



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 - 081-20480- -	Project Number	Acres 4599	
Address 100 Throckmorton St., Suite 1200		Well Farm Name Ogontz Fishing Club Unit	Well # 18H	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	714,537
2. Montoursville Borough	PADWIS ID# 4175501	1,262,195
3. Williamsport Water Authority @ Sanitary Plant	PADWIS ID# 4189510	749,892
4. LHP Management @ Fishing Creek	SRBC Docket # 20090906	278,249
5.		
6.		
<b>Recycled Water Used</b>		<b>445,326</b>
<b>Other Bass Fluid(s)Components Used</b>		
1. Rain water in Impoundment		530,687
2.		
<b>Total Base Fluid(s)/Components Used</b>		<b>3,980,886 gallons</b>

PERFORATION RECORD					
Stage No.	Perforation Date	Stage Perforated From	Stage Perforated To	Perf. Orientation (Vertical, Horizontal, Radial)	Formation
1	09/08/2011	12,394'MD	12,194'MD	Horizontal	Marcellus Shale
2	09/19/2011	12,094'MD	11,894'MD	Horizontal	Marcellus Shale
3	09/19/2011	11,794'MD	11,594'MD	Horizontal	Marcellus Shale
4	09/20/2011	11,494'MD	11,294'MD	Horizontal	Marcellus Shale
5	09/20/2011	11,194'MD	10,994MD	Horizontal	Marcellus Shale
6	9/21/2011	10,894'MD	10,694'MD	Horizontal	Marcellus Shale
7	9/22/2011	10,594'MD	10,394'MD	Horizontal	Marcellus Shale
8	9/23/2011	10,294'MD	10,094'MD	Horizontal	Marcellus Shale
9	9/23/2011	9,994'MD	9,794'MD	Horizontal	Marcellus Shale
10	9/23/2011	9,694'MD	9,494'MD	Horizontal	Marcellus Shale
11	9/24/2011	9,394'MD	9,194'MD	Horizontal	Marcellus Shale





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).			
<b>Stage No.:</b> 1	Stimulation Date: 09/19/2011	Pump Rate: 66	
Pressure (psi): 8,866	Shut-in Surface Pressure: 5,941	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 397,265	Propping Agent Size: 100 mesh/40-70 Mesh	
<b>Stage No.:</b> 2	Stimulation Date: 09/19/2011	Pump Rate: 62	
Pressure (psi): 9,179	Shut-in Surface Pressure: 6,496	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 398,745	Propping Agent Size: 100 mesh/40-70 Mesh	
<b>Stage No.:</b> 3	Stimulation Date: 09/20/2011	Pump Rate: 62	
Pressure (psi): 9,012	Shut-in Surface Pressure: 5,835	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 398,760	Propping Agent Size: 100 mesh/40-70 Mesh	
<b>Stage No.:</b> 4	Stimulation Date: 09/20/2011	Pump Rate: 67	
Pressure (psi): 9,061	Shut-in Surface Pressure: 6,378	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 398,875	Propping Agent Size: 100 mesh/40-70 Mesh	
<b>Stage No.:</b> 5	Stimulation Date: 09/20/2011	Pump Rate: 66	
Pressure (psi): 9,077	Shut-in Surface Pressure: 6,520	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 398,931	Propping Agent Size: 100 mesh/40-70 Mesh	
<b>Stage No.:</b> 6	Stimulation Date: 09/22/2011	Pump Rate: 62	
Pressure (psi): 9,275	Shut-in Surface Pressure: 6,656	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 399,709	Propping Agent Size: 100 mesh/40-70 Mesh	
<b>WELL SERVICE COMPANIES</b> (Provide the name, address, and telephone number of all well service companies involved.)			
Name Frac Tech	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>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>			
<b>Well Operator's Signature</b>		<b>DEP USE ONLY</b>	
Title: Regulatory Analyst		Reviewed by:	Date:
Date: 10/21/2011		Comments:	

