



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 - 081-20235- -	Project Number	Acres 4599	
Address 100 Throckmorton St., Suite 1200		Well Farm Name Ogontz Fishing Club Unit	Well # 12H	Serial #	
City Fort Worth	State TX	Zip Code 76102	County Lycoming	Municipality Cummings	
Phone 817 869-4158	Fax 817 869-1458	Email mdennis@rangeresources.com	USGS 7.5 min. quadrangle map Waterville		
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. Montoursville Borough (Howard Ave and Pool Road)	PADWIS ID# 4175501	612,289
2. Williamsport Water Authority @ Sanitary Plant	PADWIS ID# 4189510	213,148
3. LHP Management @ Fishing Creek	SRBC Docket # 20090906	137,174
4. Jersey Shore @ Larrys Creek	PADWIS ID# 4410166	892,172
5. Justus Creek	DEP WMP File# 141142-6	40,763
6. Anadarko- Larrys Creek Impoundment Overflow		144,937
<b>Recycled Water Used</b>		<b>0</b>
<b>Other Bass Fluid(s)Components Used</b>		
1. Rainwater in Impoundment		185,685
2.		
<b>Total Base Fluid(s)/Components Used</b>		<b>2,226,168 gallons</b>

PERFORATION RECORD					
Stage No.	Perforation Date	Stage Perforated From	Stage Perforated To	Perf. Orientation (Vertical, Horizontal, Radial)	Formation
1	6/25/2011	11405'MD	11225'MD	Horizontal	Marcellus Shale
2	7/10/2011	11,140'MD	10,960'MD	Horizontal	Marcellus Shale
3	7/11/2011	10,875'MD	10,695'MD	Horizontal	Marcellus Shale
4	7/13/2011	10,610'MD	10,430'MD	Horizontal	Marcellus Shale
5	7/14/2011	10,345'MD	10,165'MD	Horizontal	Marcellus Shale
6	7/14/2011	10,080'MD	9,900'MD	Horizontal	Marcellus Shale
7	7/14/2011	9,815'MD	9,635'MD	Horizontal	Marcellus Shale
8	7/15/2011	9,550'MD	9,370'MD	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: 7/26/2011

**STIMULATION INFORMATION (STAGE)**

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

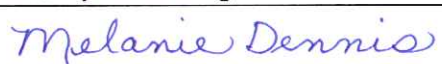
<b>Stage No.:</b> 1	Stimulation Date: 07/10/2011	Pump Rate: 70.4
Pressure (psi): 8,127	Shut-in Surface Pressure: 6,449	5 Minute Shut-in Surface Pressure: NA
Propping Agent Type: Sand	Propping Agent Amount: 299,765	Propping Agent Size: 100 mesh/30-50 Mesh
<b>Stage No.:</b> 2	Stimulation Date: 7/11/2011	Pump Rate: 70.2
Pressure (psi): 7,899	Shut-in Surface Pressure: 8,718	5 Minute Shut-in Surface Pressure: NA
Propping Agent Type: Sand	Propping Agent Amount: 193,847	Propping Agent Size: 100 mesh/30-50 Mesh
<b>Stage No.:</b> 3	Stimulation Date: 7/13/2011	Pump Rate: 70.7
Pressure (psi): 7,861	Shut-in Surface Pressure: 6,400	5 Minute Shut-in Surface Pressure: NA
Propping Agent Type: Sand	Propping Agent Amount: 300,008	Propping Agent Size: 100 mesh/30-50 Mesh
<b>Stage No.:</b> 4	Stimulation Date: 7/14/2011	Pump Rate: 70.5
Pressure (psi): 7,721	Shut-in Surface Pressure: 6,238	5 Minute Shut-in Surface Pressure: NA
Propping Agent Type: Sand	Propping Agent Amount: 301,603	Propping Agent Size: 100 mesh/30-50 Mesh
<b>Stage No.:</b> 5	Stimulation Date: 7/14/2011	Pump Rate: 70.5
Pressure (psi): 7,867	Shut-in Surface Pressure: 6,533	5 Minute Shut-in Surface Pressure: NA
Propping Agent Type: Sand	Propping Agent Amount: 297,671	Propping Agent Size: 100 mesh/30-50 Mesh
<b>Stage No.:</b> 6	Stimulation Date: 7/14/2011	Pump Rate: 70.6
Pressure (psi): 7,814	Shut-in Surface Pressure: 6,439	5 Minute Shut-in Surface Pressure: NA
Propping Agent Type: Sand	Propping Agent Amount: 298,816	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 <b>Frac Tech</b>	Name Multi-Chem	Name Cased Hole Solutions, Inc.
Address 16858 IH 20	Address 2905 Southwest Blvd.	Address 1720 North Airport Rd.
City – State- Zip Cisco, Texas 76437	City – State – Zip San Angelo, Texas 76904	City – State – Zip Weatherford, Oklahoma 73096
Phone 817 850-1008	Phone 325 223-6200	Phone 580 772-3100

*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..*

<b>Well Operator's Signature</b>	<b>DEP USE ONLY</b>	
	Reviewed by:	Date:
Title: Regulatory Analyst	Comments:	
Date: 8/10/2011		

