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EDUCATION AND PROFESSIONAL QUALIFICATIONS:

MS in Geosciences, Western Michigan University, Kalamazoo, Michigan
BA in Geology, Western Michigan University, 1968
Certified Professional Geologist, American Institute of Professional Geologists (CPG-No. 7538)
Licensed Geologist, State of Washington (LG-No. 891)
Certified Inspector Sediment and Erosion Control (CISEC – No 030)
Certified Erosion Sediment and Storm Water Inspector (CESSWI – No 0779)
OSHA 40-Hour HAZWOPER Training/Instructor

SPECIAL QUALIFICATIONS:

Proven success for more than twenty five years for directed and managed exploration, identification and evaluation of industrial minerals, coal, precious metals and Uranium prospects in alluvial, sedimentary and hardrock environments of the western and upper mid-western states of the U.S. (Michigan, Wisconsin, Minnesota); Virginia; Saskatchewan, Canada; and eastern and central China.

Proven success in directing and managing Uranium mine development, and permitting for conventional open pit, in situ leach, and underground projects that included negotiations with state and federal agencies in Wyoming; Colorado; Minnesota; Virginia and Washington, D.C.

Proven success as a professional geologist and lobbyist in Minnesota by negotiating legislative and regulatory issues with legislators and agency staff. Assisted in securing legislation in Minnesota to allow for mineral development.

Proven success as a professional geologist and lobbyist in Virginia by presenting technical interpretations to legislators and at public hearings to validate a mining project. Directed and secured approval from the Governors' office and the regulatory agencies in order to proceed with permitting of the project.

Proven Senior management success in geologic and environmental consulting; mineral resource assessments; mining project assessments; mining, milling, processing and refining projects; environmental permitting and compliance; and Hazardous regulation negotiating with OSHA on construction and hazardous sites, site remediation, and DOT hazardous regulations.

Proven success as an officer in two public companies (International Precious Metals & Maxam Gold Corporation) managing NASDAQ and SEC filings, Human Resources, Health and Safety,

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Marketing and Sales, technical management, staff development and compensation.

Proven success in establishing and directing a consulting business for over 10 years, with two operational offices (Boulder, Colorado and Houston, Texas) that had sustained revenues exceeding \$6M per year for more than six years. Profits exceeded more than 15% and this also included financial oversight of an analytical laboratory.

Proven success for more than ten years in the consulting business, developing project and business strategies that included marketing and securing of contracts for environmental consulting, remediation, and analytical projects.

Prepared Canadian 43-101 reports for qualified mineral projects.

Proven success in Stormwater Compliance and OSHA Safety, in nine states in the southwest US, Carolinas and Georgia. Certified stormwater compliance inspector having CISEC and CESSWI certifications. Qualified OSHA instructor since 2005. Developed and trained employees and construction trade contractors in storm water compliance (stormwater courses) and conducted OSHA construction safety (10 Hour Construction Safety) courses. Successfully negotiated settlements with State Stormwater and Federal OSHA inspectors.

RECORD OF EXPERIENCE:

Director, Michigan Geological Survey, Western Michigan University, (October 2013 – Present)

Specific duties and assignments include: Meet with local, state and federal Directors and administrators and local business and development leaders and administrators and present the capabilities of the MGS. Determine the needs of each entity and develop plans and/or proposals to meet initiatives and develop collaborative teams to write proposals for the services which the MGS Resource Centers can provide. Identify funding programs and grants that MGS can successfully win.

Administer MGS as an entity of WMU Department of Geosciences; supervising the activities of various operational Resource Centers within the MGS including mapping, subsurface geology, energy and mineral resources, geologic hazards, research and education, and water resources; developing strategic long term plans for the MGS, developing new programs and funding initiatives, and developing and implementing budgetary plans, writing annual proposals for STATEMAP and Great Lakes Mapping Coalition grants; supervising field work, and producing maps meeting standards of the U.S. Geological Survey; writing research proposals and reports; publishing research findings, and presenting at local, regional, national and international venues; attending relevant national meetings for Survey Directors; leading and/or collaborating on various research projects with colleagues at MGS and the Department of Geosciences, with other WMU departments and programs, and with external entities at the local, state and national levels; and acting as a liaison between MGS and other WMU committees and programs, as well as

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external entities at the local, state and national levels interested/involved with MGS related research, repository or outreach initiatives.

Environmental and Safety Manager, Western US, Beazer Homes USA. (2005 to September 2013)

Specific duties, Responsibilities and Assignments: Developed and conducted multiple stormwater and OSHA 10 hour training programs in nine over seven years. Conducted internal audits and training programs to meet the Stormwater regulations for each state (California, Nevada, Arizona, New Mexico, Colorado, Texas, North Carolina, South Carolina and Georgia). Received Certifications in Stormwater from CISEC and CESSWI to support the training programs. Qualified OSHA Construction trainer, preparing and presenting multiple 10 hour Construction training classes resulting in OSHA cards presented to the trainees. Conducted analysis of Phase I and II assessments for land purchases to assess the environmental liability of properties for future residential construction.

