



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) 37-125-23993 | Project Number | Acres 475 | |
| Address 380 Southpointe Blvd, Suite 300 | | Well Farm Name Weimer Lillian Unit | Well # 5H | Serial # | |
| City Canonsburg | State PA | Zip Code 15317 | County Washington | Municipality Chartiers | |
| Phone 724-743-6700 | Fax 724-743-6490 | Email | | USGS 7.5 min. quadrangle map Washington West | |
| 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/Old Hickory Ridge Rd Meter Vault | Source 7 | 1,494,419 |
| 2. PA American Water Co/Arden Rd Meter Vault | Source 18 | 266,074 |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| Recycled Water Used | | 3,129,777 |
| Other Base Fluid(s)/Components Used | | |
| 1. | | |
| 2. | | |
| Total Base Fluid(s)/Components Used | | |

| PERFORATION RECORD | | | | | |
|--------------------|------------------|-----------------------|---------------------|---|-----------------|
| Stage No. | Perforation Date | Stage Perforated From | Stage Perforated To | Perf. Orientation (Vertical, Horizontal, Radial) | Formation |
| 1 | 4/18/11 | 11,950'MD | 11,760'MD | Horizontal | Marcellus Shale |
| 2 | 4/18/11 | 11,666'MD | 11,476'MD | Horizontal | Marcellus Shale |
| 3 | 4/18/11 | 11,382'MD | 11,092'MD | Horizontal | Marcellus Shale |
| 4 | 4/25/11 | 10,998'MD | 10,858'MD | Horizontal | Marcellus Shale |
| 5 | 4/25/11 | 10,764'MD | 10,624'MD | Horizontal | Marcellus Shale |
| 6 | 4/25/11 | 10,530'MD | 10,340'MD | Horizontal | Marcellus Shale |
| 7 | 4/26/11 | 10,246'MD | 10,056'MD | Horizontal | Marcellus Shale |
| 8 | 4/26/11 | 9,962'MD | 9,772'MD | Horizontal | Marcellus Shale |
| 9 | 4/26/11 | 9,678'MD | 9,488'MD | Horizontal | Marcellus Shale |
| 10 | 4/27/11 | 9,394'MD | 9,204'MD | Horizontal | Marcellus Shale |
| 11 | 4/27/11 | 9,110'MD | 8,920'MD | Horizontal | Marcellus Shale |
| 12 | 4/27/11 | 8,826'MD | 8,636'MD | Horizontal | Marcellus Shale |
| 13 | 4/27/11 | 8,542'MD | 8,352'MD | Horizontal | Marcellus Shale |

