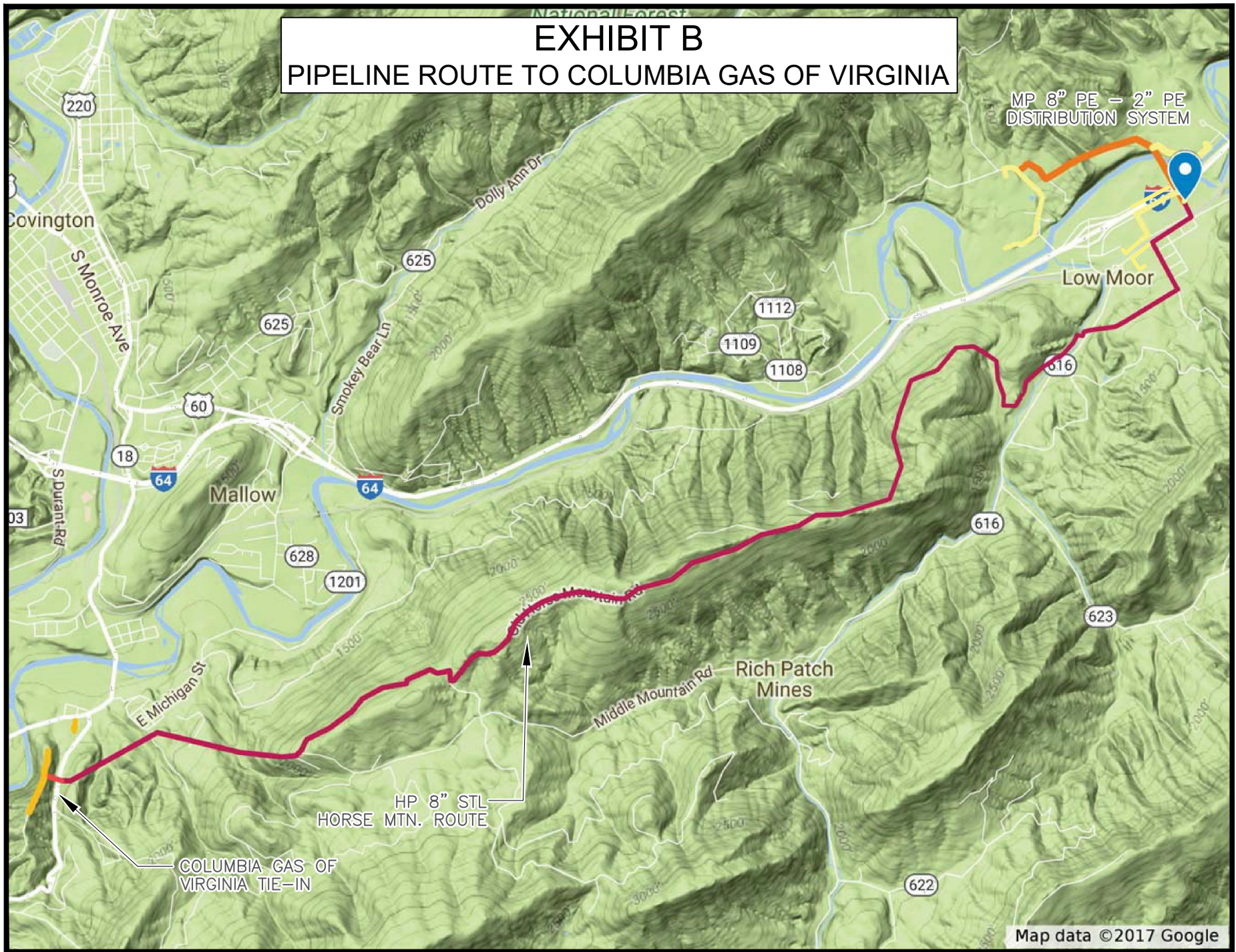


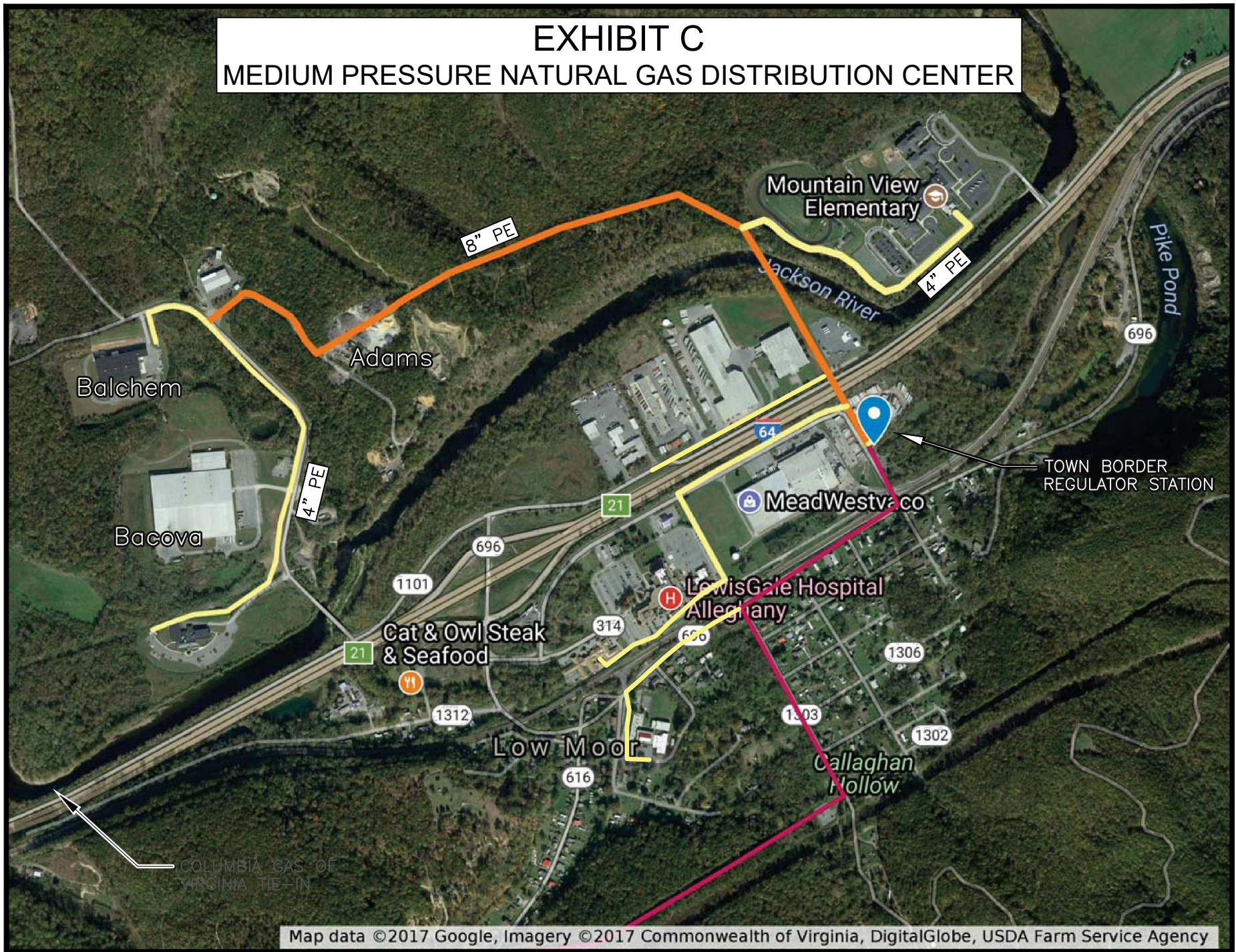
**Exhibit A  
Allegheny County  
Low Moor Area  
Potential Natural Gas Users**

