



**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) 37-081-20164	Project Number	Acres 870
Address 380 Southpointe Blvd. Suite 300			Well Farm Name Gentner Unit	Well # 3H	Serial #
City Canonsburg	State PA	Zip Code 15317	County Lycoming	Municipality Cummings	
Phone 724-743-6700	Fax 724-743-6790	USGS 7.5 min. quadrangle map Waterville			

Check all that apply: Original Well Record Original Completion Report Amended Well Record 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 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 3/2/10	Date Drilling Completed 8/27/10	Surface Elevation 1760 ft.	Total Depth – Driller 11429 ft	Total Depth - Logger 11429 ft		

Casing and Tubing

Cement returned on surface casing? Yes No
Cement returned on coal protective casing? Yes No 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	40'	Driven	---	26	40'	3/2/10
17-1/2"	13-3/8"	54.50#	Thread	709'	Gas Block, 510 sx	GS	13-3/8"	709'	5/16/10
12-1/4"	9-5/8"	36#	Thread	1852'	Gas Block, 600 sx	GS	9-5/8"	1852'	5/19/10
8-3/4"	5-1/2"	23#	Thread	11426'	Varicem, 2295 sx	FS	5-1/2"	11426'	8/27/10
					Fraccem, 360 sx				

COMPLETION REPORT

Perforation Record

Stimulation Record

Date	Interval Perforated From	To	Date	Interval Treated	Fluid Type	Amount	Propping Agent Type	Amount	Average Injection
11-1-10	11,255 MD	8,955 MD	11-17-10	Marcellus Shale	Slick H2O	74,384 bbl	Sand	3,923 Klb	67.7 bpm

Natural Open Flow	Too small to measure	Natural Rock Pressure	Too small to measure	Hours	Days
After Treatment Open Flow	Omc/d @ 24hrs pos treatment	After Treatment Rock Pressure	N/A @ 24hrs post treatment	Hours	Days

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

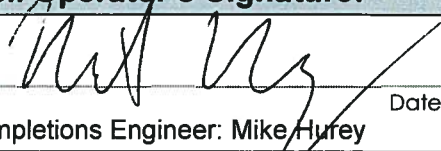
Name Patterson UTI	Name Universal Well Services	Name Frac Tech
Address 4501 Lamesa Highway	Address 730 Braddock View Dr	Address 16858 IH20
City - State - Zip Snyder, TX 79549	City - State - Zip Mt. Braddock, PA 15465	City - State - Zip Cisco, TX 76437
Phone 325-574-6300	Phone 724-430-6201	Phone 817-850-1008

LOG OF FORMATIONS

Well API#: 37-081-20164

Formation Name or Type	Top (feet)	Bottom (feet)	Gas at (feet)	Oil at (feet)	Water at (fresh / brine; ft.)	Source of Data
Fill	0'	40'				Geophysical Log
Shale	40'	90'				Geophysical Log
Sandy Shale	90'	286'				Geophysical Log
Shale	286'	382'				Geophysical Log
Sandy Shale	382'	815'				Geophysical Log
Sand	815'	880'				Geophysical Log
Sandy Shale	880'	950'				Geophysical Log
Sand	950'	1045'				Geophysical Log
Sandy Shale	1045'	2465'				Geophysical Log
Shale	2465'	2645'				Geophysical Log
Sandy Shale	2645'	2725'				Geophysical Log
Shale	2725'	3065'				Geophysical Log
Sandy Shale	3065'	3125'				Geophysical Log
Shale	3125'	4360'				Geophysical Log
Sandy Shale	4360'	4680'				Geophysical Log
Shale	4680'	4785'				Geophysical Log
Sandy Shale	4785'	5460'				Geophysical Log
Shale	5460'	7300'				Geophysical Log
Limestone	7300'	7400'				Geophysical Log
Shale	7400'	7480'				Geophysical Log
Limestone	7480'	7720'				Geophysical Log
Shale	7720'	8634'				Geophysical Log
Horizontal						
Shale	7990'	8820'				Geophysical Log
Limestone	8820'	8900'				Geophysical Log
Shale	8900'					Geophysical Log
Drillers Total Depth		11429'				Geophysical Log

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

Well Operator's Signature:	DEP USE ONLY
	Reviewed by: _____ Date: _____
Title: Completions Engineer: Mike Hurey Date: 12-6-10	Comments: _____

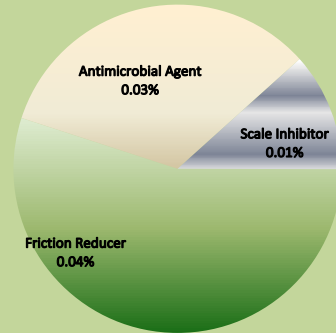
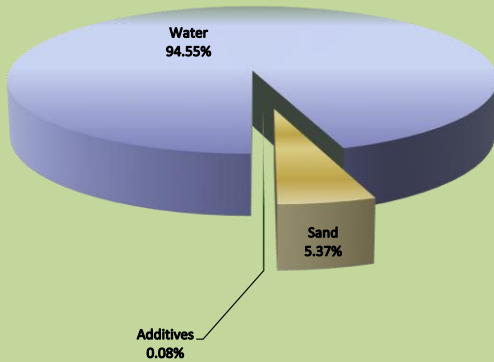


Gentner Unit #3H
Well API: 37-081-20164

Completion Date: November 1-17, 2010
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	3,121,512 gal	94.55%	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	177,335 gal	5.37%	Drinking water filtration, play sand
FRW-200	Friction Reducer	Reduces friction between fluid and pipe	Diluted at one-half gallon per 1,000 gallons of water	1,438 gal	0.04%	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	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)	FRW-200	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	0.0145%	0.0134%
			3,4,4-Trimethyloxazolidine		5.0%	31.36	0.0009%	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-8650	Antibacterial Agent	Glutaraldehyde	eliminates bacteria in water	50.0%	89.96	0.0027%	0.0038%
			Methanol		0.5%	0.90	0.0000%	0.0000%
TOTAL							0.0185%	0.0183%
SUMMARY							by vol %	by weight %
							0.018%	0.018%