

3-1-2018

Eastern Ohio Shale Dashboard - March 1st, 2018

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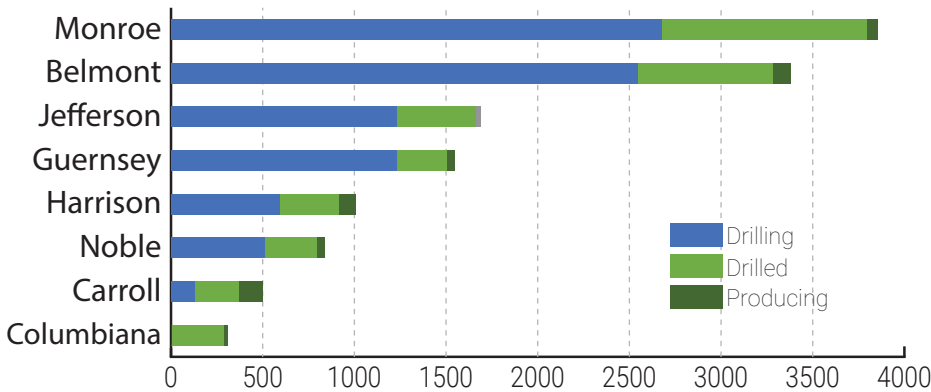
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Eastern Ohio Shale Dashboard

March 1st, 2018

Potentially Created Jobs by County



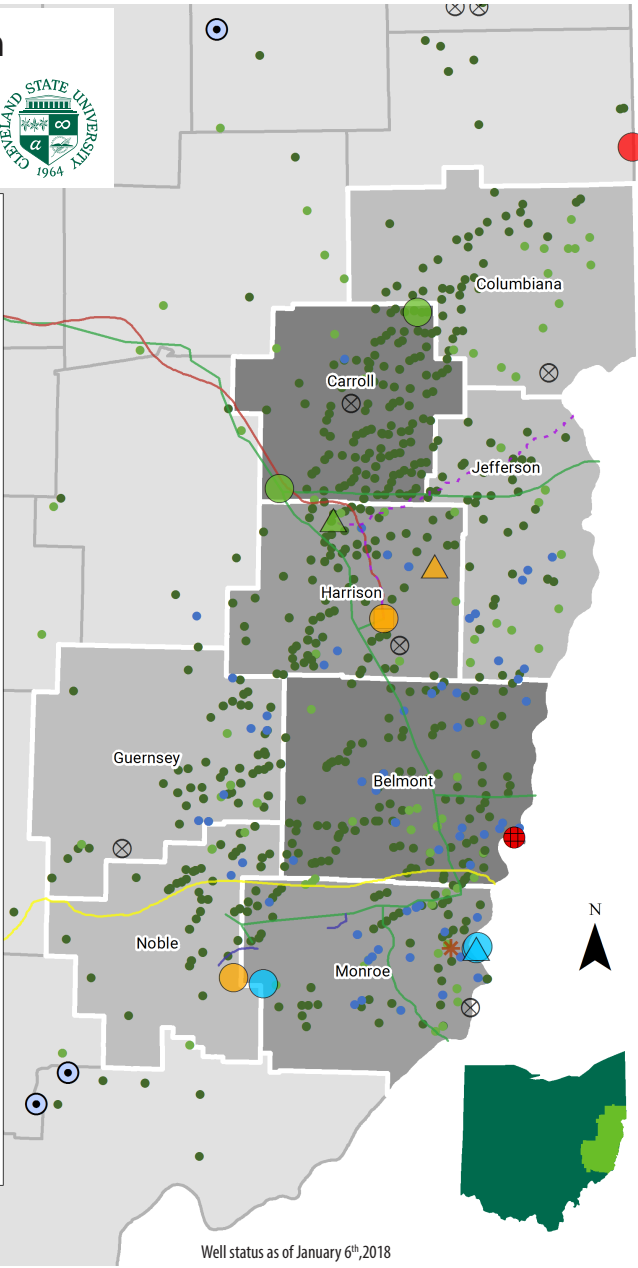
Source: ODNR, CSU Center for Economic Development; as of January 6th, 2018
Note: Jobs are calculated with quarterly coefficients.

Ohio Upstream & Midstream Activities

Created March 1st, 2018



- Downstream Facilities**
 - ⊗ Future Gas-Fired Plant
 - * Potential Gas Storage
 - ⊙ Gas-Fired Power Plants
 - Potential Ethane Cracker
- Fractionation Plants**
 - ▲ Blueracer
 - ▲ Markwest
 - ▲ Utica East Ohio
- Cryogenic Processing Plants**
 - Blueracer
 - Markwest
 - Pennant
 - Utica East Ohio
- De-Ethanzation Plants**
 - Markwest
- New/Proposed Pipelines**
 - Enbridge, Access S., Lebanon
 - Energy Transfer, Rover
 - Kinder Morgan, Utopia East
 - - - Shell Pipeline, Falcon Ethane
 - TransCanada, Leach Xpress
- Nov. 4th Well Status**
 - Drilling
 - Drilled
 - Producing
- # of Total Wells in County**
 - 151 - 250
 - 351 - 449
 - 450 - 548



Well status as of January 6th, 2018

Source: ODNR, CSU Center for Economic Development

Shale Indicators

3Q17 to 4Q17 Quarter 4 Year Change*

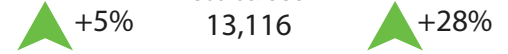
New Well Count

Source: ODNR



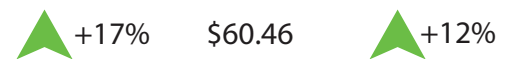
Employment

Source: CSU



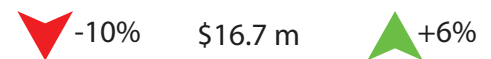
WTI Oil Price per Barrel

Source: EIA on December 29th, 2017



Sales Tax

Source: OH Department of Taxation



Shale Insights

- Between 2014 and early 2016 oil prices collapsed and US economic growth slowed. Prices have doubled since, now hovering near \$60/bbl, and the US economy accelerated. O&G shale industry responds very quickly to market changes and it has a big influence on manufacturing.
- PA environmental protection officials halt construction of the Mariner East 2 pipeline due to issues with private well contamination and unauthorized drilling. Upon completion, Mariner East 2 will carry NGLs from Marcellus Shale to Pennsylvania and potential future hubs.
- Shell Pipeline's Falcon Ethane Pipeline, which will connect supply lines in Ohio to the Shell US ethane cracker in western PA, is expected to begin construction early 2019.
- PTT Global Chemical partners with Daelim Industrial (South Korea) to move forward on prospective ethane cracker in Belmont County. They have agreed to conduct a feasibility study by 2019 before making the final investment decision.
- A. Schulman Inc., the Fairlawn-based polymer and plastics company, is being purchased by Houston-based LyondellBasell for \$2.25 billion, a sign of increasing downstream activity in anticipation of future feedstocks.

*Note: Year changes are calculated from the current quarter to the same quarter the year before.