

HAROLD L. IRBY

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Over twenty five years petroleum industry experience. Holder of **BS, MS** and **MBA** degrees from nationally recognized universities. Practical and economic approaches to problem solving, management, planning, administration, operations and value creation. International experience and diverse cultural exposure in numerous countries. Strong interpersonal skills applied in relationships from executives to field operatives.

Sonangol Pesquisa & Produção, Luanda, Angola 2007 - 2008

Sr. Reservoir Engineer, Team Leader Petroleum Engineering, Multi-disciplinary Field Development

Senior Reservoir Engineer, Team Leader in multidisciplinary integrated team consisting of geological, geophysical, petrophysical, reservoir engineering for the re-development of numerous large offshore fields with multiple carbonate reservoirs offshore Angola, West Africa.

Utilized 3D modeling packages such as Petrel and Eclipse reservoir simulation to confirm re-development strategies to prolong the life of the fields and to increase future production.

Applied probabilistic techniques for remaining reserves determination P10, P50 and P90 and incremental economics for various re-development strategies.

Implemented project economics as a measure project ranking and for determining re-development projects to pursue.

Projects consisted of several currently developed offshore fields consisting of carbonates oil reservoirs and existing surface facilities and Floating Production and Storage transportation systems.

Prepared presentations of re-development strategies for technical committee meetings with partners.

Teknica Overseas Limited, Calgary, Alberta, Canada 2006 - 2007

Reservoir Engineer Reservoir Engineering, Multi-disciplinary, Integrated Field Study

Reservoir engineer in multidisciplinary integrated team consisting of geological, geophysical, petrophysical, reservoir engineering, reservoir modeling for a full field review and development planning for a large offshore field with multiple fractured carbonate reservoirs offshore southern Gulf of Mexico for Pemex.

Confirmed via independent means the original oil in place and oil reserves estimates; created field development production profiles, updated pressure transient analysis and compiled 150 page reservoir engineering report. Project consisted of a large offshore fractured carbonate oil field.

Knowledge Reservoir / Uzma Engineering, Kuala Lumpur, Malaysia 2005 - 2006

Project Manager Multi-disciplinary, Integrated Full Field Review

Managed an integrated team consisting of geological, geophysical, petrophysical, reservoir engineering, production engineering, 3D reservoir modeling and information technology personnel for a full field review and re-development planning for (500 MMbbl) Temana oil and gas field offshore Sarawak, Malaysia

Re-directed project in virtual disarray and managed to change the project's course, quality of results and acceptance by the project's client, Petronas Carigali Sdn. Bhd.

Completed numerous cost-time-resource requirements during course of project and passed Petronas' Field Development Review Committee for project continuation and conclusion

PARES Petroleum and Reservoir Engineering, Los Angeles, California 2001 - 2005

Manager Petroleum Engineering Petroleum Development, Economics and Planning

Consultant to private investors in U. S. independent oil and gas industry primarily in California, U.S.A.

Evaluation and development of petroleum opportunities in known producing areas, Ventura County, California
Proposed exploration/development project for commensurate investor rates of returns in Kentucky and Nevada, U.S.A.

SAUDI ARAMCO, Dhahran, Saudi Arabia 1998 - 2001

Petroleum Engineering Specialist **Reservoir Development Planning Division**
Petroleum Engineering and Development Department

Development of the semi-annual business plans oil and gas programs and associated capital budgets
Field development project economics for currently producing fields and future incremental development opportunities within the Kingdom of Saudi Arabia
Analysis of domestic gas grid and plant through puts for improved gas program planning

Petronas Carigali Sdn. Bhd., Kuala Lumpur, Malaysia 1996 - 1998

Staff Engineer / Staff Petrophysicist **Development Petroleum Engineering**

Project bid proposals and submissions to The Ministry of Oil and Gas Industry of the Republic of Kazakhstan for the second largest oil field in Kazakhstan, Uzen; USD 3 Billion total expected project budget
Integrated geological, petrophysical, engineering analysis with respect to property evaluation and acquisitions in Sudan and the Caspian Sea, Turkmenistan and for operations within Malaysia

