

**PAUL ELLIS – Process Advisor
B. Eng. (Chem) CEng. MIChemE**

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Status: Married
Nationality: Australian

Availability: Immediate
Base: Adelaide, Australia

Qualifications

Bachelor of Engineering (Chemical) at the University of Adelaide. Degree conferred in May 1983.

Summary

Project focused technical manager and process engineer with over 31 years of diverse experience in the upstream and mid-stream oil and gas industry. Experience with both E&P Operators and major EPC Contractors has provided the necessary insight and ability to successfully manage design and operations teams on both small and large energy projects, through all phases of project development. With a high degree of technical competence, combined with a strong business acumen have successfully shaped and optimised company strategic business plans, particularly in the development of conventional and unconventional gas resources. Distil Company objectives to clear focused definitions to better direct and manage engineering resources, maximising value through the project design phases. Also a proven performer in the challenging international oil and gas arena, and in complex office environments such as joint ventures and alliances, and a clear communicator across all levels and with all project stakeholders. Areas of expertise include:

- Operations Management
- Project Management
- Strategic Business Planning
- Technical Oversight
- Engineering Management
- Cost Estimating
- Process Engineering Studies and Design
- Development of applications for use in engineering design and project management

Career Summary

2015 – Present Pellcon Technical Services
2014 - 2014 Apache Canada, Canada
2012 – 2013 KBR, Australia
2011 - 2012 Exxon Mobil, Australia
2005 - 2010 Apache, Egypt
2002 - 2005 KBR, Australia
1999 - 2002 ABB Lummus Global, Nigeria
1998 - 1999 Granherne Limited, United Kingdom
1997 - 1998 Brown and Root, Egypt
1996 - 1997 Ewbank International Consultants (Pvt) Ltd, Oman
1984 - 1996 Santos Ltd, Australia
1983 - 1984 The Pipeline Authority Canberra (ACT), Australia

Professional Affiliations

Chartered Engineer MIChemE - Institution of Chemical Engineers

Other Information

Well versed in PRO/II, HYSYS, PIPEPHASE, PIPESIM, MS Project, MS Access, MS Office Suite, FRED, FLARESIM, automated application development with Visual Basic, MS Access and Excel.

Professional Experience

**SEPTEMBER 2015 TO PRESENT
PELLCON TECHNICAL SERVICES, INTERNATIONAL**

Principal Process Consultant/ Managing Director

Pellcon Technical Services provide consulting services to the energy industry with a particular focus on the gas production and gas processing. We offer experienced process engineers provide bespoke services to suit the needs of our clients, from assisting E&P Operators and energy industry investors with identifying, quantifying and realizing value from opportunities in the natural gas industry to ensuring engineering design services are performed efficiently with optimized facilities designs, in compliance with performance requirements.

**JANUARY 2014 TO DECEMBER 2014
APACHE CANADA, CANADA**

Principal Process Advisor

Kitimat Upstream Development Project: Directed design activities for the concept engineering phase on a large shale gas development to produce feed to the Kitimat LNG Project. The upstream project, with an estimated cost of approx. \$5.8B, includes a 2,000 mmscf/d gas processing plant using membrane technology for acid gas removal. Membrane technology has never been adopted for this purpose in Canada, and significant effort was made to build contractor knowledge with membranes, and to focus design efforts on the gas plant process design and mechanical layout to reduce project initial capital cost. Other areas of contribution included: production stream composition assessment and establishment of design envelope, process selection, design rationalisation to optimise life cycle costs, ensuring compliance with provincial, national and project effluent and emissions requirements; technical interface management between project areas. Project management support activities included technical coordination of main engineering disciplines; contractor resource selection and rationalisation, detailed review of deliverables to ensure compliance with project quality, performance and integrity requirements, engineering cost and schedule performance monitoring.

**SEPTEMBER 2012 TO DECEMBER 2013
KELLOGG BROWN & ROOT (KBR), ADELAIDE**

Principal Process Engineer

Process engineering design for oil and gas related projects and studies. Took a lead role in larger projects involving multiple-process engineering resources and managed larger multidisciplinary projects; participated in, and coordinated bids, for prospective work, including man-hours estimation, and developing design methodologies. Process engineering activities included:

- Detailed heat loss calculations and process simulation studies on fractionation plant columns, to support planning for a column refurbishment campaign.
- Relief valve demand case review for a large LPG plant and a large gas processing plant, to support changeover to a risk based maintenance strategy.