Potential Customer	Annual Usage			Comments
	Propane Usage Gallons	Fuel Oil Usage Gallons	Estimated Use DT	
Adams Construction Company		387,000	53,795	
Allegheny County Gov. Complex	5,633		516	
Allegheny Schools Central Office		10,628	1,477	
Bacova	22,716		2,081	
Balchem	88,804		8,134	
Brian Center	12,817		1,174	
Lewis Gale - Allegheny			1,232	Assumes conversion of water heating to gas. All electric.
Mountain View/Clifton Middle		34,325	4,771	
WestRock Converting	80,076		7,335	
Williams/JenFab			9,600	
YMCA	22,843		2,092	
<b>Totals</b>	<b>232,890</b>	<b>431,953</b>	<b>92,208</b>	

# EXHIBIT B PIPELINE ROUTE TO COLUMBIA GAS OF VIRGINIA



# EXHIBIT C MEDIUM PRESSURE NATURAL GAS DISTRIBUTION CENTER



## Exhibit D

### Natural Gas Pipeline to serve Low Moor Construction Cost Estimate

ITEM	DESCRIPTION	UNITS	NUMBER OF UNITS	MATERIALS	LABOR	UNIT PRICE	TOTAL PRICE
<b>HP Steel to Westrock</b>							
Columbia to S. Lipsey Lane	8" STL PIPE, X-52, .250 WALL	FT	43860	\$ 19.00	\$ 90.00	\$ 109.00	\$ 4,780,740
S. Lipsey Lane to Westrock	8" STL PIPE, X-52, .250 WALL	FT	3600	\$ 19.00	\$ 90.00	\$ 109.00	\$ 392,400
ROW Clearing and grading		AC	80		\$ 20,000.00	\$ 20,000.00	\$ 1,600,000
Environmental Protection		FT	44760		\$ 25.00	\$ 25.00	\$ 1,119,000
Rock Excavation	80% of Route	CY	11200		\$ 200.00	\$ 200.00	\$ 2,240,000
Rich Patch Road and RR	12" STL CASED ROAD CROSSINGS	FT	335	\$ 50.00	\$ 175.00	\$ 225.00	\$ 75,375
8" Valves	8" STL WxW VALVE w/ VALVE BOX (Kerote)	EA	3	\$ 5,372.00	\$ 1,500.00	\$ 6,872.00	\$ 20,616
8" Tie in	Hot Tap	EA	1	\$ 3,000.00	\$ 10,000.00	\$ 13,000.00	\$ 13,000
Asphalt Cuts	ASPHALT CUT	FT	400		\$ 50.00	\$ 50.00	\$ 20,000
Test Stations	TEST STATIONS	EA	50		\$ 150.00	\$ 150.00	\$ 7,500
Cathodic Protection		FT	47460	\$ 1.00	\$ 1.00	\$ 2.00	\$ 94,920
Testing Segment only	Testing	EA	1		\$ 150,000.00	\$ 150,000.00	\$ 150,000
<b>SUBTOTAL</b>							<b>\$10,513,551</b>
<b>Distribution Pressure System</b>							