| | | | | | |
|----|---------|----------|----------|------------|-----------------|
| 14 | 4/27/11 | 8,258'MD | 8,068'MD | Horizontal | Marcellus Shale |
| 15 | 4/28/11 | 7,974'MD | 7,784'MD | 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 | 0.0613% | 0.0390% | 0.0730% | 0.0655% | 0.0514% | 0.0323% | 0.0323% |
| MX 588-2 | N/A | N/A | N/A | 0.0073% | 0.0072% | 0.0074% | 0.0072% | 0.0070% | 0.0070% | 0.0070% |
| NE100 | N/A | N/A | N/A | 0.0003% | 0.0003% | 0.0005% | 0.0003% | 0.0003% | 0.0003% | 0.0003% |
| FE100L | N/A | N/A | N/A | 0.0008% | 0.0009% | 0.0016% | 0.0008% | 0.0010% | 0.0009% | 0.0009% |
| 37% HCL | HCL | 7647-01-0 | 37.0% | 0.0445% | 0.0532% | 0.0941% | 0.0474% | 0.0563% | 0.0520% | 0.0520% |
| CI-100 | Methanol | 67-56-1 | 92.5% | 0.0005% | 0.0006% | 0.0010% | 0.0005% | 0.0006% | 0.0005% | 0.0005% |
| 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% | 0.0083% | 0.0053% | 0.0099% | 0.0089% | 0.0070% | 0.0044% | 0.0044% |
| BMC B-8650 | Methanol | 67-56-1 | 0.7% | 0.0001% | 0.0001% | 0.0001% | 0.0001% | 0.0001% | 0.0001% | 0.0001% |
| CS-1135 | 4,4-Dimethylloxazolidine | 51200-87-4 | 76.5% | 0.0339% | 0.0216% | 0.0404% | 0.0362% | 0.0284% | 0.0178% | 0.0178% |
| CS-1135 | 3,4,4-Trimethylloxazolidine | 75673-43-7 | 5.0% | 0.0022% | 0.0014% | 0.0026% | 0.0024% | 0.0019% | 0.0012% | 0.0012% |
| CS-1135 | 2-Amino-2-methyl-1-propanol | 124-68-5 | 1.0% | 0.0005% | 0.0003% | 0.0006% | 0.0005% | 0.0004% | 0.0002% | 0.0002% |
| CS-1135 | Formaldehyde Amine | 56652-26-7 | 0.5% | 0.0002% | 0.0001% | 0.0002% | 0.0002% | 0.0002% | 0.0001% | 0.0001% |
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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 | Stage No. 10 | Stage No. 11 | Stage No. 12 | | |
| FR-200W | N/A | N/A | N/A | 0.0000% | 0.0000% | 0.0000% | 0.0000% | 0.0000% | 0.0000% | 0.0000% | 0.0000% |
| FR-300W | N/A | N/A | N/A | 0.0484% | 0.0437% | 0.0511% | 0.0459% | 0.0464% | 0.0345% | | |
| MX 588-2 | N/A | N/A | N/A | 0.0072% | 0.0071% | 0.0069% | 0.0072% | 0.0072% | 0.0068% | | |
| 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 | 0.0009% | 0.0009% | 0.0009% | 0.0009% | 0.0009% | 0.0009% | 0.0009% | |
| 37% HCL | HCL | 7647-01-0 | 37% | 0.0514% | 0.0546% | 0.0509% | 0.0528% | 0.0531% | 0.0552% | | |
| CI-100 | Methanol | 67-56-1 | 93% | 0.0005% | 0.0006% | 0.0005% | 0.0006% | 0.0006% | 0.0006% | 0.0006% | |
| CI-100 | Propargyl Alcohol | 107-19-7 | 4% | 0.0000% | 0.0000% | 0.0000% | 0.0000% | 0.0000% | 0.0000% | 0.0000% | |
| BMC B-8650 | Glutaraldehyde | 111-30-8 | 49% | 0.0066% | 0.0059% | 0.0069% | 0.0062% | 0.0063% | 0.0047% | | |
| BMC B-8650 | Methanol | 67-56-1 | 1% | 0.0001% | 0.0001% | 0.0001% | 0.0001% | 0.0001% | 0.0001% | 0.0001% | |
| CS-1135 | 4,4-Dimethyloxazolidine | 51200-87-4 | 77% | 0.0267% | 0.0242% | 0.0282% | 0.0254% | 0.0256% | 0.0191% | | |
| CS-1135 | 3,4,4-Trimethyloxazolidine | 75673-43-7 | 5% | 0.0017% | 0.0016% | 0.0018% | 0.0017% | 0.0017% | 0.0012% | | |
| CS-1135 | 2-Amino-2-methyl-1-propanol | 124-68-5 | 1% | 0.0004% | 0.0003% | 0.0004% | 0.0003% | 0.0004% | 0.0003% | 0.0003% | |
| CS-1135 | Formaldehyde Amine | 56652-26-7 | 0% | 0.0002% | 0.0001% | 0.0002% | 0.0002% | 0.0002% | 0.0001% | 0.0001% | |
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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 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. 13 | Stage No. 14 | Stage No. 15 |
| FR-200W | N/A | N/A | N/A | 0.0000% | 0.0000% | 0.0000% |
| FR-300W | N/A | N/A | N/A | 0.0364% | 0.0466% | 0.0305% |
| MX 588-2 | N/A | N/A | N/A | 0.0065% | 0.0067% | 0.0069% |
| NE100 | N/A | N/A | N/A | 0.0003% | 0.0003% | 0.0003% |
| FE100L | N/A | N/A | N/A | 0.0009% | 0.0010% | 0.0009% |
| 37% HCL | HCL | 7647-01-0 | 37% | 0.0551% | 0.0570% | 0.0552% |
| 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% | 0.0049% | 0.0063% | 0.0041% |
| BMC B-8650 | Methanol | 67-56-1 | 1% | 0.0001% | 0.0001% | 0.0001% |
| CS-1135 | 4,4-Dimethyloxazolidine | 51200-87-4 | 77% | 0.0201% | 0.0258% | 0.0169% |
| CS-1135 | 3,4,4-Trimethyloxazolodine | 75673-43-7 | 5% | 0.0013% | 0.0017% | 0.0011% |
| CS-1135 | 2-Amino-2-methyl-1-propanol | 124-68-5 | 1% | 0.0003% | 0.0004% | 0.0002% |
| CS-1135 | Formaldehyde Amine | 56652-26-7 | 0% | 0.0001% | 0.0002% | 0.0001% |

