



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) 37-125-24207-00	Project Number	Acres 744.5766	
Address 380 Southpointe Blvd, Suite 300		Well Farm Name Day L & L	Well # 1H	Serial #	
City Canonsburg	State PA	Zip Code 15317	County Washington	Municipality Amwell	
Phone 724-743-6700	Fax 724-743-6490	Email	USGS 7.5 min. quadrangle map Amity		
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.		
2.		
3.		
4.		
5.		
6.		
Recycled Water Used		2,596,902
Other Base Fluid(s)/Components Used		
1.		
2.		
Total Base Fluid(s)/Components Used		2,596,902 gallons

PERFORATION RECORD					
Stage No.	Perforation Date	Stage Perforated From	Stage Perforated To	Perf. Orientation (Vertical, Horizontal, Radial)	Formation
1	4/26/11	10,552'MD	10,358'MD	Horizontal	Marcellus Shale
2	5/17/11	10261'MD	10067'MD	Horizontal	Marcellus Shale
3	5/18/11	9970'MD	9776'MD	Horizontal	Marcellus Shale
4	5/19/11	9679'MD	9485'MD	Horizontal	Marcellus Shale
5	5/19/11	9388'MD	9194'MD	Horizontal	Marcellus Shale
6	5/20/11	9097'MD	8903'MD	Horizontal	Marcellus Shale
7	5/20/11	8806'MD	8612'MD	Horizontal	Marcellus Shale
8	5/23/11	8515'MD	8321'MD	Horizontal	Marcellus Shale
9	5/23/11	8224'MD	8030'MD	Horizontal	Marcellus Shale
10					
11					
12					

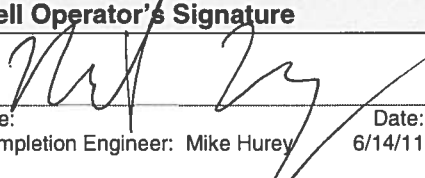
STIMULATION INFORMATION (WELL)

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: 6/3/11
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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: 5/17/11	Pump Rate: 54.0
Pressure (psi): 8733	Shut-in Surface Pressure: 5981	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 304,337	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 2	Stimulation Date: 5/17/11	Pump Rate: 60.2
Pressure (psi): 8660	Shut-in Surface Pressure: 5838	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 302,194	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 3	Stimulation Date: 5/18/11	Pump Rate: 63.3
Pressure (psi): 8534	Shut-in Surface Pressure: 4762	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 301,395	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 4	Stimulation Date: 5/19/11	Pump Rate: 63.7
Pressure (psi): 8742	Shut-in Surface Pressure: 4685	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 303,260	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 5	Stimulation Date: 5/20/11	Pump Rate: 67.3
Pressure (psi): 8943	Shut-in Surface Pressure: 5635	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 307,126	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 6	Stimulation Date: 5/20/11	Pump Rate: 65.9
Pressure (psi): 8931	Shut-in Surface Pressure: 4986	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 306,332	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 7	Stimulation Date: 5/23/11	Pump Rate: 69.8
Pressure (psi): 8053	Shut-in Surface Pressure: 5035	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 305,615	Propping Agent Size: 100 Mesh 30/50 Mesh
Stage No.: 8	Stimulation Date: 5/23/11	Pump Rate: 68.2
Pressure (psi): 7445	Shut-in Surface Pressure: 4191	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 300,634	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.: 9	Stimulation Date: 5/24/11	Pump Rate: 69.0
Pressure (psi): 7615	Shut-in Surface Pressure: 4198	5 Minute Shut-in Surface Pressure: N/A
Propping Agent Type: Sand	Propping Agent Amount: 302,158	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 Casedhole Solutions
Address 16858 IH20	Address 200 Detroit Street	Address P.O. Box 267
City - State- Zip Cisco, TX 76437	City - State - Zip Washington, PA	City - State - Zip Weatherford, Ok 73096
Phone 817-850-1008	Phone 325-486-7489	Phone 580-772-3100
<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: Mike Hurey	Reviewed by:	Date:
	Comments:	
Date: 6/14/11		

