



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) 37-081-20215	Project Number	Acres 870
Address 380 Southpointe Blvd. Suite 300			Well Farm Name Gentner Unit	Well # 7H	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: <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 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 9/19/10	Surface Elevation 1760 ft.	Total Depth – Driller 12451 ft	Total Depth - Logger 12451 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	40'	Driven	--- 26 40'	3/2/10
17-1/2"	13-3/8"	54.50#	Thread	714'	Gas Block, 500 sx	GS 13-3/8" 714'	3/7/10
12-1/4"	9-5/8"	36#	Thread	1845'	Gas Block, 600 sx	GS 9-5/8" 1845'	3/9/10
8-3/4"	5-1/2"	20#	Thread	12351'	Varicem, 2460 sx	FS 5-1/2" 12351'	9/19/10
					Fraccem, 400 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	12,240 MD	9,232 MD	11-15-10	Marcellus Shale	Water	99,698 bbl	Sand	5,512 Klb	68.1 bpm
Natural Open Flow Too small to measure			Natural Rock Pressure Too small to measure						
After Treatment Open Flow Omcf/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#: 37-081-20215

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'	95'				Geophysical Log
Sandy Shale	95'	281'				Geophysical Log
Shale	281'	377'				Geophysical Log
Sandy Shale	377'	810'				Geophysical Log
Sand	810'	870'				Geophysical Log
Sandy shale	870'	960'				Geophysical Log
Sand	960'	1050'				Geophysical Log
Sandy Shale	1050'	2460'				Geophysical Log
Shale	2460'	2640'				Geophysical Log
Sandy Shale	2640'	2730'				Geophysical Log
Shale	2730'	3060'				Geophysical Log
Sandy shale	3060'	3120'				Geophysical Log
Shale	3120'	4350'				Geophysical Log
Sandy shale	4350'	4680'				Geophysical Log
Shale	4680'	4770'				Geophysical Log
Sandy Shale	4770'	5454'				Geophysical Log
Shale	5454'	7328'				Geophysical Log
Limestone	7328'	7420'				Geophysical Log
Shale	7420'	7550'				Geophysical Log
Limestone	7550'	7690'				Geophysical Log
Horizontal						
Shale	7690'	8890'				Geophysical Log
Limestone	8890'	8920'				Geophysical Log
Shale	8920'					Geophysical Log
Drillers Total Depth		12451'				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	
 Title: Completions Engineer: Rodney Archibeque	Reviewed by: _____ Date: _____ Comments: _____		
Date: 12/12/10	Date: 12-12-10		

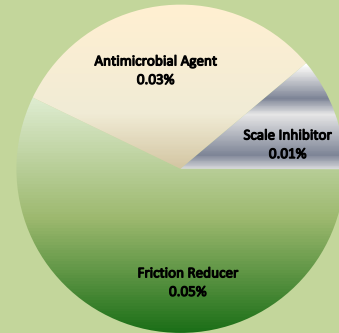
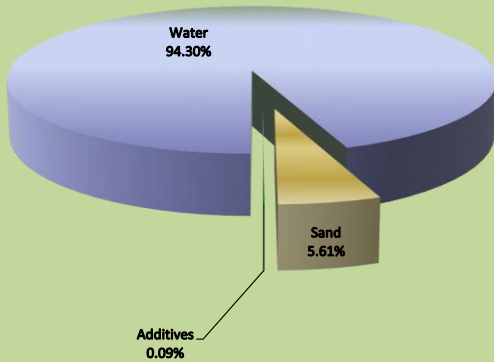


Gentner Unit #7H
Well API: 37-081-20215

Completion Date: November 1-15, 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	4,183,680 gal	94.30%	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	249,122 gal	5.615%	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	2,085 gal	0.05%	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	1,158 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	408 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%	636.24	0.0143%	0.0132%
			3,4,4-Trimethyloxazolidine		5.0%	41.65	0.0009%	0.0008%
			2-Amino-2-methyl-1-propanol		1.0%	8.73	0.0002%	0.0002%
			Formaldehyde Amine		0.5%	3.80	0.0001%	0.0001%
	BMC B-8650	Antibacterial Agent	Glutaraldehyde	eliminates bacteria in water	50.0%	119.46	0.0027%	0.0037%
			Methanol		0.5%	1.19	0.0000%	0.0000%
TOTAL							0.0183%	0.0180%
SUMMARY							by vol %	by weight %
							0.018%	0.018%