

DONALD E. ROSS

Registered Professional Geologist Certified Senior Property Appraiser

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GENERAL Consultant and owner of Ross Consulting - specializing in: mine valuation,
EXPERIENCE: expert testimony, property tax consultation and sand and gravel appraisal.
(Since 1973)

Natural Resource Appraisal Supervisor for the State of Arizona - appraisal
and cash flow analysis of mining and petroleum properties. (1974-88)

Senior Geologist for Inspiration Consolidated Copper Co. - mineral
exploration/development and hydrologic studies. (1967-1973)

PROFESSIONAL American Institute of Professional Geologists, Number 3223
GEOLOGIST Arizona State Board of Technical Registration, Geologist, Reg. 13519
REGISTRATION: California State Board of Registration for Geologists, Reg. 4513

APPRAISER Certified Appraiser, State of Arizona, Number 30142
CERTIFICATION: Accredited Senior Appraiser, American Society of Appraisers, Number
003142
Real Estate Appraiser, State of Missouri, Number RA003340

MEMBERSHIP: American Institute of Mining Engineering (AIME), member since 1967

EDUCATION: B. S. Degree - Arizona State University, Major: Geology
Colorado School of Mines, Short Courses
The Lincoln Institute of Land Policy, "Appraisal of Mining Property"
Society of Mining, Metallurgy and Exploration, Short Course
State of Arizona and International Association of Assessing Officers, 9
appraisal courses

EXPERIENCE: **Consultant/Appraiser, Ross Consulting, 1973 to present**

Mine valuation, expert testimony, property tax consultation, ore body
appraisal, geologic evaluation, ore reserve determination, sand and gravel
appraisal, implementation of mine appraisal systems, environmental
studies and royalty rate determination.

Natural Resource Unit Supervisor, State of Arizona, 1974 to 1988

Expert witness testimony to defend mine appraisals; economic evaluation and appraisal of each producing mine in Arizona including analysis of costs, revenues and production data; development of capitalization rates and discounted cash flow analysis; investigation of hydrologic and environmental factors, analysis of successful and unsuccessful mining investment; evaluation of metal price trends and technological advances.

EXPERIENCE: Inspiration Consolidated Copper Co., Inspiration, AZ, 1967 to 1973

Chief Geologist, Sanchez Project, AZ - Supervise geology division; prepare hydrology and environmental reports; prepare geological interpretation for the district; estimate ore reserves; coordinate property acquisition; conduct pit planning and feasibility studies.

Project Geologist, Leslie Denn Project, Winthrop, WA - Supervise exploration program, drilling and geological mapping; correlate geochemical and geophysical results; study hydrology; study environmental impact; estimate ore reserves; prepare final geological report.

Resident Mine Geologist, Inspiration, AZ - Estimate ore reserves; log drill core; stake mining claims; develop water supply; study environmental impact; prepare geological and property maps.

COURT Expert witness in court cases regarding appraisal and mine valuation:
EXPERIENCE: American Smelting and Refining Co. v. Pima County, AZ, 1974.
Ranchers Exploration and Development v. Gila County, AZ, 1975.
Cyprus-Pima Mining Co. v. Pima County, AZ, 1976.
Duval Corporation/Mineral Park Mine v. Mohave County, AZ, 1976.
Cyprus-Bagdad Mining Co. v. Yavapai County, AZ, 1977.
Inspiration Consolidated Copper Co. v. Gila County, AZ, 1980 and 1981.
Maricopa County Flood Control District v. R. C. Jones, AZ, 1993.
Wharf Resources v. Lead-Deadwood School District, SD, 1993.
ASARCO - Ray Mine v. Gila County, AZ, 1996.
City of Phoenix v. R. Peters, AZ, 1997.
Halloran et. al. v. Sierra Aggregate Co., CA, 1998.
Buckeye Irrigation Co. v. Waterfowl Preservation Society, AZ, 1999.

