



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) 37-125-23898-00	Project Number	Acres 607.8373
Address 380 Southpointe Blvd, Suite 300		Well Farm Name Godwin	Well # #2H	Serial #
City Canonsburg	State PA	Zip Code 15317	County Washington	Municipality Canton
Phone 724-743-6700	Fax 724-743-6490	Email	USGS 7.5 min. quadrangle map Washington West	

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 Co/Chapman Lane Meter Vault	Source 15	1,295,490
2.		
3.		
4.		
5.		
6.		
Recycled Water Used		2,545,872 gallons
Other Base Fluid(s)/Components Used		
1.		
2.		
Total Base Fluid(s)/Components Used		3,841,362 gallons

PERFORATION RECORD

Stage No.	Perforation Date	Stage Perforated From	Stage Perforated To	Perf. Orientation (Vertical, Horizontal, Radial)	Formation
1	5/12/11	10950'MD	10650'MD	Horizontal	Marcellus Shale
2	5/20/11	10550'MD	10250'MD	Horizontal	Marcellus Shale
3	5/20/11	10150'MD	9847'MD	Horizontal	Marcellus Shale
4	5/21/11	9750'MD	9450'MD	Horizontal	Marcellus Shale
5	5/23/11	9350'MD	9050'MD	Horizontal	Marcellus Shale
6	5/24/11	8950'MD	8650'MD	Horizontal	Marcellus Shale
7	5/24/11	8550'MD	8250'MD	Horizontal	Marcellus Shale
8	5/25/11	8150'MD	7850'MD	Horizontal	Marcellus Shale
9	5/25/11	7750'MD	7450'MD	Horizontal	Marcellus Shale
10	5/25/11	7350'MD	7050'MD	Horizontal	Marcellus Shale
11	5/26/11	6950'MD	6650'MD	Horizontal	Marcellus Shale
12				Horizontal	Marcellus Shale

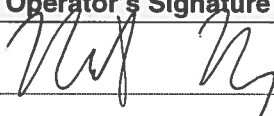
STIMULATION INFORMATION (WELL)			
Open Flow Production: Omcf/d @ 24hrs pos treatment	24 Hr. Open Flow Production: Omcf/d @ 24hrs pos treatment	24 Hr. Shut-in Pressure: N/A @ 24hrs post treatment	Flow Back Date: 6/3/11
STIMULATION INFORMATION (STAGE)			
Complete a separate record for each stimulation stage. (Please insert additional copies of this page for additional stages).			
Stage No.: 1	Stimulation Date: 5/19/11	Pump Rate: 69.3	
Pressure (psi): 6290	Shut-in Surface Pressure: 3362	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 407,186	Propping Agent Size: 100 Mesh 30/50 Mesh	
Stage No.: 2	Stimulation Date: 5/20/11	Pump Rate: 69.1	
Pressure (psi): 6056	Shut-in Surface Pressure: 3480	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 422,804	Propping Agent Size: 100 Mesh 30/50 Mesh	
Stage No.: 3	Stimulation Date: 5/20/11	Pump Rate: 70.1	
Pressure (psi): 6070	Shut-in Surface Pressure: 3491	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 407,998	Propping Agent Size: 100 Mesh 30/50 Mesh	
Stage No.: 4	Stimulation Date: 5/23/11	Pump Rate: 66.8	
Pressure (psi): 6150	Shut-in Surface Pressure: 3681	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 407,724	Propping Agent Size: 100 Mesh 30/50 Mesh	
Stage No.: 5	Stimulation Date: 5/23/11	Pump Rate: 70.	
Pressure (psi): 6131	Shut-in Surface Pressure: 3929	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 409,481	Propping Agent Size: 100 Mesh 30/50 Mesh	
Stage No.: 6	Stimulation Date: 5/24/11	Pump Rate: 68.2	
Pressure (psi): 5688	Shut-in Surface Pressure: 3635	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 411,987	Propping Agent Size: 100 Mesh 30/50 Mesh	
Stage No.: 7	Stimulation Date: 5/24/11	Pump Rate: 70.5	
Pressure (psi): 5983	Shut-in Surface Pressure: 3705	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 407335	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 Titan Wireline Services	
Address 16858 IH20	Address 200 Detroit Street	Address P.O. Box 286	
City - State - Zip Cisco, TX 76437	City - State - Zip Washington, PA	City - State - Zip Elderton, PA 15736	
Phone 817-850-1008	Phone 325-486-7489	Phone 724-354-4400	

