GOVERNOR TOMBLIN'S ENERGY SUMMIT 2014



ANTERO HIGHLIGHTS

- Antero entered the WV O&G field in 2008
- Largest Producer of natural gas in WV
- Most active driller in WV
- Antero exceeds 1 bcf of natural gas production a day
- Governor's Natural Gas Vehicle Task Force



CNG HISTORY

- January 2012: Antero began partnering with affiliates to build a CNG station
- August 2012: Antero converted it's first truck to CNG
- September 2013: First CNG station opens in Bridgeport, WV
- September 2013: Antero begins converting its entire fleet
- Governor's Natural Gas Vehicle Task Force



CNG FLEET USAGE

- How many vehicles does Antero have running CNG?
 - 40 CNG powered trucks
 - All light duty ½ and ¾ ton trucks

- What are our future goals?
 - 1yr: Antero has 30 trucks ready for immediate conversion
 - 3yr: All vehicles purchased will be converted
 - 5yr: Antero's entire fleet will be powered by CNG



THE CONVERSION PROCESS

- Antero partnered with a local provider:
 - Jeff's Performance WV
- Cost of Conversion
 - \$10,000-\$12,000 per vehicle once EPA kit is available
- Time needed for conversion
 - Chevrolet 1500: ~1 week
 - Ford F-150: ~3 days



VEHICLE PERFORMANCE

- CNG performance is comparable
 - Fuel mileage is comparable (gasoline 15.3mpg, CNG 15.0mpgge)
 - Consider the different fuel types (liquid and gas)
 - Consider the engine/drivetrain design (to run gasoline)
 - No significant loss of power or functionality using CNG
- Vehicle maintenance
 - All routine auto manufacturer maintenance applies
 - Plus CNG filter maintenance during engine oil changes
 - Plus CNG annual system check



CNG CONVERSION ECONOMICS

Conversion cost:

WV State Tax Credit:

Average total fuel savings:

Realized Saving per vehicle converted:

(\$12,000)

\$7,500 (\$4,500)

\$5,834



Assuming current WV regular gasoline price of \$3.89/gallon and current WV CNG price of \$2.34/GGE Assuming vehicle is converted at purchase and CNG usage is equivalent to 100,000 miles Assuming an average 15mpg vehicle usage for duration of 100,000 miles

CNG CONVERSION ECONOMICS

- Payback
 - − Year 1: ~30,000 miles
 - Year 2: ~30,000 miles
 - Year 3: ~30,000 miles
 - Year 4: ~10,000 miles

- (\$4,500) + \$3,100=(\$1,400)
 - *(\$1,400) + \$3,100= \$1,700*
 - \$1,700 + 3,100= \$4,800
 - \$4,800 + \$1034=**\$5,834**
- Vehicles replacement @ ~100,000 miles



ADDITIONAL CONSIDERATIONS

- Natural Gas is locally produced compared to foreign oil
- Natural Gas is cleaner burning (95% fewer carbon monoxide released compared to diesel emissions)
- Natural gas is less expensive (\$2.34 GGE in WV, \$1.99 GGE in PA)
- CNG is a safer fuel (stronger fuel tanks, natural gas disperses in air)
- Tax credits are available



CLOSING REMARKS

- Antero is committed to CNG powered:
 - Vehicles
 - Drilling Rigs
 - Hydraulic Fracturing Equipment

 Antero is committed to the efficient, economic use of natural gas.