**FEBRUARY 2011 TO SEPTEMBER 2012
EXXON MOBIL, BRISBANE**

Engineering Consultant

Papua New Guinea Liquefied Natural Gas (PNG LNG) Associated Gas Recovery Project, Papua New Guinea: Upgrade of existing gas processing facilities in the southern highlands of PNG to facilitate the supply of 200 MMSCFD associated gas to the PNG LNG feed gas pipeline. Was a member of a small team providing engineering and project management oversight on a co-venture partner-operator performing the upgrades during the project execution phase, which was being undertaken on an EPCM contract basis. The team's primary focus was ensuring that the partner-operator completed the projects with technical integrity, according to budget and on schedule. (Client: Exxon Mobil)

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**FEBRUARY 2005 TO DECEMBER 2010
APACHE ENERGY, CAIRO, ARAB REPUBLIC OF EGYPT**

Process Engineering Consultant July 2010 – December 2010

Salam Gas Train No. 5, Western Desert, Egypt: Supervised the engineering contractor during front-end engineering design (FEED) for a new 100 MMSCFD gas processing train using membrane technology for acid gas removal. Project involvement comprised design validation for compliance with project requirements and industry design codes and specifications, as well as identifying and developing cost-reduction and process-enhancement opportunities by way of integration with existing facilities. Subsequently developed the tender package for the implementation of the project on an engineering, procurement and construction (EPC) basis.

Gas Facilities General Manager (Khalda Joint Venture) October 2005 – June 2010

Qasr Gas Field Development, Western Desert, Egypt: Managed the Gas Facilities department in the Khalda Petroleum Company (Apache–Egyptian General Petroleum Company joint venture) during a period of significant growth. The key focus was the development of the Qasr Gas Field—installing plant and equipment required to take production from 550 MMSCFD to over 750 MMSCFD and 35,000 BPD condensate. Projects included field pipelines and manifolds, 2 x 100 MMSCFD gas processing/condensate stabilisation trains utilising membrane technology for acid gas removal; and a sales gas pipeline boost compressor station—representing a total investment of over \$600MM. Also took a lead role in the technical scoping of interfaces between the main projects; contractor pre-qualifications; contract strategy development; tender package development; technical and commercial bid assessments; directing the main gas plant EPC contractor during the detail design over the execution phase, to ensure contract compliance; resolution of contractual disputes pertaining to contractor performance and plant performance; and resourcing of operations staff.

Qasr Gas Field Compression Conceptual Study, Western Desert, Egypt: Developed scope of work for the study and conducted contractor prequalification. Closely managed the contractor and company stakeholders to ensure study outcomes met reservoir and production goals and facilitated an optimum investment decision.

This position also entailed the management of existing plant operations, including a workforce of approximately 200 persons comprising both expatriates and Egyptian nationals. Responsible for ensuring the safe operation of plant and equipment in accordance with company and international standards; maximising the production of existing and new facilities; budget development and expenditure control; and regular reporting to Apache senior management and board.

Process Engineering Consultant February 2005 – October 2005

Qasr Gas Field Early Gas Project, Western Desert, Egypt: Represented Apache Egypt on a joint interface team established to deliver Qasr raw gas and condensate to the Obaiyed Gas Plant, operated by Shell. Contributed to the resolution of technical and contractual issues associated with processing through a third-party plant, such as the feed gas facility design, including interface safeguarding; the presence of mercury; fiscal metering and pre-start-up audits.

**JUNE 2002 TO FEBRUARY 2005
KBR, ADELAIDE**

Project Manager / Senior Process Engineer

Project King, Cooper Basin, South Australia: Project Manager for the upgrade of wellhead facilities for more than 140 gas wells. Developed the project implementation strategy and optimised the schedule; managed budget and cost forecasting; managed contractor reviews and selection and contract development; and ensured compliance with client safety and work procedures. (Client: Santos Limited)

Katnook Compression Project, Penola, South Australia: Project Manager for compression installation in an existing gas plant. Performed all project management functions, including cooperation with Origin reservoir operations groups and management to ensure the project met all stakeholder requirements; directing the engineering contractor during the detailed design phase; coordinating environmental and regulatory approvals; development of contract and purchase orders; procurement; budget development and allocation; cost tracking/forecasting; progress reporting; scheduling; and resourcing through the full project lifecycle, up to and including commissioning and start up. (Client: Origin Energy)

