



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

DEP USE ONLY	
Site ID	Primary Fac ID
Client	Subfacility Id

Completion Report

Well Information					
If you are submitting this Completion Report attached to the Well Record, you only need to enter the well API # in this section.					
Well Operator Range Resources-Appalachia, LLC	DEP ID# 141142	Well API # (Permit / Reg) 37 - 081-20316- -	Project Number	Acres 570.75	
Address 100 Throckmorton St., Suite 1200		Well Farm Name Lone Walnut Hunting Club Unit	Well # 9H	Serial #	
City Fort Worth	State TX	Zip Code 76102	County Lycoming	Municipality Cummings	
Phone 817 869-4158	Fax 817 869-1458	Email mdennis@rangeresources.com	USGS 7.5 min. quadrangle map Waterville		
Check the appropriate submission: <input checked="" type="checkbox"/> Original Completion Report <input type="checkbox"/> Amended Completion Report					

STIMULATION BASE FLUID		
List Water Management Plan Approved Water Source(s) that were used	Water Management Plan ID No.	Volume (Gallons)
1. Jersey Shore @ Larrys Creek	PADWIS ID# 4410156	264,788
2. Montoursville Borough	PADWIS ID# 4175501	1,670,406
3. Williamsport Water Authority @ Sanitary Plant	PADWIS ID# 4189510	389,995
4. LHP Management @ Fishing Creek	SRBC Docket # 20090906	1,060,336
5.		
6.		
Recycled Water Used		552,594
Other Bass Fluid(s)Components Used		
1. Rainwater in Impoundment		1,030,901
2.		
Total Base Fluid(s)/Components Used		4,969,020 gallons

PERFORATION RECORD					
Stage No.	Perforation Date	Stage Perforated From	Stage Perforated To	Perf. Orientation (Vertical, Horizontal, Radial)	Formation
1	10/6/2011	12,432'MD	12,182'MD	Horizontal	Marcellus Shale
2	10/11/2011	12,132'MD	11,882'MD	Horizontal	Marcellus Shale
3	10/13/2011	11,832'MD	11,582'MD	Horizontal	Marcellus Shale
4	10/13/2011	11,532'MD	11,282'MD	Horizontal	Marcellus Shale
5	10/14/2011	11,232'MD	10,982'MD	Horizontal	Marcellus Shale
6	10/17/2011	10,932'MD	10,682'MD	Horizontal	Marcellus Shale
7	10/17/2011	10,632'MD	10,382'MD	Horizontal	Marcellus Shale
8	10/18/2011	10,332'MD	10,082'MD	Horizontal	Marcellus Shale
9	10/19/2011	10,032'MD	9,782'MD	Horizontal	Marcellus Shale
10	10/19/2011	9,732'MD	9,482'MD	Horizontal	Marcellus Shale
11	10/20/2011	9,432'MD	9,182'MD	Horizontal	Marcellus Shale

