

EDWARD C. WELLMAN, P.E., P.G., C.E.G.

Education

M.S., Geological Engineering, University of Nevada, Reno, 1997
B.S., Geosciences, University of Arizona, Tucson, 1994

Registrations

Professional Engineer (Geological) - Arizona #36558 - Nevada #15318
Professional Engineer (Civil) – California #65833 – Colorado #39904 – New Mexico #18364
Professional Geologist – California #7474
Certified Engineering Geologist – California #2334
NCEES Council Record Holder #27657

Affiliations

Association of Engineering Geologists
American Society of Civil Engineers

Experience

- 2007 - Present **Vice President, Call & Nicholas, Inc.**, Tucson, Arizona.
Principal of the firm, managing and in responsible charge of slope stability evaluations, underground feasibility studies, and geomechanics projects. Specializes in engineering geology, analysis of rock fabric data, geomechanics and slope stability evaluations. Also specializes in the design of ground support systems, for slopes and underground openings, including technical specifications and contract documents.
- 2004 – 2007 **Geological Engineer, Call & Nicholas, Inc.**, Tucson, Arizona.
Engineering and geological consultant for underground rock mechanics, open-pit slope stability, and slope management for the mining industry. Project Engineer, responsible for technical reports and overall project management.
- 2001 - 2004 **Senior Engineer / Geologist, Condor Earth Technologies**, Sonora, California.
Specializations in geological hazard assessment, design of geo-supports, and slope reinforcement. Preparation of plans, technical specifications, and contract documents for construction and public utility clients. Projects included geotechnical investigations, underground rehabilitation, tunnel construction, and slope stabilization.
- 1997 - 2001 **Staff Geological Engineer, Call & Nicholas, Inc.**, Tucson, Arizona.
Responsibilities involve all aspects of open-pit slope stability analysis and design including; stability analyses of open-pit slopes, coordinating drilling programs and rock strength testing programs; and conducting mapping campaigns to collect geotechnical data.
- 1997 **Research Assistant, Jet Propulsion Laboratory**, Pasadena, California.
Responsibilities included interpretation of engineering telemetry to obtain information on Martian soil strength and properties from the Mars Pathfinder Lander.
- 1996 **Geological Engineering Intern, Kennecott Energy Company**, Gillette, Wyoming.
Performed geologic modeling of coal reserves, coal quality, and local structure using Techbase software. Interpreted drill logs, geophysical logs, quality data, and other geologic data. Drafted geologic maps, cross sections, and graphics for presentations.

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1994 – 1997 **Graduate Research Assistant, Geological Sciences, U of Nevada, Reno, Nevada.**
 Developed and coordinated a research program to answer fundamental questions on how faults nucleate in volcanic tuff units.

- Completed MSHA Surface Metal Mine Health and Safety Training

Publications

Wellman, E.C., Nicholas, D.E., & Brannon, C.A., 2008, Geomechanics Considerations in the Transition from the Grasberg Pit to Block Cave. *Proceedings of the MassMin 2008 Conference*, Lulea, Sweden

Wellman, E.C., A. Srikant & Nicholas, D.E., 2008, Prediction of Fragmentation in Block Cave Mine Design – An Update of the Core2Frag Program. *Proceedings of the MassMin 2008 Conference*, Lulea, Sweden

Rover Team, 1997. Characterization of the Martian Surface Deposits by the Mars Pathfinder Rover, Sojourner. *Science*, v. 278. p. 1765-1768.

Moore, H.J., J. Crisp, A.F.C. Haldenman, E. Wellman, 1997. Field Observations by the Pathfinder Rover on Mars. Abstracts 1997 GSA Annual Meeting, A-215.q.

Wellman, E.C. & R.A. Schultz, 1996. Fault initiation and growth in porous rock: Field observations from the Tuff of Hoover Dam. Abstract. 1996 Fall AGU Meeting.

Wellman, E.C. 1995. Hoover Dam Project Summary. In *Research in Geomechanics and Rock Fracture, 1995 Geomechanics – Rock Fracture Group Annual Report.*

Wellman, E.C. & Schultz, R.A. 1995. Mechanics of Gouge Development in Tuff, and Incremental Strain Indicators: A Case Study at Hoover Dam, Nevada and Arizona. Abstract, 1995 Fall AGU Meeting.