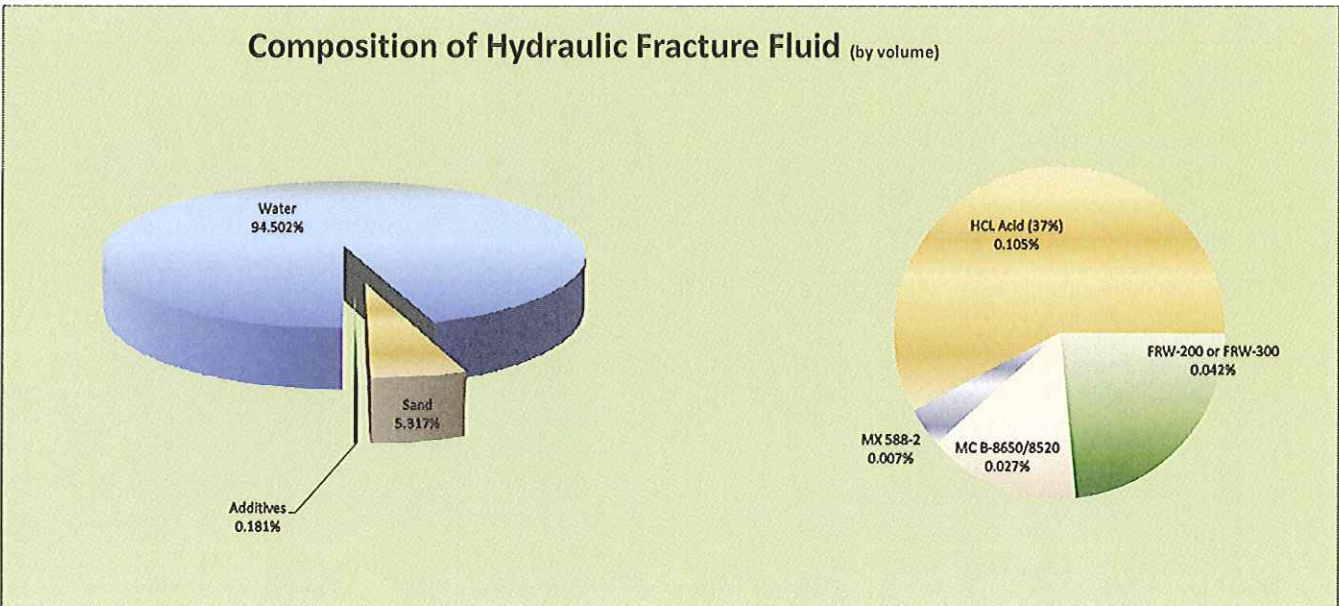
STIMULATION INFORMATION (WELL)			
Open Flow Production: 0mcf/d @ 24hrs pos treatment	24 Hr. Open Flow Production: 0mcf/d @ 24hrs pos treatment	24 Hr. Shut-in Pressure: N/A @ 24hrs post treatment	Flow Back Date:
STIMULATION INFORMATION (STAGE)			
Complete a separate record for each stimulation stage. (Please insert additional copies of this page for additional stages).			
<b>Stage No.:</b> 7	Stimulation Date: 09/23/2011	Pump Rate: 69	
Pressure (psi): 8,384	Shut-in Surface Pressure: 6,103	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 399,399	Propping Agent Size: 100 mesh/40-70 Mesh	
<b>Stage No.:</b> 8	Stimulation Date: 09/23/2011	Pump Rate: 71	
Pressure (psi): 8,175	Shut-in Surface Pressure: 6,334	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 397,396	Propping Agent Size: 100 mesh/40-70 Mesh	
<b>Stage No.:</b> 9	Stimulation Date: 09/23/2011	Pump Rate: 68	
Pressure (psi): 8,890	Shut-in Surface Pressure: 6,398	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 398,159	Propping Agent Size: 100 mesh/40-70 Mesh	
<b>Stage No.:</b> 10	Stimulation Date: 09/24/2011	Pump Rate: 70	
Pressure (psi): 8,415	Shut-in Surface Pressure: 6,658	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 398,212	Propping Agent Size: 100 mesh/40-70 Mesh	
<b>Stage No.:</b> 11	Stimulation Date: 09/24/2011	Pump Rate: 69	
Pressure (psi): 7,780	Shut-in Surface Pressure: 5,545	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 399,249	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: Sand	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	
Phone 817 850-1008	Phone 325 223-6200	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>			
<b>Well Operator's Signature</b>		<b>DEP USE ONLY</b>	
	Reviewed by:	Date:	
Title: Regulatory Analyst	Date: 10/21/2011	Comments:	



Ogontz Fishing Club 18H  
Well API: 37-081-20480

Completion Date: 9/24/11  
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	3,522,640 gal	94.502%	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	198,188 gal	5.317%	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	1,574 gal	0.042%	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	1,005 gal	0.027%	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	0,264 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)	3,899 gal	0.105%	Swimming pool and household cleaner





Wellname: Ogontz Fishing Club 18H  
 Township: Cummings

WELL API#: 37-081-20480  
 Completion Date: 9/24/11

### 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%	3899.21	0.1046%	0.0422%
	CI-100	Corrosion Inhibitor	Methanol	Protects casing	95.0%	45.39	0.0012%	0.0009%
			Propargyl Alcohol	Protects casing	5.0%	1.95	0.00005%	0.00005%
	NE100	Non-Emulsifer	No hazardous ingredients	Prevents emulsions	0.0%	N/A	N/A	N/A
FE100L	Iron Chelator	No hazardous ingredients	No hazardous ingredients	Prevents precipitation	0.0%	N/A	N/A	N/A
						<b>TOTAL</b>	<b>0.1059%</b>	<b>0.0431%</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
-----------------------------	-----------------	------------------	--------------------------	-----------------------------	------	-----	-----	-----

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)	BMC B-8520	Antibacterial Agent	4,4-Dimethyloxazol'dine	eliminates bacteria in water	78.0%	552.18	0.0148%	0.0137%
			3,4,4-Trimethyloxazol'odine		5.0%	36.14	0.0010%	0.0009%
			2-Amino-2-methyl-1-propanol		1.0%	7.58	0.0002%	0.0002%
			Formaldehyde Amine		0.5%	3.30	0.0001%	0.0001%
	BMC B-8650	Antibacterial Agent	Glutaraldehyde	eliminates bacteria in water	50.0%	103.68	0.0028%	0.0038%
Methanol			0.5%		1.04	0.00003%	0.00004%	
						<b>TOTAL</b>	<b>0.0189%</b>	<b>0.0187%</b>

<b>SUMMARY</b>	by vol %	by weight %
	<b>0.125%</b>	<b>0.062%</b>