STIMULATION FLUID ADDITIVES

Note: Trade secret or confidential proprietary information should be clearly identified as such and should be submitted on a separate sheet attached to this report.		Chemical Component % By Volume used in Each Stage							
Descriptive Additive Type	Chemical Component(s) listed on Material Safety Sheet of the Additive	CAS No. of Chemical Component	Chemical Component % By Volume in Additive	Chemical Component % By Volume used in Each Stage					
				Stage No. 1	Stage No. 2	Stage No. 3	Stage No. 4	Stage No. 5	Stage No. 6
WFR-61LA	Sodium Chloride	7647-14-5	9.8%	.00441%	.00494%	.00439%	.00484%	.00550%	.00489%
WFR-61LA	Ammonium Chloride	12125-02-9	7.2%	.00324%	.00362%	.00322%	.00355%	.00404%	.00359%
WFR-61LA	Petroleum Distillates	64742-48-8	52.7%	.02359%	.02641%	.02349%	.02588%	.02942%	.02617%
WFR-61LA	Alcohols, C-12-16, Ethoxylated	68551-12-2	6.9%	.00309%	.00346%	.00307%	.00339%	.00385%	.00342%
35% HCL Acid	Hydrochloric Acid	7647-01-0	35.0%	.08910%	.08067%	.08429%	.08845%	.10716%	.09164%
WAI-251 LC	Tar Bases, Quinoline Derivs, Benzyl Chloride-Quaternized	72480-70-7	13.0%	.00012%	.00011%	.00012%	.00012%	.00015%	.00013%
WAI-251 LC	Ethoxylated Nonylphenol	68412-54-4	10.1%	.00010%	.00009%	.00009%	.00009%	.00011%	.00010%
WAI-251 LC	Cinnamaldhyde	104-55-2	10.2%	.00010%	.00009%	.00009%	.00010%	.00012%	.00010%
WAI-251 LC	Ethylene Glycol	107-21-1	57.8%	.00055%	.00049%	.00052%	.00054%	.00066%	.00056%
WAI-251 LC	2-Butoxyethanol	111-76-2	8.3%	.00008%	.00007%	.00007%	.00008%	.00009%	.00008%
WAI-251 LC	Isopropyl Alcohol	67-63-0	9.5%	.00009%	.00008%	.00008%	.00009%	.00011%	.00009%
WAI-251 LC	Triethyl Phosphate	78-40-0	7.0%	.00007%	.00006%	.00006%	.00007%	.00008%	.00007%
WAI-251 LC	N, N-Dimethylformamide	68-12-2	45.1%	.00042%	.00038%	.00040%	.00042%	.00051%	.00044%
WIC-641L	Citric Acid	77-92-9	56.4%	.00266%	.00241%	.00251%	.00264%	.00320%	.00273%
BMC B-8650	Glutaraldehyde	111-30-8	48.8%	.00368%	.00365%	.00359%	.00354%	.00364%	.00367%
BMC B-8650	Methanol	67-56-1	0.7%	.00005%	.00005%	.00005%	.00005%	.00005%	.00005%
BMC B-8520	4,4-Dimethyloxazolidine	51200-87-4	76.5%	.01443%	.01470%	.01451%	.01451%	.01461%	.01447%
BMC B-8520	3,4,4-Trimethyloxazolidine	75673-43-7	5.0%	.00094%	.00096%	.00095%	.00095%	.00095%	.00095%
BMC B-8520	2-Amino-2-methyl-1-propanol	124-68-5	1.0%	.00020%	.00020%	.00020%	.00020%	.00020%	.00020%
BMC B-8520	Formaldehyde Amine	56652-26-7	0.5%	.00009%	.00009%	.00009%	.00009%	.00009%	.00009%

Please insert additional copies of this page if additional rows/stages are needed.

STIMULATION FLUID ADDITIVES

Note: Trade secret or confidential proprietary information should be clearly identified as such and should be submitted on a separate sheet attached to this report.										
Descriptive Additive Type	Chemical Component(s) listed on Material Safety Sheet of the Additive	CAS No. of Chemical Component	Chemical Component % By Volume in Additive	Chemical Component % By Volume used in Each Stage						
				Stage No. 7	Stage No. 8	Stage No. 9	Stage No. 10	Stage No. 11	Stage No.	
WFR-61LA	Sodium Chloride	7647-14-5	9.8%	.00693%	.00508%	.00489%	.00484%	.00494%		
WFR-61LA	Ammonium Chloride	12125-02-9	7.2%	.00509%	.00373%	.00361%	.00359%	.00362%		
WFR-61LA	Petroleum Distillates	64742-48-8	52.7%	.03705%	.02717%	.02628%	.02618%	.02640%		
WFR-61LA	Alcohols, C-12-16, Ethoxylated	68551-12-2	6.9%	.00485%	.00355%	.00344%	.00343%	.00345%		
35%HCL Acid	Hydrochloric Acid	7647-01-0	35.0%	.09466%	.09286%	.09203%	.09350%	.09476%		
WAI-251 LC	Tar Bases, Quinoline Derivs, Benzyl Chloride-Quaternized	72480-70-7	13.0%	.00013%	.00013%	.00013%	.00013%	.00013%		
WAI-251 LC	Ethoxylated Nonylphenol	68412-54-4	10.1%	.00010%	.00010%	.00010%	.00010%	.00010%		
WAI-251 LC	Cinnamaldhyde	104-55-2	10.2%	.00010%	.00010%	.00010%	.00010%	.00010%		
WAI-251 LC	Ethylene Glycol	107-21-1	57.8%	.00058%	.00057%	.00056%	.00057%	.00058%		
WAI-251 LC	2-Butoxyethanol	111-76-2	8.3%	.00008%	.00008%	.00008%	.00008%	.00008%		
WAI-251 LC	Isopropyl Alcohol	67-63-0	9.5%	.00010%	.00009%	.00009%	.00009%	.00010%		
WAI-251 LC	Triethyl Phosphate	78-40-0	7.0%	.00007%	.00007%	.00007%	.00007%	.00007%		
WAI-251 LC	N, N-Dimethylformamide	68-12-2	45.1%	.00045%	.00044%	.00044%	.00045%	.00045%		
WIC-641L	Citric Acid	77-92-9	56.4%	.00282%	.00277%	.00275%	.00279%	.00283%		
BMC B-8650	Glutaraldehyde	111-30-8	48.8%	.00361%	.00372%	.00368%	.00374%	.00361%		
BMC B-8650	Methanol	67-56-1	0.7%	.00005%	.00005%	.00005%	.00005%	.00005%		
BMC B-8520	4,4-Dimethyloxazolidine	51200-87-4	76.5%	.01460%	.01467%	.01454%	.01458%	.01480%		
BMC B-8520	3,4,4-Trimethyloxazolidine	75673-43-7	5.0%	.00095%	.00096%	.00095%	.00095%	.00097%		
BMC B-8520	2-Amino-2-methyl-1-propanol	124-68-5	1.0%	.00020%	.00020%	.00020%	.00020%	.00020%		
BMC B-8520	Formaldehyde Amine	56652-26-7	0.5%	.00009%	.00009%	.00009%	.00009%	.00009%		

