



<b>DEP USE ONLY</b>	
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) 37-127-24249-00	Project Number	Acres 384.1662
Address 380 Southpointe Blvd, Suite 300			Well Farm Name Painter	Well # #5H	Serial #
City Canonsburg	State PA	Zip Code 15317	County Washington	Municipality Chartiers	
Phone 724-743-6700	Fax 724-743-6490	Email		USGS 7.5 min. quadrangle map Midway	
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. PA American Water Company/Plum Road Metering Vault	Source 8	3,747,072
2.		
3.		
4.		
5.		
6.		
<b>Recycled Water Used</b>		<b>437,136</b>
<b>Other Base Fluid(s)Components Used</b>		
1.		
2.		
<b>Total Base Fluid(s)/Components Used</b>		<b>4,184,208 gallons</b>

PERFORATION RECORD					
Stage No.	Perforation Date	Stage Perforated From	Stage Perforated To	Perf. Orientation (Vertical, Horizontal, Radial)	Formation
1	6/15/11	10,577'MD	10,389'MD	Horizontal	Marcellus Shale
2	6/29/11	10,295'MD	10,107'MD	Horizontal	Marcellus Shale
3	6/29/11	10,013'MD	9825'MD	Horizontal	Marcellus Shale
4	6/30/11	9731'MD	9543'MD	Horizontal	Marcellus Shale
5	7/1/11	9376'MD	9192'MD	Horizontal	Marcellus Shale
6	7/1/11	9100'MD	8916'MD	Horizontal	Marcellus Shale
7	7/1/11	8824'MD	8640'MD	Horizontal	Marcellus Shale
8	7/5/11	8548'MD	8364'MD	Horizontal	Marcellus Shale
9	7/5/11	8272'MD	8088'MD	Horizontal	Marcellus Shale
10	7/5/11	7996'MD	7812'MD	Horizontal	Marcellus Shale
11	7/6/11	7720'MD	7536'MD	Horizontal	Marcellus Shale
12	7/6/11	7444'MD	7260'MD	Horizontal	Marcellus Shale
13	7/5/11	7996'MD	7812'MD	Horizontal	Marcellus Shale
14	7/7/11	6892'MD	6708'MD	Horizontal	Marcellus Shale







<b>STIMULATION INFORMATION (WELL)</b>			
Open Flow Production: Omcfd/d @ 24hrs pos treatment	24 Hr. Open Flow Production: Omcfd/d @ 24hrs pos treatment	24 Hr. Shut-in Pressure: N/A @ 24hrs post treatment	Flow Back Date:
<b>STIMULATION INFORMATION (STAGE)</b>			
Complete a separate record for each stimulation stage. (Please insert additional copies of this page for additional stages).			
<b>Stage No.:</b> 1	Stimulation Date: 6/29/11	Pump Rate: 62.7	
Pressure (psi): 6893	Shut-in Surface Pressure: 3605	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 305,697	Propping Agent Size: 100 Mesh, 30/50 Mesh, 40/70 Mesh	
<b>Stage No.:</b> 2	Stimulation Date: 6/29/11	Pump Rate: 65.1	
Pressure (psi): 7265	Shut-in Surface Pressure: 3710	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 312,600	Propping Agent Size: 100 Mesh, 30/50 Mesh, 40/70 Mesh	
<b>Stage No.:</b> 3	Stimulation Date: 6/30/11	Pump Rate: 69.3	
Pressure (psi): 6496	Shut-in Surface Pressure: 3827	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 310,874	Propping Agent Size: 100 Mesh, 30/50 Mesh, 40/70 Mesh	
<b>Stage No.:</b> 4	Stimulation Date: 6/30/11	Pump Rate: 69.8	
Pressure (psi): 6876	Shut-in Surface Pressure: 3863	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 327,762	Propping Agent Size: 100 Mesh, 30/50 Mesh, 40/70 Mesh	
<b>Stage No.:</b> 5	Stimulation Date: 7/1/11	Pump Rate: 65.6	
Pressure (psi): 7970	Shut-in Surface Pressure: 3786	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 288,232	Propping Agent Size: 100 Mesh, 30/50 Mesh, 40/70 Mesh	
<b>Stage No.:</b> 6	Stimulation Date: 7/1/11	Pump Rate: 65.9	
Pressure (psi): 6686	Shut-in Surface Pressure: 3980	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 308,186	Propping Agent Size: 100 Mesh, 30/50 Mesh, 40/70 Mesh	
<b>Stage No.:</b> 7	Stimulation Date: 7/5/11	Pump Rate: 68.8	
Pressure (psi): 7563	Shut-in Surface Pressure: 3856	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 305,650	Propping Agent Size: 100 Mesh, 30/50 Mesh, 40/70 Mesh	
<b>WELL SERVICE COMPANIES (Provide the name, address, and telephone number of all well service companies involved.)</b>			
<b>Name</b> Frac Tech	<b>Name</b> Multi-Chem	<b>Name</b> CDK Perforating	
Address 16858 IH20	Address 200 Detroit Street	Address 427 Half Moon Way	
City - State - Zip Ciscok, TX 76437	City - State - Zip Washington, PA	City - State - Zip Runaway Bay, TX 76426	
Phone 817-850-1008	Phone 325-486-7489	Phone (940)577-4300	
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.			
<b>Well Operator's Signature</b>		<b>DEP USE ONLY</b>	
 Title: Completion Engineer Mike Hurey      Date: 7/28/11		Reviewed by:	Date:
		Comments:	

