



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) 37-125-23892-00		Project Number	Acres 987
Address 380 Southpointe Blvd, Suite 300			Well Farm Name Drugmand		Well # 6H	Serial #
City Canonsburg	State PA	Zip Code 15317	County Washington		Municipality Mount Pleasant	
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 Co Pgh/McMurray Ft Cherry Rd				Source 13	2,052,624	
2.						
3.						
4.						
5.						
6.						
Recycled Water Used					1,706,250	
Other Base Fluid(s)/Components Used						
1.						
2.						
Total Base Fluid(s)/Components Used					3,758,874	
PERFORATION RECORD						
Stage No.	Perforation Date	Stage Perforated From	Stage Perforated To	Perf. Orientation (Vertical, Horizontal, Radial)	Formation	
1	3-12-2011	10,377'MD	10,183'MD	Horizontal	Marcellus Shale	
2	3-15-2011	10,086'MD	9,892'MD	Horizontal	Marcellus Shale	
3	3-15-2011	9,795'MD	9,601'MD	Horizontal	Marcellus Shale	
4	3-15-2011	9,504'MD	9,310'MD	Horizontal	Marcellus Shale	
5	3-16-2011	9,213'MD	9,019'MD	Horizontal	Marcellus Shale	
6	3-16-2011	8,922'MD	8,728'MD	Horizontal	Marcellus Shale	
7	3-17-2011	8,631'MD	8,437'MD	Horizontal	Marcellus Shale	
8	3-17-2011	8,340'MD	8,146'MD	Horizontal	Marcellus Shale	
9	3-18-2011	8,049'MD	7,855'MD	Horizontal	Marcellus Shale	
10	3-19-2011	7,758'MD	7,564'MD	Horizontal	Marcellus Shale	
11	3-21-2011	7,467'MD	7,273'MD	Horizontal	Marcellus Shale	
12	3-22-2011	7,176'MD	6,982'MD	Horizontal	Marcellus Shale	
13	3-22-2011	6,885'MD	6,691'MD	Horizontal	Marcellus Shale	

STIMULATION INFORMATION (WELL)			
Open Flow Production: Omc/d @ 24hrs pos treatment	24 Hr. Open Flow Production: Omc/d @ 24hrs pos treatment	24 Hr. Shut-in Pressure: N/A @ 24hrs post treatment	Flow Back Date:

STIMULATION INFORMATION (STAGE)

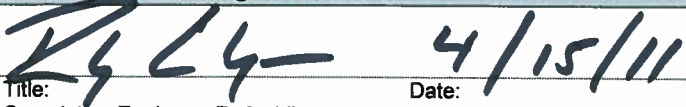
Complete a separate record for each stimulation stage. (Please insert additional copies of this page for additional stages).

Stage No.: 1	Stimulation Date: 3-15-2011	Pump Rate: 67.2
Pressure (psi): 7,885	Shut-in Surface Pressure: 3,383	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 301,561	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 2	Stimulation Date: 3-15-2011	Pump Rate: 69.6
Pressure (psi): 6,468	Shut-in Surface Pressure: 3,490	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 303,109	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 3	Stimulation Date: 3-15-2011	Pump Rate: 67.8
Pressure (psi): 6,908	Shut-in Surface Pressure: 3,529	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 301,539	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 4	Stimulation Date: 3-16-2011	Pump Rate: 70.8
Pressure (psi): 6,741	Shut-in Surface Pressure: 3,691	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 303,360	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 5	Stimulation Date: 3-16-2011	Pump Rate: 65.6
Pressure (psi): 7,307	Shut-in Surface Pressure: 3,793	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 316,327	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 6	Stimulation Date: 3-17-2011	Pump Rate: 70.5
Pressure (psi): 6,427	Shut-in Surface Pressure: 3,696	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 302,893	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 7	Stimulation Date: 3-17-2011	Pump Rate: 70.1
Pressure (psi): 6,683	Shut-in Surface Pressure: 3,731	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 300,546	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	Name	Name
Frac Tech	Multi-Chem	Universal Well Services
Address 16858 IH20	Address 200 Detroit Street	Address 730 Braddock View Drive
City - State - Zip Cisco, TX 76437	City - State - Zip Washington, PA	City - State - Zip Mt Braddock, PA 15465
Phone 817-850-1008	Phone 325-486-7489	Phone 724-430-6201

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: R. Archibeque Date: 4-15-2011	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).

