

Wind Erosion

Application: Wind Erosion with Pipeline Exposure

Owner: El Paso Pipeline Company

General Contractor: Submar, Inc.

Partners: SI Precast & Procast

Location: Jal, NM

Square Feet: 125,920

Submar's articulating mat technology was applied to an El Paso Corporation wind erosion project in the desert of Jal, New Mexico. The project challenge consisted of undulating sand hills which are very susceptible to wind erosion. Severe wind storms impacted the pipeline right of way, removing the sand cover atop the pipeline leaving it partially exposed or fully exposed with bridged pipeline sections. There were 48 pipeline exposures in question with a total linear footage of 1,610 feet. Submar exercised extreme caution on this project due to the adjacent H₂S gas pipelines and a multitude of oil production pipeline crossings. Submar's design entailed placing and processing sand fill over the pipeline, installing a geotube along the centerline of pipe for abrasion resistance, and placing a blanket layer of geotextile below the revetment mat to safeguard the manufactured grade. The project was completed in 58 working days.



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