Please insert additional copies of this page if additional rows/stages are needed.

STIMULATION INFORMATION (WELL)			
Open Flow Production: 0mcf/d @ 24hrs pos treatment	24 Hr. Open Flow Production: 0mcf/d @ 24hrs pos treatment	24 Hr. Shut-in Pressure: N/A @ 24hrs post treatment	Flow Back Date: 11/6/2011
STIMULATION INFORMATION (STAGE)			
Complete a separate record for each stimulation stage. (Please insert additional copies of this page for additional stages).			
Stage No.: 1	Stimulation Date: 10/11/2011	Pump Rate: 70.1	
Pressure (psi): 8,266	Shut-in Surface Pressure: 6,251	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 506,019	Propping Agent Size: 100 mesh/40-70 Mesh	
Stage No.: 2	Stimulation Date: 10/12/2011	Pump Rate: 70.0	
Pressure (psi): 8,946	Shut-in Surface Pressure: 6,632	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 523,947	Propping Agent Size: 100 mesh/40-70 Mesh	
Stage No.: 3	Stimulation Date: 10/13/2011	Pump Rate: 70.7	
Pressure (psi): 8,511	Shut-in Surface Pressure: 5,974	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 551,044	Propping Agent Size: 100 mesh/40-70 Mesh	
Stage No.: 4	Stimulation Date: 10/14/2011	Pump Rate: 70.0	
Pressure (psi): 8,489	Shut-in Surface Pressure: 6,288	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 524,298	Propping Agent Size: 100 mesh/40-70 Mesh	
Stage No.: 5	Stimulation Date: 10/17/2011	Pump Rate: 71.0	
Pressure (psi): 8,617	Shut-in Surface Pressure: 6,318	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 493,287	Propping Agent Size: 100 mesh/40-70 Mesh	
Stage No.: 6	Stimulation Date: 10/17/2011	Pump Rate: 71.3	
Pressure (psi): 7,475	Shut-in Surface Pressure: 6,874	5 Minute Shut-in Surface Pressure: NA	
Propping Agent Type: Sand	Propping Agent Amount: 510,995	Propping Agent Size: 100 mesh/40-70 Mesh	
WELL SERVICE COMPANIES (Provide the name, address, and telephone number of all well service companies involved.)			
Name Weatherford	Name Multi-Chem	Name	
Address 121 Hillpointe Drive, Suite 300	Address 2905 Southwest Blvd.	Address	
City – State- Zip Canonsburg, PA 15317	City – State – Zip San Angelo, Texas 76904	City – State – Zip	
Phone 724 745-7050	Phone 325 223-6200	Phone	
I do hereby certify to the best of my knowledge, information and belief that the information contained on this Completion Report is true and correct. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment..			
Well Operator's Signature		DEP USE ONLY	
		Reviewed by:	Date:
Title: Regulatory Analyst	Date: 11/10/2011	Comments:	

STIMULATION INFORMATION (WELL)			
Open Flow Production: 0mcf/d @ 24hrs pos treatment	24 Hr. Open Flow Production: 0mcf/d @ 24hrs pos treatment	24 Hr. Shut-in Pressure: N/A @ 24hrs post treatment	Flow Back Date:

STIMULATION INFORMATION (STAGE)


Complete a separate record for each stimulation stage. (Please insert additional copies of this page for additional stages).

