

STIMULATION INFORMATION (WELL)			
Open Flow Production: Omcf/d @ 24hrs pos treatment	24 Hr. Open Flow Production: Omcf/d @ 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: 7/21/2011	Pump Rate: 16.1 bpm	
Pressure (psi): 3,293	Shut-in Surface Pressure: 2,450 psi	5 Minute Shut-in Surface Pressure: 1,685 psi	
Propping Agent Type: None	Propping Agent Amount: 0 lbs	Propping Agent Size: None	
Stage No.: 2	Stimulation Date: 7/22/2011	Pump Rate: 13.3 bpm	
Pressure (psi): 2,307	Shut-in Surface Pressure: 1,360 psi	5 Minute Shut-in Surface Pressure: 1,207 psi	
Propping Agent Type: None	Propping Agent Amount: 0 lbs	Propping Agent Size: None	
Stage No.: 3	Stimulation Date: 7/23/2011	Pump Rate: 12 bpm	
Pressure (psi): 1,589	Shut-in Surface Pressure: 1,290 psi	5 Minute Shut-in Surface Pressure: 1,175 psi	
Propping Agent Type: None	Propping Agent Amount: 0 lbs	Propping Agent Size: None	
Stage No.: 4	Stimulation Date:	Pump Rate:	
Pressure (psi):	Shut-in Surface Pressure:	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type:	Propping Agent Amount:	Propping Agent Size:	
Stage No.: 5	Stimulation Date:	Pump Rate:	
Pressure (psi):	Shut-in Surface Pressure:	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type:	Propping Agent Amount:	Propping Agent Size:	
Stage No.: 6	Stimulation Date:	Pump Rate:	
Pressure (psi):	Shut-in Surface Pressure:	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type:	Propping Agent Amount:	Propping Agent Size:	
Stage No.: 7	Stimulation Date:	Pump Rate:	
Pressure (psi):	Shut-in Surface Pressure:	5 Minute Shut-in Surface Pressure: N/A	
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 Renegade	Name	
Address 201 Arch Street 2 nd Floor	Address PO Box 852	Address	
City - State - Zip Meadville, PA 16335	City - State - Zip Levelland, TX 79336	City - State - Zip	
Phone 814/373-3206	Phone 337/552-8401	Phone	
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: Rodney Archibeque Date: 8/19/2011		Reviewed by:	Date:
		Comments:	



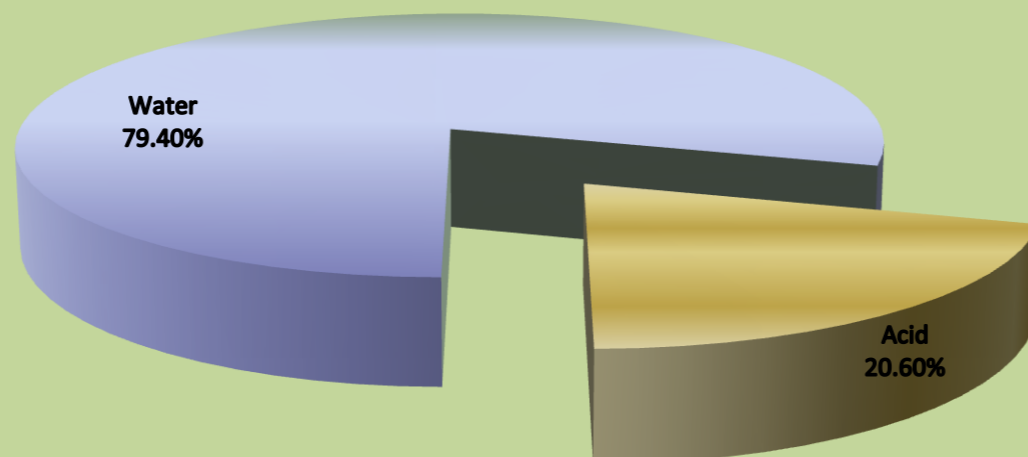
RANGE RESOURCES

Phelan Unit #4H
Well API: 3712524274

Completion Date: 07/22/2011
Township: South Franklin

% 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	74,366 gal	79.40%	Water is the most abundant molecule on the Earth's surface
HCL Acid (37%)	Perf Clean-Up	Dissolves cement and minerals to help initiate fractures	177 gallons per stage if required (non-diluted chemicals)	19,294 gal	20.60%	Swimming pool and household cleaner

Composition of Hydraulic Fracture Fluid (by Volume)





Composition of Components in Marcellus Shale Hydraulic Fracturing Fluid

RANGE RESOURCES

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%	19293.76	20.5998%	8.7015%
	CI-100	Corrosion Inhibitor	Methanol	67-56-1	Protects casing	95.0%	130.84	0.1397%	0.1066%
			Propargyl Alcohol	107-19-7	Protects casing	5.0%	5.62	0.0060%	0.0056%
	NE100	Non- Emulsifer	No hazardous ingredients	N/A	Prevents emulsions	0.0%	N/A	N/A	N/A
	FE100L	Iron Chelator	No hazardous ingredients	N/A	Prevents precipitation	0.0%	N/A	N/A	N/A
							TOTAL	20.7455%	8.8137%

SUMMARY	by vol %	by weight %
	20.745%	8.814%