



Tye Lasich, Project Engineer

EXPERTISE

Explosives engineering, vibration monitoring and control, site characterization, rock mechanics testing

EMPLOYMENT HISTORY

- 2006-present Project Engineer, Aimone-Martin Associates, LLC, Socorro, NM**
Conduct pre and post-construction and blasting structure surveys, field monitoring of blasting and construction vibrations and specialized structure response measurements. Responsible for geotechnical evaluations and site characterization of rock blasting operations; development of instrumentation
- 2005-2006 Part-time Field Engineer, Aimone-Martin Associates, LLC, Socorro, NM**
Vibration monitoring, instrumentation and analysis for coal mine, quarry and construction projects; structure response studies; research projects involving analysis of impacts of blasting on highwall stability and fragmentation analysis
- 2004-2006 Research Assistant, New Mexico Institute of Mining and Technology, Socorro, NM**
Conduct applied research studies in blast design, fragmentation and back break control, conducted coal mine blasting optimization study at P&M McKinley Mine, NM; research in airblast effects; Teachers assistant for slope stability classes
- 2005 Blasting Field Technician, Industrial Alchemy Inc., Cheyenne, WY**
Field instrumentation measurements and analysis for an NSF-funded research project to minimize NOx formation during coal mine cast blasting operations; measurements included detonation pressures, fragmentation, back break, explosives shock densification, and velocity of detonation correlated with highwall vibrations
- 2004 Geology Technician, East Boulder Mine, Stillwater Mining Co., Big Timber, MT**
Grade control, marked faces and back for driving drifts and panel blasting; collected muck samples for grade control; blast optimization and design for panel blasting and loaded holes with blasters
- 2003 Field Technician, Watershed Consulting, LLC, Whitefish, MT**
Trained in field stream assessments involving sediment source identification, measuring stream geometry, bed load, identifying riparian vegetation, stream biology, and determining methods to improve the stream condition if any possible
- 2002 Drill Helper, Dynatek Drilling Inc., Salt Lake City, UT**
Trained in mixing drilling fluids. Maintained mud tank and pumps, pulled and emptied core tubes, maintained tubes and changed parts out as needed; performed site inspections daily and safety evaluations were required

EDUCATION

- 2006 M.S. in Mineral Engineering Specialization in Explosive Engineering, New Mexico Institute of Mining and Technology, Socorro, NM. Research: Blast Design, Fragmentation and Back Break control
- 2004 B.S. in Geological Engineering Specialization in Landslides and Slope Stability, Montana Tech of the University of Montana, Butte, MT

PROFESSIONAL MEMBERSHIPS

International Society of Explosives Engineers
Rio Grande Chapter of ISEE

RECENT PROJECTS

- 2005-2008 Northwest High School, Albuquerque, NM**
Conducted pre-blasting structure surveys, field monitoring of blasting and construction vibrations, analyzed data for every shot and made recommendations for future blasting operations; monitored nearby houses and high pressure gas lines
- 2006-2007 NM 62-180 Marland Blvd, Hobbs, NM – Reconstruction**
Conducted pre-construction structure surveys, field monitoring of demolition, base course compaction and asphalt compaction vibrations; analyzed data for highest vibration activities and made recommendations for future construction operations; monitored nearby houses and businesses
- 2007 Northwest LDS Church, Albuquerque, NM**
Conducted pre-blasting structure surveys, field monitoring of blasting and construction vibrations, analyzed data for every shot and made recommendations for future blasting operations; monitored nearby residential structures and walls
- Sundance Estates Subdivision, Albuquerque, NM**
Conducted pre and post- blasting structure surveys, field monitoring of blasting and construction vibrations, analyzed data for every shot and made recommendations for future blasting operations; nearby residential structures and walls; performed damage claim inspections
- Vista Vieja Subdivision, Albuquerque, NM**
Conducted pre-blasting structure surveys, field monitoring of blasting and construction vibrations, analyzed data for every shot and made recommendations for future blasting operations; monitored nearby residential structures and walls
- Henderson Crusher Study, Henderson, NV**
Conducted an attenuation study to measure vibrations and noise from rock crushers working near residential areas.
- Marlette Hobart Water System, Reno, NV**
Performed an attenuation study to measure vibrations and noise from drilling and blasting operations for a trenching project for a water pipeline that supplied water to the town of Carson City, NV. Regulations stipulated that airblast levels should be that of ambient background noise by 1000 ft. Blast design was engineered to make that possible.
- Haul Truck Study, Round Mountain, NV**
Performed an attenuation study to measure vibrations from mine haul trucks transporting ore to a crusher facility. The proposed haul road would pass near cultural sites that were considered to be sensitive.
- Astoria Homes Development Site, Henderson, LV**
Conducted field monitoring of blasting, analyzed data for every shot and made recommendations for future blasting operations; monitored nearby residential structures and walls
- 2008 Northwest Middle School, Albuquerque, NM**
Field monitoring of blasting, analyzed data for every shot and made recommendations for future blasting operations; monitored new high school buildings and walls and high pressure gas lines
- Northwest Elementary School, Albuquerque, NM**
Field monitoring of blasting, analyzed data for every shot and made recommendations for future blasting operations; monitored new middle school buildings, middle school buildings and walls
- NM 82 Tunnel, Cloudcroft, NM – Scaling and rock fall fence**
Conducted pre and post-construction structure survey of the tunnel liner and rock faces at either end, field monitoring of ambient vibrations caused by traffic passing through the tunnel, post-construction report detailing any differences in tunnel condition
- NM 460 Anthony Dr, Anthony, NM - Reconstruction**
Conducted pre-construction structure surveys, field monitoring of demolition, base course compaction and asphalt compaction vibrations; analyzed data for every structure monitored 2 times during highest

vibration activities and made recommendations for future construction operations; monitored nearby houses and businesses

Interstate 40, Albuquerque, NM – Pile driving and noise fence

Conducted pre-construction structure surveys, field monitoring of pile driving within 20 ft of structures; analyzed data at sensitive structures during high vibration activities and made recommendations for future construction operations; monitored nearby houses and businesses

Bureau of Reclamation, Albuquerque, NM

Performed an attenuation study of depth and distance to determine the affect of equipment working near an underground wooden siphon that passes under the Rio Grande River.

Office of Surface Mining, NM, WY, OH, KY, IL, IN, WV

Performed an attenuation study of different coupling methods used by industry when setting up seismographs to monitor vibrations caused by various blasting types such as coal shots, overburden shots, trench blasting, and construction masex

Airblast Study, Albuquerque Q Studios, Albuquerque, NM

Performed an attenuation study of airblast caused by special effects. Data was gathered to determine the overpressures of low explosives follows the same trend as high explosives through air.

New Mexico Railrunner, Santa Fe, NM

Field monitoring of blasting vibrations, analyzed data for every shot and made recommendations for future blasting operations; monitored poured in place concrete tunnels, a rest stop, and a residential structure

Santa Fe Landfill, Santa Fe, NM

Field monitoring of blasting vibrations from masex blasting operations, analyzed data for every shot and made recommendations for future blasting operations; monitored the landfill office and weigh station

Gregory Cook Pipeline, Grants, NM

Field monitoring of blasting vibrations from trench blasting operations, analyzed data for every shot and made recommendations for future blasting operations; monitored three adjacent pipelines range from 10 to 35 ft away the new pipeline being installed