Stage No.: 7	Stimulation Date: 10/18/2011	Pump Rate: 71.0
Pressure (psi): 8,577	Shut-in Surface Pressure: 5,895	5 Minute Shut-in Surface Pressure: NA
Propping Agent Type: Sand	Propping Agent Amount: 495,359	Propping Agent Size: 100 mesh/40-70 Mesh
Stage No.: 8	Stimulation Date: 10/18/2011	Pump Rate: 70.0
Pressure (psi): 8,926	Shut-in Surface Pressure: 6,197	5 Minute Shut-in Surface Pressure: NA
Propping Agent Type: Sand	Propping Agent Amount: 488,329	Propping Agent Size: 100 mesh/40-70 Mesh
Stage No.: 9	Stimulation Date: 10/19/2011	Pump Rate: 69.3
Pressure (psi): 8,842	Shut-in Surface Pressure: 6,387	5 Minute Shut-in Surface Pressure: NA
Propping Agent Type: Sand	Propping Agent Amount: 502,000	Propping Agent Size: 100 mesh/40-70 Mesh
Stage No.: 10	Stimulation Date: 10/20/2011	Pump Rate: 71.0
Pressure (psi): 8,290	Shut-in Surface Pressure: 5,931	5 Minute Shut-in Surface Pressure: NA
Propping Agent Type: Sand	Propping Agent Amount: 496,962	Propping Agent Size: 100 mesh/40-70 Mesh
Stage No.: 11	Stimulation Date: 10/21/2011	Pump Rate: 68.0
Pressure (psi): 7,719	Shut-in Surface Pressure: 4,780	5 Minute Shut-in Surface Pressure: NA
Propping Agent Type: Sand	Propping Agent Amount: 514,905	Propping Agent Size: 100 mesh/40-70 Mesh
Stage No.:	Stimulation Date:	Pump Rate:
Pressure (psi):	Shut-in Surface Pressure:	5 Minute Shut-in Surface Pressure:
Propping Agent Type:	Propping Agent Amount:	Propping Agent Size:

WELL SERVICE COMPANIES (Provide the name, address, and telephone number of all well service companies involved.)

Name Weatherford	Name Multi-Chem	Name
Address	Address 2905 Southwest Blvd.	Address
City – State- Zip	City – State – Zip San Angelo, Texas 76904	City – State – Zip
Phone	Phone 325 223-6200	Phone

I do hereby certify to the best of my knowledge, information and belief that the information contained on this Completion Report is true and correct. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator's Signature		DEP USE ONLY	
 Title: Regulatory Analyst Date: 10/11/2011	Reviewed by:	Date:	
	Comments:		



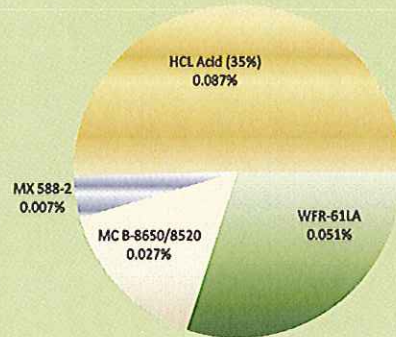
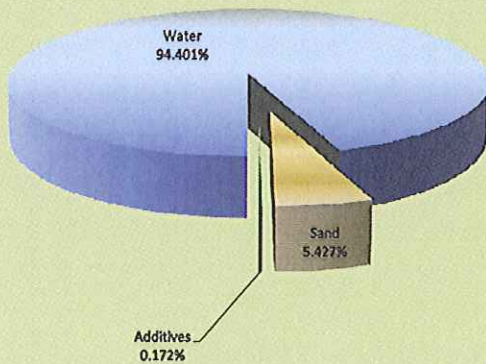
RANGE RESOURCES

Lone Walnut Hunting Club #9-H
Well API: 37-081-20316

Completion Date: 10/21/2011
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	4,408,395 gal	94.401%	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	253,443 gal	5.427%	Drinking water filtration, play sand
WFR-61LA	Friction Reducer	Reduces friction between fluid and pipe	Diluted at one-half gallon per 1,000 gallons of water	2,401 gal	0.051%	Water treatment; soil conditioner; some children's toys
MC B-8650/8520	Antimicrobial Agent	Eliminates bacteria in the water that produce corrosive byproducts	Diluted at one-half gallon per 1,000 gallons of water	1,239 gal	0.027%	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	0,326 gal	0.007%	Water treatment, household cleaners, de-icing agent
HCL Acid (35%)	Perf Clean-Up	Dissolves cement and minerals to help initiate fractures	177 gallons per stage if required (non-diluted chemicals)	4,048 gal	0.087%	Swimming pool and household cleaner

