

WE PUT A 30" WHERE A 30" COULDN'T GO

DSI assisted in creating a successful partnership between Sunoco & the Motiva Refinery by increasing the daily oil intake to over 300k barrels. DSI delivered a complete design and construction package of offloading barged oil into a Tank storage/Header facility. This was accomplished by transporting the oil through a 30" liquid line to Motiva's Port Arthur refinery.



During this project there were many obstacles to face that seemed impossible to get through, such as:

- Urban Environments
- Swampy Conditions
- Unique Drilling
- Cutting Edge Engineering and Improvisations (Specialized Stands)



DSI had to Open/Cut Highways through the small town of Nederland, Texas which included managing traffic control. To accommodate these obstacles, we made customized signage for the project and constructed a detailed traffic plan that was submitted to DOT per the client.



One of the toughest challenges the operations team faced, was carrying out a 5,800 ft pipe lay through a swampy wetland, with a million-pound drilling rig. DSI accomplished this task by laying over 6,800 ft of 6" thick interlocking mat board. Once the ditch trench was cut, DSI lowered the large diameter pipe in with river weights so the line properly sits on bottom.



Innovative Solutions:

For this project to be completed, 8 more tanks had to be added to an existing 20 tank farm, that came directly off the barge unloading dock. For the tanks to be fed, a slight run (3,700 ft) of 30" had to be installed.

Motiva's Port Arthur Facility is ranked the biggest Refinery in Texas & US, by oil barrel capacity in a calendar day (total - 636,500 bbls)

From the tank farm vicinity, the 30" pipeline made its way to an interconnect, which tied directly into a 36" Header System. This system had to be completely built & commissioned from the ground up.

The project involved several experienced 6G certified welders, crane & equipment operators, & knowledgeable supervision/Project management.

Within the header system, DSI installed several large 27 ft. vertical can pumps. These large pumps were a key element of moving the dense liquid & feeding it into the 30" liquid line DSI installed during the first phase of the project, through the town of Nederland.

The liquid line was run approximately 13 miles to its final destination at Motiva's Port Arthur Refinery.

