

Katherine G. Berry

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OBJECTIVE:

To obtain full-time employment with a company where I can practice geotechnical engineering and utilize my experience, education, and gain additional knowledge that is geologically and engineering based.

EDUCATION:

Montana Tech of the University of Montana

M.S. Geosciences, Geological Engineering Option, December 2014

Cumulative GPA: 3.74

- Thesis: Comparison of a New Single-Specimen Multi-Stage Direct Shear Test Procedure to Standard Direct Shear Tests
- Relevant Courses: Slope Stability, Geostatistics, Metallic Ore Deposits, Hydrogeochemistry, Advanced Engineering Geology, Rock Fragmentation

B.S. Geological Engineering, Geotechnical Option, December 2013

Minor: Geophysics

Cumulative GPA: 3.49

- Relevant Courses: Numerical Modeling, Geomechanics, Geological Engineering, Mining Geology, Soil Mechanics, Hydrogeology, Geophysics, Field Geology, Geomorphology, Mineralogy-Petrology, Sedimentology & Pet Geology, Structural Geology

PROFESSIONAL EXPERIENCE:

Call & Nicholas Inc., Tucson, AZ

Geological Engineer: May 2019 – Present

- Analyzed open pit mine slopes and provided slope angle recommendations per the site's required factor of safety
- Reviewed, reduced, and applied rock/soil strength data for slope stability analysis
- Analyzed structural data and created stereonet to determine critical structural controls for slope stability
- Created drill plans to obtain geotechnical data, for slope stability analysis, and dewatering efforts
- Obtained field and digital geotechnical data. Measured the geology and structure of highwalls, using a Brunton compass and various software. Collected data of structure orientation, spacing, length, degree of weathering, roughness, and water conditions.
- Obtained geotechnical data by handling core, in core boxes. Rock quality designation (RQD), and structural mapping, via televiewer logging, were collected. Core samples were collected for strength testing
- Assisted in the lab performing rock and soil testing. Tests included: uniaxial compressive strength tests, triaxial strength tests, disk tension (Brazilian) tests, direct shear tests, soil classification, and Atterberg limits

Freeport McMoRan, Safford, AZ

Geotechnical Engineer: January 2015- April 2019

- Overall property slope management for pit slopes and stockpiles
- Managed and provided geotechnical project oversight and review relating to outside consultants, pit slope water control, structural geology, design slope angles and interfacing with mine design and planning
- Managed and reviewed slope stability data collection, analysis and remedial work; including, slope monitoring data processing, rock strength parameters, geologic structures, slope control blast designs, and slope angle reviews
- Managed the geotechnical budget and projects
- Communicated accurate and timely slope stability and geotechnical information to mine and site personnel
- Managed, conducted, and communicated the results of inspections of pit walls, stockpiles, and site access roads
- Proactively looked for improvements in safe mining of mine reserves; relating to, slope monitoring, slope maintenance, slope and catch bench designs, blasting, geotechnical data acquisition and analyses
- Developed, maintained, and implemented strategic plans, to enhance the mine's slope stability program
- Worked exclusively with Mine Planning, to develop plans, for mining success and continual slope steepening efforts

Butte Silver Mines Inc., Butte, MT

Geology Intern: May 2013-September 2013

- Worked with a group analyzing the feasibility of reopening silver mining in Butte, Montana
- Organized and palletized core boxes from old drilling operations
- Took inventory and reported missing intervals of core
- Observed long sections of old mine workings and indicated where there was drill-hole data

Freeport McMoRan Copper & Gold, Bagdad, AZ

Geotechnical Engineer Intern: May 2012-August 2012

- Worked with geologists and slope stability engineers
- Logged rock chips and helped record structure within the pit
- Gathered field data for active mass movements
- Gathered hydrologic data from piezometers and horizontal wells
- Summer project was conducting an isotope analysis for bodies of water within the mine site
- Presented my work to co-workers, supervisors, and the general mine manager

PROFESSIONAL CERTIFICATIONS & ACOMPLISHMENTS:

- Eligible to sit the Professional Engineering Exam and become a licensed professional
- Engineer in Training Certification (EI, EIT): 2014 EXP:09/19/2020
- Successful completion of the Fundamentals of Engineering Exam (FE): Oct 2013
- Order of the Engineer: 2013

RELEVANT SKILLS:

Geotechnical Rock and Soil Testing
Microsoft Office & Google Packages

CAD/Modeling Programs

- AutoCAD
- MinePlan (Minesight)
- Maptek
- CloudCompare
- WellCAD

Geotechnical Modeling Programs

- Rocscience Suite
 - Slide
 - Swedge
 - Dips
 - Rocfall
 - Phase2
- Colorado Rockfall (CRSP)

Monitoring Programs

- IBIS Radar
- IDS Guardian
- InSAR
- Canary Package
 - Piezometers
 - TDR Cable
 - Extensometers
 - Prisms
- Prism Mod
- Slideminder
- Alpha-Blast

REFERENCES:

Professional references and previous employer contact information will be provided upon request