3-1-2018

Eastern Ohio Shale Dashboard - March 1st, 2018

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Eastern Ohio Shale Dashboard
March 1st, 2018

Potentially Created Jobs by County

<table>
<thead>
<tr>
<th>County</th>
<th>Jobs Created</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monroe</td>
<td>3,500</td>
</tr>
<tr>
<td>Belmont</td>
<td>3,000</td>
</tr>
<tr>
<td>Jefferson</td>
<td>2,500</td>
</tr>
<tr>
<td>Guernsey</td>
<td>2,000</td>
</tr>
<tr>
<td>Harrison</td>
<td>1,500</td>
</tr>
<tr>
<td>Noble</td>
<td>1,000</td>
</tr>
<tr>
<td>Carroll</td>
<td>500</td>
</tr>
<tr>
<td>Columbiana</td>
<td>0</td>
</tr>
</tbody>
</table>

Shale Indicators

3Q17 to 4Q17 Year Change*  
- New Well Count: +8% 
  Source: ODNR
- Employment: +28% 
  Source: CSU
- WTI Oil Price per Barrel: +12% 
  Source: EIA on December 29th, 2017
- Sales Tax: +6% 
  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.

Ohio Upstream & Midstream Activities

Downstream Facilities
- Future Gas-Fired Plant
- Potential Gas Storage
- Gas-Fired Power Plants
- Potential Ethane Cracker

Fractionation Plants
- Bluercracker
- Markwest
- Utica East Ohio

Cryogenic Processing Plants
- Bluercracker
- Markwest
- Pennant
- Utica East Ohio

De-Ethanolization Plants
- Markwest

New/Proposed Pipelines
- Enbridge, Access S., Lebanon
- Energy Transfer, Rover
- Kinder Morgan, Utopia East
- Shell Pipeline, Falcon Ethane
- TransCanada, Leach Xpress

Well status as of January 6th, 2018

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