



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) 37-125-23920-00	Project Number	Acres 568.2147	
Address 380 Southpointe Blvd, Suite 300		Well Farm Name Hewitt, Douglas	Well # #7H	Serial #	
City Canonsburg	State PA	Zip Code 15317	County Washington	Municipality Donegal	
Phone 724-743-6700	Fax 724-743-6490	Email	USGS 7.5 min. quadrangle map West Middleton		

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. Buffalo Creek	Source 25	826,973
2. Ohio River	Source 19	560,000
3. PA American Water Company/Rt. 844 Near Breezy Heights Meter Vault	Source 6	504,418
4.		
5.		
6.		
Recycled Water Used		793,333
Other Base Fluid(s) Components Used		
1.		
2.		
Total Base Fluid(s)/Components Used		2,684,724

PERFORATION RECORD					
Stage No.	Perforation Date	Stage Perforated From	Stage Perforated To	Perf. Orientation (Vertical, Horizontal, Radial)	Formation
1	7/8/11	9507' MD	9309' MD	Horizontal	Marcellus Shale
2	7/21/11	9210' MD	9012' MD	Horizontal	Marcellus Shale
3	7/23/11	8913' MD	8715' MD	Horizontal	Marcellus Shale
4	7/25/11	8616' MD	8418' MD	Horizontal	Marcellus Shale
5	7/26/11	8319' MD	8121' MD	Horizontal	Marcellus Shale
6	7/28/11	8022' MD	7824' MD	Horizontal	Marcellus Shale
7	7/29/11	7725' MD	7527' MD	Horizontal	Marcellus Shale
8	7/29/11	7428' MD	7230' MD	Horizontal	Marcellus Shale
9	8/3/11	7131' MD	6933' MD	Horizontal	Marcellus Shale
10				Horizontal	Marcellus Shale
11				Horizontal	Marcellus Shale
12				Horizontal	Marcellus Shale

STIMULATION FLUID ADDITIVES

Note: Trade secret or confidential proprietary information should be clearly identified as such and should be submitted on a separate sheet attached to this report.

Descriptive Additive Type	Chemical Component(s) listed on Material Safety Data Sheet of the Additive	CAS No. of Chemical Component	Chemical Component % By Volume in Additive	Chemical Component % By Volume used in Each Stage						
				Stage No. 1	Stage No. 2	Stage No. 3	Stage No. 4	Stage No. 5	Stage No. 6	
FR-200W	N/A	N/A	N/A	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
FR-300W	N/A	N/A	N/A	0.0425%	0.0440%	0.0418%	0.0445%	0.0345%	0.0369%	0.0369%
MX 588-2	N/A	N/A	N/A	0.0070%	0.0072%	0.0069%	0.0067%	0.0072%	0.0065%	0.0065%
NE100	N/A	N/A	N/A	0.0003%	0.0003%	0.0003%	0.0003%	0.0003%	0.0003%	0.0003%
FE100L	N/A	N/A	N/A	0.0010%	0.0010%	0.0009%	0.0010%	0.0010%	0.0009%	0.0009%
37% HCL	HCL	7647-01-0	37.0%	0.0566%	0.0577%	0.0530%	0.0564%	0.0582%	0.0545%	0.0545%
CI-100	Methanol	67-56-1	92.5%	0.0006%	0.0006%	0.0006%	0.0006%	0.0006%	0.0006%	0.0006%
CI-100	Propargyl Alcohol	107-19-7	4.4%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
BMC B-8650	Glutaraldehyde	111-30-8	48.8%	0.0037%	0.0037%	0.0036%	0.0036%	0.0037%	0.0035%	0.0035%
BMC B-8650	Methanol	67-56-1	0.7%	0.0001%	0.0001%	0.0001%	0.0001%	0.0001%	0.0000%	0.0000%
CS-1135	4,4-Dimethyloxazolidine	51200-87-4	76.5%	0.0149%	0.0147%	0.0146%	0.0146%	0.0146%	0.0143%	0.0143%
CS-1135	3,4,4-Trimethyloxazolidine	75673-43-7	5.0%	0.0010%	0.0010%	0.0010%	0.0010%	0.0010%	0.0009%	0.0009%
CS-1135	2-Amino-2-methyl-1-propanol	124-68-5	1.0%	0.0002%	0.0002%	0.0002%	0.0002%	0.0002%	0.0002%	0.0002%
CS-1135	Formaldehyde Amine	56652-26-7	0.5%	0.0001%	0.0001%	0.0001%	0.0001%	0.0001%	0.0001%	0.0001%

Please insert additional copies of this page if additional rows/stages are needed.

