

# REBECCA A. MILLER, RG, CPG

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Dynamic geological services professional with proven US/Mexico success in epithermal precious metal and copper porphyry exploration, drilling, geologic evaluation, mine waste characterization, geochemistry, storm water permitting, mine permitting, and reclamation. Registered geologist with first-hand experience managing large projects. Applying professional methods and industry quality standards with regard to meeting due diligence requirements. Registered Geologist, State of Arizona-32702. Professional Geologist, AIPG-25628. Founding Registered Member – Society of Mining, Metallurgy and Exploration (SME). Fellow - Society of Economic Geologists. Proficient in MS Office suite, acQuire, and MineSight. *Bilingual - fluent in Spanish/ English.* SME-certified NI 43-101 Qualified Person.

## Achievements

**Skilled Manager...** *able to drive generation of mineral exploration opportunities in western US and Mexico*

- ⇒ Scoped, scheduled and controlled costs for projects valued up to \$20 million
- ⇒ Increased copper/gold resources in a near-mine settings with expectations of adding 3+ years to mine life
- ⇒ New copper/gold discovery and assisted in expansion of a known copper resource inside historic pit area
  - ⇒ Directed independent drilling contractors responsible for \$15+ million in equipment and inventory
  - ⇒ Managed and met exploration budgets totaling \$16.4 million

**Results-Oriented Communicator...** *with solid presentation and client relation development skills*

- ⇒ Delivered multiple public speeches at international venues in the US and Canada
- ⇒ Negotiated international smelting and shipping contracts; secured profitable client contacts in Mexico
- ⇒ Successfully interfaced directly with federal and state agencies during all mine-permitting procedures
  - ⇒ Excellent report writing and presentation skills
- ⇒ Associated Builders and Contractors 2000 National Excellence in Construction, Award of Excellence - Sundt Construction, Inc. Pajarito Canyon Flood Retention Project – Los Alamos National Laboratory

## PROFESSIONAL CAREER

**CONSULTING GEOLOGIST - R.A. MILLER, R.G., Phoenix, AZ** 1998 TO PRESENT INTERMITTENT  
Consulted with HudBay Minerals on the Rosemont Copper project in southeast Arizona during Fall of 2015 and 2016. Responsible for geologic logging and RQD for mineralized HQ core.

Previously, worked with Coeur Mexicana SA de CV at the Palmarejo Mine in Chihuahua Mexico to delineate and map the local mine geology and Tertiary epithermal gold vein structures on the periphery of the immediate mine area. Work for other clients has included:

- Logged core and reverse circulation chips for gold, silver, and copper projects in Montana, California, Nevada and Arizona
- Supervised core and RC drilling crews, identified value-added materials, and increased resources
- Developed conceptual deposit models and styles for mineral occurrences
- Authored mine waste characterization guidelines for the State of Montana
- Conducted remote sensing to explore for potential copper targets in southern Alaska. LandSat, magnetic and geochemical information were used to highlight areas of gossan formation in mineralized areas
- Identified and negotiated regulatory requirements applicable to exploration activities in Mexico
- Managed compliance with operational and environmental standards and procedures
- Designed and managed large-scale geochemical, acid-base, and water quality study to predict future water quality associated with closure of large mining district

**SR EXPLORATION GEOLOGIST/ACTING CHIEF** ROBINSON NEVADA MINING CO. FEB 2010 – APR 2014

Increased copper/gold resource in a near-mine setting with expectations of adding 3+ years to mine life. Ensured alignment of Exploration goals with the Mine Operations goals by providing for advanced exploration of near-pit targets to increase mine life. Provided recommendations for exploration initiatives to upper management. Work resulted in new copper discovery and 1.48 billion pound expansion of copper resource within an inactive pit area.

Prepared capital and operating budgets. Prepared all Exploration authorizations for expenditures. Managed 2010 through 2012 exploration scope, schedule, and expenditures including cost tracking and monthly reports and forecast submissions.

Ensured safe work environment and safe practices for geologists, geotechnicians, and all contractors. Managed 12 geologic staff; established performance standards, created goals and conducted annual performance reviews with direct reports, determined schedules, staff requirements, and project deliverables.

Established new tracking system and procedures to ensure quality samples were collected during drilling. Managed quality control procedures including those for geologic logging, drilling, sampling, analytical analyses, and data validation/verification. Compiled all results from acQuire and performed quarterly quality assurance reporting.

Delineated exploration targets. Designed drilling programs for near-pit target areas using MineSight. Executed drilling programs, including logistics, road construction and sampling, on time and within budgets. Negotiated and managed all drilling-related contracts. Scoped, scheduled, budgeted, and managed contracts for road/pad construction, assaying, drilling, consulting geologic staff, and down-hole surveys. Directed three separate drilling contractors (working 24/7 with up to five drill rigs concurrently) to complete 320K+ feet of drilling from 2010 through 2013. Designed, scheduled, and executed geophysical and geochemical studies.

Interpreted and analyzed drilling results along with geochemical and geophysical data. Provided quality control and peer review of cross sections before digitization and creation of solids in MineSight to develop geologic models. Reviewed pre-feasibility, feasibility, and geotechnical reports for accuracy and technical completeness.

**PRINCIPAL GEOLOGIST** MWH AMERICAS INC., Phoenix, AZ OCT 2007 – AUG 2009

Principal geologist responsible for marketing and business development for Arizona and New Mexico offices. Senior technical lead with regard to mine scoping, planning, permitting, compliance and mine waste characterization. Provided lead technical review and project management for a scoping study for six very large proposed leach stockpiles for the Morenci Mine in Arizona. Provided documentation for permit requirements necessary to conduct uranium mining/milling in Arizona.

