

Bob Reid - Petroleum Engineer

- Petrophysicist
- Asset Evaluation & Management
- Unitisation & Redetermination Specialist



Personal Information

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Employment Summary

1999 –Present Independent Consultant

- Currently acting as Petrophysical Consultant to Maersk Oil, Stavanger
- Petrophysical Consultant & Equity Advisor to DONG Energy, Copenhagen
- Consultant Petrophysicist, Equity Advisor & Unitisation Team Leader for CEPSA, Madrid
- Geoscience Advisor to Halliburton Energy Services, Cairo, Egypt

1988 - 99 Shell International

- Discipline Head of Petrophysics, Head of Exploration Support and Non-operated License Manager – Norske Shell, Stavanger, Norway
- Head of Petrophysics and Senior Petroleum Engineer – NAM - Holland
- Head of Petrophysics and Partner Liaison – Shell Egypt – Cairo, Egypt
- Single String Venture Consultant – The Hague - Holland

1985 – 88 Geoservices Production Consultants

- New Tools Development – Geoservices Paris, Paris
- Well test design and Project Management for Shell Gabon
- Formation Evaluation Consultant to PDO Oman

1982 – 85 British Petroleum

- Formation Evaluation Operations – Aberdeen, Scotland
- Senior Petrophysicist – Equity Determinations – London, England

1976 – 81 Schlumberger Wireline Services

- Base Manager - Mexico
- Log Analyst / Petrophysicist - Mexico
- Field Engineer - Venezuela, Bolivia, Guatemala

Education

1981 - 82 Heriot-Watt University

- M.Eng Petroleum Engineering

1970 - 73 London University

- BSc. Aeronautical Engineering (1st Class Honours)

Professional

- Member of Society of Petroleum Engineers and the Society of Professional Well Log Analysts

Languages

- English Mother tongue
- Spanish Good
- German, Basic
- Dutch Basic

Skills and Detailed Employment Record:

Overview

A confident technical professional with broad and full understanding of the Exploration and Production business. More than thirty years international experience in formation evaluation including: log data acquisition, logging tool development; logging and well test operations, planning, supervision and interpretation; production logging interpretation; core analysis; integrated field study and field development planning. Up to date knowledge and 'hands-on' experience of both carbonate and clastic interpretation in a wide range of sedimentary environments. Computer literate and familiar with most commercially available log storage and interpretation packages (Terrastation, Openworks , PowerLog Geographix, IP, Geolog, Petrel etc).

Both a team player and competent multi-disciplinary team leader with strong mentoring and Management skills. Particularly experienced in unitisation agreement and redetermination work; partner liaison in both operated and non-operated ventures; field development planning; asset valuation, divestment and acquisition; tendering and supervision of service company contracts.

1999 – Present

Independent Petroleum Engineering Consultant

Currently acting as Petrophysical Consultant at Maersk Oil, Stavanger.

Previously worked as Petrophysical Consultant with DONG Energy, Copenhagen and CEPSA, Madrid and acted as the regional Geoscience advisor for Halliburton Energy Services in Cairo.

1995 – 1999

Norske Shell A/S, Stavanger, Norway Discipline Head of Petrophysics, Head of Exploration Support and Non-operated Joint Venture Manager.

Discipline Head of Petrophysics with responsibility for the technical integrity of all petrophysical work performed by Norske Shell or for Shell by consultants, contractors and other operators.

Tasks included the preparation, supervision and execution of formation evaluation programmes for all Shell operated exploration and production wells; the supervision and provision of petrophysical field studies for volumetric calculations and development planning; technical audits of non-operated ventures in which Norske Shell has an interest.

Final major project was the supervision of the petrophysical work for the First Redetermination of Equity of The Troll Field (1700 Milliard Gas Reserves, 1 Billion bbl Oil). This project was carried out on behalf of the license group PL054 comprising Norske Shell, Conoco, Total and Elf. The process involved technical negotiations, production of an Expert Submission and an Expert Rebuttal Document.

Head of Exploration Support Team. This team provided petroleum and field engineering services to the Exploration Department for prospect evaluation studies, trades and license applications. Notably, this included 'fast-track' field appraisal and development planning for undrilled exploration prospects; the objective being to minimise the time from discovery to 'first oil'.

Norske Shell Continued

Non-operated Joint Venture Manager for two licenses in which Norske Shell had a significant share (US\$250M). Represented Shell at management committee level with responsibility for all field development issues and commercial aspects including equity determination, tariff negotiations and budget control.

