

C.V. of Edgardo E. Medina

Wells Completion, Production, Workover Engineer & ESP Specialist

1 CAREER PROFILE AND KEY SKILLS

- Sound experience in reconciling reservoir and well completion data for accurate design subsurface and surface ESP equipment.
- Solid experience in operating, optimizing and troubleshooting on ESP oil production systems and significant experience in Centrifugal, Schlumberger and WSP Variable Speed Drives VSD controllers.
- Efficiently liaising with reservoir, drilling departments to plan and execute workovers for ESP installations
- Proved competence on workover rig & rigless (2 7/8"CTU) operations to convert GL/NF wells into ESPs and slim ESP installation and commissioning inside 3-1/2" OD tubing at offshore oil wells.
- Accurate wells production optimization, data validation from production well testing data.
- Effective plan, design and prepare ESP well performance test programs and well site supervision.
- Meticulous study of vertical wells with high water cut and recommend remedial water shut-offs.
- Effective decision-making skills, quick response to operational and report of issues that arise in the field.
- Proved experience in preparation and execution of ESP Production operation contracts.
- Management of ESP surface and subsurface engineering CAPEX and OPEX projects, budget proposals, this includes effective following up by implementing tracking systems to verify jobs done versus invoices.
- Effectively evaluate offshore wells jackets by seabed surveys to ensure that WO rig moves will be safe.
- Reliability studies to optimise field productivity on time, whilst minimizing regulatory HSE issues and local country regulations.
- Risk management and HSE management of drilling, completion, workover and production operations.
- Supervise, mentor, motivate and competently develop workover / production junior Petroleum Engineers.

2 PERSONAL

- DOB 14 Aug 1955 in Lima-Peru. Australian citizen living in Perth, Western Australia since 1994.
- Marital status: married one 8 years child dependant.

3 EDUCATION AND PROFESSIONAL AFFILIATIONS

- Bachelor of Science, Major in Petroleum Engineering, Lima-Peru 1980.
- Registered Professional Engineer, Lima-Peru, 1991.
- Member of the Institution of Engineers Australia, 1995.
- Member of Society of Petroleum Engineers SPE.
- Well Testing and Petroleum Economics at the University of NSW, Australia 1995.
- Reservoir Engineering postgraduate course at the University of WA, Australia 1998

4 ADDRESS AND CONTACT NUMBERS

- Home Address: 8 Veneto Way, Stirling, WA 6021, Perth, Western Australia.
- Phone +601123120369 (currently living in Kuala Lumpur), alternately daughter Venus: +61458468175
- E-mail: emedina1955@yahoo.com.au

5 SUMMARY OF EMPLOYMENT HISTORY

- **2014-currently**, Petroliaam Nasional Berhad (PETRONAS) – Malaysia peninsula operations, Production Technologist Specialist
- **2009-2014**, Kuwait Gulf Oil Company - Aramco Gulf Operations, Al-khafji Joint Operations (KJO), Saudi Arabia, Petroleum Engineer / ESP Consultant
- **2003-2009**, Schlumberger Australia, PNG & NZ, Well Testing and Completions ESP Engineer and Senior Field Specialist.
- **1999-2003** Baker Hughes Centrifugal Australia, PNG & NZ, Engineering Applications and Operations Engineer.
- **1997-1998** Pemex Exploration and Production, Mexico, ESP consultant.
- **1996-1997** Reda Production Pumps Perth, Australia, Operations Engineer.
- **1995-1996** ESP Oil, Venezuela (PDVSA) and Occidental Petroleum Corporation (OXY), Peru, Consulting Petroleum Engineer.
- **1993-1994** Ramco Alnas, OXY, Siberia, Russia, Field Service ESP Specialist.
- **1981-1993** Occidental Petroleum Corporation OXY, Amazon region, Peru, Drilling Engineer and Petroleum Engineer Staff

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6 JOB POSITIONS HELD IN THE OIL & GAS INDUSTRY

- KJO Offshore Department Petroleum Engineer / ESP Consultant
- Schlumberger Well Completions ESP Engineer and Senior Field Specialist.
- Baker Hughes Artificial Lift Operations Engineer
- Pemex Exploration and Production ESP consultant
- Santos Australia Consulting Petroleum Engineer
- Ramco Alnas, Siberia Field Service ESP Specialist
- Occidental Petroleum Corporation (OXY) Drilling Engineer and Petroleum Engineer Staff

7 CAREER DEVELOPMENT AND EMPLOYMENT HISTORY

Jun 2014-currently, PETRONAS – Malaysia peninsula operations,

Production Technologist Specialist

- Onsite supervision of installation and commissioning of an ESP inside 3-1/2" tubing at offshore platform.
- Supervise conventional workover rig and rig less ESP installations, i.e. Coil Tubing among others
- Ongoing preparation for the first 3 1/2" through tubing ESP cable deployed installation
- Monitoring operation and troubleshooting existing offshore ESP wells operations
- Ongoing offshore full conversion into ESP system

September 2009 – May 2014, Al-khafji Joint Operations (KJO), Saudi Arabia,

Petroleum Engineer / ESP Consultant.

