

# Proliner Oil and Gas Services

## Case Study : ENI / Belayim Petroleum company

Proliner Oil and Gas Services

Email: [Sales@prolinertech.com](mailto:Sales@prolinertech.com)

Phone: +20225176381

Fax: +20225192045

Website: [prolinertech.com](http://prolinertech.com)



**PROLINER**  
OIL & GAS PIPELINE SERVICES

## **Case Study: GRE Internal lining and External wrapping (PROWRAP) for 7" Casing**

**Customer** ENI / Belayim Petroleum company

**Country** Arab Republic Of Egypt

### **Winning Team:**

Eng. Tamer Mahmoud

Eng. Mohamed Alaa

Eng. Ahmed Fathy / Eng. Khaled Fayed - Technical Authority,

**Scope** GRE Internal lining with (PROLINER) and External wrapping with (PROWRAP) for 7" Casing, BTC, 26PPF

**Value** between 1-2 Million \$

### **The STORY Issue-Value-Action**

#### **Issue:**

The operation costs associated with the Sea line from Petrico to PP2 at Belayim field were significantly high due to multiple factors. Key issues included the need for inhibitors, H<sub>2</sub>S scavenger, cathodic protection, periodical scanning, thermal isolation, and prolonged time required for installing welding joints. These challenges impacted both the efficiency and cost-effectiveness of the project.

#### **Value:**

Implementing GRE internal lining using PROLINER provided a cost-effective solution by eliminating the need for inhibitors and H<sub>2</sub>S scavengers. External GRE wrapping using PROWRAP enhanced the casing's durability, reducing the frequency of periodical scanning, cathodic protection and the associated costs. The use of threaded 7" casing pipes also expedited the installation process comparing with welding process, significantly reducing the time needed for joint operations and improving overall operational efficiency.

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### **Action:**

Implemented GRE internal lining using PROLINER to address corrosion issues, eliminating the need for inhibitors, and H<sub>2</sub>S scavenger. This not only reduced operational costs but also ensured a corrosion-resistant barrier for the 7-inch casing in the Sea line at Belayim field.

Employed PROWRAP for external GRE wrapping, providing enhanced durability and reducing the necessity for frequent periodical scanning and cathodic protection. This action significantly lowered maintenance costs and prolonged the operational life of the casing.

Utilized GRE threaded 7" casing pipes, streamlining the installation process and substantially decreasing the time required for joint operations. This operational efficiency improvement translated into reduced downtime and increased overall productivity for the project.

By implementing these actions, we successfully addressed the high operation costs, reduced the need for various chemical treatments and frequent inspections, and improved the overall efficiency of the 7-inch casing in the Sea line at Belayim field. This approach not only solved the immediate issues related to operational costs but also aligned with a strategic goal of optimizing production efficiency and resource utilization.

### **Other notes:**

We overcame the time challenge by completing both the internal lining and external wrapping operations for 950 pipes 7-inch in less than 6 weeks. This achievement not only met the project deadline but also demonstrated our commitment to efficient and timely project delivery.

# 7" GRE lining (PROLINER) & External GRE Wrapping (PROWRAP)



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