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

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: |
|---|--|--|-----------------|

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: 4/18/11 | Pump Rate: 53.2 |
| Pressure (psi): 8,051 | Shut-in Surface Pressure: 3,242 | 5 Minute Shut-in Surface Pressure: N/A |
| Propping Agent Type: Sand | Propping Agent Amount: 323,004 | Propping Agent Size: 100 Mesh 30/50 Mesh |
| Stage No.: 2 | Stimulation Date: 4/18/11 | Pump Rate: 68.7 |
| Pressure (psi): 7,900 | Shut-in Surface Pressure: 3,641 | 5 Minute Shut-in Surface Pressure: N/A |
| Propping Agent Type: Sand | Propping Agent Amount: 308,025 | Propping Agent Size: 100 Mesh 30/50 Mesh |
| Stage No.: 3 | Stimulation Date: 4/19/11 | Pump Rate: 62.0 |
| Pressure (psi): 8,275 | Shut-in Surface Pressure: 3,785 | 5 Minute Shut-in Surface Pressure: N/A |
| Propping Agent Type: Sand | Propping Agent Amount: 309,867 | Propping Agent Size: 100 Mesh 30/50 Mesh |
| Stage No.: 4 | Stimulation Date: 4/25/11 | Pump Rate: 54.1 |
| Pressure (psi): 7,683 | Shut-in Surface Pressure: 3,798 | 5 Minute Shut-in Surface Pressure: N/A |
| Propping Agent Type: Sand | Propping Agent Amount: 307,692 | Propping Agent Size: 100 Mesh 30/50 Mesh |
| Stage No.: 5 | Stimulation Date: 4/25/11 | Pump Rate: 68.3 |
| Pressure (psi): 8,468 | Shut-in Surface Pressure: 4,068 | 5 Minute Shut-in Surface Pressure: N/A |
| Propping Agent Type: Sand | Propping Agent Amount: 307,517 | Propping Agent Size: 100 Mesh 30/50 Mesh |
| Stage No.: 6 | Stimulation Date: 4/26/11 | Pump Rate: 70.2 |
| Pressure (psi): 8,031 | Shut-in Surface Pressure: 3,933 | 5 Minute Shut-in Surface Pressure: N/A |
| Propping Agent Type: Sand | Propping Agent Amount: 310,400 | Propping Agent Size: 100 Mesh 30/50 Mesh |
| Stage No.: 7 | Stimulation Date: 4/26/11 | Pump Rate: 65.3 |
| Pressure (psi): 8,604 | Shut-in Surface Pressure: 3,933 | 5 Minute Shut-in Surface Pressure: N/A |
| Propping Agent Type: Sand | Propping Agent Amount: 314,001 | 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 Servi ces |
| Address 16858 IH20 | Address 200 Detroit Street | Address 730 Braddock View Drive |
| City - State - Zip Ciscok, 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 | |
|  | Reviewed by: | | Date: |
| Title: Completion Engineer: M. Ockree | Date: 5/11/11 | 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: 4/26/11 | Pump Rate: 70.5 |
| Pressure (psi): 8,246 | Shut-in Surface Pressure: 3,985 | 5 Minute Shut-in Surface Pressure: N/A |
| Propping Agent Type: Sand | Propping Agent Amount: 308,325 | Propping Agent Size: 100 Mesh 30/50 Mesh |
| Stage No.: 9 | Stimulation Date: 4/26/11 | Pump Rate: 62.6 |
| Pressure (psi): 7,554 | Shut-in Surface Pressure: 3,950 | 5 Minute Shut-in Surface Pressure: N/A |
| Propping Agent Type: Sand | Propping Agent Amount: 308,971 | Propping Agent Size: 100 Mesh 30/50 Mesh |
| Stage No.: 10 | Stimulation Date: 4/27/11 | Pump Rate: 69.8 |
| Pressure (psi): 7,888 | Shut-in Surface Pressure: 4,050 | 5 Minute Shut-in Surface Pressure: N/A |
| Propping Agent Type: Sand | Propping Agent Amount: 309,600 | Propping Agent Size: 100 Mesh 30/50 Mesh |
| Stage No.: 11 | Stimulation Date: 4/27/11 | Pump Rate: 66.6 |
| Pressure (psi): 7,197 | Shut-in Surface Pressure: 3,893 | 5 Minute Shut-in Surface Pressure: N/A |
| Propping Agent Type: Sand | Propping Agent Amount: 311,356 | Propping Agent Size: 100 Mesh 30/50 Mesh |
| Stage No.: 12 | Stimulation Date: 4/27/11 | Pump Rate: 68.3 |
| Pressure (psi): 7,444 | Shut-in Surface Pressure: 3,890 | 5 Minute Shut-in Surface Pressure: N/A |
| Propping Agent Type: Sand | Propping Agent Amount: 315,814 | Propping Agent Size: 100 Mesh 30/50 Mesh |
| Stage No.: 13 | Stimulation Date: 4/27/11 | Pump Rate: 68.3 |
| Pressure (psi): 8,109 | Shut-in Surface Pressure: 3,905 | 5 Minute Shut-in Surface Pressure: N/A |
| Propping Agent Type: Sand | Propping Agent Amount: 310,748 | Propping Agent Size: 100 Mesh 30/50 Mesh |
| Stage No.: 14 | Stimulation Date: 4/27/11 | Pump Rate: 69.3 |
| Pressure (psi): 7,849 | Shut-in Surface Pressure: 4,077 | 5 Minute Shut-in Surface Pressure: N/A |
| Propping Agent Type: Sand | Propping Agent Amount: 308,630 | Propping Agent Size: 100 Mesh 30/50 Mesh |
| Stage No.: 15 | Stimulation Date: 4/28/11 | Pump Rate: 70.2 |
| Pressure (psi): 7,685 | Shut-in Surface Pressure: 4,017 | 5 Minute Shut-in Surface Pressure: N/A |
| Propping Agent Type: Sand | Propping Agent Amount: 309,836 | Propping Agent Size: 100 Mesh 30/50 Mesh |



