

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of:	)	
	)	Docket No. 40-8943
CROW BUTTE RESOURCES, INC.	)	
	)	ASLBP No. 08-867-02-OLA-BD01
(License Renewal)	)	

AFFIDAVIT OF BRYAN SOLIZ

I, Stuart Bryan Soliz, do hereby state as follows:

1. I am employed by Cameco Corporation as its Principal Geologist. In this position, I oversee support and development of mineral reserves and resources at Cameco’s in-situ recovery projects. A statement of my professional qualifications is attached.
2. I am responsible for the paragraphs in the direct testimony on Contentions A, C, D, F, and 14 filed today that are marked with my initials.
3. I attest to the accuracy of those statements, support them as my own, and endorse their introduction into the record of this proceeding.
4. I hereby certify under penalty of perjury that the forgoing is true and complete to the best of my knowledge, information, and belief.

Executed in accord with 10 C.F.R. § 2.304(d),

signed electronically by Stuart Bryan Soliz  
 Stuart Bryan Soliz  
 550 N Poplar St.  
 Casper, WY 82601  
[Bryan\\_Soliz@cameco.com](mailto:Bryan_Soliz@cameco.com)

Dated at Casper, Wyoming  
this 8th day of May 2015

## **Stuart Bryan Soliz, P.G.**

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### **SUMMARY**

Director and Technical Specialist for uranium mining companies for production, new project development, and exploration. Relevant experience includes management of projects from exploration, to resource development through permitting, construction, commissioning and start-up. Specific experience includes directing technical teams in technical evaluations, mineral reserves and resources reporting, drilling programs, mine planning, scheduling, budgeting, technical studies, and strategic planning.

### **QUALIFIED BY**

- Eighteen years of professional mining experience including 10 years in operations
- Sound managerial abilities leading technical teams
- Strong project management abilities with excellent report writing skills
- Experience leading new project development
- Sound understanding of international mineral reserves and resources reporting standards
- Demonstrate initiative and resourcefulness to get things done and demonstrate accountability for detail oriented results
- Work to continually improve personal, team and company effectiveness by applying business knowledge to achieve results
- Demonstrate the importance of people and personal integrity by following through on commitments by practicing honest and ethical behaviour and communicating effectively and openly
- Focus on continually improving work processes and practices with innovative ideas and solutions to enhance business results
- Work to continually understand, engage in and implement business changes
- Translates strategies and objectives into practical and understandable operational targets and action plans

### **EXPERIENCE**

2015-Present      Cameco Corporation, Casper, Wyoming  
Cameco Corporation is one of the world's largest uranium producers providing fuel to nuclear energy plants around the world to generate one of the cleanest sources of electricity available.

#### *Principal Geologist*

Serve as a Qualified Person (QP) providing technical oversight and support for development of Cameco's Cameco Resources Inc. (CRI) and Inkai in-situ recovery (ISR) projects mineral reserves and resources.

Primary responsibilities included:

- Serve as a QP for all CRI properties and Inkai, providing oversight on all matters related to mineral reserves and resources
- Ensure adherence to mineral reserves and resources classification criteria.
- Support continued improvement and best practices with in regards to mineral reserves and resources development, sampling, disequilibrium measurements, geological interpretation and mine software utilization.
- Lead preparation of technical reports.
- Assist Inkai with geologic interpretations and modelling, resource estimation, wellfield design and reserve estimation and mine planning.
- Provide guidance in resolving technical issues potentially related to geologic interpretation, resource estimation and production planning.
- Improve the varying ISR modelling and estimation techniques.
- Provide due diligence expertise for ISR property evaluations.

2011-2015      Cameco Resources, Casper, Wyoming  
Cameco Resources is a uranium mining company producing uranium by ISR technology and a wholly owned subsidiary of the world's largest uranium producer, Cameco Corporation.

*Director Exploration and Development*

Direct greenfield and brownfield exploration programs, and mineral resource development for Cameco Resources new projects.

Primary responsibilities included:

- Establish long-term exploration and resource development plans to achieve corporate strategies and objectives
- Create budgets and work plans for 10 Year and Life of Asset planning
- Provide technical and professional leadership to Exploration and Development team of twenty-four
- Assist with corporate development opportunities
- Oversee the management of geologic data and interpretations that support the generation of geologic and resource models
- Ensure mineral reserves and resources guidelines, policies, and procedures are adhered to throughout the company
- Generate annual mineral reserves and resources reports for public disclosure
- Serve as Qualified Person for Cameco Resources for reporting of mineral reserves and resources

2010-2011

*District Geologist*

Direct mineral resource development for Cameco Resources operating mines and new development projects.

Primary responsibilities included management of:

- Resource development and technical support team of fifteen
- Contract management of drilling and related construction services
- Development plans, schedules, and budgets
- Implementation of development drilling programs for new project development
- Coordination of drilling projects with Land and Environmental Groups
- Detailed geologic evaluations of sub-surface sedimentary environments that host uranium deposits
- Mine plan design
- Mineral reserve estimates
- Compilation of annual reserve and resource reports
- Implementation of mine plans
- Interdepartmental work with Safety Health and Environmental Group on permitting and compliance issues

2006-2010

South Texas Mining Venture, L.L.P., Corpus Christi, Texas

The South Texas Mining Venture was a joint venture partnership between Uranium One and Everest Exploration Inc., committed to the development of uranium assets in south Texas.

