



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 - 081-20485- -	Project Number	Acres 4599	
Address 100 Throckmorton St., Suite 1200		Well Farm Name Ogontz Fishing Club Unit	Well # 23H	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. Jersey Shore @ Larrys Creek	PADWIS ID# 4410156	681,815
2. Montoursville Borough	PADWIS ID# 4175501	1,204,393
3. Williamsport Water Authority @ Sanitary Plant	PADWIS ID# 4189510	715,551
4. LHP Management @ Fishing Creek	SRBC Docket # 20090906	265,506
5.		
6.		
<b>Recycled Water Used</b>		<b>320,922</b>
<b>Other Bass Fluid(s)Components Used</b>		
1. Rainwater in Impoundment		506,385
2.		
<b>Total Base Fluid(s)/Components Used</b>		<b>3,694,572 gallons</b>

PERFORATION RECORD					
Stage No.	Perforation Date	Stage Perforated From	Stage Perforated To	Perf. Orientation (Vertical, Horizontal, Radial)	Formation
1	9/07/2011	11954'MD	11754'MD	Horizontal	Marcellus Shale
2	9/26/2011	11654'MD	11454'MD	Horizontal	Marcellus Shale
3	9/26/2011	11354'MD	11154'MD	Horizontal	Marcellus Shale
4	9/27/2011	11054'MD	10854'MD	Horizontal	Marcellus Shale
5	9/27/2011	10754'MD	10554'MD	Horizontal	Marcellus Shale
6	9/28/2011	10454'MD	10254'MD	Horizontal	Marcellus Shale
7	9/28/2011	10154'MD	9954'MD	Horizontal	Marcellus Shale
8	9/29/2011	9854'MD	9654'MD	Horizontal	Marcellus Shale
9	9/30/2011	9554'MD	9354'MD	Horizontal	Marcellus Shale
10	9/30/2011	9254'MD	9054'MD	Horizontal	Marcellus Shale





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:
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: 9/26/2011	Pump Rate: 66	
Pressure (psi): 8,810	Shut-in Surface Pressure: 4,923	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 397,497	Propping Agent Size: 100 mesh/40-70 Mesh	
<b>Stage No.:</b> 2	Stimulation Date: 9/26/2011	Pump Rate: 69	
Pressure (psi): 8,142	Shut-in Surface Pressure: 6,263	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 397,576	Propping Agent Size: 100 mesh/40-70 Mesh	
<b>Stage No.:</b> 3	Stimulation Date: 9/26/2011	Pump Rate: 71	
Pressure (psi): 8,323	Shut-in Surface Pressure: 6,407	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 399,881	Propping Agent Size: 100 mesh/40-70 Mesh	
<b>Stage No.:</b> 4	Stimulation Date: 9/27/2011	Pump Rate: 70	
Pressure (psi): 8,570	Shut-in Surface Pressure: 5,872	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 398,376	Propping Agent Size: 100 mesh/40-70 Mesh	
<b>Stage No.:</b> 5	Stimulation Date: 9/28/2011	Pump Rate: 71	
Pressure (psi): 8,105	Shut-in Surface Pressure: 5,987	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 402,057	Propping Agent Size: 100 mesh/40-70 Mesh	
<b>Stage No.:</b> 6	Stimulation Date: 9/28/2011	Pump Rate: 65	
Pressure (psi): 9,045	Shut-in Surface Pressure: 5,809	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 403,353	Propping Agent Size: 100 mesh/40-70 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	Date: 10/21/2011	Comments:	

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:
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: 9/29/2011	Pump Rate: 71	
Pressure (psi): 8,343	Shut-in Surface Pressure: 5,605	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 400,406	Propping Agent Size: 100 mesh/40-70 Mesh	
<b>Stage No.:</b> 8	Stimulation Date: 9/29/2011	Pump Rate: 67	
Pressure (psi): 8,882	Shut-in Surface Pressure: 6,187	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 400,918	Propping Agent Size: 100 mesh/40-70 Mesh	
<b>Stage No.:</b> 9	Stimulation Date: 9/30/2011	Pump Rate: 68	
Pressure (psi): 8,356	Shut-in Surface Pressure: 6,061	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 397,597	Propping Agent Size: 100 mesh/40-70 Mesh	
<b>Stage No.:</b> 10	Stimulation Date: 10/01/2011	Pump Rate: 69	
Pressure (psi): 7,490	Shut-in Surface Pressure: 5,393	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 359,499	Propping Agent Size: 100 mesh/40-70 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:	
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	
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		Comments:	



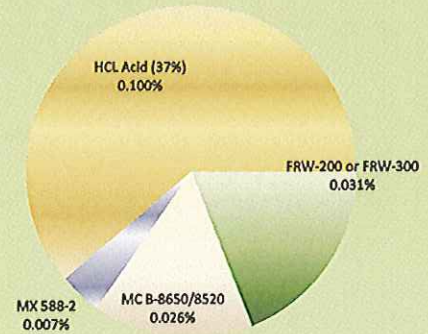
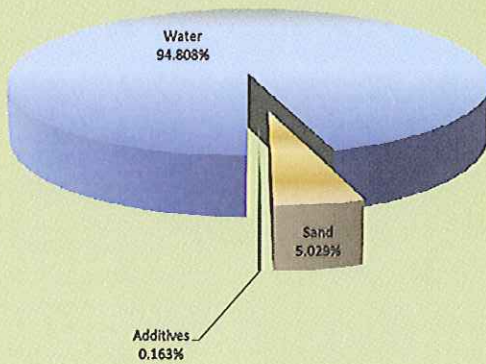
Ogontz Fishing Club 23H  
Well API: 37-081-20485

Completion Date: 10/01/11  
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	3,371,717 gal	94.808%	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	178,864 gal	5.029%	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	1,095 gal	0.031%	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	0,910 gal	0.026%	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	0,240 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)	3,545 gal	0.100%	Swimming pool and household cleaner

**Composition of Hydraulic Fracture Fluid (by volume)**





Wellname: Ogontz Fishing Club 23H

WELL API#: 37-081-20485

Township: Cummings

Completion Date: 10/01/11

### 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%	3544.73	0.0997%	0.0403%
	CI-100	Corrosion Inhibitor	Methanol	Protects casing	95.0%	41.26	0.0012%	0.0008%
	NE100	Non-Emulsifer	Propargyl Alcohol	Protects casing	5.0%	1.77	0.00005%	0.00004%
	FE100L	Iron Chelator	No hazardous ingredients	Prevents emulsions	0.0%	N/A	N/A	N/A
						<b>TOTAL</b>	<b>0.1009%</b>	<b>0.0412%</b>

Friction Reducer (FracTech)	RW-200 or FRW-30	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)	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
Antibacterial Agent (Multichem)	BMC B-8520	Antibacterial Agent	4,4-Dimethyloxazolidine	eliminates bacteria in water	78.0%	499.98	0.0141%	0.0130%
			3,4,4-Trimethyloxazolodine		5.0%	32.73	0.0009%	0.0008%
			2-Amino-2-methyl-1-propanol		1.0%	6.66	0.0002%	0.0002%
		Formaldehyde Amine	0.5%	2.98	0.0001%	0.0001%		
BMC B-8650	Antibacterial Agent		Glutaraldehyde	eliminates bacteria in water	50.0%	93.88	0.0026%	0.0037%
			Methanol		0.5%	0.94	0.00003%	0.00004%
						<b>TOTAL</b>	<b>0.0179%</b>	<b>0.0178%</b>

<b>SUMMARY</b>	by vol %	by weight %
	<b>0.119%</b>	<b>0.059%</b>