



DEP USE ONLY	
Site ID	Primary Fac ID
Client Id	Subfacility Id

Well Record and Completion Report

Well Operator Range Resources - Appalachia, LLC		DEP ID# 141142	Well API # (Permit / Reg) 37125-23933		Project Number	Acres 272
Address 380 Southpointe Blvd, Suite 300			Well Farm Name A&D Ferguson		Well # 2H	Serial #
City Canonsburg	State PA	Zip Code 15317	County Washington	Municipality Chartiers		
Phone 724-743-6700	Fax 724-743-6790	USGS 7.5 min. quadrangle map Canonsburg				

Check all that apply: Original Well Record Original Completion Report Amended Well Record Amended Completion Report

WELL RECORD Also complete the 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 1/21/10	Date Drilling Completed 7/18/10	Surface Elevation 1270 ft.	Total Depth - Driller 10980 ft.	Total Depth - Logger 10980 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 type="checkbox"/> Yes <input checked="" 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"	108#	Thread	40'	Driven	--	26"	40'	1/21/10
24"	20"	94#	Thread	254'	Class A, GB 300 sx	GS	20"	254'	2/16/10
17-1/2"	13-3/8"	48#	Thread	340'	Class A GB, 350 sx	GS	13-3/8"	340'	2/18/10
12-1/4"	9-5/8"	36#	Thread	1756'	Class A GB, 600 sx	GS	9-5/8"	1756'	2/20/10
8-3/4"	5-1/2"	20#	Thread	10970'	50/50 12.8 ppg 966 sx	FS	5-1/2"	10970'	7/18/10
					50/50 13.6 ppg 426 sx CI A 620 sx				

COMPLETION REPORT

Perforation Record			Stimulation Record						
Date	Interval Perforated From	To	Date	Interval Treated	Fluid Type	Amount	Propping Agent Type	Amount	Average Injection Rate
9/9/10	7091' MD	10815' MD	9/14/10	Marcellus Shale	Slick H2O	128,528 bbl	Sand	7101k lb	71.1 bpm

Natural Open Flow	too small to measure	Natural Rock Pressure	too small	Hours	Days
After Treatment Open Flow	Not determinable	After Treatment Rock Pressure	Not determinable	Hours	Days

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

Name Patterson UTI	Name Schlumberger	Name Weatherford
Address 4501 Lamesa Highway	Address 95 Rutherford Run	Address 515 Post Oak Blvd
City - State - Zip Snyder, TX 79549	City - State - Zip Bradford, PA 16701	City - State - Zip Houston, TX 77027
Phone -325-574-6300	Phone 814-362-7441	Phone 713-693-4000

LOG OF FORMATIONS

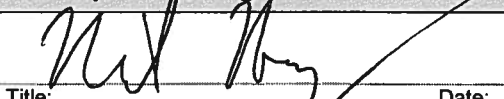
Well API#: **37-125-23933-**_____

(If you will need more space than this page, please photocopy the blank form before filling it in.)

Formation Name or Type	Top (feet)	Bottom (feet)	Gas at (feet)	Oil at (feet)	Water at (fresh / brine; ft.)	Source of Data
Fill	0'	60'				Drillers Log
Sand and Shale	60'	270'				Drillers Log
Sand	270'	360'				Drillers Log
Shale	360'	1170'				Drillers Log
Sand and Shale	1170'	1440'				Drillers Log
Sand	1440'	1620'				Drillers Log
Shale	1620'	2370'				Drillers Log
Sand and Shale	2370'	3150'				Drillers Log
Shale	3150'	3210'				Drillers Log
Sand and Shale	3210'	3800'				Drillers Log
Shale	3800'	4500'				Drillers Log
Sand and Shale	4500'	4590'				Drillers Log
Shale	4590'	4680'				Drillers Log
Sand and Shale	4680'	5100'				Drillers Log
Shale	5100'	5370'				Drillers Log
Sand and Shale	5370'	5640'				Drillers Log
Shale	5640'	6026'				Drillers Log
Horizontal Shale	5700'	6410'				Drillers Log
Limestone	6410'	6470'				Drillers Log
Shale	6470'					Drillers Log
Drillers Total Depth		10980'				Drillers Log

I do hereby certify to the best of my knowledge, information and belief that the well identified on this Well Record and Completion Report has been properly cased and cemented in accordance with the requirements of 25 Pa. Code Chapter 78 and any conditions contained in the permit for this well. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator's Signature



Title: **Michael Hurey-Completions Engineer** Date: **9/23/10**

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Reviewed by: _____ Date: _____

Comments:



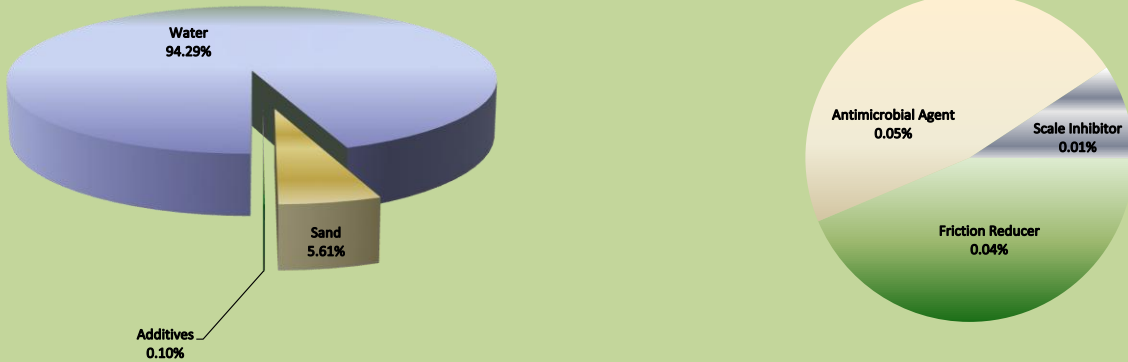
RANGE RESOURCES

AD Ferguson Unit #2H
Well API: 37-125-23933

Completion Date: September 9 -14, 2010
Township: Chartiers

% 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	5,392,434 gal	94.29%	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	320,961 gal	5.61%	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	2,503 gal	0.04%	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	2,699 gal	0.05%	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	535 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
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Antibacterial Agent (Multichem)	Bioban	Antibacterial Agent	4,4-Dimethyloxazolidine	eliminates bacteria in water	78.0%	1482.91	0.0259%	0.0238%
			3,4,4-Trimethyloxazolidine		5.0%	97.07	0.0017%	0.0015%
			2-Amino-2-methyl-1-propanol		1.0%	20.34	0.0004%	0.0003%
			Formaldehyde Amine		0.5%	8.85	0.0002%	0.0002%
	BMC B-8642	Antibacterial Agent	Glutaraldehyde	eliminates bacteria in water	60.0%	334.13	0.0058%	0.0080%
			n-alkyl dimethyl benzyl ammonium chloride		10.0%	55.69	0.0010%	0.0013%
			Ethanol		1.0%	5.57	0.0001%	0.0001%
TOTAL							0.0281%	0.0258%

SUMMARY	by vol %	by weight %
	0.028%	0.026%