ENERGY LOGISTICS

WV Public Power Authority June 22, 2022 Gas and Oil Association of WV

MarkWest History



• 1988:	MarkWest Hydrocarbon Partners, L.P. is formed (Siloam Plant Purchased)
• 1989 - 1995:	Kenova, Boldman and Cobb gas plants are constructed
• 1996 - 2001:	MarkWest Hydrocarbon Inc. IPO (MWP:AMEX) (Michigan, Langley)
• 2002:	IPO of MarkWest Energy Partners (MWE:AMEX moved to NYSE 2007)
• 2002 – 2006:	Rapid growth in Southwest; ~\$1 billion in acquisitions plus organic growth
• 2008:	MarkWest Hydrocarbon and MarkWest Energy Partners merge to eliminate IDRs Begins development in Marcellus Shale
• 2009 - 2011:	Forms JV with Energy & Minerals Group (EMG) in Marcellus rapidly expanding Marcellus footprint. Acquires EMG interest 2011; forms new JV for Utica development
• 2012 - 2015:	Reaches 5 billion cubic feet per day of processing capacity Accelerates shale development: 30+ facilities and \$7 billion in organic capital
• 2015:	Becomes 2 nd largest gas processor and 4 th largest fractionator in U.S. Completes strategic combination with MPLX
• 2016:	Continues expansion of G&P infrastructure in prolific resource plays such as the Permian Basin, Cana-Woodford Shale, and Marcellus & Utica Shales

Gathering & Processing





One of the largest NGL and natural gas midstream service providers

- Gathering capacity of 5.4 Bcf/d
 - ~50% Marcellus/Utica; ~50% Southwest
- Processing capacity of 8.4 Bcf/d*
 - ~70% Marcellus/Utica; ~20% Southwest; ~10% Southern Appalachia
- C2 + Fractionation capacity of 553 MBPD**
 - ~90% Marcellus/Utica; ~5% Southwest; ~5% Southern Appalachia

 Primarily fee-based business with highly diverse customer base and established long-term contracts

*Includes processing capacity of non-operated joint venture **Includes condensate stabilization capacity

Raw Natural Gas Production





Gathering and Compression





Processing and Liquids Separation





NGL Transportation





Fractionation





NGL Marketing





 Products used in petrochemical plants, refineries and homes

- 3,350 Truck liftings per month from all facilities
- Monitor and report macro gas and NGL market conditions
- Execute hedge strategy

Segments of the Oil & Gas Industry





MPLX in West Virginia





Marcellus/Utica Overview

3Q21: 3.2 Bcf/d Gathering, 6.1 Bcf/d Processing & 512 MBPD Fractionation





EX owns 100% of plants 1-6 at the Sherwood Complex, plants 7+ are owned 50/50 with Antero Midstream through a joint venture, Sherwood Midstream LLC

MPLX - Gathering & Processing Marcellus & Utica Operations





Cond. Stabilization capacity

Sherwood Complex: Pre-construction





Sherwood 2019





Marcellus & Utica Operations





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