

GEORGE DAVID MACAULEY

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Contact Information

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Summary

George Macauley is a trained economist and lawyer. George has provided consulting services to the BC public sector and industry since 1991 in relation to oil and gas (economic), aboriginal affairs (federal/provincial cost sharing, land and resource, negotiation support), forests (economic, policy, GIS systems), justice transformation (economic), gaming (economic), procurement (financial and process) and general policy development. George has a long involvement with development of applications using Oracle (since 1990) and in financial/economic modeling.

Employment History

1991 - Present Self-Employed Consultant

- Under contract to the BC Ministry of Natural Gas Development (MNGD), developed natural gas revenue forecasting tool in MS Access database with MS Excel input and reporting. The tool projects production and revenue for (i) each existing well in the province, and (ii) assumed future drilling activity (new wells), based on: well attributes, past production, type curves, royalty and incentive programs and production/delivery constraints. Model has been refined to incorporate net profit royalty (NPR) regimes and long-term royalty agreements (LTRAs) with British Columbia producers in addition to existing conventional royalty mechanisms. Model estimates support budget revenue projections. (2012→)
Assisting MNGD in analysis of impact of LNG projects under alternative NPR and LTRA royalty mechanisms (2014-2017).
- Under contract to the NEBC Resource Municipalities Coalition, developed economic models (MS Access and MS Excel) for natural gas, coal mine, wind farm and forestry activity with a focus on direct, indirect and induced employment levels. Models are used to assess impacts upon NEBC communities incorporating alternative assumptions about the impact of work camps, fly-in/fly-out staffing approaches and absorption of workers and families into local communities. Models and scenarios are discussed in the report [Comprehensive Economic Analysis and Projections for NEBC](#) (August 2015). (2014→)

- Under contract to the BC Ministry of Energy, Mines and Petroleum Resources and MNGD, prepared financial models and analyses relating to (i) projection of oil & gas resource revenue, and (ii) implementation of a [Net Profit Royalty](#) system to incent on-shore oil and gas exploration and development in BC. Supported analysis by Ministry staff to determine extent of ring fence based on natural gas reserves and economics using tools including Monte Carlo capabilities (with native Excel functionality), and discounted technical cost (levelized finding/development costs with specified industry after tax/royalty rate of return). (2008-2012)
- Under contract for BC Ministry of Energy and Mines, developed financial model of Mineral Tax Act and other tax revenue for negotiating economic and community development agreements with First Nations. (2012-2014).
- Under contract to Northern Rockies Regional Municipality (NRRM), prepared analysis of impact of natural gas development on BC and regional economics. Analysis was input into business case report by NRRM with Urban Systems Ltd. supporting negotiation of infrastructure funding agreement between NRRM and the Province (2011).
- Under contract to a major energy developer, assisted in refining processes for applying for and tracking required government approvals. (2011)
- Under contract to the BC Ministry of Energy, Mines and Petroleum Resources, provided analysis to extend functionality of models (including carbon capture and storage (depleted reserves, aquifers, enhanced oil recovery), review CERI demand/supply model for BC and advise on financial models for Infrastructure Program. (2009-2012).
- Under contract to the BC Offshore Oil and Gas Team, worked with Dr. Campbell Watkins to develop financial model and analyses relating to fiscal regimes to incent offshore oil and gas development in BC. Models included existing royalty mechanisms in Canada and the US, variants of net profit royalty, enhanced taxation and rent sharing (with rental capital) with development of tools including Monte Carlo capabilities (with native Excel functionality) to assess risk/benefit sharing among industry and levels of government. (2003-2005)
- Under contract to Pacific Carbon Trust, assisted in (i) designing procurement processes, and (ii) evaluating specific proposals and acquisition of greenhouse gas offsets to meet the carbon neutrality requirements of the BC government (2008-2010).
- Under contract to a major Canadian petroleum company, developed submissions (report and spreadsheets) to Alberta DOE for the application of the Oil Sands Royalty system to company projects (2008-09).
- Under contract to Geoscience BC, prepared analysis of the effectiveness of geophysical and geochemical projects in encouraging mineral exploration and mining activity in British Columbia (2010, 2014).
- Under contract to the BC Ministry of Forests, participated as a team member (with Philip Halkett, Hugh Gordon, Howard Saunders) in the review of the forest industry in Port Alberni (April 2007).
- Under contract to the BC Ministry of Forests, participated as a team member in evaluating Expressions of Interest (Wood Products) for the use of Mountain Pine Beetle damaged surplus timber volumes and advising on tenure opportunities (Summer 2004).
- Under contract to the BC Ministry of Finance, BC Ministry of Aboriginal Relations and Reconciliation (and predecessors) assisted the provincial negotiation team in

negotiating and implementing the Canada/B.C. MOU for sharing costs of settling land claims with First Nations (1993-2009). With Heron Systems, developed a province-wide data set of cost sharing information (CIP2) by (i) applying netdowns to TSA/TFL spatial and attribute information, and (ii) calculating cost sharing values (2002-2003). Worked with Ministry of Agriculture and Lands and Vivid Solutions Inc. in development of automated tools to calculate cost sharing values (2008-2009).

