

Third Laureate Research & Development

- **Project Title:** Two layer pipe productions by thermo hydraulic shrink fit method
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- **Executive Organization:** AZAR AB Industry Company
- **Collaborators:** Mohammad Moghadasinezhad, Ali Kelaki



Abstract:

As we may be aware, in Iran, oil and gas wells are at a point of exceeding their useful life. The precious gas has to unavoidably be burned. In order to prevent environmental pollution resulting from the burning and the waste of these valuable gas sources, the most convenient procedure is to connect two wells together and extract more oil to protect the precious gas resources. One of the main problems of this project is the lack of tubes with a diameter of near 4 inches, with two layers, the inner layer in stainless steel and the outer in carbon steel. The inner one is resistant against sour gas and the outer one resistant against chlorine and high pressure. After research and studies over different procedures, including cladding by welding with stainless steel wires for inner sides of carbon steel pipes, we found out that it would need a lot of time to produce these kind of pipes and it may have high probability of flaws, in consequence this procedure has not been considered.