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: 5/25/11	Pump Rate: 69.3
Pressure (psi): 6703	Shut-in Surface Pressure: 3811	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 406124	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 9	Stimulation Date: 5/25/11	Pump Rate: 69.1
Pressure (psi): 6094	Shut-in Surface Pressure: 3759	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 407,961	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 10	Stimulation Date: 5/25/11	Pump Rate: 68.3
Pressure (psi): 5735	Shut-in Surface Pressure: 3735	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 408,539	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 11	Stimulation Date: 5/26/11	Pump Rate: 69.4
Pressure (psi): 5355	Shut-in Surface Pressure: 3558	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 408,648	Propping Agent Size: 100 Mesh 30/50 Mesh

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: Mike Hurey	Reviewed by:	Date:
	Comments:	
Date: 6/14/11		



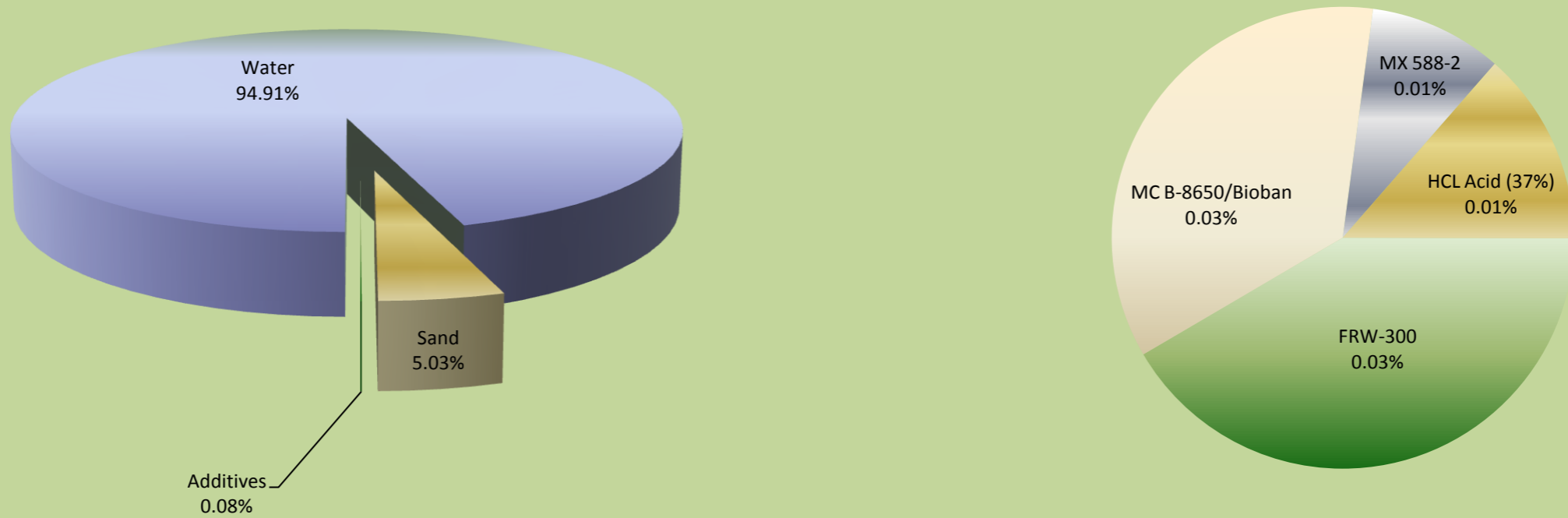
RANGE RESOURCES

Godwin Unit #2H
Well API: 37-125-233898

Completion Date: May 16 - 26, 2011
Township: Somerset

% 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	3,839,400 gal	94.89%	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	203,662 gal	5.03%	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	1,264 gal	0.03%	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	1,081 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	0,284 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)	0,414 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	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%	414.20	0.0102%	0.0041%
	CI-100	Corrosion Inhibitor	Methanol	67-56-1	Protects casing	95.0%	3.09	0.0001%	0.0001%
			Propargyl Alcohol	107-19-7	Protects casing	5.0%	0.13	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	
							TOTAL	0.0103%	0.0042%

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)	Bioban	Antibacterial Agent	4,4-Dimethyloxazolidine	51200-87-4	eliminates bacteria in water	78.0%	593.93	0.0147%	0.0136%
			3,4,4-Trimethyloxazolidine	75673-43-7		5.0%	38.88	0.0010%	0.0009%
			2-Amino-2-methyl-1-propanol	124-68-5		1.0%	8.15	0.0002%	0.0002%
			Formaldehyde Amine	56652-26-7		0.5%	3.55	0.0001%	0.0001%
	BMC B-8650	Antibacterial Agent	Glutaraldehyde	111-30-8	eliminates bacteria in water	50.0%	111.52	0.0028%	0.0038%
			Methanol	67-56-1		0.5%	1.12	0.0000%	0.0000%
							TOTAL	0.0187%	0.0186%

SUMMARY	by vol %	by weight %
	0.029%	0.023%