**SENIOR ENVIRONMENTAL COORDINATOR** RW STAFFING SOLUTIONS, Mesa, AZ JUN 2006–OCT 2007

Contract employee to the City of Phoenix responsible for quality assurance for environmental compliance for all City of Phoenix Streets Transportation Department projects. Directed on-call consultants and other city staff to ensure project deadlines, budgets, and quality control requirements were met.

**SENIOR ENVIRONMENTAL PLANNER** TCE, Phoenix, AZ JUN 2002– JUN 2006

Contract employee to the Arizona Department of Transportation responsible for supervision of permitting of 80+ FHWA transportation projects each valued from \$0.5 to 1.5 million. Supervised environmental permitting and approved cost estimates for preparation of NEPA documents and technical support documents for state and local projects. On behalf of the FHWA, developed relationships with community leaders to assist local governments with Transportation Enhancement grant applications and construction of the respective projects.

## **ADDENDUM**

**Rebecca A. Miller, R.G.**

### **LICENSURE, EDUCATION AND CERTIFICATION**

**Registered Geologist, State of Arizona, 32702 – in good standing**  
**American Institute of Professional Geologists, 25628 – in good standing**

MSc Geology, University of Texas

BA Geology, Western State College, Colorado

Safety certifications in Hazardous Waste Operations, Current Mine Safety - MSHA

Radiation Safety Officer, First Aid, and CPR

Engineering certification including NICET Levels I, II, and III, ATI, and ACI

### **MEMBERSHIP**

Fellow – Society of Economic Geology

Founding Registered Member and Past Section Chair, Society for Mining, Metallurgy, and Exploration

Committee Member, American Society for Testing Materials

### **TRAINING**

Lowell Program in Economic Geology short course in Porphyry Deposits – University of Arizona, Tucson

Mining law short course, University of Nevada, Reno

ADOT Erosion Control Coordinator Training

NEPA and the Transportation Decision Making Process

Applying the NEPA process, Shipley Associates, Missoula, Montana

Designing winning presentations seminar, Dag Knudsen & Associates, Minneapolis, Minnesota

Acid rock drainage workshop, USFS, Region 8, Butte, Montana

Prediction, prevention, and control of acid mine drainage in the West four-day workshop, Breckenridge, Colorado

Mine design, operations, and closure conferences, Whitefish, Montana

AUTOCAD-AdCadd three-day workshop, Softdesk Inc, Helena, Montana

MINTEQA2 geochemical speciation 3-day workshop, Allison Geoscience Consultants, Gainesville, Georgia

Geochemical speciation three-day workshop, USGS, Nordstrom and Alpers, Spokane, Washington

### **GRANT AND PUBLICATIONS**

National Science Foundation Grant EAR-85-17275 for fluid inclusion heating/cooling microscope stage platform.

Minerals, Metals and Materials Society. 1999. Analytical Technology in the Mineral Industries. Cabri, L., Bucknam, C., Milosavljevic, E.B., Chryssoulis, S., and Miller, R.A., eds. Proc. TMS Symposium, San Diego California, February 28-March 4, 1999, 281 pp.

Miller, R.A. 1997. Underground Mine Materials Characterization and Mine Water Quality. Submitted to Arizona Department of Environmental Quality in support of Aquifer Protection Permit Application. Volumes I, II, III.

Miller, R.A. and Gurrieri, J.T. 1997. Geochemistry and Water Quality Prediction for Au-Cu-Ag Skarn Deposits in the New World Mining District, Montana. Abstract. Proc. 4th International Symposium on Environmental Geochemistry, October 5-10, 1997, Vail, Colorado, submitted for approval for publication to the Journal of Geochemical Exploration.

Miller, R.A. and Hertel, T.M. 1997. Mine Rock Characterization - Zortman and Landusky Mines, Little Rocky Mountains, Phillips County, North-Central Montana. Proc. Fourth International Conference on Acid Rock Drainage, May 31-June 6, Vancouver, B.C., pp. 515-532.

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**PUBLICATIONS (CONTINUED)**

- Miller, R.A. 1996. Geochemical Comparison of Two Very Similar Strata-bound Copper Sulfide Orebodies in Northwest Montana. Submitted to U.S. Forest Service and USEPA in support of the Environmental Impact Statement for the ASARCO Rock Creek Project. September 11, 1996. Available at the Montana DEQ, Helena, Montana.
- Miller, R.A. and Goodell, P.C. 1988. Description of Los Llanitos Mining District, Southwest Chihuahua, Mexico. In: Stratigraphy, Tectonics and Resources of Parts of Sierra Madre Occidental Province, Mexico. Guidebook for the 1988 Field Conference. El Paso Geological Society, February 24-28, pp 287-296.

**Major NEPA Documents**

- ✓ MDEQ and USDOJ BLM, 1996. Final EIS, Zortman and Landusky Mine Extensions, Zortman, Montana
- ✓ MDSL and USDA Forest Service Gallatin National Forest, 1995. Draft EIS, New World Project, Cooke City, Montana
- ✓ MDSL and USDOJ BLM, 1993. Supplemental EA, Landusky Mine, Phillips County, Montana
- ✓ MDSL and USDA Forest Service Deerlodge National Forest, 1993. Final EIS, South Beal Project, Gregson, Montana
- ✓ MDSL and USDA Forest Service, 1992. Final EIS, Stillwater Mine Expansion 2000TPD, Nye County, Montana