- Accurate wells data validation and matching the well test data on Pipesim models for ESP wells network optimization.
- Meticulous screening of the proposed well candidates to be converted into ESP completions, this include subsurface and topside facilities as well as reconciling the reservoir data.
- Liaise with the workover department to ensure that each well of a total of 44, are appropriate prepared i.e. water shutoff, re-entries and clean up prior to ESP installations within budget.
- Design, plan and site supervision of ESP well completions, mainly wells converted from natural flow or Gas Lift, i.e. SSSV, sliding sleeves, retrievable packers, adjustable subs, nipple profiles along with the ESP equipment.
- Plan and execute the ESP well commissioning, where power is supplied via submarine cables from dedicated power supply platforms.
- Design, conduct well testing and onsite decisions to have the most efficient flow rate in safe ESP wellsoperating conditions.
- Accomplish daily ESP wells monitoring, plan and implement production optimization.
- Plan and execute periodical well testing with a dedicated testing jack-up rig, validated production test by running Pipesim models.
- Proved experience in implementing ESP project contracts and effectively implemented a tracking invoicing system.
- Troubleshoot on ESP production operations via down hole sensors, well head pressures analysis as well as service surface electrical equipment, i.e. Variable Speed Drives VSD, step up and step down transformers.

2003 – 2009 Schlumberger Australia, PNG & NZ

Well Completions ESP Engineer and Senior Field Specialist.

- Liaised with drilling department to ensure that the new drilled wells meet the requirements to install the ESP down hole equipment and other components.
- Designed and performing well testing using ESP's in new wells.
- Sized ESP down hole equipment and surface electrical controllers.
- Hands on to install and pull ESP equipment as well commissioning pumps to put wells back on production, this includes monitoring until the well parameters are stabilized.
- Proficient knowledge to operate the Schlumberger & Centrilift ESP AL systems.

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Wells Completion, Production, Workover Engineer & ESP Specialist

- Hands on installation, pulling and commissioning downhole monitoring systems, not only in ESP systems; but also in Beam and PCP pumps.
- Liaised with client to keep ESP equipment, surface electrical equipment and inventory parts updated. Proactive in preparing tender for ESP artificial lift systems
- Mentoring young Engineers and Field Technicians was also part of my duties.

2001 – 2003 Baker Hughes Centrilift Australia, PNG & NZ

Operations Engineer

- Hands-on ESP pump repair jobs, which include pulling, installation and commissioning oil/gas as well as water application wells.
- Designed and performed well testing in water wells, based on the good service and performance of the ESP pumps, New Aclan Coal Mine placed an order for new ESP units.
- Prepared and executed work-over programs for LGL-PNG gold mine dewatering wells. Added value to their operations by: successfully applied a cable fishing technique to recover the ESP cable, conventional crane was used. This prevented the customer from incurring high workover rig costs.
- Outstanding preparation of a monthly ESP operations report, which included the optimisation and production increments, client had the benefit of having accurate wells data.
- Prepared equipment quotes, followed up their purchase order approvals in order to have ESP equipment and parts on time.
- Verified that the equipment requested in the tender proposals met the client's needs.

1999 – 2000 Baker Hughes Centrilift Australia – Santos Ltd. Queensland

Operations Engineer

- Sized of downhole and surface electrical ESP equipment plus down hole sensors and chemical injection system if required.
- Materials selection according to produced formation fluids; this includes well head and cable penetrators system.
- Planned well testing using ESP's along with downhole monitoring sensors.
- Coordinated with Santos Ltd regarding well commissioning and pump performance evaluation, traceability of down hole components and pulling/installation reports
- Responsible for the day to day operation of 28 Santos ESP wells, including optimization and trouble shooting. This included assisting Santos Petroleum engineers during their workover programs preparation and execution. As a result of my recommendations Santos increased their oil production and reduced costs due to less number of workovers required per year.