ARCO International Oil and Gas Company, Plano, Texas 1989 - 1993

Staff Petroleum Engineer / Petrophysicist **Petroleum Engineering, International Headquarters Staff**

Key multi-disciplinary team member in the discovery of 750 million barrel oil field in Ecuador; Integrated geological / petrophysical / petroleum engineering evaluation, NPV approximately \$100MM; compiled reservoir reports and made presentations to corporate management and partner companies
Offshore China gas field interdisciplinary development team member, updated previous petrophysical and engineering report, reserves determination and production economics; coordinated with development geology and petroleum reservoir engineering personnel to present managerial reviews and approvals
Analyzed petroleum properties utilizing principles of exploration economics, reservoir and production engineering, and financial analysis for Net Present Value, sensitivity and investment decision criteria in West Africa, Middle East and other international areas of interest

ARCO International Oil and Gas Company, Los Angeles, California 1984 - 1988

Staff Petrophysical Engineer **Reservoir Engineering, International Headquarters Staff**

Key team member in preparation of field reservoir report; evaluation and development plans, of Offshore South China Sea, Yacheng Gas Field, 3 TCF discovery; performed analysis and made recommendations which realigned the project for positive economic results, \$1Billion range project
Key multi-disciplinary team member in evaluation of Middle East, West African and other international properties offered by various business entities, provided on site analysis as required
Multi-disciplinary team member for evaluation of international petroleum properties offered by a major oil company based in Houston, Texas, for acquisition purposes
Reservoir description project, Zhanjiang, Peoples Republic of China, low porosity, high permeability, 3 TCF Yacheng Gas Field, integrated conventional core, wireline log and drill stem test evaluation, presentation of results to senior management of KUFPEC (Kuwait) and National Offshore Oil Corp. in Beijing, P.R.C.

Halliburton Energy Services, Houston, Texas 1983 - 1984

Assistant Manager Evaluation Engineering **U.S.A. & International Division**

Managed international headquarters staff of 20 personnel providing evaluation and interpretation services for a diverse client base both domestically and internationally

Schlumberger Inland Services, Aberdeen, Scotland, U.K. 1982 - 1983

Senior Petrophysicist **U. K. North Sea, United Kingdom Onshore**

Provided open and cased hole, log interpretation, log analysis services to a diverse client base operating in the U.K. North Sea, Ireland, U.K. Onshore and other international areas, e.g. Malacca Straits, Malaysia, operated by U.K. based petroleum exploration and production companies

Schlumberger Offshore Services, Houston, Texas 1981 - 1982

Petrophysicist **Gulf of Mexico, U.S.A. East Coast Offshore**

Provided open and cased hole petrophysical, log interpretation and computing center log analysis services to a diverse client base operating in the U.S. Gulf of Mexico and U.S. East Coast Offshore areas

Interfaced with client company's engineering, exploration and management personnel with respect to reservoir interpretations, field and computing center analysis quality

Schlumberger Offshore Services, Davisville, Rhode Island 1978 - 1980

General Field Engineer **U.S.A. East Coast Offshore**

Managed field crew and equipment for assigned clients U.S.A. East Coast Offshore

Wrote well evaluation paper that improved operational and reservoir evaluation procedures; created \$20,000/mo. additional revenues for Schlumberger and provided more reliable exploration well decisions

Schlumberger Offshore Services, Morgan City, Louisiana 1974 - 1977

Senior Field Engineer **U.S.A. Gulf of Mexico Offshore**

Managed field crew and equipment in Gulf of Mexico well logging, borehole seismic, cased hole services and perforating operations

EDUCATION

Master of Business Administration

Southern Methodist University, Dallas, Texas 1992

Master of Science in Physics

Georgia Institute of Technology, Atlanta, Georgia 1974

Bachelor of Science *magna cum laude*

Georgia Southern University, Statesboro, Georgia 1972

Address / Contact Information U.S.A.

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