



Curriculum Vitae

Boas Arnon



Summary

A highly experienced Petroleum Development Geologist and Reservoir Surveillance Engineer with a background in both operations / studies and a firm belief in the value of traditional analytical Geological and Reservoir engineering tools.

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SUMMARY

Professional Production Geo-Scientist with 42 years' experience in Geological and Geophysical interpretations. Technical expertise in Oil & Gas Field Development & Exploration, with the use of well logs, core descriptions, sequence stratigraphic & seismic stratigraphic concepts. Expertise in mature field development. Integration of geologic and production performance data in locating additional infill drilling targets and assessing barrel chasing opportunities behind pipe. Production optimization, construction of 3D geologic and reservoir fluid simulation models and their history matching. In the Past 18 years I have taught for Shell, Exxon and Independent Producers around the world schools on 'Practical Production Geology' and 'Advanced Development Geology' and 'Surveillance Mapping' of 3 days' duration. Expert knowledge of Development techniques, field static and dynamic simulation, field operations, log analysis, log correlations, core description, structure and stratigraphic mapping, volumes, equity assessment, personal computer and work-station usage.

PROFESSIONAL EXPERIENCE

January 2003 - Present - LTRO Ltd. Locate and Target Remaining Oil.

Detailed geological and reservoir engineering studies. Detailed field reviews and assessments. Data interpretation and integration, leading to identifying additional infill drilling and barrel chasing behind pipe opportunities.

Projects / Clients Shell UK – NNS fields, Shell Gabon – Rabi field study, Shell NL EPTG Nigeria field assessments, Salym Russia – Salym field peer reviews, Maersk Kazakhstan field development, Avenue O&G Heletz field redevelopment, Addax Cameroon Nigeria and Gabon onshore & offshore field development, Addax / Talisman UK NS. EnQuest Malaysia UK.

Private investors US field assessment.

2003 - 2020 Shell and ExxonMobil: Delivered courses and workshops on Practical production Geology & Advanced Field Development Concepts & Practical Surveillance techniques and Surveillance Mapping courses. Additional



courses offered: 1. Horizontal wells, use and interpretation of horizontal well data, and worldwide horizontal technology application. 2. Tight gas Development, review of worldwide Geologic controls and best reservoir development practices.

2003 - 2004 and 2011-2015 Addax Petroleum Services

In Geneva Switzerland, & Lagos Nigeria, & Doula Cameroon, & Port Gentil Gabon and Aberdeen UK offices. Provide Geologic and Reservoir surveillance input and support to an infill drilling and barrel chasing opportunities in Addax's Offshore and Onshore mature fields. Developed countless infill drill well leads and proposals and workover proposals.

August 1997 – December 2002 Shell UK

Shell Expro Aberdeen UK. Brent field, detailed geological and reservoir engineering studies. Field data integration and identifying additional infill drilling and barrel chasing behind pipe opportunities.

With the unique LTRO (Locate and Target the Remaining Oil) process developed to manage the Brent field, consisting of regular surveillance maps generation and update. The LTRO team have generated the ideas behind the last six years of ongoing Brent field drilling and cased hole work on 4 rigs and 4 concurrent work over units both continuous for over 6 + years.

From 1998 to the end of 2002 the Brent field has undergone the largest offshore gas cap blow down and depressurization project in the world. With thin oil rims and lower energy for drive every year we still drilled over 60 new wells. These new wells were drilled for additional recovery, capture reserves with no acceleration benefits. The suite of wells is expected to produce some 52 Mbo and 548 Bcfg. One dry hole was drilled, with overall very difficult depressurized drilling, which was very expensive.

November 1993 - July 1997 Independent Consulting

Exploration and Production projects in: USA, UK, France, ME, Africa, and the Soviet Union. Construction of mature fields 3D geologic and reservoir simulation models. Integration of production data, infill drilling and work over program generation. Economic assessment of mature fields.

July 1989 - October 1993 Exxon UK

ESSO Exploration and Production - London UK. Northern North Sea.
Sr. Geological Advisor. Principal Reservoir Scientist & Brent Field Redevelopment Geological Advisor.

February 1986 - July 1989 Esso France

ESSO Research, Exploration and Production France - Bordeaux France.
Exploration and Production France, Paris & Aquitaine Basins.
Chief Production Geologist. Chounoy field development supervision, reservoir geology and production engineering studies.

August 1978 - February 1986 Exxon

EXXON Company USA.
Production Department SE Texas Division, Kingwood and Houston, TX. Prod. Geol.
Production Department SE Louisiana Division Lafayette Louisiana, Prod. Geol.



Exploration Department Offshore Divisions, Houston Texas, Geophysical interpreter.
Exploration Department Offshore Divisions - Houston, Texas, Well Site Operations.
Exploration South East Division - New Orleans, Louisiana Exploration Geophysicist.
Exploration Data Processing Center - Houston Texas, Processing Geophysicist.

Education

1978 MSc. Geology, Sedimentology program
Rensselaer Polytechnic Institute Troy, NY.
Thesis: Recognizing Terrigenous Depositional Environments
Under Dr. G.M. Friedman, Published AAPP/SEPM Special publication.

1976 BSc. Geology & Physics, minor in **Computer Science**, at Hunter College,
CUNY, NY. Graduated Cum Laude.

Personal Details

Born April 23, 1957, Nationality U.S.A.
Permanent Resident of UK.
Married with three boys/men.

UK work permit, and USA citizen.

Mobility:

But willing to make dedicated working business visits of up to two or three weeks' duration per month onsite, in any part of the world.

References available on request.