- Under contract to the BC Ministry of Energy, Mines and Petroleum Resources prepared financial models and analysis in relation to sharing provincial mineral resource revenue with First Nations outside of treaty (2007→).
- Under contract to the BC Ministry of Forests and Range prepared financial models and analysis in relation to accommodation obligations and sharing provincial stumpage revenue with First Nations outside of treaty (2003, 2008-2009).
- Under contract to the BC Ministry of Finance and Corporate Relations, assigned to the provincial Nisga'a Negotiation Team to act as Ministry representative on the team and provide economic and financial advice. Involved primarily in lands and resource assessment, taxation, fiscal framework and general costing exercises (1992-1996).
- Under contract to BC Ministry of Attorney General, provided analysis of (i) civil court fees and the financial impact of revised Supreme Court Rules, (ii) impacts of other justice transformation initiatives, (iii) economic impact of Child Protection Mediation program in relation to MAG and MCFD, and (iv) courtroom scheduling and utilization. (July 2006→).
- Under contract to BC Legal Services Society, provided analysis of criminal and family tariff schedules for payment of lawyers and simplifying the structure. (July 2009→).
- Under contract to BC Ministry of Justice, provided analysis to the Chief Justice of the BC Supreme Court in support of the prescribed discount rates for calculating future income losses and other future damages. (2012-14).
- Under contract to BC Court of Appeal, provided analysis of the impact of criminal appeals pilot project. (2012-14).
- Under contract to BC Ministry of Small Business and Revenue, with Peter Adams (Victoria Consulting Network), reviewed alternative assessment approaches to resolve property assessment appeals for taxpayers designated for the Ports Property Tax Act (PPTA). Reviewed confidential lease information and developed a model for property assessment for major industrial (Class 4) taxpayers designated for the PPTA, which has been implemented by BC Assessment. (April-December, 2006).
- Under contract to the BC Ministry of Housing and Social Development (and its predecessor MEIA), participated as an advisor in the evaluation of responses to RFPs for (i) BC Employment Program, (ii) Community Assistance Program, (iii) Employment Program for Persons with Disabilities, and (iv) Bridging (2006-2008).
- Under contract to the Purchasing Commission and Strategic Acquisitions and Technology Procurement (SATP) as a qualified supplier (2001-2005):
 - Participated in three major alternative service delivery (ASD) processes as process monitor to advise the Province on compliance with stated process. Projects included Revenue Management Project (BC Ministry of Provincial Revenue - SATP-027), Health Benefit Operations (SATP-029) and Workplace (Desktop) Support Services (SATP-042).