*Chief Geologist*

As the first employee of the South Texas Mining Venture, I was hired to facilitate the start up of south Texas operations. My responsibilities entailed setup of the Corpus Christi office, hiring personnel (geologic, logging, drilling, and support staff), and development and implementation of various operating procedures. As routine operations were established, daily responsibilities shifted to management of resource development for the La Palangana project and south Texas exploration.

Primary responsibilities included management of following activities:

- Resource development and technical support team of twelve
- Contract management of drilling and related construction services
- Implementation of development and exploration drilling programs at the La Palangana project
- Coordination drilling projects with Land and Environmental Departments
- Detailed geologic evaluations of sub-surface sedimentary environments that host uranium deposits
- Assessment of the quantity, quality, and physical characteristics of uranium deposits for mineral resource estimates using geostatistical and non-geostatistical techniques
- Mine planning
- Mineral reserve estimates
- Compilation of annual mineral reserve and resource reports
- Generate and assist with the implementation of mine plans
- Exploration activities and coordinate property acquisition with the Land Department
- Interdepartmental work with Safety Health and Environmental Group on permitting and compliance issues

2002-2006 Power Resources, Inc., Glenrock, Wyoming  
Power Resources, Inc. was a producer of uranium by in-situ recovery (ISR) technology and a wholly owned subsidiary of the world's largest uranium producer, Cameco.

*Senior Geologist/Project Geologist*

Primary responsibilities included:

- Conduct detailed geologic evaluations of sub-surface sedimentary environments in the Powder River Basin, Wyoming.
- Assess the quantity, quality, and physical characteristics of uranium deposits for reserve/ resource estimates and mine planning using geostatistical and non-geostatistical techniques
- Compile annual reserve and resource reports
- Generate and assist with the implementation of mine plans
- Conduct economic evaluations using NPV and other economic indicators for mine planning
- Plan production well locations and define well depths and completions
- Coordinate development activities with Drilling, Land, and Environmental Departments
- Work with Drilling and Construction Departments preparing \$3-5 million production drill schedules.
- Propose and supervise \$3-5 hundred thousand development drilling programs
- Chair Development Group meetings consisting of Mine Manager, supervisors of Drilling and Construction, and Geology staff.
- Coordinate and supervise hydrologic tests and compile test reports submitted to the state regulatory agency for approval of mining operations

1996-2002 Rio Algom Mining LLC., Glenrock, Wyoming  
Rio Algom Mining LLC. was a producer of uranium by in-situ leach (ISL) technology for the nuclear power industry.

*Project Geologist/Staff Geologist*

Primary responsibilities included

- Conducted detailed geologic evaluations of uranium bearing sedimentary environments.
- Calculated uranium resources and reserves and assisted with annual reporting
- Constructed comprehensive economic mine plans \$4-6 million annually
- Planned production well locations and defined well depths and completions
- Proposed and supervised \$3-5 hundred thousand drill programs and managed drilling budgets

## **EDUCATION**

1994-1996 *Texas Tech University*, Lubbock, Texas  
Master of Science in Geosciences

1990-1994 *Midwestern State University*, Wichita Falls, Texas  
Bachelor of Science in Geosciences

## **PROFESSIONAL DEVELOPMENT**

- Growing Business Acumen. The Refinery Group (2014) – Cheyenne, Wyoming.
- Expedition Coaching Program: Guiding the Journey to success – Casper, Wyoming. Diane Knoll and Deb Strong.
- National Instrument 43-101 Standards of Disclosure for Mineral Projects - Saskatoon, Saskatchewan. Dr. Greg Gosson, Technical Director for Geology and Geostatistics.
- Effective Project Management 1: Planning, Scheduling, and Control - Dean Sotiriou, President, Management Training and Development Associates. Casper, Wyoming (2010).
- Fundamentals of Geostatistics Principles and Hands-on Practice (2010) – Saskatoon, Saskatchewan. Dr. Clayton V. Deutsch.
- Goff & Associates Media Training (2009) – Austin, Texas. Christian S. Goff, Communications Consultant
- Supervision: Core Competencies (2008), Mountain States Employers Council, Inc., Management Development Center
- Program speaker MICROMINE User Conference (2007) – Perth, Western Australia. Geologic Development of the South Texas La Palangana Uranium Deposit for In-Situ Recovery using MICROMINE
- Program speaker 2007 Global Uranium Symposium – Corpus Christi, Texas. Geologic Development of the La Palangana Uranium Deposit for ISR
- Advanced MICROMINE training (2007)
- Introduction to MICROMINE (2006)

- Economic Evaluation and Investment Decision Methods. John M. Stermole. Golden, Colorado. Colorado School of Mines (2004)
- Geostatistical Ore Reserve Estimation Methods. H. Peter Knudsen, Montana Tech (2001)
- Management Excellence: It Begins With You, The Athena Group (2001)
- Quantitative Reasoning & Foundations of Accounting, University of Wyoming (2000)
- RMEC 318 Supervisors Safety Course, OSHA Training Institute Rocky Mountain Education Center (2000)
- Leading From Within, Mountain States Employers Council, Inc., Management Development Center (1999)

#### **COMPUTER APPLICATIONS**

- VULCAN, MICROMINE, Microsoft Office (i.e. Word, Excel, PowerPoint, Project), AutoCAD, Surfer, Techbase, ArcMap

#### **AFFILIATIONS**

- State of Wyoming Board of Professional Geologists License Number PG-3775
- Corpus Christi Geological Society
- Society for Mining, Metallurgy, & Exploration

#### **REFERENCE**

- Available on request