Westrock to Commerce Drive	8" HDPE Pipe, SDR 11	FT	6600	\$ 12.50	\$ 50.00	\$ 62.50	\$ 412,500
Commerce Drive	4" HDPE Pipe, SDR 11	FT	2904	\$ 2.76	\$ 30.00	\$ 32.76	\$ 95,135
Service to School	4" HDPE Pipe, SDR 11	FT	2270	\$ 2.76	\$ 30.00	\$ 32.76	\$ 74,378
Line to Hospital/Brian Ctr.	4" HDPE Pipe, SDR 11	FT	3500	\$ 2.76	\$ 30.00	\$ 32.76	\$ 114,653
Service to Alleghany County Gov. Complex	4" HDPE Pipe, SDR 11	FT	1900	\$ 2.76	\$ 30.00	\$ 32.76	\$ 62,244
Service to Alleghany Co. Central School Office	2" HDPE Pipe, SDR 11	FT	1550	\$ 0.87	\$ 18.00	\$ 18.87	\$ 29,249
Service to YMCA	2" HDPE Pipe, SDR 11	FT	1170	\$ 0.87	\$ 18.00	\$ 18.87	\$ 22,078
ROW Clearing and grading		AC	6		\$ 20,000.00	\$ 20,000.00	\$ 120,000
Environmental Protection		FT	8574		\$ 25.00	\$ 25.00	\$ 214,339
Rock Excavation	50% of Route	CY	2900		\$ 150.00	\$ 150.00	\$ 435,000
I 64 Bore	8" HDPE HDD adder	FT	425		\$ 175.00	\$ 175.00	\$ 74,375
Jackson River Bore	8" HDPE HDD adder	FT	550		\$ 175.00	\$ 175.00	\$ 96,250
4" Bores	Slick bores	FT	600		\$ 60.00	\$ 60.00	\$ 36,000
8" Valves	8" PE Valve w/ box	EA	1	\$ 900.00	\$ 900.00	\$ 1,800.00	\$ 1,800
4" and 2" PE Valves	4" PE Valve w/ box	EA	8	\$ 300.00	\$ 750.00	\$ 1,050.00	\$ 8,400
Regulator Station	Dual Run Regulator Station	EA	1	\$ 20,000.00	\$ 30,000.00	\$ 50,000.00	\$ 50,000
Regulator Station	Sm Dual Run Regulator Station	EA	1	\$ 5,000.00	\$ 10,000.00	\$ 15,000.00	\$ 15,000
Heater for Regulator Station	Water bath indirect	EA	1	\$ 30,000.00	\$ 15,000.00	\$ 45,000.00	\$ 45,000
Meter Sets	9 commercial/sm. Ind Meter sets	EA	1		\$ 150,000.00	\$ 150,000.00	\$ 150,000
Asphalt Cuts	ASPHALT CUT	FT	350		\$ 50.00	\$ 50.00	\$ 17,500
Pipeline Markers	Pipeline Markers	EA	15		\$ 100.00	\$ 100.00	\$ 1,500
Cathodic Protection		FT	0	\$ 1.00	\$ 1.00	\$ 2.00	\$ -
Testing Segment only	Testing	EA	1		\$ 15,000.00	\$ 15,000.00	\$ 15,000
<b>SUBTOTAL</b>							<b>\$ 2,090,401</b>
<b>CONSTRUCTION SUBTOTAL</b>							<b>\$12,603,952</b>