STIMULATION FLUID ADDITIVES-Continued									
Descriptive Additive Type	Chemical Component(s) listed on Material Safety Sheet of the Additive	CAS No. of Chemical Component	Chemical Component % By Volume in Additive	Chemical Component % By Volume used in Each Stage					
				Stage No. 7	Stage No. 8	Stage No. 9			
FR-200W	N/A	N/A	N/A	0.0000%	0.0000%	0.0000%			
FR-300W	N/A	N/A	N/A	0.0382%	0.0334%	0.0328%			
MX 588-2	N/A	N/A	N/A	0.0068%	0.0070%	0.0070%			
NE100	N/A	N/A	N/A	0.0003%	0.0003%	0.0003%			
FE100L	N/A	N/A	N/A	0.0010%	0.0010%	0.0010%			
37% HCL	HCL	7647-01-0	37%	0.0600%	0.0564%	0.0592%			
CI-100	Methanol	67-56-1	93%	0.0006%	0.0006%	0.0006%			
CI-100	Propargyl Alcohol	107-19-7	4%	0.0000%	0.0000%	0.0000%			
BMC B-8650	Glutaraldehyde	111-30-8	49%	0.0036%	0.0037%	0.0036%			
BMC B-8650	Methanol	67-56-1	1%	0.0001%	0.0001%	0.0001%			
CS-1135	4,4-Dimethyloxazolidine	51200-87-4	77%	0.0145%	0.0148%	0.0146%			
CS-1135	3,4,4-Trimethyloxazolodine	75673-43-7	5%	0.0009%	0.0010%	0.0010%			
CS-1135	2-Amino-2-methyl-1-propanol	124-68-5	1%	0.0002%	0.0002%	0.0002%			
CS-1135	Formaldehyde Amine	56652-26-7	0%	0.0001%	0.0001%	0.0001%			

Please insert additional copies of this page if additional rows/stages are needed.

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:
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: 7/21/11	Pump Rate: 66.3	
Pressure (psi): 6836	Shut-in Surface Pressure: 3234	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 304,401	Propping Agent Size: 100 Mesh 30/50 Mesh	
Stage No.: 2	Stimulation Date: 7/23/11	Pump Rate: 68.7	
Pressure (psi): 6288	Shut-in Surface Pressure: 3375	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 303,686	Propping Agent Size: 100 Mesh 30/50 Mesh	
Stage No.: 3	Stimulation Date: 7/25/11	Pump Rate: 68.5	
Pressure (psi): 6397	Shut-in Surface Pressure: 3428	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 300,067	Propping Agent Size: 100 Mesh 30/50 Mesh	
Stage No.: 4	Stimulation Date: 7/26/11	Pump Rate: 69	
Pressure (psi): 6133	Shut-in Surface Pressure: 3798	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 310,275	Propping Agent Size: 100 Mesh 30/50 Mesh	
Stage No.: 5	Stimulation Date: 7/28/11	Pump Rate: 69.4	
Pressure (psi): 6404	Shut-in Surface Pressure: 3710	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 301,515	Propping Agent Size: 100 Mesh 30/50 Mesh	
Stage No.: 6	Stimulation Date: 7/28/11	Pump Rate: 57.6	
Pressure (psi): 6163	Shut-in Surface Pressure: 3757	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 302,721	Propping Agent Size: 100 Mesh 30/50 Mesh	
Stage No.: 7	Stimulation Date: 7/29/11	Pump Rate: 66.1	
Pressure (psi): 6053	Shut-in Surface Pressure: 3979	5 Minute Shut-in Surface Pressure: N/A	
Propping Agent Type: Sand	Propping Agent Amount: 305,148	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 Renegade Wireline Services	
Address 16858 IH20	Address 200 Detroit Street	Address PO Box 852	
City - State - Zip Cisco, TX 76437	City - State - Zip Washington, PA	City - State - Zip Levelland, TX 79336	
Phone 817-850-1008	Phone 325-486-7489	Phone 337/552-8401	
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: Brad Wernicki Date: 8/30/2011		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: 8/3/11	Pump Rate: 68.5
Pressure (psi): 6132	Shut-in Surface Pressure: 3786	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 302,933	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 9	Stimulation Date: 8/4/11	Pump Rate: 69.2
Pressure (psi): 6278	Shut-in Surface Pressure: 4000	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 303,628	Propping Agent Size: 100 Mesh 30/50 Mesh



