	Isopropanol	Increase Water Recovery	15.0%	1.0557	0.97	0.5	0.68	0.08	0.0001%	0.0576%
			Citrus Terpenes		15.0%	1.0557	1.13	0.5	0.68	0.07	0.0001%	0.0576%
			TOTAL								0.0002%	0.1152%

SUMMARY	by vol %	by weight %
	0.0002%	0.354%