

THOMAS E. BELL, Ph.D. Professional Geologist
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PROFESSIONAL EXPERIENCE

Project management and regulatory permitting (USA)
Geographic Information System design and management
Remote sensing analysis
Drill supervision
Core logging
Geochemical sampling
Geochemical analysis
Geologic structural analysis
Geologic mapping
Stratigraphic analysis and modeling
Geostatistical analysis
Radiometric analysis
Data base design and management
Hydrogeologic analysis
Numerical and analytical ground water modeling

TECHNOLOGY

ArcGIS: GIS mapping
ArcPad: PDA based GIS mapping & data collection
Google Earth: web based GIS mapping
Panorama: satellite image processing & analysis
Techbase: mine evaluation software
Global Mapper: raster & vector mapping
MODFLOW: groundwater modeling software
R: statistical analysis software
Adobe Design Suite: Acrobat Pro, Photoshop, Illustrator
Microsoft Office Suite: Word, Excel, Access, Powerpoint
Visual Basic: computer language
VB Script: computer language
HTML: computer language

PROFESSIONAL HISTORY

Vice President & Chief Geologist, Crosshair Energy Corp, Denver, CO
Principal Geologist, Stratamodel Inc., Cohasset, MA and State College, PA,
Research Associate, Earth Systems Science Center, The Pennsylvania State University,
Senior Geologist, Nittany Geoscience, Inc., State College, PA,
Senior Geologist, BHP Minerals, Inc., San Francisco, CA,
Exploration Geologist, Hunt Ware & Proffett, Reno, NV,
Research Geologist, ARCO Oil & Gas Co., Plano, TX,
Exploration Geologist, Anaconda Copper Co., Denver, CO,
Geologic Field Assistant, U.S. Geological Survey, Denver, CO,

PROFESSIONAL AFFILIATIONS

American Institute of Professional Geologists
Prospectors and Developers Association of Canada
Society of Exploration Geologists

EDUCATION and CREDENTIALS

Ph.D., Geology, University of California at Berkeley
M.A., Geology, University of California at Berkeley
B.S., Geology, San Jose State University
GIS Professional Certificate, The Pennsylvania State University
Groundwater Professional Certificate, Oklahoma State University
Registered Professional Geologist No. PG-000102-G State of Pennsylvania
Registered Professional Geologist No. 11350 AIPG
MODFLOW short course, Natl Ground Water Assoc., San Francisco
Economic Evaluation and Investment Decision Methods, Stermole & Son, Houston
Lateritic Weathering in Tropical Soils, Tokyo

WORK LOCATIONS

Argentina	Botswana
Brazil	Canada
Cote d'Ivoire	French Guiana
Mali	Niger
Sierra Leone	USA
Zaire	Zambia
Republic of South Africa	

COMMODITIES

Precious Metals
Base metals
Uranium
Rare Metals
Zeolites
Diamonds
Ground Water

Gold Exploration Experience

My gold exploration experience spans modern placers to paleoplacers and mesozonal to epizonal precious metal systems in Africa and North and South America. I also participated in an unusual test of the viability of low temperature red bed gold deposition.

Nevada

As a junior geologist, I conducted site evaluations, claim selection, structural analysis, geochemical sampling and analysis, and drill site supervision for various properties along the Carlin Trend. This was classic Carlin Trend exploration involving chip and drill testing from southern to northern Nevada.

Arizona-Colorado-Utah-Wyoming

As a junior geologist, I carried out proof of concept testing of a red bed gold hypothesis (low temperature deposition of gold) in Triassic, Jurassic, and Cretaceous red bed sequences on the Colorado Plateau. Under contract through Hunt, Ware, and Proffett to Freeport Gold, this project focused on turn of the 20th century gold showings and obscure gold rushes.

New Mexico

As a consulting geologist, I evaluated dry gold placers in the Silver City area.

Republic of South Africa

In preparation for paleoplacer gold exploration in Brazil I spent five months in the RSA and toured nearly half of the operating mines in the Witwatersrand at the time. In addition, I supervised drilling for mesozonal gold on a property near Louis Trichardt in Limpopo Province.

Brazil

I was head of a regional gold exploration team evaluating gold provinces in the states of Minas Gerais, Goias, Bahia, Piaui, and Para for BHP. This program entailed regional mapping, sampling, and drilling in Proterozoic terrains. The focus was mesozonal gold in favorable structural settings. The program took on greater urgency as peasant gold rushes began breaking out in the north of Brazil. I visited more than a dozen of these gold rushes with the goal of understanding each local occurrence and evaluating the potential for deeper economic roots.

I headed BHP's South American exploration effort to identify and evaluate quartz pebble gold mineralization in Minas Gerais and Bahia (Jacobina). This program was expanded to include quartz pebble strata in French Guiana and around Tarkwa in Ghana.