Composition of Hydraulic Fracture Fluid (by volume)





RANGE RESOURCES

Wellname: Lena Walnut Hunting Club #9-H WELL API#: 37-091-20316
 Township: Cummings Completion Date: 10/21/2011

Composition of Components in Marcellus Shale Hydraulic Fracturing Fluid

Common Name & Supplier	Supplier Chemical Name	Common Description	Hazardous Component listed on MSDS	Purpose	MSDS Component Weight % of Chemical	Specific Gravity of Additive	Specific Gravity of Component	Additive Conc (gal/1000 gal)	lbs Hazardous Component	Gallons MSDS Component In Well	Maximum Concentration of MSDS Component of Total Stage Fluid	
											% Vol	% Weight
7.5% HCl Mixture (Weatherford)	35% HCL	Concentrated HCl Acid	HCL	Cleans perforation	35.0%	1.17556	1.17556	169.0	13873.25	4047.81	0.0387%	0.0327%
			Tar bases, quinoline deriva, benzyl chloride-sulfonized	Protects casing	13.0%	1.07	1.07	2.0	52.45	5.69	0.0001%	0.0001%
			Ethoxylated Nonylphenol	Protects casing	10.0%	1.07	1.05	2.0	40.35	4.67	0.0001%	0.0001%
			Cinnamaldehyde	Protects casing	10.0%	1.07	1.05	2.0	40.35	4.61	0.0001%	0.0001%
			Ethylene Glycol	Protects casing	60.0%	1.07	1.11	2.0	242.11	26.18	0.0005%	0.0005%
			2-Butoxyethanol	Protects casing	7.0%	1.07	0.9	2.0	28.25	3.77	0.0001%	0.0001%
			Isopropyl alcohol	Protects casing	7.0%	1.07	0.787	2.0	28.25	4.31	0.0001%	0.0001%
	Triethyl Phosphate	Protects casing	7.0%	1.07	1.07	2.0	28.25	3.17	0.0001%	0.0001%		
WIC-641L	Iron Chelator	Citric Acid	N, N-Dimethylformamide	Protects casing	40.0%	1.07	0.95	2.0	161.41	20.40	0.0004%	0.0004%
			Prevents precipitation	70.0%	1.24	1.54	10.0	1636.68	127.58	0.0027%	0.0039%	
TOTAL											0.0910%	0.0389%
Friction Reducer (Weatherford)	WFR-61LA	Friction Reducer	Sodium Chloride	Reduce friction down casing	10.0%	1.053	1.07	0.5	1,053.02	118.14	0.0025%	0.0025%
			Ammonium Chloride	Reduce friction down casing	7.0%	1.053	1.02	0.5	737.11	68.75	0.0019%	0.0017%
			Petroleum Distillates	Reduce friction down casing	40.0%	1.053	0.8	0.5	4,212.07	632.09	0.0135%	0.0099%
			Alcohols, C-12-18, Ethoxylated	Reduce friction down casing	7.0%	1.053	1.07	0.5	737.11	82.70	0.0018%	0.0017%
TOTAL											0.0197%	0.0159%
Scale Inhibitor (MultiChem)	MX 568-2	Scale Inhibitor	No hazardous ingredients	prevents scale deposits	N/A	1.12	1.53	0.1	N/A	N/A	N/A	N/A
Antibacterial Agent (MultiChem)	BMC B-8520	Antibacterial Agent	4,4-Dimethylloxazolidine	eliminates bacteria in water	78.0%	0.9832	1.004	0.205	5693.27	690.74	0.0145%	0.0134%
			3,4,4-Trimethylloxazolidine		5.0%	0.955	0.955	0.205	365.62	44.56	0.0010%	0.0009%
			2-Amino-2-methyl-1-propanol		1.0%	0.955	0.94	0.205	73.12	9.34	0.0002%	0.0002%
			Formaldehyde Amine		0.5%	0.955	1.08	0.205	36.56	4.68	0.0001%	0.0001%
	BMC B-8650	Antibacterial Agent	Glutaraldehyde	eliminates bacteria in water	60.0%	1.103	1.13	0.03	1597.74	127.82	0.0027%	0.0038%
					0.5%	1.103	0.766	0.03	15.93	1.28	0.0000%	0.0000%
TOTAL											0.0185%	0.0184%
SUMMARY											0.129%	0.072%