On arrival in Norske Shell was initially responsible for coordinating the petroleum engineering integrated computing portfolio and data management systems. This project was successfully closed out and a data management team set up.

1991 – 1995

NAM - Business Unit Gas Land, Holland Head of Petrophysics and Senior Petroleum Engineer

Head of Petrophysics responsible for management of electric wireline operations and contractors, the supervision and quality management of petrophysical interpretations in the business unit and the day to day management of the petrophysics section comprising 6 to 8 petrophysical engineers and technical assistants. Acted as the mentor for subordinate staff and directed their training and long-term development.

Additional responsibilities included; acting as the Company focal point for all subsidence and core related matters and as the focal point/administrator of the Unit's Technology Plan and Research Programme.

Specific technical tasks included a major review of the uncertainties in Zechstein Carbonate interpretation which lead to better reserves definition and the use of novel development techniques including under-balanced drilling with intelligent coiled tubing.

1989 – 1991

Shell Egypt, Cairo Head of Petrophysics and Partner Liaison

Head of Petrophysics responsible for management of electric wireline operations, contractors and Joint Venture Company (Bapetco, Suco) operations and petrophysical work. Provided evaluation reports and advice on competitor's wells and wells drilled by previous operators in Shell Egypt's concessions.

Made field reviews of all Shell Egypt's assets and assisted in the preparation/quantification of the country reserves and business plan. One specific task was the divestment of a 'brown field' asset, which involved the setting up of a data room, production of an 'asset reference brochure' and liaison with the commercial bankers (Schroders) who handled the sale and marketing.

Recruited, trained and acted as petrophysical mentor of a number of National Staff, installed a new petrophysical interpretation system and implemented data storage procedures.

1988 – 1989

**Shell International (SIPM), The Hague, Holland
Single String Venture Consultant**

Provided formation evaluation support and advice to single string ventures in Europe, The Middle East and Africa. This included the planning and interpretation (and occasionally on-site supervision) of coring programmes, logging operations and well tests.

Gave technical advice to other Shell Operating Companies and reviewed non-Shell operated petrophysical work. Performed short 'acquisition' studies for European and Middle East ventures.

Coached and trained 'new-hire' petrophysical engineers.

1985 – 1988

**Geoservices Production Consultants, Sultanate of
Oman, West Africa and Paris**

Initially employed as a petrophysical consultant to PDO (Production Development Oman). This involved both operational and field development work in fractured carbonate/chalk reservoirs. Simultaneously supervised and administered the contracts of up to twenty Geoservices mud-loggers and wellsite geologists who were also contracted to PDO.

In mid 1986 moved to well test design, supervision and interpretation for Shell Gabon in Gamba and Port Gentil. Assisted Shell Gabon in the planning and interpretation of the well tests for the first three *Rabi* appraisal wells. Also provided on-site supervision of the Geoservices well test teams.

Briefly worked in well test tool development in Paris. Planned and executed the successful field testing of a new real time wireless downhole pressure and temperature sensor.

1982 – 1985

British Petroleum, London and Aberdeen

Senior Petrophysicist in the London Equities Team responsible for the petrophysical input to the Final Redetermination of Equity of the Chevron operated Ninian Field. Built a full field subsurface volumetric model which was used for running equity sensitivities; this gave a significant competitive advantage in the redetermination negotiations.

In mid 1983 moved to the North Sea Formation Evaluation Operations team in Aberdeen. Responsible for planning and execution of logging programmes and well tests of exploration and appraisal wells. This included offshore supervision and the interpretation of real time data. Notably, was in charge of the first 'massive propped frac job' performed by Halliburton in the North Sea using their then new boat the Scandic Fjord.

1976 – 1981

Schlumberger Wireline Services, South and Central America.

Worked as a wireline Field Engineer, Senior Field Engineer and then General Field Engineer in Bolivia, Venezuela and Guatemala respectively. Was the cased hole logging 'expert' in Venezuela with responsibility for advising clients on choice of diagnostic tools and interpretation techniques.

Worked briefly as a log analyst in the Mexico City Field Log Interpretation Centre mainly on Dipmeter interpretation. In 1979 Moved to North West Mexico to set up and manage a new wireline operating base servicing a major exploration campaign in the Gulf of California. This base subsequently employed more than fifty staff.