In recognition that the Birimian system was severed by the opening of the Atlantic I was part of a small group who were selected to integrate the regional geology of the Northeast of Brazil with countries along the Gulf of Guinea Coast including Cote d'Ivoire and Ghana. This was later expanded to Mali and Niger as gold rushes and UNDP programs first identified significant gold mineralization in Birimian volcanics.

French Guiana

I was the program liaison from BHP to our joint venture partner BRGM who were drilling the D'Orlin project in central French Guiana. This was classic shear hosted quartz-gold mineralization in the Birimian system.

Ghana-Cote d'Ivoire

As a Senior Geologist, I oversaw project startup and initial exploration design and supervision along the Ashanti Trend in the Dunkwa region between the Ashanti and Bogosu Mines. The program was later expanded to include the area around Nielle in northern Cote d'Ivoire.

Mali

As a Senior Geologist, I conducted drill supervision and surface evaluation of the Syama gold deposit during the mine development stage.

Niger

I was project manager of gold exploration in Niger where I evaluated 14 gold rush camps in preparation for application of an exploration license (rejected). This is a classic Birimian sequence with shear zone hosted mesozonal gold mineralization. My top selection for a license was a place called Libiri which was later granted to Etruscan Gold who developed the Samira Hill gold mine.

Sierra Leone

I carried out evaluation and exploration of placer gold/columbite-tantalite mineralization in eastern Sierra Leone. This project resulted in the discovery of the bedrock source of the columbite-tantalite source.

Base Metal Exploration Experience

My base metal exploration experience spans low temperature red bed copper and silver mineralization, copper-cobalt systems, volcanogenic massive sulfides, and vein lead zinc mineralization. Work sites include Zambia, Zaire (DRC), Brazil, Argentina, and the USA.

Central Africa

I was part of several evaluation teams assessing business opportunities for BHP in the Zambian (and Zairian) Copper Belt. During that time, I visited, sampled and mapped prospects and former mine sites in Zaire, Zambia, and Botswana.

Argentina

As a Senior Geologist, I conducted reconnaissance mapping and sampling of lead-zinc-silver districts in Salta and Jujuy province. This program consisted of geologists and senior geologists selected for their expertise in various aspects of base metal exploration including my field of low temperature alteration.

Brazil

I was Project Manager overseeing regional reconnaissance for VMS potential in central and northeast Brazil.

USA

As District Geologist, I oversaw regional and prospect scale mapping, soil sampling, stream sediment sampling, and structural analysis of Belt Supergroup metasediments across two states. In addition, I served as the project liaison and project auditor for BHP's joint venture with Teck at Sheep Creek, a sediment hosted copper-cobalt massive sulfide deposit.

Uranium Exploration Experience

I wrote my doctoral dissertation on low temperature alteration and the hydrogeology of uranium mineralization in the Grants and Laguna Districts of New Mexico while working for the US Geological Survey Branch of Uranium and Thorium. After a long price induced exploration hiatus, I conducted field mapping, geochemical and radiometric soil sampling programs in several important uranium provinces in North America and Africa. Recently, I was Vice President and Chief Geologist at Crosshair Energy where I oversaw exploration and development of the company's uranium programs in Wyoming and Newfoundland.

New Mexico

I was part of a multidisciplinary team at the US Geological Survey performing a basin analysis of the San Juan Basin, one of the largest uranium producers in the world. My work led to the recognition of the importance of closed basin hydrogeologic conditions at the time of deposition and uranium mineralization and a geochemical means of mapping the most prospective zones in the larger system.

Colorado Plateau

As a consulting geologist, I conducted or supervised geologic mapping, soil geochemistry, structural analysis, and radiometric soil mapping of numerous properties covering the Triassic and Jurassic uranium districts in Utah, Arizona, Colorado, and New Mexico.

Wyoming

As a consulting geologist, I conducted or supervised geologic mapping, soil geochemistry, structural analysis, and radiometric soil mapping of numerous properties covering the Tertiary Basins uranium districts in Wyoming and South Dakota. As Vice President of Crosshair, I was responsible for definition and infill drilling at Juniper Ridge and Botheel which were planned as open pit-heap leach and in-situ recovery operations until the price fell below their economic thresholds. In addition, I was responsible for evaluating all property submittals, potential merger and acquisition situations, and joint venture opportunities.

Athabasca Basin

As a consulting geologist, I conducted or supervised geologic mapping, soil geochemistry, structural analysis, and radiometric soil mapping of unconformity style mineralization in the Athabasca Basin of northern Saskatchewan.

Niger

As a consulting geologist, I conducted or supervised geologic mapping, soil geochemistry, structural analysis, and radiometric soil mapping of sandstone type uranium mineralization in the Tim Mersoi Basin of northern Niger. My company Stratamodel has collected over ten thousand samples covering over 5,000 sq. km at the reconnaissance scale by integrating airborne geophysics with wide spaced soil geochemistry and radiometric measurements.