



Well Record and Completion Report

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

Well Operator Range Resources - Appalachia, LLC		DEP ID# 141142	Well API # (Permit / Reg) 37125-24012		Project Number	Acres 1061
Address 380 Southpointe Blvd, Suite 300			Well Farm Name Chappel Unit		Well # 9H	Serial #
City Canonsburg	State PA	Zip Code 15317	County Washington	Municipality Hopewell		
Phone 724-743-6700	Fax 724-743-6790	USGS 7.5 min. quadrangle map Washington West				

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 3/11/2010	Date Drilling Completed 8/23/10	Surface Elevation 1140 ft.	Total Depth - Driller 11378 ft.	Total Depth - Logger 11378 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"	108#	Thread	36'	Driven	---	26"	36'	3/11/10
17 1/2"	13-3/8"	48#	Thread	251'	Class A Gas block, 570 sx	GS	13-3/8"	251'	5/1/10
12-1/4"	9-5/8"	36#	Thread	1821'	Class A Gas Block, 640 sx	GS	9-5/8"	1821'	5/14/10
8-3/4"	5-1/2"	20#	Thread	11371'	Hal Light, 180 sx,	FS	5-1/2"	11371'	8/23/10
					Hal Light, 1450 sx, Fraccem 470				

COMPLETION REPORT

Perforation Record			Stimulation Record							
Date	Interval Perforated From	To	Date	Interval Treated	Fluid Type	Amount	Propping Agent Type	Amount	Average Injection Rate	
12-15-2010	11,157'MD	7,057'MD	1-3-2011	Marcellus Shale	Slick H2O	102,447bbl	Sand	7,026Klb	66.2 bpm	
Natural Open Flow			Too small to measure		Natural Rock Pressure		too sml to measure		Hours	Days
After Treatment Open Flow			Omc/d @ 24 hrs post treatment		After Treatment Rock Pressure		na 24 hrs post treatment		Hours	Days

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

Name	Name	Name
Patterson UTI	Universal Well Services	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
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LOG OF FORMATIONSWell API#: 37-125-24012-*(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'	65'				Drillers Log
Sand	65'	140'				Drillers Log
Sand and Shale	140'	165'				Drillers Log
Sand	165'	250'				Drillers Log
Shale	250'	340'				Drillers Log
Sand and Shale	340'	520'				Drillers Log
Shale	520'	630'				Drillers Log
Sand and Shale	630'	890'				Drillers Log
Shale	890'	1330'	1104			Drillers Log
Sand and Shale	1330'	1380'				Drillers Log
Sand	1380'	1450'				Drillers Log
Sand and Shale	1450'	1840'	1540			Drillers Log
Shale	1840'	1930'				Drillers Log
Sand and Shale	1930'	2580'				Drillers Log
Shale	2580'	3350'				Drillers Log
Sand and Shale	3350'	3460'				Drillers Log
Shale	3460'	3570'				Drillers Log
Sand and Shale	3570'	3650'				Drillers Log
Shale	3650'	5630'				Drillers Log
Sand and Shale	5630'	6256'				Drillers Log
Shale	6256'	6552'	6456			Drillers Log Drillers Log
Horizontal Shale	5400'	6534'				Drillers Log
Limestone	6534'	6630'				Drillers Log
Shale	6630'					Drillers Log
Drillers Total Depth		11378'				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

 *1/24/2011*

Title: Completion Engineer R. Archibeque Date: 1-24-2011

DEP USE ONLY

Reviewed by: _____ Date: _____

Comments: _____



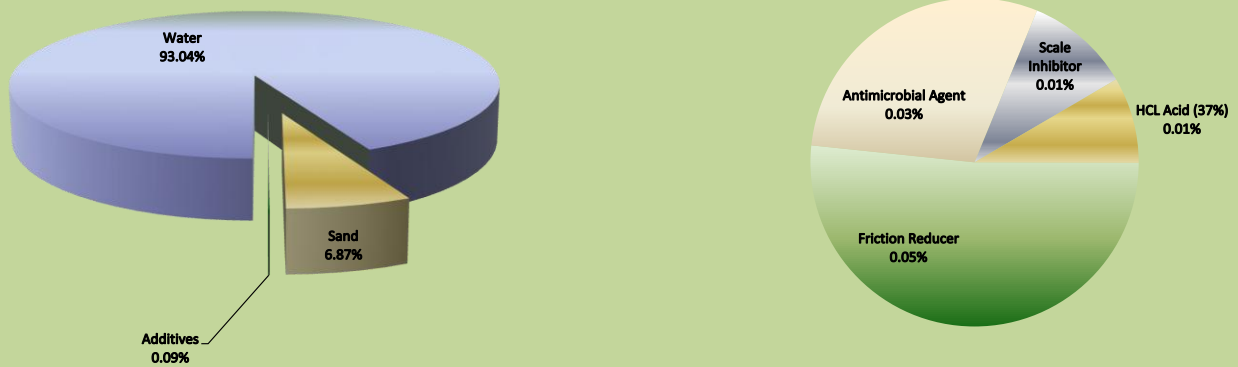
RANGE RESOURCES

Chappel Unit #9H
Well API: 37-125-24012

Completion Date: January 3rd, 2011
Township: Hopewell

% 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	4,298,612 gal	93.04%	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	317,618 gal	6.87%	Drinking water filtration, play sand
FRW-300	Friction Reducer	Reduces friction between fluid and pipe	Diluted at one-half gallon per 1,000 gallons of water	2,158 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	1,236 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	433 gal	0.01%	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)	354 gal	0.01%	Swimming pool and household cleaner

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
7.5% HCl Mixture (FracTech)	37% HCL	concentrated HCl Acid	HCL	Cleans perforation	37.0%	354.47	0.0077%	0.0030%
	CI-100	Corrosion Inhibitor	Methanol	Protects casing	95.0%	4.13	0.0001%	0.0001%
			Propargyl Alcohol	Protects casing	5.0%	0.18	0.0000%	0.0000%
	NE100	Non- Emulsifer	No hazardous ingredients	Prevents emulsions	0.0%	N/A	N/A	N/A
FE100L	Iron Chelator	No hazardous ingredients	Prevents precipitation	0.0%	N/A	N/A	N/A	N/A
TOTAL							0.0078%	0.0031%

Friction Reducer (FracTech)	FRW-300	Friction Reducer	No hazardous ingredients	Reduce friction down casing	0.0%	N/A	N/A	N/A
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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%	679.09	0.0147%	0.0132%
			3,4,4-Trimethyloxazolodine		5.0%	44.45	0.0010%	0.0009%
			2-Amino-2-methyl-1-propanol		1.0%	9.32	0.0002%	0.0002%
			Formaldehyde Amine		0.5%	4.05	0.0001%	0.0001%
	BMC B-8650	Antibacterial Agent	Glutaraldehyde	eliminates bacteria in water	50.0%	127.51	0.0028%	0.0037%
			Methanol		0.5%	1.28	0.0000%	0.0000%
TOTAL							0.0187%	0.0181%

SUMMARY	by vol %	by weight %
	0.027%	0.021%