Case Study

WATER

Location
Gulf of Mexico

End User
Murphy Oil

Year
2001

Project

Medusa SWL Pump Pipes

Murphy Oil is committed to challenging the norm in offshore oil and gas production by leveraging a strong legacy and financial discipline. The mission is to deliver inspired energy solutions through innovative technology and sustainable practices, responsibly meeting global energy needs while minimizing environmental impact.

What We Delivered

DIAMETER	PRESSURE	Length	JOINTS	DELIVERING
8” NPS Class 150	PN10	95’ Total	TigerWrap™ (Butt and Strap Lamination)	Seawater (Cooling)

In the mid-1980s, as the Gulf of Mexico oil and gas market expanded, FIBERBOND® 20HV (CP) was introduced as a lighter, corrosion-resistant alternative to specialty alloys. This FRP piping system has proven ideal for Floating Production Units (FPUs), where it is used in submersible pumps to circulate cooling seawater around engines and machinery. Unlike metals, which suffer from abrasion and rust in turbid seawater, FIBERBOND® 20HV (CP) has shown impressive durability.

For this case study, ITT’s Gould Pumps engineers approached FPI for inspection and hydrotesting of the column pipes after a pump failure. Following repairs, the pipes were successfully returned to service on the Murphy Oil Medusa Platform.

Notably, rust on the exterior and interior of the FRP Column Pipe further highlights the superior performance and longevity of FRP over metal in offshore applications.

> *FIBERBOND® 20HV (CP) for submersible pumps set the standard for success in offshore seawater distribution*

Project
Medusa SWL Pump Pipes

Case Study
WATER

Gallery



Initial impressions taken by ITT's engineers and FPI's engineers and site services to determine utility of 23-year-old pipes

Orthogonal Orientation - Pipe

Bolt Seat Contact Surface

Length of the pipes with extrinsic CS Rust

Flange Face

Orthogonal Orientation - Flange Face

Orthogonal Orientation - Flange

Need
More Info?

Please get in touch with us
casestudies@futurepipe.com