- Worked with Ministries of Human Resources and Attorney General in the preparation and evaluation of RFPs and Requests for Qualifications.
- Working with SATP in fairness capacity in the acquisition of telecommunication services for the Province and broader public service (2009).
- Under contract to Ministry of Technology, Innovation and Citizens' Services, acting as Fairness Monitor for the Facilities Management Procurement project which is planning for the expiry of the existing contract with WSI in 2018 (2015→).
- Under contract to SATP, acted as Fairness Monitor for the Liquor Distribution Branch warehouse project which reached the final stages in selecting a private operator (2012).
- Under contract to the BC Buildings Corporation (BCBC), acted as Fairness Monitor for the Property Management Outsourcing Project RFP (April-November 2003) in the selection (RFQ, RFP) a private sector entity to provide property/ project management and other services then provided by BCBC. Acted for Accommodation and Real Estate Services (successor to BCBC) in the procurement of design/build services for the construction of a women's correctional center expansion (2008-2009).
- Under contract to BC Information, Science and Technology Agency, acted as financial advisor in evaluating RFP proposals for the external operation of government MVS/VM, OpenVMS and Voice services.
- Under contract to the BC Ministry of Forests, (i) assisted in revising evaluation criteria and methodology for awarding Small Business Forest Enterprise Program bid proposal timber tenures based on provincial objectives (employment, revenue, income, community stability, etc.), (ii) prepared report informing Ministry views on forest tenures in connection with First Nations and the treaty process, and (iii) prepared discussion paper on Ministry views on treaty mandate issues.
- Under contract to the BC Ministry of Government Services and BC Ministry of Employment and Investment, participated in the design and result interpretation of polls and surveys for reports prepared by PricewaterhouseCoopers of the commercial bingo and horse racing industries. Analyzed the potential impacts of large scale casinos, new gaming and existing gaming expansions across the province. Worked in association with KPMG to prepare economic analysis of potential gaming expansions using the BC Input-Output Model, and with Coopers & Lybrand to assess responses to RFP proposing expansions to existing gaming establishments.
- Under contract to the BC Ministry of Aboriginal Affairs, acted as project manager for development of GIS decision support projects using FACET, Oracle, ArcView and other components to support treaty negotiations. Projects included land statusing, land and resource analysis and integration of GIS spatial information with economic models. Prepared reports supporting the development of provincial mandates concerning resource revenue sharing, land selection, fiscal arrangements and valuation principles.
- In association with Heron Systems, under contract to Crown Land Registry Services (CLRS) of BC Ministry of Environment, Lands and Parks developed processes to integrate local government spatial data, Land Title Branch (LTB) data (PID as primary link) and BC Assessment Authority (BCAA) data and developed an integrated spatial/attribute ArcView application to display information from the three data sets.

1999 – 2003 GIS Software Development

Formed LARACORP Land and Resource Analysis Corporation to develop a GIS viewer and related processes to integrate spatial and attribute information (land title, assessment, cadastral).

1989 – 1996

Legal Software Development

Developed a computerized corporate information system (maintaining company records in a law firm's corporate records department and generating associated documents) in the Oracle relational database management system. Versions were developed using the APL programming language, adapted to the Oracle RDBMS using C programming language input, transaction and document generation routines.

**Mar 1988 -
Aug 1989**

McCarthy Tétrault – Associate

Member of the Securities Group in the Vancouver office of McCarthy Tétrault (previously McCarthy & McCarthy and Shrum, Liddle & Heberton), a national law firm. Also responsible for the Corporate Records Department.

**Sept 1987 -
Feb 1988**

British Columbia Securities Commission – Secondment

Seconded to the Commission for six months, spending four months with the Corporate Finance group vetting prospectuses and public offering documents, and two months with the Orders and Exemptions group reviewing and drafting orders exempting compliance with certain aspects of the British Columbia Securities Act and related regulations and policies.

**August 1986 -
August 1987**

Shrum, Liddle & Heberton - Articling Student

Completed legal articles and was kept on as an associate and seconded to the British Columbia Securities Commission.

**May-July 1986
May-Aug 1985
May-Aug 1984**

BC Ministry of Energy, Mines and Petroleum Resources – Contract

Undertook discrete tasks including (i) refining the modeling of energy consumption in key industries, (ii) maintaining and enhancing energy supply and consumption data, (iii) evaluating and reviewing gas export models, (iv) preparing project cash flow analysis, and (v) assisting in preparing an energy demand forecast.

**Jan 1981 –
Aug 1983**

BC Ministry of Energy, Mines and Petroleum Resources – Senior Economist

Responsible for coordinating energy demand forecasting group including (i) preparation of periodic energy demand forecasts, (ii) designing, specifying and estimating an econometric energy demand forecasting model, (iii) sectoral analysis of energy consumption particularly by major industrial consumers, (iv) designing and implementing the deliverability/supply tracking model for the **Govier Natural Gas Surplus Inquiry**, (v) reviewing and evaluating natural gas export models and forecasts, (vi) project evaluation (including the Vancouver Island Pipeline project), and (vii) the development of energy consumption and pricing information.

**June 1979 -
Jan 1981**

Central Statistics Bureau (now BCStats) - Research Officer

Member of a team of researchers designing, specifying and estimating an econometric model of the British Columbia economy.

Post-Secondary Education

Sept 1983 - April 1986	U. of Victoria - Faculty of Law	- Granted LLB.
Sept 1978 - May 1979	U. of Western Ontario - Economics Dept.	- Granted M.A.
Sept 1974 - April 1978	U. of Victoria - Economics Department	- Granted B.A. (Hons)

Major Awards

Social Sciences and Humanities Research Council Special MA Scholarship
British Columbia Law Foundation Entrance Scholarship

References

Available upon request.