



Shawna has 23 years experience in petroleum geology, including time at Husky Oil Ltd. as an operational geologist in the heavy oil division. Shawna has managed a variety of consulting and multi-client projects in Alberta, Saskatchewan and Montana, and has extensive experience in the heavy oil belt of the Western Canada Sedimentary Basin. Her experience includes regional evaluations, SAGD operations, mine planning and strategic reviews of the heavy oil and tar sand business.

Shawna Christensen

B.Sc., Geology (1984)

Professional Experience

- Present** | **Petrel Robertson Consulting Ltd., Director**
Consultant on selected projects, with emphasis on heavy oil.
- 1986-2007** | **Petrel Robertson Consulting Ltd., Vice-President**
Consultant to a number of domestic and international clients on oil and gas, ranging from management of large scale exploration evaluations to detailed reservoir analyses. Projects include strategic reviews of the Canadian heavy oil industry, regional evaluations of heavy oil opportunities, land sale evaluations, well recommendations (thermal and conventional), and subsequent evaluation of the drilled areas.
Projects include:
- ♦ Evaluation of numerous areas in the Wabiskaw and McMurray Formation of Alberta, Canada, on an exclusive and non-exclusive basis for mining, SAGD, and new technologies.
 - ♦ Advisor to a private company (OSUM) on underground mining of bitumen.
 - ♦ Evaluation of heavy oil opportunities in Venezuela (in conjunction with APA Engineering).
 - ♦ Conducted heavy oil screening process in Alberta, Saskatchewan and Manitoba in conjunction with APA Engineering.
 - ♦ Gas evaluations in western Alberta, heavy oil and shallow gas projects in northeastern Alberta, and light oil evaluations in Saskatchewan.
 - ♦ Completed a number of conventional reserve evaluations while working in co-operation with an engineering consulting firm.
 - ♦ Completed a number of bitumen and heavy oil evaluations including SAGD planning, drilling and land sales for a variety of companies including Ranger, Numac and CS Resources.
- Petrel Robertson Consulting Ltd., Group Manager**
- ♦ Completed variety of consulting projects in Alberta, Saskatchewan and Montana.
 - ♦ Involved in numerous regional geological studies
 - ♦ including log interpretation, core logging, petrography and mapping.
 - ♦ Completed Bow Island Study, Southern Alberta
 - ♦ Responsible for most petrographic projects (1987-1994) - domestic and international.
 - ♦ Managed Petrel Robertson's Core Analysis Laboratory (1992-1995).
- 1984** | **Husky Oil Operations Ltd., Geologist**
- ♦ Responsible for and involved in a number of heavy oil projects in eastern Alberta and western Saskatchewan.
 - ♦ Completed detailed reservoir studies.

Professional Affiliations

Canadian Society of Petroleum Geologists (C.S.P.G.); Chairman of the Graduate/Undergraduate Scholarship Committee.
Association of Professional Engineers, Geologists and Geophysicists of Alberta (A.P.E.G.G.A.)
Society for Sedimentary Geology (SEPM)

Publications

Published abstracts and articles relate to Mesozoic gas reservoirs in western Alberta (with P.E. Putnam), Bakken conventional oil reservoirs in the Williston Basin, channelized Cretaceous reservoirs in southwestern Alberta and northwestern Montana (with P.E. Putnam and S. Moore), and innovative mine tunneling technology applied to McMurray oil sands (with R. Drake). She is currently working on an article (with P.E. Putnam and G.E. Birrell) on the influence of reservoir architecture on SAGD performance.