EXPERT Arizona Board of Tax Appeals, AZ, expert witness in ninety-three
WITNESS mine valuation cases.
EXPERIENCE: Homestake - McLaughlin Mine v. Lake County, CA.
Sonora Mining Co. - Jamestown Mine v. Toulumne County, CA.
Cyprus-Bagdad Mining Co. v. Yavapai Co., AZ.

PUBLICATIONS: Assessment of Sand and Gravel Resources and Economic Mining Potential:

Fort McDowell Mohave - Apache Indian Community, AZ;
NADSAT project #19; U. S. Department of Commerce.

Appraisal Manual for Mines and Natural Resources:
Arizona Department of Revenue, published from 1979 to 1988.

Appraisal Manual for Mines and Quarries:
South Dakota, Lawrence County, published 1989 & 1990.

INSTRUCTOR: Mines and Quarry Valuation, Int. Assoc. of Assessing Officers Workshop,
1993-1998.

CONSULTING PROJECTS

Mine:	Carlin Trend, NV	Mine:	Morenci Mine , Arizona
Objective:	Appraisal and Property Tax Analysis	Objective:	Appraisal and Expert Witness
Client:	Newmont Gold Company	Client:	Phelps Dodge Corporation
Mine:	Mission and Ray Mines, Arizona	Mine:	McLaughlin Mine, CA
Objective:	Appraisal and Property Tax Analysis	Objective:	Economic Evaluation and Expert Witness
Client:	ASARCO	Client:	Homestake Mining Company
Mine:	Bagdad and Miami Mines, Arizona	Mine:	Tucson Houghton and Marana Quarries, Arizona
Objective:	Appraisal and Expert Witness	Objective:	Appraisal sand/gravel
Client:	Cyprus Minerals Company	Client:	The CalMat Companies
Mine:	Valley gravel quarry, CA	Mine:	Utah Gypsum Mine
Objective:	Appraisal	Objective:	Appraisal
Client:	Tokai Bank	Client:	Key Bank, UT
Mine:	Jamestown Mine, CA	Mine:	Sand/gravel deposits, Arizona
Objective:	Appraisal and Expert Witness	Objective:	Appraisal
Client:	Sonora Mining Corporation	Client:	Flood Control District - Maricopa Co. ,Arizona
Mine:	Alaska Mines	Mine:	Coal Mines, Arizona & NM
Objective:	Appraisal	Objective:	Appraisal
Client:	City/Borough Juneau , AK	Client:	Navajo Nation
Mine:	San Manuel Mine, Arizona	Mine:	La Posta & Pala Indian Reservations, CA
Objective:	Appraisal of gold and copper mines	Objective:	Appraisal & royalty rate - gravel quarry
Client:	Magma Copper Company	Client:	Bureau of Indian Affairs

Mine: Sanchez Mine, Arizona
Objective: Geologic and ore reserve analysis
Client: AZCO Mining

Mine: South Dakota Gold Mines
Objective: Appraise gold mines/write appraisal manual
Client: Lawrence County , SD

Mine: Rocky Canyon BLM, CA
Objective: Appraise granite quarry
Client: Union Asphalt, Inc., CA

Project: Appraisal Manual, Arizona
Objective: Write appraisal manual
Client: Arizona Department of Revenue

Mine: Russian gold mines
Objective: Evaluate potential

Mine: Poulsbo Clay Mine, WA
Objective: Appraisal
Client: Pope Res. & Ash Grove Cement

Mine: Fort McDowell Indian Reservation, Arizona
Objective: Financial analysis for sand/gravel
Client: Fort McDowell Indian Tribe

Mine: McDowell Mountains , Arizona
Objective: Prepare geological map and analysis report
Client: Andover Corporation Markland Properties, Inc.

Mine: Mississippi River Limestone Quarry, MO
Objective: Discounted cash flow
Client: Mercantile Bank, St. Louis , MO

Mine: Gila River Waterfowl Preserve, Arizona
Objective: Appraisal sand and gravel deposit
Client: Sam Kelsall

Mine: Wellington , UT
Objective: Appraisal coal mine
Client: Coastal Corp.

Mine: Henderson Moly Mine, CO
Objective: Appraisal
Client: Grand County , CO