Professional Geologist, Pale Morning Dove, LLC, d/b/a JASTY Enterprises, Principal and Partner. (1999 to 2005)

Specific Duties, Responsibilities, and Assignments: Over twenty five years, successfully provided consulting services in exploration, mining and development, successfully developed field prospects and verified multiple precious metal and uranium opportunities in hard rock, fluvial and alluvial environments (placer prospects). Evaluated multiple industrial mineral prospects in the western U.S. for marketability and proposed development and sale. Consulting to multiple clients on precious metal, industrial mineral development, coal, mineral recovery and refining projects in the US and China. Served as a contracted technical officer for Maxam Gold Corporation. Provided technical, project and senior management skills as an officer of International Precious Metals. Responsibilities included assessing geologic data, assaying, mining, processing and recovery, project costs, as well as environmental impacts and permitting issues to direct effective resolution of technical matters from exploration to development.

Vice President and Chief Executive Officer, International Precious Metals Corporation (1997 to 1999)

Specific Duties, Responsibilities and Assignments: Prepared and implemented a technical and project approach to complete assaying and resource determination for a precious metal project. Developed a geologic model for the project, and oversaw preparation of technical documents on geology, QA/QC of assaying, processing and recovery methodologies. Assisted the Board of Directors in search for funding for the project and company.

Vice President/Director, USPCI/Laidlaw Consulting and Analytical Services (1986 – 1998).

Specific Duties, Responsibilities, and Assignments: Directed a professional staff of over 70 geologists, engineers and hydrogeologists that performed site investigations, risk assessments, data interpretation and analysis, statistical modeling, and environmental remediation. As a Director, participated in regulatory negotiations on behalf of Union Pacific or Laidlaw clients, and made recommendations to clients for maintaining compliance with RCRA, CERCLA, and state regulations in various States.

Department Director and Principal Geologist, USPCI Consulting Services, a Union

Pacific Company.

Specific Duties, Responsibilities, and Assignments: Served as both a principal geologist and business manager, and managed the design and implementation of environmental site investigations, remediation, audits and assessments in various States.

Manager, Remedial Services, Rocky Mountain Energy Company, a Union Pacific Company (1986).

Specific Duties, Responsibilities, and Assignments: Served as a principal geologist and business manager, and managed the design and implementation of site investigations, evaluations, and remediation of environmental impacts on corporate properties. Developed and coordinated investigation and remediation programs to comply with RCRA, CERCLA, SARA, and appropriate state regulations and criteria in various States.

Environmental Geologist/Engineer/Economist, Rocky Mountain Consultants (1985-1986).

Specific Duties, Responsibilities, and Assignments: Evaluated environmental and technical site assessments for four CERCLA (Superfund) mining and milling sites, and one uranium, and three precious and base metal projects in Colorado as a contractor to the Colorado Attorney General (AG). Directly involved in CERCLA and RCRA compliance issues, and provided technical oversight on Remedial Investigations/Feasibility Studies (RI/FS) documentation for the AG's office.

Designated by the Colorado Attorney's General office as a technical negotiator in settlement discussions with a uranium mining company and a precious metals company (Newmont).

Conducted economic research to assess the natural resource damages on four sites, and conducted environmental audits prior to property sales and title transfers at other sites.

Vice President of Development, Marline Uranium Corporation. (1984)

Specific Duties, Responsibilities, and Assignments: Managed all exploration and development related to, technical, legislative, public relations, and regulatory requirements for a proposed underground uranium mining and milling operation in a Precambrian geologic setting in Virginia. This was a joint venture with Union Carbide (Umetco). Negotiated development of draft state regulations and standards to parallel EPA criteria and RCRA guidelines. Lobbied and secured state agencies' and gubernatorial approval to proceed with the uranium mine and mill development.

Project Manager, Environmental Coordinator, District Uranium Exploration Manager, Rocky Mountain Energy, a Union Pacific Company. (1976- 1983)

Specific Duties, Responsibilities, and Assignments: Established Uranium exploration program in Precambrian terrain of North-Central US and in Saskatchewan, Canada. Identified targets and was successful in developing a Precambrian geologic model that was tested and proved as viable. As a project manager for uranium development, managed the final restoration of Rocky Mountain Energy's Nine Mile Lake, Wyoming in-situ uranium leach pilot study. Completed the baseline environmental and technical feasibility study for a proposed Colorado mining project.

As a district exploration manager and senior geologist for uranium and other metals, managed successful exploration programs using geochemistry, geophysics and drilling in

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the Tertiary terrains of Wyoming and Montana, and the Precambrian terrain of Minnesota, Michigan and Wisconsin. Lobbied and assisted in the passage of favorable exploration legislation in Minnesota, and conducted a major segment of Rocky Mountain Energy's community relations program in Minnesota.

