

## **R E S U M E**

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### **EDUCATION:**

M.S. Geology, New Mexico State University, 1987  
B.A. Geology, University of Wisconsin at Platteville, 1985

### **PROFESSIONAL REGISTRATION/CERTIFICATION:**

Certified Hydrogeologist in California, N° 693  
Registered Professional Geologist in Georgia, N° 789  
Registered professional Geologist in California, N° 5238  
Certified Professional Geologist, AIPG N° 8857

### **TECHNICAL SOCIETIES**

American Institute of Mining Engineers

### **SUMMARY OF PROFESSIONAL EXPERIENCE:**

Current: Manager Hydrology, Barrick Gold Corporation, Tucson, AZ  
2000 to 2004: Superintendent Hydrology, CMN-Barrick, La Serena Chile  
1996 to 2000: Superintendent Hydrology, Barrick Goldstrike Mines, Inc., Elko, NV  
1993 to 1996: Senior Hydrogeologist, Barrick Goldstrike Mines, Inc., Elko, NV  
1990 to 1993: Senior Hydrogeologist, Leggette, Brashears & Graham, Inc.  
Albuquerque, NM & St. Paul, MN  
1987 to 1990: Hydrogeologist, Leggette, Brashears & Graham, Inc., Albuquerque,  
NM.

### **PUBLICATIONS:**

"A Guideline for Hydrogeology Program Development at Open-Pit Mines", Preprint  
N° 153, Society of Mining Engineers Annual Convention, Reno, NV, 1993.

"Uplift, Erosion and Burial of Laramide Fault Blocks, Salado Mountains, Sierra  
County, New Mexico", New Mexico Geology, Vol. 10, N° 3, August 1988 (with W.R.  
Seager).

"The Transition from Ground-Water Mining to Induced Recharge in Generalized  
Hydrogeologic Systems", Proceedings of the Focus Conference in Southwestern  
Ground-Water Issues, 1988 (with W.P. Balleau).

"Structural and Volcanic Geology of the Salado Mountains-Garcia Peaks Area,  
Sierra county, New Mexico", New Mexico State University Master's Thesis, 1987.

## **SUMMARY OF RECENT PROFESSIONAL EXPERIENCE**

Currently hold position of Manager of Hydrology in the Technical Services Division of Barrick Gold Corporation. Responsible for providing technical support to properties in operation and closure, management of hydrologic aspects of scoping and feasibility studies and environmental impact statements, and participation in due diligence teams.

### **La Serena, Chile**

Responsible for technical support and project management of hydrological and water-quality aspects of development and closure projects in South America and Australia. Projects included El Indio, Tambo, Pascua Lama, Alto Chicama, Veladero and Cowal, as well as a review of the hydrologic conditions of the Tulawaka Project, and technical due diligence for a project in Mongolia. Provided presentations to private and public authorities in support of Barrick's activities.

Specific technical experience includes water management, water-balance development and surface-water impact assessments in the dry Andes of Chile, the wet Andes of Peru, and in eastern Australia; design of dewatering system for saturated low-permeability ground; glacial hydrology and impacts mitigation; ARD characterizations and management (both virgin and mature); and, surface water-quality impacts assessments.

### **Goldstrike Mine, Nevada:**

Responsible for management of technical staff and consultants involved with hydrologic aspects of water management at Goldstrike. The main objective of water management included lowering the water table 1,700 feet to optimize efficiency and cost for open-pit and underground mining. This objective was met by pumping and managing up to 70,000 gpm. Provided technical lead and support in development of Environmental Impact Statements and other State and Federal permits, and represented the company in negotiations with private and public interests. Duties included managing ongoing collection and evaluation of data at over 200 ground and surface water sites; development of GIS and database systems; planning and implementation of well fields, horizontal drains, injection wells and infiltration fields; development and application of ground-water and vadose-zone models. Information developed by the Hydrology Department guided capital expenditures of over \$250MM to meet the water management objectives.

## **PREVIOUS EXPERIENCE:**

### **Ground-Water Supply and Water Rights**

- Jemez River, New Mexico: Utilized MODFLOW to project yield potential of an interconnected surface water/alluvial-aquifer system in support of water-rights adjudication.
- Rio Pueblo de Taos, New Mexico: Evaluated water-supply exploration project in support of water-rights adjudication.
- Alamogordo, New Mexico: Assessment of ground-water resources for a private developer.
- Sarasota, Florida: Utilized MODFLOW to project effects of new ground-water supply development on an existing municipal well field. Extent of displacement of poor quality water was simulated for several development scenarios. Results used successfully to support expert testimony at permit hearings.
- Port Hudson, Louisiana: Management of a 40 MGD well field for a paper mill. Included execution and analyses of aquifer tests and specific-capacity tests from wells completed in several coastal plain aquifers.

### **Dewatering and Dam Seepage**

- Guadalupe River New Mexico: Utilized MODFLOW to project reservoir-seepage potential in support of water-rights adjudication.
- Carajas, Brazil: Managed hydrologic aspects of a due diligence review of several mining properties in the Carajas District. Evaluated all hydrologic aspects of the properties, conducted pumping tests, ground-water flow modeling and estimated future capital and operating budgets for water management at the properties.
- Cochiti, New Mexico: Dam-seepage control project designed to evaluate a proposed horizontal-drainage system to dewater agricultural fields down stream of the dam toe. Results used successfully to support expert testimony at administrative hearings.
- Huaraz, Peru: Oversight of hydrologic aspects of Barrick Gold Corporation's Pierina Project during design phase.
- Jemez and San Isidro, New Mexico: Utilized MODFLOW to project reservoir-seepage potential at two proposed dam construction sites. Information used to determine reservoir-site feasibility and to aid modifications of dam and reservoir-pool design.
- Northern Alberta Canada: Provided technical review of a mine-dewatering model for an open-pit tar-sand mine.

### **Ground-Water Contamination**

- Rio Rancho, New Mexico: Assessment of ground-water contamination resulting from land disposal of wastewater.
- Beatty, Nevada: Managed technical aspects of a pit-lake water-quality evaluation including simulation of pit filling and fate-transport modeling of constituents from the pit lake. Information used to support closure of the property.
- Corrales, New Mexico: Soil and ground-water sampling to determine the extent of hydrocarbon migration in the surface from a leaking underground storage tank.
- Elko County, Nevada: Utilized PATH3D to project the area influenced by mine dewatering and dewatering-water disposal activities.
- Ortiz, New Mexico: Managed technical aspects of a pit-lake water-quality evaluation including simulation of pit-filling of fate-transport modeling of constituents from the pit lake. Represented company to State officials. Information used to support closure of the property.
- Sarasota, Florida: Utilized PATH3D to project salt-water upcoming in support of water-use permits.