



HUGO D. NAVA M.

Chemical Engineer, MSc. Petroleum Engineer

NATIONALITY:	Venezuelan
CIVIL STATUS:	Married
LANGUAGES:	English and Spanish

SUMMARY

Graduated as Chemical Engineer in 1977, he works in Petroleos de Venezuela PDVSA in an operational area. Main responsibilities include Process Engineer and Supervisor of the Heavy Oil field Production and Refinery getting extensive experience in oil, gas, steam and water conditioning and processing; and Oil and LPG Shipping Terminals.

After more than 10 years working in operations being in charged of technical groups as a Manager of a Basic Engineering Organization and Planning; had under responsibility studies and Project Engineering of medium and heavy Oil, Gas and water Infrastructure for several Assets Production Units, and Portfolio of Opportunities for a Production Division of 12 assets units with 1,4 million barrels per day.

Most of the experience has been focused in the following areas:

- Knowledge in process equipment evaluation such as steam boilers, furnaces, oil-water heater-treaters, heat exchangers, separators, network pipelines for steam, crude, natural gas.
- Knowledge in process evaluation of water treatment for steam generator and polymer solutions plants for enhanced heavy oil recovery.
- Knowledge in heavy crude oil atmospheric distillation process.
- Extensive experience evaluating capacities and capabilities of existing field facilities in order to identify potential bottlenecks and scope for optimization.
- Experience in the design and specification of upstream oil, gas, produced water and steam facilities with extensive experience in conceptual studies and front end engineering.
- Leading the process of Basic Engineering for Surface Infrastructure Projects.
- Ability to identify potential applications for new technology

Strengths in conceptualizing projects and planning, ability to interact positively with multidisciplinary teams work, looking for the solutions to chronic and potential problems in production and projects process with a clear conscientious of costs, environmental and safety rules.

WORK EXPERIENCE

Leader of Project, Front End Engineering Design (FEED) for the Facilities at the Manantiales Behr Field. PROYNCA, 2008

- * Coordination of a visualization and conceptualization project for the production facilities at the Manantiales Behr Field. Work included 3evaluation of the Bases and Premises for the Project Design. Peer review on the processes and power generation installation options for the fluid handling for the exploitation plan.

Leader of Project, Harmonic Plan for the Maurek Field. PROYNCA, 2008

- * Coordination of the surface facilities study for the several fields located in remote areas at South of Argentina. The scope included the visualization project for the crude oil and gas infrastructure, also the environmental and social-economic evaluation.

Leader of Project, PROYNCA, 2007

- * Evaluation of the Compression System Teak Platform, offshore Trinidad & Tobago. Coordination of the Process and Safety Engineering for the compression, depressurization, relief and venting system.
- * Conceptualization of Steam Injection and In situ Combustion Pilot Projects located in Kentucky, USA, including an evaluation of the surface facilities required to perform a pilot program for well bottom heating, cyclic and continuous steam injection and wet combustion (water injection after air injection). The scope included the design bases, cost estimate – Class IV, Economical and Risk Analysis, Health, Safety and Environmental Plan, Execution Plan based on work-break-structure (WBS) and the contracting strategy.

Leader of Project. PROYNCA, 2006

- * Feasibility Study aimed at upgrading the offshore oil & gas production facilities in the Soldado Field, Trinidad, for Trinmar. Evaluation of several scenarios and a long term planning for Soldado field production increase. Analysis and evaluation of the technological options for the crude oil dehydration at the flow stations.
- * Basic Engineering for the offshore Southwest Soldado Field Infrastructure development, Petrotrin, Trinidad. The scope included cluster drilling, gathering system, separation facilities, fluid pumping and gas compression system and pipeline transport and distribution.

Leader of Project. PROYNCA, 2005

- * Feasibility Study on production oil and water treatment in facilities located in the North Intercampo Field, Lake of Maracaibo. Coordination of the evaluation of the different options related to crude oil dehydration, water treatment and disposal, indicating recommendations on the best scheme for the crude oil and water treatment
- * Feasibility study on New System of Gas Compression for the North Intercampo Field, Lake of Maracaibo. Coordination of the identification and analysis of technological options, schemes of operation and costs.

Technical Manager, Oil and Gas projects PROYNCA. - May 2003 – 2004

- * Established Guidelines for Oil & Gas Infrastructure Studies including Oil dehydration, Water conditioning and Gas processing.
- * Validated Process in Project Engineering.

Strategic Planning Leader, Planning Management PDVSA - 2000 – 2002

- * Created Portfolios of Opportunities and Business Plans, based on Risk Analysis and probabilities.
- * Identified key performance indicators in Asset Management for 12 Business Unit.
- * Recommended key guidelines for each of the 12 Business Unit supporting 1,4 million barrels per day.

Basic Engineering Manager, Technical Management PDVSA - 1987 – 1999

- * Developed Feasibility Studies and applied Conceptual & Basic Engineering for oil, gas, water and steam projects, taking into account new technologies, and environmental and safety rules.
- * Advised teams with procedures for ISO-9000 certification in Infrastructure Projects.
- * Implemented continuous improvement production process in Water Injection for Secondary Recovery. (1 million barrels of water per day)
- * The main projects consisted in: Steam Generation and Distribution System Evaluation, Steam generation for SAGD field developing, Dehydration of medium and heavy oils, Produced water Conditioning and Processing Plants, Water and Polymer Injection Plants for enhanced heavy oil recovery, Sand handling in heavy crude oil streams, gas and oil separation and transportation systems, Degassing sweet & sour Heavy Oil and Gas production facilities, LPG, Gas and oil processing plant evaluation and others.
- * Paper "Risk Analysis of LPG Plant at Ule Venezuela". Presented at Gas Processor Association in March of 1992 in Anaheim, CA, USA.

Refinery, Production & Terminals Supervisor, Operations Management PDVSA - 1977 – 1986

- * Supervised and led work teams in production field and oil shipping terminals.
- * Optimization of steam generation and network pipeline systems.
- * Optimization of process equipment of the Caripito Refinery and Production Facilities evaluating capacities and capabilities of existing field facilities in order to identify potential bottlenecks and scope for optimization
- * The main process equipment optimized consisted in fractionating tower, steam boilers, furnaces, oil-water heater-treaters, heat exchangers, separators, pump and compression systems, network pipelines for steam, crude, natural gas.

EDUCATION**Production Asset Management, Robert Gordon University, Scotland UK 2001**

- * Asset Reference Plan for Asset Unit Lagomedio PDVSA Vzla

MSc Petroleum Engineering, Coursework Completed, Universidad del Zulia, Vzla 1999-2001**Business Administration Specialist, Coursework Completed, Universidad del Zulia, Vzla. 1998-1999****Chemical Engineering, Universidad del Zulia, Vzla - 1971-1976**

Thesis: "Hydrogenolysis of homologues of Methane" Advisor: Ramon Neira

- * Reactor design for carry out reaction between hydrogen and alkenes.
- * Making up a prototype reactor at lab level
- * Studying effect in catalyst of nickel