

RESUME

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SUMMARY OF EXPERIENCE

More than forty-five years in:

- *Natural Resource and Mining Property Evaluation*
- *Project Planning and Management*
- *Prospect Generation*
- *Mine & field Mapping and Field Methods Training*
- *Consulting geologist since 1978*

Recent activity: Supervise 12 geologists and geo-techs preparing, logging, photographing, and sampling 180hole exploration program. Ongoing tasks in preparation for proposed 2011 PR Spring project coring program that includes prequalifying drilling, and earth-moving contractors. Interviewing and hiring geologists and geo-techs to log and handle core. Equip logging trailers. for upcoming large exploration; working on right-of-way for proposed water well and pipeline on BLM land. Gold property evaluation: Obtain exploration permits from DOGM; Reserve estimates for 17 Utah rock quarries and gravel pits; evaluation of a large tar sand deposit on an ongoing project.

Economic study-evaluation uranium districts; helicopter supported diamond core drilling coal project on environmentally sensitive national forest lands; Paleo-seismology and Neogene Fault Study. Coal deposit and coal bed methane; Geotechnical drilling and core evaluation on pipeline route; Geotechnical coring and logging rock quarry; aggregate availability, regional study; Gypsum and aragonite evaluation: Petrographic, lithochemical alteration and age-date studies at the Toquepala and Cuajone Porphyry Copper Mines. Peru; Training mine geologists in open-pit mapping techniques at the above mines; Organized exploration teams for gold, silver and base metals exploration throughout Peru and parts of Argentina; Gold mine evaluation and development recommendations; Geophysical study 40,000 line Km aeromag survey in the copper porphyry belt, Southern Peru.

QUALIFICATIONS

Exploration Project Management

Exploration for sediment-hosted epithermal gold, porphyry copper, volcanogenic massive sulfide, skarn, vein, manto, placer, uranium, beryllium, and industrial mineral deposits in the United States, Alaska, Mexico, Peru, Argentina and Canada.

Mine/Prospect Evaluation and Assessment

On-site mine or prospect area examination, review of available prospect records. i.e., drill logs, maps, sample assays, geophysical/geochemical surveys, reserves, and literature search. Study of alteration and mineral zonation. *Summation of data and preparation of well-documented report.*

Property Development

Mapping, drilling, core logging, ore reserve calculations, rock quality data, and alteration studies.

Geochemical Surveys

Conduct pilot and geochemical survey planning, field staffing and supervision of project, and evaluation and interpretation of results.

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EDUCATION

MS Mineralogy and Geochemistry University of Utah 1968 BS Stratigraphic and Structural Geology University of Utah 1958. Numerous conferences and seminars and training programs have kept skills updated. Registered professional geologist Utah. #5536374.

SOME AFFILIATIONS AND CLIENTS

All Minerals	Gold Ventures
American Smelting and Refining	Inspiration Gold
Anaconda Company	Kennecott Exploration Company
Big Piney Oil	Kimberly Mining
British Petroleum	Kinross Gold
Buena Ventura, Minera Yanacocha (Peru)	Newmont Mining
Cannon Industries	Phelps Dodge
Cominco American	Southern Peru Copper
Covey and Company	Vitro Minerals
EI Paso Natural Gas	West Gold
EXXON	Wollex Exploration
First Sierra Gold	Wyoming Minerals Corporation
Standard	Earth Energy Resources
Canyon Fuels	

PROFESSIONAL ASSOCIATIONS

Utah Council of Professional Geologists, Utah Geological Association, Registered Professional Geologist Utah. OTHER INTERESTS: Fishing, boating, camping. Fitness sports, reading, music, volunteer tutoring, community service

SOME SPECIAL ACCOMPLISHMENTS

Chaired successful Utah Section American Institute of Mining Engineers fund-raising committee for two years in succession. Steering Committee for licensing professional geologists in Utah.

Worked to obtain Utah legislative approval for favorable small mine regulations.

Organized a functioning Government, Education, and Mining Committee, Utah Section American Institute of Mining Engineers.

Mineral discoveries in precious metals copper beryllium. and uranium. Scoutmaster

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WORK EXPERIENCE

2008- 2010 Gold - silver property evaluation SW Utah, in depth review of Gold Mountain District, Piute County, Utah. On going work on oil sand project, Uintah County, Utah. Permit application with DOGM, Utah.

2004-2008 Uranium exploration projects in the Tallahassee Creek Basin, Fremont County, CO. Evaluation and resource estimates of 17 Utah rock quarries and gravel pits. Project geologist for on going tar sand mine in eastern Utah. Work included hydrological study for well site; obtaining State and Federal permits, drilling contracts.

1998-2003 Economic and exploration feasibility evaluation of large gold-copper deposit in Chile; coal bed methane drilling project, mine drainage project, regional aggregate study, paleo-seismology fault study course; geotechnical core logging for pipe line route and rock quarry; helicopter supported diamond drilling a coal deposit in National Forest. Completed study and report on the Toquepala and Cuajone Copper mines.

