



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS MANAGEMENT PROGRAM**

DEP USE ONLY	
Site Id	Primary Facility Id
Client Id	Sub-facility Id

WELL RECORD AND COMPLETION REPORT

Well Operator Range Resources – Appalachia, LLC		DEP ID# 141142	Well API # (Permit / Reg) 37-125-24023	Project Number	Acres 441
Address 380 Southpointe Blvd. Suite 300			Well Farm Name Sierzega	Well # 7H	Serial #
City Canonsburg	State PA	Zip Code 15317	County Washington	Municipality Amwell	
Phone 724-743-6700	Fax 724-743-6790	USGS 7.5 min. quadrangle map Amity			
Check all that apply: <input checked="" type="checkbox"/> Original Well Record <input checked="" type="checkbox"/> Original Completion Report <input type="checkbox"/> Amended Well Record <input type="checkbox"/> Amended Completion Report					

WELL RECORD Also complete Log of Formations on back (page 2)

Well Type		<input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Combination Oil & Gas <input type="checkbox"/> Injection <input type="checkbox"/> Storage <input type="checkbox"/> Disposal					
Drilling Method		<input type="checkbox"/> Rotary – Air <input checked="" type="checkbox"/> Rotary – Mud <input type="checkbox"/> Cable Tool					
Date Drilling Started 4/9/10	Date Drilling Completed 7/7/10	Surface Elevation 1147 ft.	Total Depth - Driller 11080 ft	Total Depth - Logger 11080 ft			
Casing and Tubing			Cement returned on surface casing? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cement returned on coal protective casing? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A				
Hole Size	Pipe Size	Wt.	Thread / Weld	Amount in Well (ft)	Material Behind Pipe Type and Amount	Packer / Hardware / Centralizers Type Size Depth	Date Run
30"	26"	106#	Thread	32'	Driven	--- 26" 32'	4/9/10
24"	20"	81.3#	Thread	292'	Class A Gas Block, 360sx	GS 20" 292'	4/21/10
17-1/2"	13-3/8"	54.5#	Thread	1106'	Class A Gas Block 805 sx,	GS 13-3/8" 1106'	4/23/10
12-1/4"	9-5/8"	40#	Thread	2916'	Class A Gas Block, 940 sx	GS 9-5/8" 2916'	4/28/10
8-3/4"	5-1/2"	20#	Thread	11068'	Extendacem, 815 sx	FS 5-1/2" 11068"	7/7/10
Hal light,685 sx, Fraccem 295 sx							

COMPLETION REPORT

Perforation Record			Stimulation Record						
Date	Interval Perforated From	To	Date	Interval Treated	Fluid Type	Amount	Propping Agent Type	Amount	Average Injection
1/23/2011	10,945'MD	8,549'MD	1/5/2011	Marcellus Shale	Slick H2O	72,914 bbl	Sand	4,228 Kib	64.4 bpm
Natural Open Flow Too small to measure			Natural Rock Pressure Too small to measure				Hours	Days	
After Treatment Open Flow Omcf/d@24hrs post treatment			After Treatment Rock Pressure NA@24 hr post treatment				Hours	Days	

Well Service Companies -- Provide the name, address, and phone number of all well service companies involved.

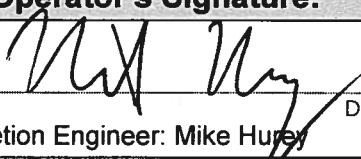
Name Patterson UTI	Name Universal Well Services	Name Frac Tech
Address 4501 Lamesa Highway	Address 730 Braddock View Dr	Address 16858 IH20
City - State - Zip Snyder, TX 79549	City - State - Zip Mt. Braddock, PA 15465	City - State - Zip Cisco, TX 76437
Phone 325-574-6300	Phone 724-430-6201	Phone 817-850-1008

