

# Title: **200 MMSCFD Gas Compression at Jusepín Complex**

**Date:** 2013-2014

**Scope:** EPC

**Location:** Venezuela

## **About PDVSA:**

Venezuela's state oil company Petróleos de Venezuela S.A. (PDVSA) is engaged in the areas of oil and natural gas exploration, extraction, refining, transportation and sales. The company carries out E&P activities in Venezuela and has refining and marketing operations in the Caribbean, Europe and the US through its Citgo marketing and refining branch. The company also has offices in Argentina, Brazil, Cuba, UK and Holland.

## **Executive Summary:**

Vepica developed the EPC for one of the largest onshore gas compression stations in the country, at the Furrial oil field located in Monagas State, North-East Venezuela. The new facilities have a nominal capacity of 200 MMSCFD @60 psig (suction pressure header) and 1,300 (discharge pressure header).

Jusepin 200 has been using gas turbine-driven centrifugal compressors: 4 trains for 200 MMSCFD, with 2 one-stage low-pressure trains (60 to 250 psig) and 2 two-stage high pressure trains (250 to 1,300 psig). Each train is composed of centrifugal compressors (STC-SV) driven by gas turbines (SGT400).

## **Challenges:**

- Developing an EPC in the country's current circumstances with high inflation and lacking most of the construction materials required to complete the project.
- Interface coordination between the stakeholders on-site, the Client, communities, unions, other contractors and subcontractors.
- Several changes, introduced by the client, were executed and handled by us, almost duplicating the original scope of the work.
- Interacting with two clients at the site. PDVSA Gas and PDVSA IP

**Vepica Solutions:**

Vepica deployed a strong organization, made up of experienced and highly qualified on-site personnel, to support the operation, to facilitate interaction with third parties and to improve the results.

Caracas' engineering team support was maintained until the end of the project, in order to facilitate and implement any design changes.

Our subcontractors were technically and financially supported to meet the increase in scope and project schedule requirements.

Due to problems with the supply of local material, several actions were adopted. Not only by identifying more local suppliers or to segregate some PO's, but also dealing with our client to request the possible loan of some specific materials, and/or by using our international procurement support, including the China office, to mitigate the impact caused, by the delay in obtaining the required material, on construction progress.