

SUMMARY

I have been a successful alluvial consultant during the last 35 years. My best in class placer mining skills have proven effective for more than three decades on personal and private mining projects. This includes extracting thousands of ounces in gold, diamonds, and sapphires from locations around the world. My work includes site exploration, excavation, alluvial permitting, and all aspects of project management with overseeing day to day mining operations.

I have several years experience in teaching mining.

- Speaker at Butte School of Mines: 3 years
- Guest Instructor at Montana Tech on use of mineral jigs.
- Built glass jig to demonstrate operational concepts for jigs.

I have collaborated on several alluvial mining projects:

- 2001 Southeast Venezuela: Project manager on alluvial diamond mine.
- 2001 Western Venezuela: on the discovery team that identified Guaniamo diamond fields.
- 1993 Dillion, Montana: identified, owned, operated, and vended a world class industrial Garnet project: Sweet Water Garnet.
- 1989 New Zealand: on the commissioning team for a 3500 cmph bucket line cutter head combination dredge for R.A. Hanson Co. Inc.
- 1987 Reno, Nevada: on the discovery team to identify a mineral recovery system to extract plutonium from old nuclear blast test sites for Montana Tech and MSE.
- 1986 Bannack Mining District: as sole proprietor made this purchase, identified a significant gold skarn and vended this property to Cypress Minerals.

I design and manufacture equipment producing robust mineral recovery systems. My engineering skills have been used to produce: extraction equipment, dredges, trommel wash plants, screening systems. My signature wash plant is as a complete unit: hopper, vibrating screen/trommel (classifier), sluice boxes or jig concentrator (depends on project requirements), centrifugal pump, and trailer.

I have owned and operated various mining equipment.

- | | |
|-----------------------------|------------------------------|
| 54-Bucyrus Erie Dragline | 3-22-B Bucyrus Erie Dragline |
| D-9G s/n 12,227: 15 years | 3 46 A D-8 Cats: 10 years |
| LS 2800 Excavator: 10 years | 345 Excavator: 10 years |
| 25 Ton Volvo Rock Truck 825 | Cat 312B: 10 years |
| and various other equipment | |

Experience

Partner, Bear Creek Placer, LLC

2008 – Present: Placer Mines, Montana

Project Manager (PM) of placer mining projects located in Montana at Bear Creek and Hughes Creek. PM work includes locating and evaluating specific geology to identify suitable claim area(s) which includes testing and extrapolating potential mineral extraction values ; researching potential claims in available records; ascertain and complete appropriate applications prior filing to fulfill State and Federal requirements; compile engineering specs to determine best practices on equipment use and design eco-system restoration plans; arrange necessary heavy equipment and resources to complete manual mining tasks: oversee the day to day operations and configure solutions as needed for mechanical issues that occur; arrange transportation to return equipment; and finalize accounting for the entire project.

Treasure Hunters Series: hired by Discovery Channel to be one of the miners in an episode where we traveled to India to mine for Diamonds.

Civil Work, Watts Construction and J.M. Clark

2002 – 2007: Civil Work, Multiple Locations

Foreman on construction projects building homes, businesses, and public projects. This work included running heavy equipment. Hired by Mines Management PVT Limited do find ancient kollur diamond fields on Krishna River: identify the boundaries and devise plan to extract alluvial minerals and the promising Kimerlite intrusive.

Alluvial Mining Consultant, Caroni River, Venezuela

2001: Placer Mines, Caroni River in Venezuela

Consultant to private gold and diamond mining project. Designed a major retrofit and operated an air lift dredge that was very successful.

The Bureau of Mines in Montana used some of my Bannack Mine material to articulate Best Mining Practices in a few public mining publications.

Private Mining Projects

1994 – 1996: Placer Mines, Montana

I discovered perhaps one of the largest garnet deposits in the USA. I was co-partners in a gold placer mine with the Blackfoot City Project near Avon, Montana. The R.A. Hanson Co. Inc., hired my consulting services to evaluate and produce design to rework an old uranium deposit for the Power Services of Wyoming using Cutter Head Suction Technology that I helped to develop several years earlier. The Toco Mining Co. hired me to come to Venezuela and conduct a testing and evaluation project for gold and diamonds (hard rock and alluvial) in several geographic and remote locations.

Designer, Equipment Development

1993: Montana

I was the designer on a private equity project to develop a multi-faceted chromatography and gravity separation system for nuclear cleanup.

Placer Mining: Equipment Development & Mine Owner

1990 – 1992: Placer Mines, Montana

As a consultant hired by Skalkaho Grazing I designed and built a 200 CYH excavator/floater on a sapphire mine. On a project in Darby, Montana I was able to salvage, dismantle, and rebuild a heavy media spread from the fluorspar mine located there.

In Eureka Gulch, Montana I owned and mined a placer which included locating and evaluating specific geology to identify suitable claim area(s) which includes testing and extrapolating potential mineral extraction values; compile engineering specs to determine best practices on equipment use and design eco-system restoration plans; arrange necessary heavy equipment and resources; and oversee the day to day operations and configure solutions as needed for my sapphire and gold mine projects.

Alluvial Mining Consultant and Mine Owner

1986 – 1990: Placer Mining in New Zealand and Montana

In New Zealand I was a consultant for R.A. Hanson Co. Inc., on a 3500 CMH combination bucket line cutter suction head dredge; the largest of its' type in the world. RA Hanson was successful inventor and industrialist who held more than 100 patents in 50 countries. I also did consulting for Resolute Resources to complete a feasibility

evaluation of gold and garnet production in Po River Valley, Italy. Did consulting with Fletcher Titanium in their recovery lab on titanium, zirconium, ilmenites and fine gold. This was located on the South Island, West Coast of New Zealand.

In Montana I owned and mined the Bannack and the Bon Accord placers. As a placer mine owner I was responsible for all mining activities. This work included evaluating specific geology to identify suitable claim area(s) which includes testing and extrapolating potential mineral values; design eco-system restoration plans; arrange necessary heavy equipment and resources to complete mining tasks; and oversee the day to day operations and configure solutions as needed for entire project life. An article was written about my Bannack District mining operation in a national magazine.

As a placer mine owner I was responsible for all mining activities. This work included evaluating specific geology to identify suitable claim area(s) which includes testing and extrapolating potential mineral values; design eco-system restoration plans; arrange necessary heavy equipment and resources to complete mining tasks; and oversee the day to day operations and configure solutions as needed for entire project life.

In Reno, Nevada I contributed consulting work to Hydro Processing that contributed to the development of a hydraulic mineral separation device.