



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) 37-125-24120-00	Project Number	Acres 335
Address 380 Southpointe Blvd, Suite 300		Well Farm Name Johnson, Gerald Unit	Well # 4H	Serial #
City Canonsburg	State PA	Zip Code 15317	County Washington	Municipality California
Phone 724-743-6700	Fax 724-743-6490	Email	USGS 7.5 min. quadrangle map West Pike Run	

Check the appropriate submission: Original Completion Report Amended Completion Report

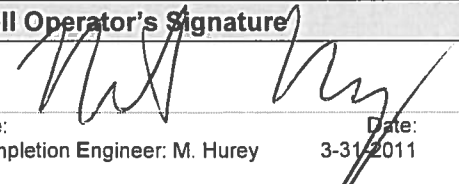
STIMULATION BASE FLUID

List Water Management Plan Approved Water Source(s) that were used	Water Management Plan ID No.	Volume (Gallons)
1. PA American Water Company/Meter Vault Mt. Zion Rd.	Source 23	3,693,018
2.		
3.		
4.		
5.		
6.		
Recycled Water Used		0 gal
Other Base Fluid(s)Components Used		
1.		
2.		
Total Base Fluid(s)/Components Used		3,693,018 gallons

PERFORATION RECORD

Stage No.	Perforation Date	Stage Perforated From	Stage Perforated To	Perf. Orientation (Vertical, Horizontal, Radial)	Formation
1	2-23-2011	11,190'MD	10,990'MD	Horizontal	Marcellus Shale
2	2-23-2011	10,660'MD	10,600'MD	Horizontal	Marcellus Shale
3	2-25-2011	10,590'MD	10,390'MD	Horizontal	Marcellus Shale
4	2-25-2011	10,290'MD	10,024'MD	Horizontal	Marcellus Shale
5	2-28-2011	9,928'MD	9,736'MD	Horizontal	Marcellus Shale
6	2-28-2011	9,640'MD	9,448'MD	Horizontal	Marcellus Shale
7	3-1-2011	9,352'MD	9,160'MD	Horizontal	Marcellus Shale
8	3-1-2011	9,064'MD	8,872'MD	Horizontal	Marcellus Shale
9	3-2-2011	8,776'MD	8,584'MD	Horizontal	Marcellus Shale
10					
11					
12					

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: 3/8/11
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: 2-23-2011	Pump Rate: 60.9	
Pressure (psi): 8,039	Shut-in Surface Pressure: 4,109	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 508,820	Propping Agent Size: 100 Mesh 30/50 Mesh	
Stage No.: 2	Stimulation Date: 2-24-2011	Pump Rate: 64.6	
Pressure (psi): 8,584	Shut-in Surface Pressure: 5,914	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 505,190	Propping Agent Size: 100 Mesh 30/50 Mesh	
Stage No.: 3	Stimulation Date: 2-25-2011	Pump Rate: 64.6	
Pressure (psi): 8,210	Shut-in Surface Pressure: 5,162	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 500,931	Propping Agent Size: 100 Mesh 30/50 Mesh	
Stage No.: 4	Stimulation Date: 2-26-2011	Pump Rate: 57.7	
Pressure (psi): 8,620	Shut-in Surface Pressure: 6,084	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 512,710	Propping Agent Size: 100 Mesh 30/50 Mesh	
Stage No.: 5	Stimulation Date: 2-28-2011	Pump Rate: 55.5	
Pressure (psi): 8,641	Shut-in Surface Pressure: 5,769	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 493,504	Propping Agent Size: 100 Mesh 30/50 Mesh	
Stage No.: 6	Stimulation Date: 3-1-2011	Pump Rate: 68.5	
Pressure (psi): 8,474	Shut-in Surface Pressure: 5,823	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 490,088	Propping Agent Size: 100 Mesh 30/50 Mesh	
Stage No.: 7	Stimulation Date: 3-1-2011	Pump Rate: 69.8	
Pressure (psi): 8,252	Shut-in Surface Pressure: 5,283	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 497,679	Propping Agent Size: 100 Mesh 30/50 Mesh	