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**NOVEMBER 1999 TO JUNE 2002
ABB LUMMUS GLOBAL, LAGOS, NIGERIA**

Project Manager; Process Discipline Head

ABB/NETCO Engineering Design Office (EDO), Niger Delta, Nigeria: Part of a large design office providing engineering services to Chevron Nigeria Ltd (CNL) for the modification/upgrade of onshore and offshore production facilities in the Niger Delta. Activities included supervision of and technical responsibility for the process engineering group; management of projects; and acting for the design office manager in his absence. Main projects included FEED for a water injection platform capacity upgrade to 210,000 BPD; installation of cyclone separators on wellhead jackets; a conceptual study for the recovery of gas from flow station surge tanks; and installation of a new aviation fuel storage/distribution facility. Project management included coordination of resources to support multidisciplinary design projects, cost estimating and bid development for new projects, development of software/databases to monitor the performance of projects, development of progress reports, contractor invoicing, and materials procurement. (Client: Chevron Nigeria)

**DECEMBER 1998 TO JUNE 1999
GRANHERNE LIMITED, SURREY, UNITED KINGDOM**

Principal Process Engineer

Amenam Oil Field Development, offshore Nigeria: Process Engineer on a large design team undertaking the FEED for the Amenam field main offshore production platform. Responsible for design of the flare system for the platform, including piping/equipment sizing, relief valve sizing, radiation level assessment, and development of the platform flare/blowdown report. (Client: Elf Petroleum)

**JANUARY 1998 TO DECEMBER 1998
BROWN AND ROOT, CAIRO, ARAB REPUBLIC OF EGYPT**

Lead Process Engineer

Obaiyed Gas Development Project, Western Desert, Egypt: Responsible for the process engineering design, including the processing plant and flowlines. Plant design capacity 410 MMSCFD gas and 64,000 BPD condensate. The process team included five to eight process engineers. Extensive involvement in resolving technical issues with the client and assisting the project management team in the formulation/assessment of contractual claims. (Client: Shell Egypt)

**FEBRUARY 1996 TO DECEMBER 1997
EWBANK INTERNATIONAL CONSULTANTS, MUSCAT, OMAN**

Discipline Head – Process

Ewbank Engineering Design Office, Muscat, Oman: Responsible for the organisation, planning, technical output and ISO 9000 compliance of the Muscat office's Process Engineering Department, consisting of eight process engineers. The design office provided full design services to the Shell joint venture, PDO (Petroleum Development Oman), to upgrade/modify oil and gas production facilities in southern Oman. Also responsible for the management of small- to medium-sized projects and assisting with bid development for new projects.

Senior Process Engineer

Lead *Process Engineer* for the following projects:

- Detailed performance review of an existing LPG plant
- Detailed process review of a large four-train turbo expander gas plant to identify and remove bottlenecks to increase processing rates
- Refinery offsites detailed design, to be constructed in Dubai, United Arab Emirates
- Concept and detailed design of an oil production station expansion to accommodate production increase.

**JUNE 1984 TO FEBRUARY 1996
SANTOS LIMITED, ADEALIDE AUSTRALIA**

Senior Process Engineer 1994 - 1996

Field Production Support, Cooper Basin, South Australia: Moomba South Central Sales Gas Storage System capacity upgrade, which included conceptual engineering for pipeline system design and new well hook-ups, a detailed review of separation equipment, and compressor performance studies. Also worked on a natural gas field development feasibility study to identify and rank future development options. This involved a computer simulation study of a gas gathering system, as well as a detailed compression study.

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Plant Engineer 1990 - 1994

Plant Engineer, Port Bonython, South Australia: Site-based operations engineering position at a large LPG fractionation and crude/naphtha splitter plant that included crude/naphtha and refrigerated LPG storage facilities and a sea loading terminal. Undertook troubleshooting of plant operations, performance tests, heat loss studies, HAZOP reviews and plant safety reviews. Also monitored the extent of asphaltene precipitation within processing equipment; conducted trials to improve methods for online removal; and managed product quality control, blending operations and production forecasting.

Developed plant operating strategies to ensure quality specification compliance and maximise efficiency, and served as acting process manager from time to time. Also involved with plant performance studies and a fire protection system review.

Process Engineer – field and office based 1984 - 1990

Field Production Support, Cooper Basin South Australia: Site (Cooper Basin) and office based role providing technical support to both oil and gas operations. Undertook equipment and piping modifications and commissioning of the new plant and equipment. Other activities included: front-end process design of new oil developments, computer simulation modelling of oil and gas production systems, and performance testing of field equipment and testing/selection of oil field chemicals.

MAY 1983 TO JUNE 1984

THE PIPELINE AUTHORITY, CANBERRA, AUSTRALIA

Engineer

Moomba–Sydney Pipeline Operator: Provided engineering support for the pipeline operations and maintenance group.