Weimer, Lillian Unit #5H
Well API: 37-125-23993

Completion Date: April 13, 2011
Township: Chartiers

| % 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 | 4,883,279 gal | 95.73% | 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 | 210,803 gal | 4.13% | 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 | 2,433 gal | 0.05% | 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 | 1,359 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 | 0,360 gal | 0.01% | Water treatment, household cleaners, deicing agent |
| HCL Acid (37%) | Perf Clean-Up | Dissolves cement and minerals to help initiate fractures | 177 gallons per stage if required (non-diluted chemicals) | 2,836 gal | 0.06% | 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% | 2835.79 | 0.0556% | 0.0228% |
| | CI-100 | Corrosion Inhibitor | Methanol | Protects casing | 95.0% | 33.01 | 0.0006% | 0.0005% |
| | | | Propargyl Alcohol | Protects casing | 5.0% | 1.42 | 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 | | | | | | | 0.0563% | 0.0233% |
| Friction Reducer (FracTech) | FRW-300 | 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) | Bioban | Antibacterial Agent | 4,4-Dimethyloxazolidine | eliminates bacteria in water | 78.0% | 746.67 | 0.0146% | 0.0138% |
| | | | 3,4,4-Trimethyloxazolidine | | 5.0% | 48.88 | 0.0010% | 0.0009% |
| | | | 2-Amino-2-methyl-1-propanol | | 1.0% | 10.24 | 0.0002% | 0.0002% |
| | | | Formaldehyde Amine | | 0.5% | 4.46 | 0.0001% | 0.0001% |
| | BMC B-8650 | Antibacterial Agent | Glutaraldehyde | eliminates bacteria in water | 50.0% | 140.20 | 0.0027% | 0.0039% |
| | | | Methanol | | 0.5% | 1.40 | 0.0000% | 0.0000% |
| TOTAL | | | | | | | 0.0187% | 0.0188% |
| SUMMARY | | | | | | | by vol % | by weight % |
| | | | | | | | 0.075% | 0.042% |