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PROFESSIONAL EXPERTISE

Project management
Geologic mapping
Drill supervision
Core logging
RQD logging
Geochemical sampling
Stratigraphic analysis and modeling
Geostatistical analysis
Geologic structural analysis
Geochemical analysis
Geotechnical analysis and modeling
Hydrogeologic analysis
Cone Penetration Test analysis
Data base design and management
Geographic Information System design and management
Numerical and analytical ground water modeling
NI43-101 report preparation

TECHNOLOGY

ArcGIS (PSU / ESRI certified GIS professional)
AutoCAD/AutoCADMAP
Microsoft Office suite
Techbase mine evaluation software
MODFLOW

EDUCATION

Ph.D., Geology, University of California at Berkeley, 1984
M.A., Geology, University of California at Berkeley, 1980
B.S., Geology, San Jose State University, 1978

CONTINUING EDUCATION

GIS Professional Certificate, The Pennsylvania State University, 2004
Groundwater Professional Certificate, Oklahoma State University, 1992
MODFLOW short course, Natl Ground Water Assoc., San Francisco, 1992

Economic Evaluation and Investment Decision Methods, Stermole & Son, Houston, 1989
Lateritic Weathering in Tropical Soils, Tokyo, 1986

PROFESSIONAL AFFILIATIONS

Registered Professional Geologist No. PG-000102-G State of Pennsylvania
Society of Exploration Geologists
Northwest Mining Association
Prospectors and Developers Association of Canada

PROFESSIONAL HISTORY

President, Stratamodel Inc., State College, PA, since 1999
Consulting Geologist, State College, PA, since 1995
Research Associate, Earth Systems Science Center, The Pennsylvania State University, 1995-96
Geologist, Nittany Geoscience, Inc., State College, PA, 1992-94
Senior Geologist, BHP Minerals, Inc., San Francisco, CA, 1985-92
Exploration Geologist, Hunt Ware & Proffett, Reno, NV, 1983-85
Research Geologist, ARCO Oil & Gas Co., Plano, TX, 1982
Exploration Geologist, Anaconda Copper Co., Denver, CO, 1981
Geologic Field Assistant, U.S. Geological Survey, Denver, CO, 1979-80

FOREIGN ASSIGNMENTS

Republic of South Africa: Mine tours, research, and analysis in the Witwatersrand and Barberton areas. Two occasions two years apart.

Brazil: Regional gold and base metal exploration in lower Proterozoic greenstone belts (Crixas, Faixa Weber, etc.) and quartz pebble conglomerates (Jacobina, Moeda, etc.)

Argentina: Reconnaissance mapping in San Juan, Salta, and Jujuy Provinces. Objectives were to assess potential for sediment hosted massive sulfides in the lower Paleozoic.

French Guiana: Evaluated the potential for lower Proterozoic paleoplacer gold and greenstone hosted gold deposits and conducted exploration activities associated with the Dorlin joint venture with the BRGM.

Ghana: Participated as an exploration team member evaluating the potential for paleoplacer and greenstone hosted gold in the Birimian belt between the Bogusu and Ashanti Mines.

Niger: Evaluated the gold and base metal potential of the Liptako region. Returned to participate in negotiations with the Minister of Mines for a concession.

Mali: Evaluated prospects in the region of the Syama Mine and performed exploration activities associated with ore reserve estimates at Syama. Returned to do condemnation exploration in the plant, shop, and camp area of the Syama Mine.

Cote d'Ivoire: Evaluated prospects near the border with Mali.

Zaire: Evaluated copper/cobalt properties offered by the government of Zaire.

Zambia: Examined Copper Belt stratigraphy and mineralization. Returned and evaluated copper/cobalt properties offered by the government of Zambia.

Botswana: Evaluated a copper property offered as a joint venture with Anglo American. Continued on to Johannesburg to evaluate project results, objectives, and discuss terms of the joint venture proposal.