**STIMULATION INFORMATION (STAGE- Continued)**

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

<b>Stage No.:</b> 8	Stimulation Date: 7/5/11	Pump Rate: 62.8
Pressure (psi): 8052	Shut-in Surface Pressure: 3793	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 304,750	Propping Agent Size: 100 Mesh, 30/50 Mesh, 40/70 Mesh
<b>Stage No.:</b> 9	Stimulation Date: 7/5/11	Pump Rate: 66.2
Pressure (psi): 6295	Shut-in Surface Pressure: 3898	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 304,505	Propping Agent Size: 100 Mesh, 30/50 Mesh, 40/70 Mesh
<b>Stage No.:</b> 10	Stimulation Date: 7/6/11	Pump Rate: 66.2
Pressure (psi): 6195	Shut-in Surface Pressure: 3933	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 304,869	Propping Agent Size: 100 Mesh, 30/50 Mesh, 40/70 Mesh
<b>Stage No.:</b> 11	Stimulation Date: 7/6/11	Pump Rate: 69.1
Pressure (psi): 5972	Shut-in Surface Pressure: 3969	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 303,792	Propping Agent Size: 100 Mesh, 30/50 Mesh, 40/70 Mesh
<b>Stage No.:</b> 12	Stimulation Date: 7/7/11	Pump Rate: 70.7
Pressure (psi): 5879	Shut-in Surface Pressure: 4045	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 304,199	Propping Agent Size: 100 Mesh, 30/50 Mesh, 40/70 Mesh
<b>Stage No.:</b> 13	Stimulation Date: 7/7/11	Pump Rate: 70.4
Pressure (psi): 5117	Shut-in Surface Pressure: 2864	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 2864	Propping Agent Size: 100 Mesh, 30/50 Mesh, 40/70 Mesh
<b>Stage No.:</b> 14	Stimulation Date: 7/7/11	Pump Rate: 71
Pressure (psi): 5631	Shut-in Surface Pressure: 2829	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 307,087	Propping Agent Size: 100 Mesh, 30/50 Mesh, 40/70 Mesh
<b>Stage No.:</b> 15	Stimulation Date:	Pump Rate:
Pressure (psi):	Shut-in Surface Pressure:	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount:	Propping Agent Size:
<b>Stage No.:</b> 16	Stimulation Date:	Pump Rate:
Pressure (psi):	Shut-in Surface Pressure:	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount:	Propping Agent Size:
<b>Stage No.:</b> 17	Stimulation Date:	Pump Rate:
Pressure (psi):	Shut-in Surface Pressure:	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount:	Propping Agent Size:



