

# SHELLEY SANDSTONE

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## PROFESSIONAL SUMMARY

- Special expertise in: hydrology, petroleum geology, 3D visual interpretation and modeling of natural resources, statistical analysis, and database design.
- Exceptional analytical, communication and organizational skills in project/client management.
- Good fundamental understanding of hydrologic and soil processes, soil survey and classification, soil amendment, land management impacts on soils and hydrology, risk assessment, and remediation techniques.

## EDUCATION

**Bachelor of Science in Geology**, University of Kansas – Lawrence, KS (Completed: May 20xx)

## GEOTECHNICAL/GEOLOGICAL SKILLS

- **Geographic Information Systems:** Working knowledge of the following programs and tools: ArcView, ArcInfo, 3D Analyst, and Global Positioning Systems.
- **3D Visualization and Seismic Interpretation Tools:** Working knowledge of the following programs and tools: Geoquest Systems (IESX, GeoVis), Landmark Systems (StratWorks, SeisWorks, Zmap), SURFER, GMAPlus (synthetics tool), AUTOCAD, and SAS.
- **Hydrology:** Experience testing, monitoring, and analyzing production water wells and well abandonment. Expertise in USGS methods of Solid Phase Extractions as well as methods for ground water and surface water sampling field techniques.
- **Geochemical Modeling Programs:** Familiarity with Netpath, PHREEQE, and Box Plot Programs.
- **Geologic and Soil Sampling:** Knowledge and utilization of grain analysis, core analysis, rock coring techniques, and geoprobe drilling methods. Extensive experience applying various soil sampling techniques.

## PROFESSIONAL EXPERIENCE

**KANSAS GEOLOGICAL SURVEY - Lawrence, KS**

**Geologic Sample Research Technician** (May 20xx-Present)

- Perform thin section preparation, staining, and peel preparation.
- Prepare samples for SEM, geochemistry and other geologic applications.
- Conduct rock preparation, which includes sawing, slabbing, polishing, and creating thin section billets.
- Inventory and archive existing rock and thin section collections, including digital imaging and creation of data catalogs.
- Participate in building and updating the petrophysics and core library inventory databases.
- Maintain and repair specialized equipment including microscopes and rock and thin section preparation equipment.
- Train and oversee other users in proper use of equipment and preparation of geological samples.
- Develop techniques for preparation of geological samples including design and fabrication of equipment and laboratory facilities.

**MAMMOTH CAVE NATIONAL PARK, Mammoth Cave, KY**

**Geology Intern** (May-August 20xx)

- Conducted data entry for inventory and assessment of selected lesser caves within Mammoth Cave National Park.
- Work included field verification of marginal baseline data; preliminary assessment of cave resources; and entrance data, including GPS locations, photo-documentation, dimensions, geology, hydrology, biology, cultural artifacts, and archaeological potential, as well as the setting of brass identification markers.
- Completed database work for associated FileMaker Pro records, Pathfinder GPS software, ESRI's ArcGIS, digital photograph library, and hardcopy records.

**YELLOWSTONE NATIONAL PARK, Wyoming**

**Geology Technician** (May-August, 20xx)

- Assisted Park geologists with the construction of a geologic database and other duties. Geologic information was entered into Excel and Access and displayed using ArcGIS.
- Maintained and downloaded temperature data loggers.
- Performed a variety of field work, which involved interacting with a diverse staff of botanists, zoologists, archeologists, educators, law enforcement rangers, and landscape architects.