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: 3-1-2011	Pump Rate: 68.6
Pressure (psi): 8,058	Shut-in Surface Pressure: 5,680	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 493,145	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 9	Stimulation Date: 3-2-2011	Pump Rate: 69.3
Pressure (psi): 7,857	Shut-in Surface Pressure: 5,549	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 496,811	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 Frac Tech	Name Multi-Chem	Name Universal Well Servi ces
Address 16858 IH20	Address	Address 730 Braddock View Drive
City - State- Zip Cisco, TX 76437	City - State - Zip	City - State - Zip Mt Braddock, PA 15465
Phone 817-850-1008	Phone	Phone 724-430-6201
<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
 Title: Completion Engineer: M. Hurey Date: 3-31-2011		Reviewed by: _____ Date: _____
		Comments: _____

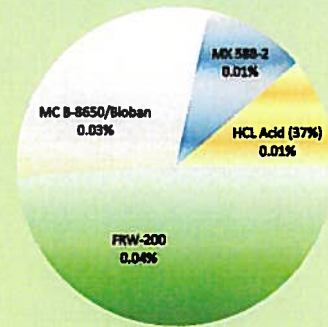
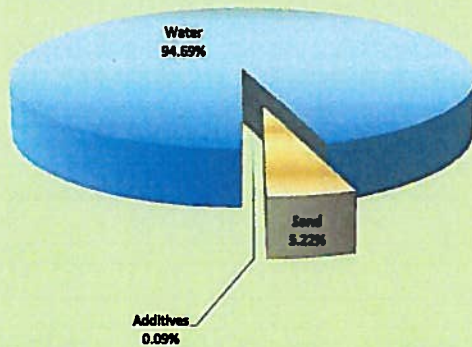


Gerald Johnson Unit #4H
Well API: 37-125-24120-00

Completion Date: February 23- March 2, 2011
Township: West Pike Run

% 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	3,690,579 gal	94.69%	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	203,349 gal	5.22%	Drinking water filtration, play sand
FRW-200	Friction Reducer	Reduces friction between fluid and pipe	Diluted at one-half gallon per 1,000 gallons of water	1,746 gal	0.04%	Water treatment; soil conditioner; some children's toys
MC B-8650/Bioban	Antimicrobial Agent	Eliminates bacteria in the water that produce corrosive byproducts	Diluted at one-half gallon per 1,000 gallons of water	1,051 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	372 gal	0.01%	Water treatment, household cleaners, de-calc agent
HCL Acid (37%)	Perf Clean-Up	Dissolves cement and minerals to help initiate fractures	177 gallons per stage if required (non-diluted chemicals)	402 gal	0.01%	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	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	Cleans perforation	37.0%	401.96	0.0103%	0.0042%
	CI-100	Corrosion Inhibitor	Methanol	Protects casing	85.0%	18.66	0.0004%	0.0003%
			Propargyl Alcohol	Protects casing	5.0%	0.04	0.0000%	0.0000%
	NE100	Non- Emulsifer	No hazardous ingredients	Prevents emulsions	0.0%	N/A	N/A	N/A
FE100L	Iron Chelator	No hazardous ingredients	Prevents precipitation	0.0%	N/A	N/A	N/A	
TOTAL							0.0107%	0.0045%

Friction Reducer (FracTech)	FRW-200	Friction Reducer	No hazardous ingredients	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	prevents scale deposits	0.0%	N/A	N/A	N/A
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Antibacterial Agent (Multichem)	CS-1135	Antibacterial Agent	4,4-Dimethyloxazolidine	eliminates bacteria in water	78.0%	577.45	0.0148%	0.0137%
			3,4,4-Trimethyloxazolidine		5.0%	37.80	0.0010%	0.0009%
			2-Amino-2-methyl-1-propanol		1.0%	7.92	0.0002%	0.0002%
			Formaldehyde Amins		0.5%	3.45	0.0001%	0.0001%
	BMC 8-8650	Antibacterial Agent	Glutaraldehyde	eliminates bacteria in water	50.0%	108.42	0.0028%	0.0038%
		Methanol	0.5%		1.08	0.0000%	0.0000%	
TOTAL							0.0189%	0.0187%

SUMMARY	by vol %	by weight %
	0.030%	0.023%