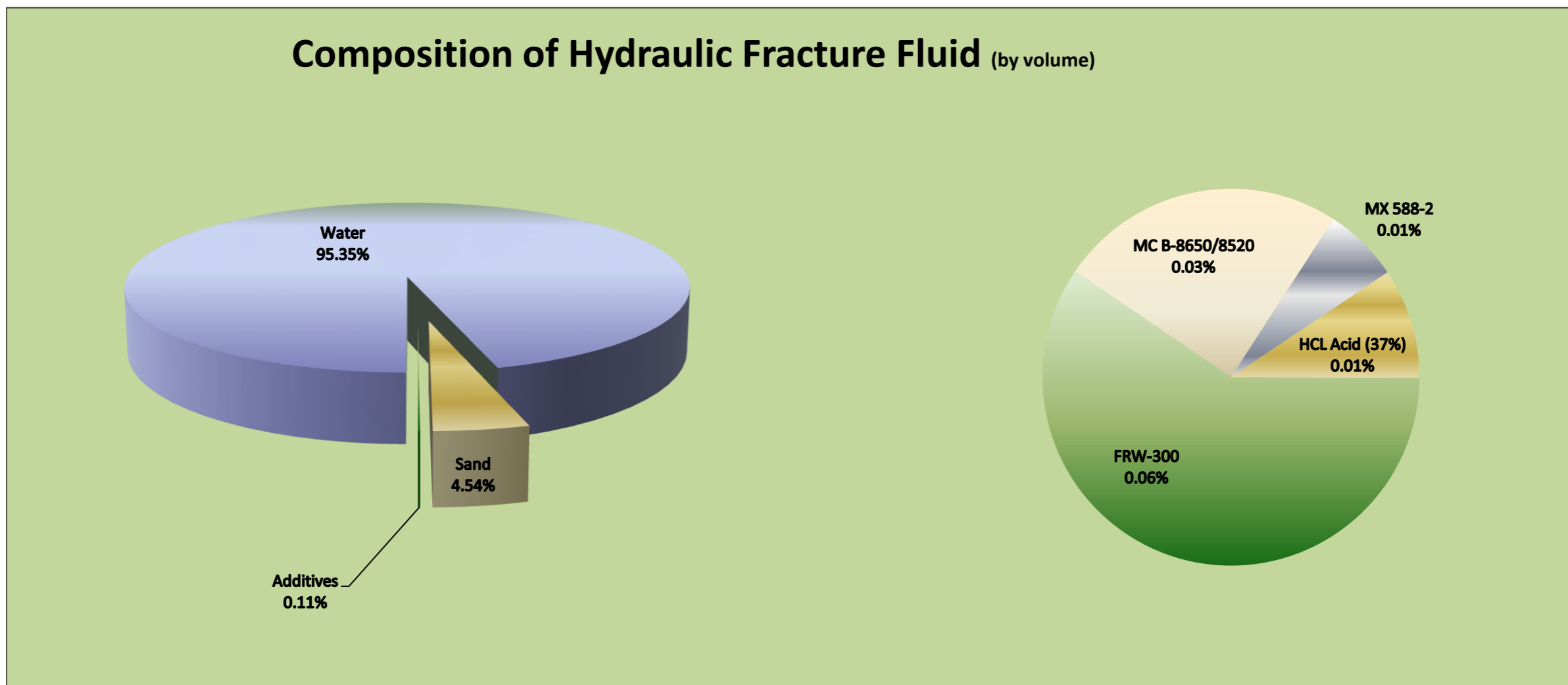


RANGE RESOURCES

Day, L&L Unit #1H
Well API: 37-125-24207

Completion Date: May 18 - 24, 2011
Township: Amwell

% 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	2,594,679 gal	95.35%	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	123,534 gal	4.54%	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	1,760 gal	0.06%	Water treatment; soil conditioner; some children's toys
MC B-8650/8520	Antimicrobial Agent	Eliminates bacteria in the water that produce corrosive byproducts	Diluted at one-half gallon per 1,000 gallons of water	730 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	191 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)	280 gal	0.01%	Swimming pool and household cleaner





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%	279.68	0.0103%	0.0042%
	CI-100	Corrosion Inhibitor	Methanol	Protects casing	95.0%	21.66	0.0008%	0.0006%
			Propargyl Alcohol	Protects casing	5.0%	0.93	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	N/A
TOTAL							0.0111%	0.0048%

Friction Reducer (FracTech)	FRW-300	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)	Bioban	Antibacterial Agent	4,4-Dimethyloxazolidine	eliminates bacteria in water	78.0%	401.08	0.0147%	0.0138%
			3,4,4-Trimethyloxazolodine		5.0%	26.25	0.0010%	0.0009%
			2-Amino-2-methyl-1-propanol		1.0%	5.50	0.0002%	0.0002%
			Formaldehyde Amine		0.5%	2.39	0.0001%	0.0001%
	BMC B-8650	Antibacterial Agent	Glutaraldehyde	eliminates bacteria in water	50.0%	75.31	0.0028%	0.0039%
			Methanol		0.5%	0.75	0.0000%	0.0000%
TOTAL							0.0188%	0.0188%

SUMMARY	by vol %	by weight %
	0.030%	0.024%