## Exhibit E

### Cost estimate for 8" HP Distribution and 8" and 4" PE Distribution pipeline

	Qty.	Each	Extension
<b>Preconstruction Phase</b>			
Engineering Design and Permitting	1	\$ 1,260,400	\$ 1,260,400
Surveying and mapping	1	\$ 350,000	\$ 350,000
Right of Way (acres)	86	\$ 5,000	\$ 430,000
Legal and Regulatory	1	\$ 100,000	\$ 100,000
<b>Construction Phase</b>			
Columbia Meter Station	1	\$ 100,000	\$ 100,000
HP Cross Country Pipeline	1	\$ 10,513,551	\$ 10,513,551
Distribution System	1	\$ 2,090,401	\$ 2,090,401
Engineering Construction Management Services	1	\$ 504,200	\$ 504,200
Onsite Inspection services	1	\$ 252,079	\$ 252,079
Post construction Surveys & Regulatory Compliance	1	\$ 62,500	\$ 62,500
<b>Total Capital Construction Costs</b>			<b>\$ 15,663,131</b>
<i>Total Capital Cost + \$200k for Startup amortized over 30 years at 2.5% interest equals \$ 757,903/year</i>			

**EXHIBIT F**

**ALLEGHANY COUNTY  
NATURAL GAS SYSTEM**

<b>INITIAL CAPITAL EXPENDITURES FOR GAS SYSTEM SPECIFIC OPERATIONS</b>		<b>Total</b>
<b>OFFICE EQUIPMENT</b>		<b>\$5,000</b>
<b>VEHICLES/ OFF ROAD EQUIPMENT</b>		<b>\$106,000</b>
<b>TOOLS</b>		<b>\$88,000</b>
<b>INITIAL MATERIAL INVENTORY</b>		<b><u>\$12,000</u></b>
	<b>SUBTOTAL</b>	<b>\$211,000</b>
 <b><i>STARTUP CONSULTING:</i></b>		
<b>ENGINEERING &amp; FEASIBILITY</b>		<b>\$100,000</b>
<b>LEGAL</b>		<b><u>\$100,000</u></b>
	<b>SUBTOTAL</b>	<b>\$200,000</b>
	<b>TOTAL STARTUP CAPITAL</b>	<b>\$411,000</b>

## Exhibit G

### Alleghany County Projected Annual Operating and Maintenance Costs

COST ITEM	QUANTITY	UNIT \$	TOTAL	NOTES	
<b><u>Personnel &amp; Salaries</u></b>				Manager plus two employees	
General Manager/OP Mgr	1	\$85,000	\$85,000		
Sr. Service Tech	1	\$40,000	\$40,000		
Instrument Tech	1	\$35,000	\$35,000		
Operations Foreman	0	\$40,000	\$0		
	3		\$160,000		
<b><u>Payroll-Related Expenses</u></b>				Includes FICA, Workers Comp, medical, pension, FUTA, SUTA	
Payroll Expenses - Benefits	44.00%	of payroll	\$70,400		
<b><u>General O&amp;M Categories</u></b>				<b>EXCLUDED COSTS:</b> Bad debts (separate line in the cash flow analysis)	
Automobile Expense	3 Vehicle	15,000 mi/yr	\$0.50		\$22,500
Travel and Training Expense					\$3,000
Office Utilities & Phone & Communications					\$12,000
Office Supplies & Expenses					\$1,000
Contractor - Repairs, Surveys, Services					\$25,000
Materials & Supplies					\$5,000
Miscellaneous					\$15,000
<b>Total</b>					<b>\$83,500</b>
<b><u>Management Consulting</u></b>					Community Contributions (separate line item in the cash flow analysis)
Management/Engineer Consulting				\$48,000	
Accounting/Billing				\$3,000	
Advertising				\$1,000	
Community Contributions & Activities				\$0	
General System Liability Insurance				\$10,000	
Legal				\$6,000	
Accounting/Audit				\$5,000	
Misc.				\$15,000	
<b>Total</b>				<b>\$88,000</b>	
		<b>Total</b>		<b>\$401,900</b>	

*Requires revenue recovery of \$4.36/DT assuming 100% conversion of existing industrial requirements*

## Exhibit H

### Allegheny County Natural Gas System Fuel Savings to Industrial/Commercial Facilities Natural Gas via Pipeline Scenario

Delivered Cost of Natural gas. Component		Comments
NYMEX	\$ 3.10 \$/DT	12 month average of Futures Prices July 2017 -June 2018, in June 2017
Interstate Transportation	\$ 1.74 \$/DT	Assumed 33% Load Factor, Transco Z5 Firm annual Deliveries
Columbia Transportation	\$ 0.80 \$/DT	Assumed current TS1 Rate, inclusive of monthly customer charge
Marketer Fee	\$ 0.10 \$/DT	
<b>Total Delivered Price</b>	<b>\$ 5.74 \$/DT</b>	
Allegheny County Natural Gas System		
Distribution Fee to Recover O&M Net Earnings and Cash Flow for Debt Service	\$ 4.36 \$/DT \$ 8.22 \$/DT	Breakeven Recovery for Operations and Maintenance Cost w/ projected Sales/Costs \$15.86MM financed for 30 years at 2.5%
<b>Total Distribution Fee</b>	<b>\$ 12.58 \$/DT</b>	
<b>Total Rate to Customers</b>	<b>\$ 18.32 \$/DT</b>	If all capital cost funded via grant, Retail rate \$10.14/DT to break even
<b>Savings to Industrial/Commercial Customers using Propane</b>		
Assumed Propane Costs converted to DT	\$ 1.00 \$/gal. \$ 10.91 \$/DT	Based on EIA Virginia Propane price data
Potential NG Rate	\$ 18.32 \$/DT	
<b>Savings</b>	<b>\$ (7.41) \$/DT</b>	<b>NO SAVINGS</b>
<b>Savings to Industrial/Commercial Customers using Fuel Oil</b>		
Assumed Fuel Oil Costs converted to DT	\$ 1.85 \$/gal. \$ 13.30 \$/DT	Based on EIA Virginia Oil price data
Potential NG Rate	\$ 18.32 \$/DT	
<b>Savings</b>	<b>\$ (5.02) \$/DT</b>	<b>NO SAVINGS</b>



