



TURNING ON THE TAP

Coastal Production Systems helps the oil industry move more water at greater distances

Oil and water may not mix, but they sure do team up when it comes to drilling — and the flow of both is on the rise in major oil-producing regions of the United States.

As oil companies push to establish more wells for increased production, the demand for water increases, as well. That's because most of U.S. oil is extracted from shale or other tight formations that require hydraulic fracturing — and large volumes of water must be pumped from holding ponds to hydraulic fracturing sites. Often, these are miles apart.

Mavin Travazos, president and owner of Coastal Production Systems, knows what it takes to deliver large volumes of water great distances. The company serves the oil and gas industry with diesel-powered water-transfer pumps that it packages, rents, sells, and services through locations in Texas and Louisiana.

In an industry flooded with 224-kW (300-hp) water transfer pumps, Travazos decided to offer a pumping package with double the power. The package features a high-head, high-flow Cornell pump powered by a 448-kW (600-hp) PowerTech™ PSS 13.5L Final Tier 4 engine.

Travazos says the engine provides the power needed to push water through miles of hose. "We've watched the industry move from 6-inch-diameter (15-centimeter) poly pipe to 12-inch-diameter (30-centimeter) lay-flat hose, and they run in longer stretches, sometimes up to 7 miles (11 kilometers)," says Travazos. "It takes a lot of engine to get that type of volume in that long of a strand. The 448-kW (600-hp) engine will get you that. There are some John Deere-powered units pushing 6,500 to 7,000 gallons (24,605 to 26,498 liters) per minute."

UNITED STATES OIL PRODUCTION HITS RECORD HIGH

U.S. crude oil production is expected to average 12.4 million barrels* per day in 2019, and that figure is predicted to rise in 2020, according to figures published by the U.S. Energy Information Administration. The report goes on to state that “if the domestic and global forecasts are realized, crude oil production at these levels would allow the United States to maintain its status as the world’s leading crude oil producer in both years.”

*One oil barrel is equivalent to 159 liters (42 gallons).



The Permian basin is the largest oil reserve in Texas and is expected to produce an average

4.2 MILLION BARRELS*
a day in 2019.

The infographic features a green silhouette of Texas. The number '4.2' is prominently displayed in white, with 'MILLION BARRELS*' written below it in a smaller white font. Below this, the text 'a day in 2019.' is written in a smaller white font.

Coastal Production Systems offers the pumping unit on a skid or gooseneck trailer. The robust packages are custom-built with heavy-duty axles to withstand the rigors of traveling on rural dirt roads. “It’s a harsh environment driving up and down these rugged dirt roads moving from one location to another,” says Travasos. “They take a beating, but they’ve held up.”

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— Mavin Travasos, Coastal Production Systems

The diesel engine arrives as a complete power unit from John Deere engine distributor, *engines, inc.* “We order our engine package so that we don’t need to do any assembly or painting. This saves us at least a week of time during assembly. Basically, all you’ve got to do is stick a battery on it and give it diesel, and it’s ready to go.”

A 448-kW (600-hp) PSS 13.5L Final Tier 4 engine drives a Cornell 8NHG19 10x8 pump rated at 26,948 liters (57,000 gallons) per minute and 191 meters (625 feet) of head.

Travasos says he appreciates receiving the power unit with the diesel exhaust fluid (DEF) tank already mounted next to the engine, within the frame. “Instead of arriving in a separate box, the DEF tank is tucked inside, out of the way, making it an all-in-one, clean package. That’s a plus for a mobile unit because it helps protect the DEF tank from damage.”

He says the John Deere engines are well accepted. “Engine reliability is very important, and that’s something that we found with John Deere. It’s been a great engine, especially for us in the oil and gas markets. Our customers tell us they feel very comfortable with John Deere engines. They feel like they can go do the job and get through it with ease because the engines are very reliable.”

 Distributor: *engines, inc.*, in Jonesboro, Arkansas;
www.enginespower.com