

Douglas H. Krohn Senior Geophysicist

Mr. Krohn has been sole proprietor of MKX for thirty years, specializing in geophysical consulting for mineral exploration and performing contracts and design-build work for mine reclamation. Previous clients include mining and oil companies as well as state and federal government. Prior to forming MKX, Mr. Krohn was senior geophysicist and group leader at Exploration Data Consultants, project geophysicist at The Anaconda Company, assistant professor at Montana College of Mineral Science and Technology, and geophysicist at Seismograph Service Corporation. Mr. Krohn has supervised and/or performed geophysical surveys and their interpretation throughout North America and in South America and Africa. In addition he has made geophysical interpretations of data from Europe, the Middle East and the Arctic Ocean. He is author or co-author of six papers that have appeared in peer-reviewed journals.

Qualifications

Education

- M.S. – Geology, University of New Mexico, 1972
- B.S. – Physics and Geology, University of New Mexico, 1969

Registrations / Certifications

- Duns 152248431
- SAM registration

Specialized Training

- Author / co-author of geophysical papers
- Developed industry-accepted gravity terrain corrections methodology
- Guest lecturer at Colorado School of Mines potential-field courses

SELECTED PROFESSIONAL EXPERIENCE

Gravity Survey of the Mogollon Plateau, Southwestern New Mexico (Thesis Study, financed by NASA grant) — Performed a land gravity survey over a rugged area of desert, forest and Wilderness comprising approximately 4500 square miles. Interpretation of structure and stratigraphy using gravity data published in Rhodes Volume on Cenozoic Volcanism (NMGS Spec. Pub. 5). **Developed a new and more efficient method of terrain corrections published in Geophysics (v. 41, p.266-275).**

Gravity and Vibroseis Survey, Big Smoky Valley, Nevada for Anaconda — Designed and performed a gravity and vibroseis survey to determine depth of alluvium as well as configuration of bedrock thrust faults and location of a buried molybdenum-bearing stock.. The gravity survey disclosed the existence and location of an important high-angle fault not previously recognized despite extensive drilling and geological examination.

Gravity Survey and Integration of Geophysical Information, Paradise Peak, Nevada for FMC Gold Company – Supervised a gravity survey and used that data in conjunction with a reprocessed airborne magnetic and EM survey, seismic survey, IP-resistivity, VLF, Max-Min work and geochemical data to make an integrated interpretation of the geology and mineral potential of the mine area.

Gravity and Magnetic Interpretation of Eldorado Valley, Nevada for Barringer Geoservices – Interpretation to determine thickness of alluvium.

Depth to Bedrock and Stratigraphy for Oil Exploration in Republic of Zambia, EdCon-World Bank – Supervised acquisition and interpretation of aeromagnetic and gravity data over

Professional Geophysicist

major basins throughout Zambia. Supplied 3-D maps of depth to crystalline basement to locate areas favorable for petroleum accumulation and further exploration.

Supervision of Aeromagnetic Survey and Subsequent Interpretation of Combined Gravity, Magnetic and Seismic Data to Determine Stratigraphy and Depth of Crystalline Basement Chaco-Parana Basin, Argentina for a Major Oil Company — Used newly acquired magnetic data in conjunction with existing seismic and gravity data to produce a more accurate picture of the subsurface.

PUBLICATIONS

1. Interpretation of intrabasin structures using LandSat TM, aeromagnetic, and gravity data, Eldorado Valley, Southern Nevada.
2. Principal information on Montana Mines.
3. Gravity terrain corrections using multi-quadratic equations.
4. Gravity survey of the Mogollon Plateau volcanic province, Southwestern New Mexico.
5. Tectonic control over regional geochemical variation in the Karroo basaltic province of Southern Africa.
6. The Squirrel Springs volcano-tectonic depression, Southwestern New Mexico; evidence for a buried cauldron and possible analog of some lunar ghost craters.