Stage No.: 8	Stimulation Date: 3-17-2011	Pump Rate: 69.6
Pressure (psi): 6,583	Shut-in Surface Pressure: 3,798	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 301,117	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 9	Stimulation Date: 3-19-2011	Pump Rate: 69.7
Pressure (psi): 6,720	Shut-in Surface Pressure: 3,721	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 313,936	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 10	Stimulation Date: 3-21-2011	Pump Rate: 64.7
Pressure (psi): 6,313	Shut-in Surface Pressure: 3,768	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 301,463	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 11	Stimulation Date: 3-21-2011	Pump Rate: 69.9
Pressure (psi): 6,653	Shut-in Surface Pressure: 3,917	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 303,291	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 12	Stimulation Date: 3-22-2011	Pump Rate: 70.2
Pressure (psi): 6,890	Shut-in Surface Pressure: 3,905	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 302,183	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 13	Stimulation Date: 3-23-2011	Pump Rate: 70.5
Pressure (psi): 7,074	Shut-in Surface Pressure: 4,094	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 303,438	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 14	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: 100 Mesh 30/50 Mesh
Stage No.: 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: 100 Mesh 30/50 Mesh
Stage No.: 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: 100 Mesh 30/50 Mesh
Stage No.: 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: 100 Mesh 30/50 Mesh

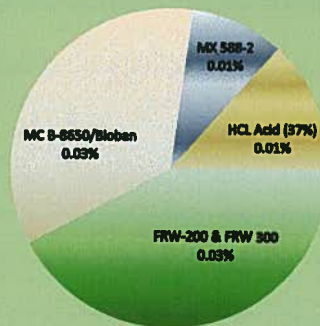
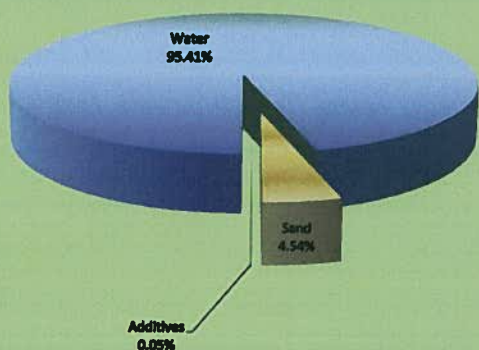


Drugmand Unit #6H
Well API: 37-125-23892

Completion Date: March 23rd, 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	3,756,899 gal	95.22%	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 8% of the fluid	178,755 gal	4.53%	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	1,278 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	1,062 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	0,285 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)	0,408 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%	407.82	0.0103%	0.0042%
	CI-100	Corrosion Inhibitor	Methanol	Protects casing	85.0%	22.21	0.0006%	0.0004%
			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	0.0109%	0.0048%
Friction Reducer (FracTech)	RW-200 & FRW 30	Friction Reducer	No hazardous ingredients	Reduce friction down casing	0.0%	N/A	N/A	N/A
Scale Inhibitor (Multichem)	MX 588-2	Scale Inhibitor	No hazardous ingredients	prevents scale deposits	0.0%	N/A	N/A	N/A
Antibacterial Agent (Multichem)	CS-1135	Antibacterial Agent	4,4-Dimethyloxazolidine	eliminates bacteria in water	78.0%	585.87	0.0148%	0.0139%
			3,4,4-Trimethyloxazolidine		5.0%	38.35	0.0010%	0.0009%
			2-Amino-2-methyl-1-propanol		1.0%	8.04	0.0002%	0.0002%
			Formaldehyde Amine		0.5%	3.50	0.0001%	0.0001%
	BMC B-8650	Antibacterial Agent	Glutaraldehyde	eliminates bacteria in water	50.0%	108.42	0.0027%	0.0038%
			Methanol		0.5%	1.08	0.0000%	0.0000%
						TOTAL	0.0189%	0.0189%
SUMMARY							by vol %	by weight %
							0.123%	0.110%