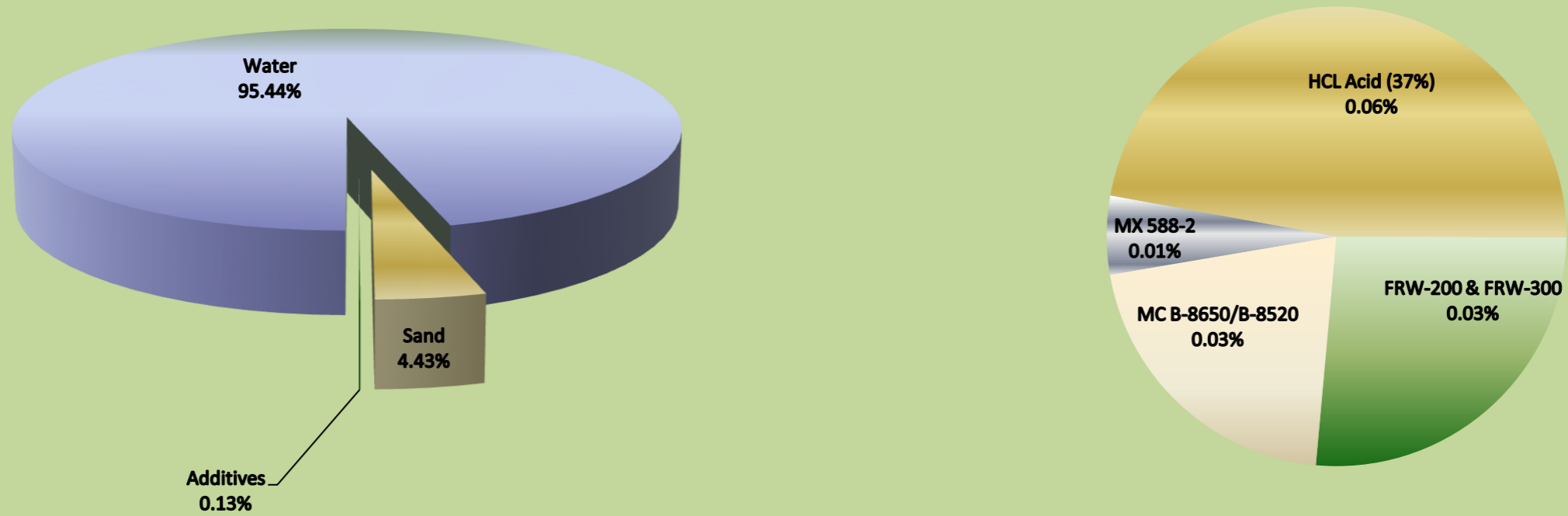
RANGE RESOURCES

Painter Unit #5H  
Well API: 37-125-24251

Completion Date: June 29 - July 7, 2011  
Township: Chartiers

% 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	4,179,733 gal	95.44%	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	194,162 gal	4.43%	Drinking water filtration, play sand
FRW-200 & FRW-300	Friction Reducer	Reduces friction between fluid and pipe	Diluted at one-half gallon per 1,000 gallons of water	1,485 gal	0.03%	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	1,176 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	0,311 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)	2,659 gal	0.06%	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%	2658.55	0.0607%	0.0248%	
	CI-100	Corrosion Inhibitor	Methanol	67-56-1	Protects casing	95.0%	30.95	0.0007%	0.0005%	
			Propargyl Alcohol	107-19-7	Protects casing	5.0%	1.33	0.0000%	0.0000%	
	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		
							<b>TOTAL</b>	<b>0.0614%</b>	<b>0.0253%</b>	
Friction Reducer (FracTech)	RW-200 & FRW-30	Friction Reducer	No hazardous ingredients	N/A	Reduce friction down casing	0.0%	N/A	N/A	N/A	
Scale Inhibitor (Multichem)	MX 588-2	Scale Inhibitor	No hazardous ingredients	N/A	prevents scale deposits	0.0%	N/A	N/A	N/A	
Antibacterial Agent (Multichem)	MC B-8520	Antibacterial Agent	4,4-Dimethyloxazolidine	51200-87-4	eliminates bacteria in water	78.0%	646.13	0.0148%	0.0138%	
			3,4,4-Trimethyloxazolodine	75673-43-7		5.0%	42.29	0.0010%	0.0009%	
			2-Amino-2-methyl-1-propanol	124-68-5		1.0%	8.86	0.0002%	0.0002%	
			Formaldehyde Amine	56652-26-7		0.5%	3.86	0.0001%	0.0001%	
	MC B-8650	Antibacterial Agent	Glutaraldehyde	111-30-8	eliminates bacteria in water	50.0%	121.32	0.0028%	0.0039%	
			Methanol	67-56-1	0.5%	1.21	0.0000%	0.0000%		
							<b>TOTAL</b>	<b>0.0188%</b>	<b>0.0189%</b>	
								<b>SUMMARY</b>	<b>by vol %</b>	<b>by weight %</b>
									<b>0.080%</b>	<b>0.044%</b>