LOG OF FORMATIONS

Well API#: 37-125-24023

Formation Name or Type	Top (feet)	Bottom (feet)	Gas at (feet)	Oil at (feet)	Water at (fresh / brine; ft.)	Source of Data
Fill	0'	32'				Drillers Log
Shale and Sand	32'	105'				Drillers Log
Gray Sand	105'	175'				Drillers Log
Sand and Shale	175'	197'				Drillers Log
Sand	197'	230'				Drillers Log
Shale	230'	325'				Drillers Log
Sandy Shale	325'	470'				Drillers Log
Shale	470'	685'				Drillers Log
Coal	685'	700'				Drillers Log
Sandy Shale	700'	870'				Drillers Log
Shale	870'	940'				Drillers Log
Sandy Shale	940'	1070'				Drillers Log
Sand	1070'	1210'				Drillers Log
Shale	1210'	1325'				Drillers Log
Sandy Shale	1325'	1675'	1440		Damp	Drillers Log
Sand	1675'	2261'	1865			Drillers Log
Sandy Shale	2261'	2294'				Drillers Log
White Sand	2294'	2380'				Drillers Log
Shale	2380'	2550'				Drillers Log
Sandy Shale	2550'	2700'	2605			Drillers Log
Red Rock and Sandy Shale	2700'	2870'				Drillers Log
Shale	2870'	3112'	2885			Drillers Log
Sandy Shale	3112'	3235'				Drillers Log
Sand	3235'	3271'				Drillers Log
Sandy Shale	3271'	3418'				Drillers Log
Shale	3418'	3449'				Drillers Log
Sandy Shale	3449'	3515'				Drillers Log
Shale	3515'	3871'				Drillers Log
Sandy Shale	3871'	3900'				Drillers Log
Shale	3900'	4254'				Drillers Log
Sandy Shale	4254'	4640'				Drillers Log
Shale	4640'	5370'				Drillers Log
Sandy Shale	5370'	5510'				Drillers Log
Shale	5510'	7110'	5695			Drillers Log
Limestone	7110'	7300'				Drillers Log
Shale	7300'	7410'	7375			Drillers Log
Limestone	7410'	7450'				Drillers Log
Horizontal						
Shale	5810'	7570'				Drillers Log
Limestone	7570'	7670'				Drillers Log
Shale	7670'					Drillers Log
Drillers Total Depth		11080'				Drillers Log

Please delete empty rows if necessary to make all of page 2 fit on one page.

Well Operator's Signature:		DEP USE ONLY	
 Title: Completion Engineer: Mike Hurey Date: 1/31/2011		Reviewed by:	Date:
		Comments:	

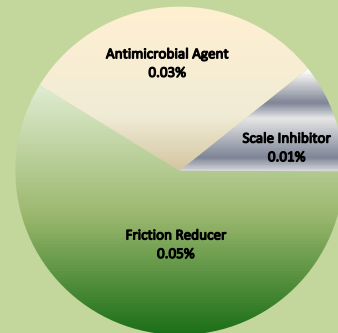
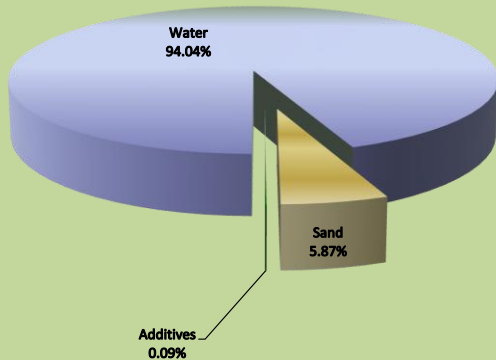


Sierzega Unit #7H
Well API: 37-125-24023

Completion Date: 12/23/10 - 1/5/11
Township: Amwell

% Composition of Hydraulic Fracture Fluid (by volume)						
Product Name	Additive	Purpose	Use and Dillution	Volume	Overall %	Common Uses
Water	Carrier Fluid	Creates fracture network in shale and carry proppant to the formation	Primary constituent	3,059,541 gal	94.04%	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	191,086 gal	5.87%	Drinking water filtration, play sand
FRW-200 & FRW-300	Friction Reducer	Reduces friction between fluid and pipe	Diluted at one-half gallon per 1,000 gallons of water	1,674 gal	0.05%	Water treatment; soil conditioner; some children's toys
MC B-8642/Bioban	Antimicrobial Agent	Eliminates bacteria in the water that produce corrosive byproducts	Diluted at one-half gallon per 1,000 gallons of water	0,872 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	306 gal	0.01%	Water treatment, household cleaners, de-icing agent

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
Friction Reducer (FracTech)	RW-200 & FRW-30	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%	479.10	0.0147%	0.0135%
			3,4,4-Trimethyloxazolidine		5.0%	31.36	0.0010%	0.0009%
			2-Amino-2-methyl-1-propanol		1.0%	6.57	0.0002%	0.0002%
			Formaldehyde Amine		0.5%	2.86	0.0001%	0.0001%
	BMC B-8642	Antibacterial Agent	Glutaraldehyde	eliminates bacteria in water	60.0%	107.95	0.0033%	0.0045%
			n-alkyl dimethyl benzyl ammonium chloride		10.0%	17.99	0.0006%	0.0008%
			Ethanol		1.0%	1.80	0.0001%	0.0001%
TOTAL							0.0160%	0.0146%

SUMMARY	by vol %	by weight %
	0.016%	0.015%