**Exhibit I**  
**Alleghany County Municipal Gas system**  
**Operational Subsidy Required**

Annual Operating Costs	\$401,900	Note 1
Long Term Debt Service	\$757,903	Note 2
<hr/>		
Revenue required from gross margin to break even	\$1,159,803	
Gross Sales Margin	\$184,400	Note 3
<b>Net Annual Subsidy Required</b>	<b>\$975,403</b>	

Notes

- 1 See Exhibit G
- 2 Assumes 100% of construction capital cost of \$15,663,131 plus \$200,000 in startup costs are financed at 2.5% interest for 30 years
- 3 Assumes retail rate margin of \$2.00/dt over the delivered commodity cost of natural gas supply times the annual decatherm sales volume

## Exhibit J

### Alleghany County Natural Gas System Fuel Savings to Industrial/Commercial Facilities Natural Gas via Trucked CNG Scenario

Delivered Cost of Natural gas. Component			Comments
NYMEX	\$ 3.10	\$/DT	12 month average of Futures Prices July 2017 -June 2018, in June 2017
Interstate Transportation	\$ 1.74	\$/DT	Assumed 33% Load Factor, Transco Z5 Firm annual Deliveries
XNG Demand Charge	\$ 1.75	\$/DT	From XNG Scenario 1 Estimate 100% Load Factor
XNG Transportation fees	\$ 2.00		From XNG Scenario 1 Estimate
Marketer Fee	\$ 0.10	\$/DT	
<b>Total Delivered Price</b>	<b>\$ 8.69</b>	<b>\$/DT</b>	
Alleghany County Natural Gas System			
Distribution Fee to Recover O&M	\$ 4.36	\$/DT	Breakeven Recovery for Operations and Maintenance Cost w/ projected Sales/Costs
Net Earnings and Cash Flow for debt service	\$ 0.11	\$/DT	\$200,000 financed for 30 years at 2.5%
<b>Total Distribution Fee</b>	<b>\$ 4.47</b>	<b>\$/DT</b>	
<b>Total Rate to Customers</b>	<b>\$ 13.16</b>	<b>\$/DT</b>	
<b>Savings to Industrial/Commercial Customers using Propane</b>			
Assumed Propane Costs	\$ 1.00	\$/gal.	Based on EIA Virginia Propane price data
converted to DT	\$ 10.91	\$/DT	
Potential NG Rate	\$ 13.16	\$/DT	
<b>Savings</b>	<b>\$ (2.25)</b>	<b>\$/DT</b>	<b>NO SAVINGS</b>
<b>Savings to Industrial/Commercial Customers using Fuel Oil</b>			
Assumed Fuel Oil Costs	\$ 1.85	\$/gal.	Based on EIA Virginia Oil price data
converted to DT	\$ 13.30	\$/DT	
Potential NG Rate	\$ 13.16	\$/DT	
<b>Savings</b>	<b>\$ 0.14</b>	<b>\$/DT</b>	<b>INSUFFICIENT SAVINGS TO CONVERT</b>