1995-1998 Consultant to Southern Peru Copper: Training geologists in open pit mapping techniques; organized and supervised field teams evaluating the geology and geophysics of mineral properties throughout Peru. Conducted a petrology, alteration and geochemical study of the Toquepala and Cuajone Porphyry Copper Mines in Peru.

1991-1994 Evaluation of *porphyry copper*, *massive sulfide*, epithermal gold, and base metal skarn deposits in the United States, Canada, Mexico, and Peru. Integrated the data and provided clients with well documented reports and recommendations on the properties. Provided

geochemical and claim-staking services. Extensive prospect field mapping and sampling projects.

1988-1991 Geologic reconnaissance, prospect generation, and evaluation in Western United States and Mexico; Field and underground mine mapping, supplied geochemical, and claim-staking teams for clients. Worked extensively in gold, silver, copper, lead, and zinc, with some work on uranium and industrial minerals. Examined, and reported on many prospects throughout Mexico. Made feasibility studies for acquisition of active mines. Conducted gold placer mining tests.

1986-1988 Negotiated Joint venture operating agreement with major mining company. Assisted in organization and merger of a public and private company. Administration and fund raising for public company. Geologic evaluation of base and precious metals properties in Alaska, Utah, Nevada, New Mexico, Montana, and Idaho. Evaluated placer gold prospects in California and Colorado.

1985-1986 Supervised opening and sampling underground gold mine in New Mexico. Mapped, sampled, and studied gold-silver mines in Utah, Nevada, and Arizona. Prepared plans for open-pit mine for approval of Bureau of Land Management and Utah State Department of Environmental Quality. Mapped volcanogenic gold occurrences in Nevada.

1984-1985 Supervised a contract geochemical-geological field exploration team in Nevada that averaged 80 percent field time for the year. Located several areas for land acquisition and follow-up. Recommended acquisition of property that is now a major mine. Advised major company in interpreting geochemical anomalies and in selecting sediment-hosted gold targets in South central Mexico. Identified project areas.

1979-1984 Geologic evaluation of large epithermal silver district in Mexico (two-year project). This assignment included summarizing and integrating old reports into exploration plans and training Mexican geologists in mapping and sampling method. Sampled Yukon gold-placer deposit. Conducted prospect evaluations in Utah, Nevada, and Arizona.

1978-1979 Directed a geochemical water and soil-sampling exploration program on a 60,000-acre concession in Eastern Saskatchewan, Canada, using camp-based helicopter and field crews. Supervised regional and aerial geologic mapping and airborne radiometric surveying and anomaly evaluation which included rock and soil geochemistry in Nova Scotia, Canada.

1975-1978 Developed projects, hired, and technically supervised five field crews and an airborne Spectrometer in field exploration in Idaho, Montana, Washington, Oregon, Alaska, Wyoming, North Carolina, Georgia, Virginia, Pennsylvania, New Jersey, and New York. Developed exploration concepts, project description, and budgets. Negotiated large consulting contracts. Prepared and presented project summaries to management.

1974-1975 Geology of Carr Fork shaft sites, pilot hole studies, rock quality, hydrology, and structure; geophysical studies during shaft sinking. Plans and sections for underground exploration and definition drilling. Geologic mapping, skarn alteration, mineralization, and zonation mapping.

1971-1974 Exploration for vein-type uranium deposits in Precambrian Metamorphic rocks Colorado Front Range. Developed a concept for the occurrence of vein-type uranium deposits in metamorphic rocks. Worked in Grant's mineral belt and New Mexico regional exploration.

1967-1971 Supervised exploration in Colorado, Utah, and Idaho. Geologic mapping, field reconnaissance for porphyry copper and massive sulfide-type deposits. Detailed mapping, sampling, and drilling copper-molybdenum systems. Coordinated and evaluated airborne uranium exploration in Colorado, Wyoming, and Idaho. Underground and pit mapping in Park City and Tintic, Utah, Yerington, Nevada, and Butte, Montana. Explored for uranium in the Colorado Plateau and Wyoming Powder River Basin.

1963-1967 Beryllium exploration in Utah and Nevada. Supervised drilling at Topaz Mountain. Worked on ore reserves and studied the geochemistry of the beryllium deposits. Completed a master's thesis on The Geochemistry and Geochronology of Beryllium Deposits in Western Utah and Eastern Nevada, which won a nationwide competition for thesis project interest. First to recognize extensions to Topaz beryllium deposits that doubled the ore reserves.

1959-1962 Uranium exploration in the Gas Hills, Shirley Basin, and Powder River Basin. Supervised four to six drills and logging truck. Beryllium exploration in Utah, California, Idaho, Montana, and Arizona. Participated in the initial discovery of the large beryllium deposits at Spor Mountain, Utah.

Publications: Fluorspar, Uranium, and Beryllium deposit At Spor Mountain, Utah, 2006, Mining Districts of Utah, Utah Geological Association Publication 32.

Registered Professional Geologist, Utah, License Number 5536374-2250,

- References provided upon request