1997-1998 Pemex Exploration and Production, Mexico

ESP Consultant

- Prepared the technical and economic evaluation to implement ESP system in the second largest offshore oil reservoir in the Gulf of Mexico, this study was accepted as a technical ESP paper for SPE in 1998.
- Prepared the sizing of surface and downhole equipment for a pilot ESP offshore well, then, supervised the installation and monitored its production operation.
- Due to the success in this well pilot test, CEALC contract was proposed to be extended for 5 years to provide Pemex technical assistance in their operations.
- Completed the technical section of the ESP tender

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1996-1997 Reda Production Australia

Operations Engineer

- In co-ordination with Camco and Apache Engineers, responsible for sizing and supplying surface and downhole ESP equipment for the development of the Apache Slug offshore oil field.
- In addition, worked for Integrated Project Management IPM with Schlumberger on well testing using ESP units in the South East Asian region.

1995-1996 ESP Oil Venezuela, PDVSA

Consulting Petroleum Engineer

- Mexico (PEMEX) and Peru Occidental Petroleum Company (OXY).
- Worked according to customer programs and needs, e.g. ESP wells optimization, pulling and installation line, workover supervision, monitoring wells and putting them back on production.
- ESP well performance evaluation, troubleshooting, training PDVSA, PEMEX and OXY Engineers/Technicians.

1993-1994 Ramco-Alnas, OXY, Siberia

Field Service ESP Specialist

- Responsible for the company resources, budget and planning to supply equipment, field service and technical assistance to the Russian operator at the Siberia OXY oil production operations.

1984-1993 Occidental Petroleum Corp of OXY Peru

Petroleum Engineer Staff

- In the Engineering department, worked for Engineering ESP team hands on pulling, installations and teardown inspections of the ESP equipment.
- Duties also included the start-up and monitoring ESP wells while they were put back in production as well the day to day production operations and trouble shooting. As a result of the good performance of the ESP team, the pump run lives were significantly extended and the reduction of the number of workovers due to equipment failures.
- Involved in costing, planning, recommending and field execution of remedial workovers (due to lack of gas and water cut increment, all the gas lift wells were converted into ESP systems). Most of these remedial workovers related to oil wells producing by Electrical Submersible Pump (ESP), Liaised with ESP service companies.
- OXY not only produced from more than 100 oils wells with ESP's in the Peruvian Amazon Region, but also they successfully extended this ESP expertise across their operations Colombia, Venezuela and Ecuador.

Drilling Engineer

- In Drilling and Workover departments, responsible for the quality control of incoming drilling data and distribution of computerized drilling reports and supplied drilling and completion equipment in the remote Peruvian Amazon region.
- Supervising drilling and completion operations.

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- Proved experience in preparing drilling programs and submitted them for approval. Liaised with drilling service companies in order to meet the objectives of Occidental in the Amazon region drilled wells.
- Proactive in supplying on time the correct drilling string components in the remote Amazon region, consequently minimized rig delays. My duties included mobilization of drilling service company's operators as well drilling materials.

Training

- Apr 2017 – Permit to Work PTW and JHA achievement certificate
- Jul 2015 – Safety Offshore Passport competence
- Jul 2012 – H2S awareness training at Khafji, Saudi Arabia
- Mar 2009 – Defensive Driving Level 2, Perth Western Australia
- Jul 2008 - QHSE level 2
- Aug 2004 - AE-ESP Schlumberger Paris-France
- Nov 2003 - VSD Schlumberger Paris-France
- Jun 2002 - GCS-VSD Baker Hughes Centrilift – Batam, Indonesia
- Jun 2001 - Project Management – Baker Petrolite - Australia,
- Jan 2001 - ESP System Technology Overview: Downhole and Surface equipment installation, operation and maintenance, Centrilift. Okla USA,
- Aug 1997 - Install, operation & troubleshooting in ESP wells. Reda Pumps, Okla – USA
- Jun1993 - Production Operations I, Oil and Gas Consultants International, Colorado Spring-USA
- Sep 1984 - Install, Operation of ESP's & Field service, Reda - Centrilift Pumps, Okla, USA

Papers:

Customized ESP Installation and Pulling Procedures for OXY - Peru 1988

Technical and Economical Evaluation of the suitable artificial lifting systems for Gulf of Mexico offshore oil fields on 1996.

Languages:

Fluent in written, spoken English and Spanish, basic in Malay, Russian, Arabic and Pidgin-PNG

Sizing software's

Familiar with the major ESP sizing software's and reasonable experience in Pipesim and Prosper.

REFEREES- Available upon request