Natural Gas Transportation on the Delmarva Peninsula

December 15, 2015



TOP WORK PLACES



Nationwide Natural Gas Interstate Pipeline System



Natural Gas Energy Chain





View of Nationwide Interstate Pipeline System



Source: Energy Information Administration, Office of Oil & Gas, Natural Gas Division, Gas Transportation Information System



Sources of Natural Gas Flowing to the Delmarva Peninsula

Natural gas that makes its way to the Delmarva Peninsula for consumption is generally sourced from the Gulf of Mexico or from the Marcellus or Utica shale formations. The natural gas travels through the interstate pipeline system to interconnects in southeastern PA and northern DE where it enters Eastern Shore's pipeline system for transport down the Delmarva Peninsula.







Natural Gas Transportation on the Delmarva Peninsula

Eastern Shore Natural Gas



Eastern Shore Natural Gas Company Introducing Natural Gas to the Delmarva Peninsula



In 1957, the Federal Power Commission, predecessor to the Federal Energy Regulatory Commission (FERC), issued a certificate authorizing Eastern Shore Natural Gas Company to construct and operate a new interstate natural gas pipeline, which would allow natural gas to come to the Delmarva Peninsula for the first time.

Construction began on the initial 123-mile pipeline from Parkesburg, PA to Salisbury, MD in July 1958 and was completed in 1959.



Eastern Shore Natural Gas Company History of Growth

Year-End Pipeline Capacity





Eastern Shore Natural Gas Company Present Day

Key Pipeline Facts:

- Approximately 442 miles of natural gas pipeline
- 90 delivery point stations
- Interconnects: 4 interconnects with three upstream pipelines
 - Honey Brook, PA Texas Eastern Transmission
 - Parkesburg, PA and Hockessin, DE Transcontinental Gas Pipe Line Co.
 - Daleville, PA Columbia Gas Transmission, LLC
- Compression: 12,420 hp at 3 compressor stations
 - Daleville, PA (2) 1,665 hp units and (2) 1,775 hp units
 - Delaware City, DE (4) 1,085 hp units
 - Bridgeville, DE (2) 600 hp units



Eastern Shore Natural Gas Company Current Customer Profile

Eastern Shore currently provides natural gas transportation to Local Distribution Companies, Industrials and Electric Power Generation customers:





Eastern Shore Natural Gas

Infrastructure Photos



Eastern Shore Natural Gas Infrastructure Photos – Interconnect with Upstream Pipeline



Location: Parkesburg, PA

In-Service Date: 1958

<u>Interconnecting Pipeline</u>: Transcontinental Gas Pipe Line Co.

<u>Details</u>: (3) 8" Orifice Meter Runs; Capacity of 208,000 mcf/d



Eastern Shore Natural Gas Infrastructure Photos – Compressor Station



Location: Daleville, PA

In-Service Date: 1986

<u>Details</u>: (4) 3606 Caterpillar, 6 cylinder, turbo charged engines w/ (4) single stage, four throw Ariel compressors



Eastern Shore Natural Gas Infrastructure Photos – Pipeline Bridge



 Location:
 Summit, DE

 In-Service Date:
 1959



Details: Cable suspension bridge supporting 1,220 linear foot, 12" pipeline, 141 ft above C&D canal.



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For more information on Eastern Shore Natural Gas, please visit <u>www.esng.com</u>