As an environmental coordinator, managed uranium environmental programs and negotiated with Wyoming, Colorado, and Minnesota regulatory agencies. Secured sign-off from Wyoming Department of Environmental Quality (DEQ) and the Nuclear Regulatory Commission (NRC) on the Reno Creek (in-situ leach) groundwater restoration pilot project, and developed a permitting plan for a proposed Colorado mining operation.

Geologist to Project Manager, Kerr-McGee Corporation (1971 – 1976).

Specific Duties, Responsibilities, and Assignments: Managed field exploration programs and established a project development program, and established field offices in various States to assess economic viability of multiple uranium projects. Conducted initial literature searches and field exploration in the Precambrian of Michigan, Wisconsin and Minnesota for uranium. Conducted geochemical studies to identify targets and confirm by drilling.

Advanced Safety Management, Thornton, Colorado as OSHA Safety instructor and trainer and DOT instructor-Hazardous Materials. (1999 to 2001)

Specific Duties, Responsibilities and Assignments: Provided OSHA training in Community Right to Know, HazCom, Construction Safety, DOT transportation compliance of Hazardous Materials, 8 hour HAZWOPER, and assisted in 40 Hour HAZWOPER classes. Conducted on site safety audits of construction and industrial sites.

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EMPLOYMENT SUMMARY:

Michigan Geologic Survey - Director, Western Michigan University, Kalamazoo, MI.
October 2013 to present.

Environmental and Safety Manager, Western US, Beazer Homes, USA. Las Vegas, NV and Denver, CO. June 2005 to September 2013.

Consultant - Professional Geologist, Pale Morning Dove, LLC, d/b/a Jasty Enterprises, Thornton, Colorado, Geologic Exploration, Mining, Processing and Mining Business Consultant. 1997- Present.

International Precious Metals Corporation, Phoenix, Arizona, Vice President, General Manager, Chief Executive Officer, for a precious metals exploration company in placer and hard rock environments, 1997 to 1999.

For over Eleven Years (1986-1997) Associated with the same consulting organization within a Union Pacific Company which was purchased by Laidlaw Environmental Services in December 1995.

Laidlaw Environmental Services, Boulder, Colorado. (Laidlaw purchased USPCI from Union Pacific Corporation) Director/Vice President of Business Development for Consulting and Analytical Services Group, 1995-1997.

USPCI, a Union Pacific Company, Boulder Colorado. Director/Vice President, Consulting and Analytical Services, 1990-1995. **Manager, Environmental Assessments Group,** 1988-1990.

Union Pacific Corporation, Boulder, Colorado. Manager, Remedial Consulting Services, 1987-1988.

Rocky Mountain Energy Company, a Union Pacific Company, Broomfield, Colorado. Manager, Remedial Services, 1986-1987.

JASTY Enterprises, Consulting Geologist, Broomfield/Thornton, Colorado. Geologist, Principal, Partner, 1986-1989.

Rocky Mountain Consultants, Inc., Boulder, Colorado. Environmental Geologist/Geological Engineer/Economist, 1985-1986.

Marline Uranium Corporation, Danville/Richmond, Virginia. Vice President, Development, 1984-1985.

Earlier employment by a Union Pacific Company:

Rocky Mountain Energy Company, a Union Pacific Company, Casper, Wyoming, Barnum Minnesota, Broomfield, Colorado. Project Manager, Uranium Development; Uranium

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Environmental Coordinator; District Exploration Manager, Senior Geologist-Uranium, 1976-1984.

Kerr McGee Corporation, Casper, Wyoming. Uranium Exploration Geologist, Rocky Mountain Region and upper Midwest /North-Central US, 1971-1976.

Publications:

Wyoming Geological Association, Field Guidebook, Wind River Basin, 1978, Copper Mountain, Rediscovered, Co-Authors, John A. Yellich, (Principal Author) Ronald T. Cramer, Robert Kendal.

PROFESSIONAL ASSOCIATIONS and ACHIEVEMENTS:

- American Institute of Professional Geologists (AIPG), Member (CPG No. 7538)
- State of Washington Professional Registration-Licensed Geologist (LG No. 891)
- American Institute of Mining Engineers (AIME) - Twenty Five year Member
- Member of Northwest Mining Association
- Trustee, Northwest Mining Association, 1989-91
- Western Michigan University Alumni Association Board of Directors, 1989-95 (President, Alumni Association, 1993-1994)
- Chairman (1982 to present), Advisory Council, Geosciences Department, Western Michigan University
- Recipient of the Western Michigan University College of Arts and Sciences Alumni Achievement Award, October 1998
- Recipient of the Western Michigan University Geosciences Department Outstanding Alumni Academy Award, October 2001
- Recipient, Western Michigan University Geosciences Department, Distinguished Advisory Council member, October 2012

PUBLIC AND POLITICAL PARTICIPATION

- President's (William Clinton) Roundtable on Technology Transfer, Washington, D.C. and Denver Colorado (Rocky Flats)
- US Conference of Mayors, Revitalization of Urban Areas, Washington, D.C.