



## **HARRY J. HELWERDA, P.Eng., FEC**

### *Executive Vice-President*

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Harry is a Director and an Associate of Sproule and is involved in the management of Sproule's Canadian, US and International subdivisions. Harry has been a Sproule professional since 1990, primarily conducting reserves determinations and corporate evaluations, acquisitions and divestitures and securities commissions report and investment advice for clients with properties in Canada, the United States, Australia, China, and Slovakia. He became an Associate of the company in 1991, Manager of Engineering in 1994, and a Director in 1997. He was promoted to Vice-President, Engineering in 1999, Senior Vice-President, Engineering, in 2006, and became Executive Vice-President in 2007.

### *Diplomas and Degrees*

- ❖ B.Sc. Civil Engineering (1978), University of Calgary, Calgary, Alberta, Canada

### *Continuing Education*

- ❖ Practical Application of PRMS (2009), SPE, Calgary
- ❖ Probabilistic Reserves Evaluation (2009), SPEE, Santa Fe, New Mexico
- ❖ The Dealmakers Symposium and A & D Forum (2008), PLS, Calgary
- ❖ Oil and Gas Disclosure: Experiences in Complying with the New Rules (2004), Conference Board of Canada, Calgary
- ❖ New Disclosure Rules for Oil and Gas Companies (2003), Conference Board of Canada, Calgary
- ❖ New Standards of Disclosure for Oil and Gas Activities (2003), Alberta Securities Commission, Calgary
- ❖ New Rules for Oil & Gas Disclosure (2002), Conference Board of Canada, Calgary
- ❖ Cross-Border Mergers and Acquisitions (2002), Insight, Houston, Texas
- ❖ Oil & Gas Reserves Disclosure (2001), Centrum Information, Calgary
- ❖ Fundamentals of Personnel Law for Managers and Supervisors (2001) Human Resources Council
- ❖ Advanced Decline Curve Analysis (1999) Society of Petroleum Engineers, Calgary
- ❖ Successfully Managing People (1998) Canadian Management Centre, Calgary

- ❖ Technical and Financial Utilization of Oil and Gas Reserves Information (1997) Insight Information Inc., Calgary
- ❖ Geology for Engineers (1982) Petroleum Society of CIM, Calgary
- ❖ DST Chart Interpretation and Evaluation (1982) DST Analytical Services Limited, Calgary
- ❖ Enhanced Oil Recovery (1981) Petroleum Society of CIM, Calgary
- ❖ Fundamentals of Core Analysis (1980) Core Laboratories Inc., Calgary
- ❖ Pressure Analysis (1980) Mobil Oil Corporation, Dallas
- ❖ Applied Reservoir Engineering (1980) H.K. Van Poolen and Associates, Littleton
- ❖ Basic Reservoir Engineering (1980) H.K. Van Poolen and Associates, Littleton
- ❖ Log Interpretation (1979) Mobil Oil Corporation, Dallas

### ***Memberships***

- ❖ Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA)
- ❖ Society of Petroleum Engineers (SPE)
- ❖ Society of Petroleum Evaluation Engineers (SPEE)

### ***Work Responsibilities***

- ❖ Estimate reserves and evaluate clients' oil and gas properties, both domestically and internationally, using a variety of engineering software.
- ❖ Audit client and third-party evaluations for the purposes of year-end reports, securities commissions reports, bank financing, and divestitures and acquisitions.
- ❖ Conduct reservoir and production engineering studies to assist clients in determining potential opportunities.
- ❖ Conduct property optimization studies.
- ❖ Provide investment advice.
- ❖ Provide property management services to clients.
- ❖ Manage teams of geologists and engineers on evaluation projects.
- ❖ As a Director, work with other board members to determine future direction and establish policies of the company.
- ❖ As an Executive, involved with the day-to-day operation and management of Sproule's Canadian, United States and International businesses.

### ***Previous Employers***

- ❖ 1985-1990      **Preco Petroleum Consulting Ltd., Calgary, Alberta —*President***
  - ❖ Conducted production and reservoir engineering studies, reserves evaluation and property optimization studies, and supervised client oil and gas properties.
  - ❖ Completed applications to regulatory bodies.
  - ❖ Prepared progress reports for enhanced recovery schemes.
  - ❖ Provided general supervision of petroleum and natural gas properties, including setting and monitoring monthly allowables, marketing crude oil and natural gas, accounting for production and revenue, preparing AFEs, preparing and supervising well workover programs, and supervising field operations.

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- ❖ 1983-1985      **Keplinger Canada Engineering Ltd.**, Calgary, Alberta — *Evaluations Supervisor*
  - ❖ Undertook reservoir engineering studies and reserves evaluations of client properties.
- ❖ 1981-1983      **James A. Lewis Engineering**, Calgary, Alberta — *Evaluations Engineer*
  - ❖ Undertook reservoir engineering studies and reserves evaluations of client properties.
- ❖ 1978-1981      **Mobil Oil Canada Ltd.**, Calgary, Alberta — *Reservoir Engineer*
  - ❖ Undertook reservoir engineering studies and reserves evaluations of company properties in central Alberta.

### ***Special Expertise – Project Quality Control and Management***

- ❖ As a Director of the company, I am responsible for reviewing all technical reports prior to finalization. My general knowledge and experience working with all types of reservoirs, both domestically and internationally, allows me to critique the technical work and maintain the high quality and consistency of our reports. I also manage teams of engineers, geologists, and technologists engaged in the reserves evaluation of client properties.

### ***Committee Work***

- ❖ Member of the Board of Examiners of the Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA) 1999 to 2008.
- ❖ Moderator, SEPAC Investment Symposium, May 2000.
- ❖ Member of the APEGGA Board of Examiners Policy Review Task Force, 2005 – 2006.
- ❖ Vice-Chairman of the Society of Petroleum Evaluation Engineers (SPEE) Calgary Chapter – current.
- ❖ Member of the Nominating Committee of the Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA) since 2008.

### ***Special Recognition***

- ❖ Was conferred as Fellow Engineers Canada (FEC) in June 2010 in honour of exceptional contributions to the engineering profession in Canada.

### ***Presentations***

- ❖ “The Winds of Change in Canada Regarding Reserve Evaluations, Definitions and Public Disclosure”, presented at a conference on Cross-Border Mergers & Acquisitions, May 22, 2002, Houston, Texas.
- ❖ “Investment in Canada”, presented to financial advisors in Munich, Frankfurt and Hamburg, Germany, October 2008.
- ❖ “Understanding Recent Changes to the Oil and Gas Disclosure Regulations of the CSA and SEC”, presented at the Infonex Conference, Calgary, June 17, 2009.
- ❖ “The Canadian Oil and Gas Market”, presented to financial advisors in Frankfurt, Hamburg, Munich and Berlin, Germany, September 2009.