RANGE RESOURCES

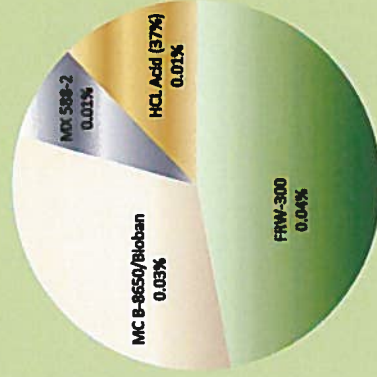
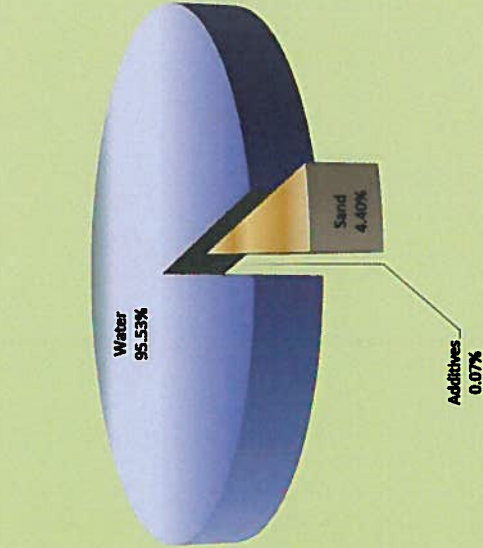
Hewitt, Douglas Unit #7H
Well API: 37-125-23920

Completion Date: July 14th, 2011
Township: Donegal

% 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	2,683,159 gal	95.52 %	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	123,594 gal	4.40%	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	1,089 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	0,746 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	0,194 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)	0,286 gal	0.01%	Swimming pool and household cleaner

Composition of Hydraulic Fracture Fluid (by volume)





RANGE RESOURCES

Composition of Components in Marcellus Shale Hydraulic Fracturing Fluid

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%	285.53	0.0102%	0.0042%	
	CI-100	Corrosion Inhibitor	Methanol	67-56-1	Protects casing	95.0%	18.57	0.0007%	0.0005%	
	NE100	Non- Emulsifier	Propargyl Alcohol	107-19-7	Protects casing	5.0%	0.80	0.0000%	0.0000%	
	FE100L	Iron Chelator	No hazardous ingredients	N/A	Prevents emulsions	0.0%	N/A	N/A	N/A	
							TOTAL	N/A	0.0109%	0.0047%

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)	Supplier	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						
	Bioban	Antibacterial Agent	4,4-Dimethyloxazolidine 3,4,4-Trimethyloxazolidine 2-Amino-2-methyl-1-propanol	51200-87-4 75673-43-7 124-68-5	eliminates bacteria in water	78.0% 5.0% 1.0%	409.87 26.83 5.62	0.0146% 0.0010% 0.0002%	0.0137% 0.0009% 0.0002%						
										Formaldehyde Amine	56652-26-7	0.5%	2.45	0.0001% 0.0001%	
															Glutaraldehyde Methanol
										TOTAL	0.0186%	0.0187%			

SUMMARY	by vol %	0.029%
	by weight %	0.023%