

# HARPSTER-TO-LIMA PIPELINE PROJECT ACHIEVES ALL MAJOR OBJECTIVES

Energy Services South (ESS), a PLH Group Company, played a significant role in constructing Marathon Petroleum Corporation's new 49-mile condensate pipeline in the Utica Shale region of Ohio. The complex project was a marked success in terms of safety, on-time completion, and quality of construction.

The Harpster-to-Lima pipeline was sought for efficient and safe delivery of liquid condensate to refineries for processing into gasoline and diesel fuels.



## CHALLENGING REQUIREMENTS

The project involved installing 49 miles of 12-inch steel pipeline from the village of Harpster to the city of Lima. ESS also installed seven block valve sites and three facility tie-ins, as well as more than 60 miles of agricultural drain tile to ensure that the soil moisture for crops on the right of way was comparable to the pre-construction state.

Southeast Directional Drilling, another PLH Group Company, completed fifteen horizontal directional drillings (HDD) spanning a total of 18,110 feet, passing under I-75 and other obstacles.

Engineered to support a maximum capacity of 50,000 barrels of condensate per day, the pipeline will easily accommodate Marathon Pipe Line's projected daily shipping rate of approximately 25,000 to 37,000 barrels.

## SAFE, ON TIME, ON BUDGET, AND HIGH QUALITY

Mainline construction began in January 2018 and the pipeline was fully operational within six months – slightly ahead of Marathon's target completion date and also slightly under budget. The Utica build-out project consumed an estimated one million working hours from more than 450 contractors, and over 350 of them were ESS resources. Notably, there were zero recordable injuries throughout the duration of project.

More than 5,300 welds were applied with a high degree of quality. To optimize weld safety and performance, each connected section of the pipeline was X-rayed, and then the full pipeline was tested with water at a pressure much higher than normal operating conditions. The project's low 0.71% weld repair rate is evidence of the construction team's high-quality workmanship.

Additionally, a "smart" caliper tool was run through the completed line to detect pipe damage. No problems were encountered, therefore zero anomaly digs were required following the caliper tool run.

"Everything tested really well," said Ryan Schroeder, business development representative for Marathon Pipe Line. "We're very happy with the quality that we got."

ESS President Paul Sparkman commented: "The Harpster-to-Lima pipeline attests to the hard work of our employees and our commitment to continually exceed our client's expectations."

## IMMEDIATE AND LASTING BENEFITS

Pipeline connectivity of refineries offers reliability, efficiency, economic, and safety advantages. One example beneficiary of the new Harpster-to-Lima pipeline is Husky Lima Refinery. Jason Stechschulte, a commercial development manager for Marathon Pipe Line, said that trucks can only move about 190 barrels at a time, and it would take anywhere from three to four hours for the products to get to Lima. With the new pipeline, 190 barrels can be moved in about five minutes.

## WHY ENERGY SERVICES SOUTH?

Marathon Pipe Line is committed to earning the trust of the communities in which it operates, and the company chooses its service partners accordingly. ESS is proud to have served as Marathon's pipeline construction partner on the Harpster-to-Lima project.

ESS places the utmost value on employee health and safety, and expects complete dedication to the elimination of unsafe practices and conditions. It has extensive nationwide expertise in pipeline construction, station and facility construction, and Department of Transportation-related services, as well as strong relationships with regulators.

Count on ESS and PLH Group's other trusted entities for comprehensive expertise in pipeline construction, directional drilling, and energy and other services. Call us now at 214-272-0500 or visit [www.plhgroupinc.com](http://www.plhgroupinc.com).

## MARATHON PROJECT HIGHLIGHTS:

- 350+ ESS resources
- 49 miles of 12" steel installed
- 15 HDDs completed
- 7 block valve sites and 3 facility tie-ins installed
- 60+ miles of agricultural drain tile installed
- 0.71% weld repair rate for 5,300 welds
- 6 months to mechanically compete mainline construction
- 0 anomaly digs post-caliper tool run
- 0 recordable injuries throughout the project duration



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# Delivering Quality Promising Safety

Complete Pipeline Construction Solutions



As seasoned pipeline professionals, Energy Services South has the resources and talent to provide a complete solution for pipeline infrastructure projects of any size. One such project was Marathon's Harpster-to-Lima pipeline. A 49-mile condensate pipeline completed on time, under budget and without incident. Keeping safety and compliance priority one heightens customer satisfaction. Our industry expertise and impressive history of safety, collaboration, and disciplined project management ensure success.

For more information, visit [plhgroupinc.com](http://plhgroupinc.com) or call 214.272.0500.

<b>50K</b>	<b>18K</b>	<b>5300</b>	<b>0</b>
Barrels of condensate per day at maximum capacity	Feet of horizontal directional drillings	Welds were applied and verified through X-ray	Recordable injuries throughout the duration of project

