



CASE HISTORY



Complete Water Processing Facility Executed in 90 Days with Valiant Surface Engineering

CHALLENGE

- › Implement a complete water injection system in a period of 8 months

SOLUTION

- › Turnkey modular configuration featuring Aquarius™ HPS systems

PRODUCTION DATA

Flow:	7,500 bbls
Pressure:	2,264 psi
Field:	Los Angeles
Country:	Peru

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South America holds the second largest oil reserves in the world. Characterized by unconventional resource plays, operators in the region rely heavily on water injection to recover as much oil from the producing reservoir as possible.

In order to process and then transport the substantial volumes of fluid required for these applications, producers require robust pumping systems.

In Peru, Valiant had the opportunity to help one customer implement a complete and modular surface solution for a water injection application in the Los Angeles field. The operator needed to develop a center processing facility and establish a complete water injection system within a period of 8 months. With no prior experience working on a project of this scale, the operator leaned on Valiant's extensive technical guidance to achieve the project objectives.



To satisfy the operator's technical specifications, Valiant was tasked with providing a horizontal pumping system (HPS) configuration capable of transferring 7,500 barrels of fluid per day at a discharge pressure of 2,264 psi, as well as supplying ancillary components required for the system such as pipe sections, check valves, and globe valves.

While the requirements for this particular application were outside of the typical scope for standard HPS operations, Valiant's team designed and developed a solution integrating HPS designs, pipeline and surface engineering, monitoring and automation technologies, HSE risk analyses and risk mitigation techniques.



Designed with the operator's goals at the forefront, Valiant successfully completed the entire facility in a span of just 90 days with no HSE events and excellence in execution.

Specifically, Valiant provided a complete package comprised of three Aquarius™ HPS units, three Pulse™ variable speed drives, three booster pumps, discharge and suction manifolds, a programmable logic controller (PLC) system and start up service.

By working with the customer to understand their project scope in detail and determine the best strategy for their application, Valiant was able to provide a turnkey solution that satisfied the operator's project specifications within the objective time frame. In light of Valiant's successful execution of the system, the customer announced plans to expand their facility with three more HPS units by 2019.

LATIN AMERICA MANUFACTURING & SERVICE CENTER

Designed by industry experts and built to provide the full range of artificial lift solutions, Valiant's Colombia facility gives regional producers access to state-of-the-art technology and a team of experts who can deliver fit-for-purpose solutions to the wellsite in a safe and timely manner.

CERTIFICATIONS:

ISO 9001, ISO 14001 & OSHAS 18001

CAPABILITIES:

Cable Spooling
Equipment Assembly,
Dismantle & Test
Quality Lab
Machine Shop
Field Service

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