STIMULATION INFORMATION (WELL)			
Open Flow Production: 0mcf/d @ 24hrs pos treatment	24 Hr. Open Flow Production: 0mcf/d @ 24hrs pos treatment	24 Hr. Shut-in Pressure: N/A @ 24hrs post treatment	Flow Back Date: 7/26/2011
STIMULATION INFORMATION (STAGE)			
Complete a separate record for each stimulation stage. (Please insert additional copies of this page for additional stages).			
<b>Stage No.:</b> 7	Stimulation Date: 7/15/2011	Pump Rate: 68.8	
Pressure (psi): 8,002	Shut-in Surface Pressure: 6,188	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 299,480	Propping Agent Size: 100 mesh/30-50 Mesh	
<b>Stage No.:</b> 8	Stimulation Date: 7/15/2011	Pump Rate: 70.5	
Pressure (psi): 7,848	Shut-in Surface Pressure: 5,545	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 300,872	Propping Agent Size: 100 mesh/30-50 Mesh	
<b>Stage No.:</b>	Stimulation Date:	Pump Rate:	
Pressure (psi):	Shut-in Surface Pressure:	5 Minute Shut-in Surface Pressure:	
Propping Agent Type:	Propping Agent Amount:	Propping Agent Size:	
<b>Stage No.:</b>	Stimulation Date:	Pump Rate:	
Pressure (psi):	Shut-in Surface Pressure:	5 Minute Shut-in Surface Pressure:	
Propping Agent Type:	Propping Agent Amount:	Propping Agent Size:	
<b>Stage No.:</b>	Stimulation Date:	Pump Rate:	
Pressure (psi):	Shut-in Surface Pressure:	5 Minute Shut-in Surface Pressure:	
Propping Agent Type:	Propping Agent Amount:	Propping Agent Size:	
<b>Stage No.:</b>	Stimulation Date:	Pump Rate:	
Pressure (psi):	Shut-in Surface Pressure:	5 Minute Shut-in Surface Pressure:	
Propping Agent Type:	Propping Agent Amount:	Propping Agent Size:	
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	Comments:		



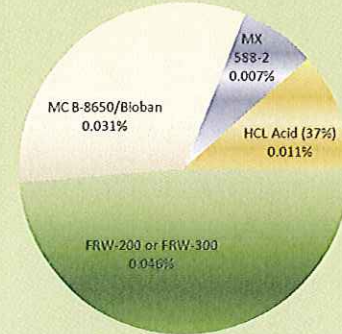
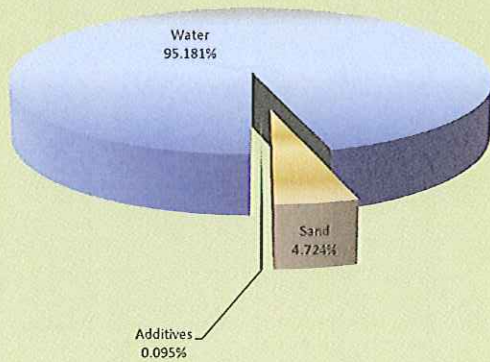
Ogontz Unit #12H  
Well API: 37-081-20235

Completion Date: July 15th  
Township: Cummings

% 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	2,087,340 gal	95.181%	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	103,601 gal	4.724%	Drinking water filtration, play sand
FRW-200 or FRW-300	Friction Reducer	Reduces friction between fluid and pipe	Diluted at one-half gallon per 1,000 gallons of water	1,016 gal	0.046%	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	0,676 gal	0.031%	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	0,156 gal	0.007%	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)	0,242 gal	0.011%	Swimming pool and household cleaner

Composition of Hydraulic Fracture Fluid (by volume)





Wellname: Ogontz Unit #12H

WELL API#: 37-081-20235

Township: Cummings

Completion Date: July 15th

## 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%	241.93	0.0110%	0.0045%	
	CI-100	Corrosion Inhibitor	Methanol	Protects casing	95.0%	33.01	0.0015%	0.0011%	
			Propargyl Alcohol	Protects casing	5.0%	1.42	0.0001%	0.0001%	
	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	
<b>TOTAL</b>								<b>0.0126%</b>	<b>0.0057%</b>

Friction Reducer (FracTech)	RW-200 or FRW-3	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%	371.41	0.0169%	0.0158%	
			3,4,4-Trimethyloxazolidine		5.0%	24.31	0.0011%	0.0010%	
			2-Amino-2-methyl-1-propanol		1.0%	5.10	0.0002%	0.0002%	
			Formaldehyde Amine		0.5%	2.22	0.0001%	0.0001%	
	BMC B-8650	Antibacterial Agent	Glutaraldehyde	eliminates bacteria in water	50.0%	69.74	0.0032%	0.0044%	
			Methanol		0.5%	0.70	0.00003%	0.00004%	
<b>TOTAL</b>								<b>0.0216%</b>	<b>0.0216%</b>

<b>SUMMARY</b>	by vol %	by weight %
	<b>0.034%</b>	<b>0.027%</b>