

**Bruce E. Beechie**  
**1401 16<sup>th</sup> St. SE**  
**Mandan, North Dakota 58554**



**EDUCATION**

**1977 - 1981:**

**MINOT STATE UNIVERSITY**  
Minot, North Dakota 58701  
Graduated in May 1981  
Bachelor of Arts in Earth Science/Geology  
Minor concentrations in Geography,  
Biology and Environmental Science

**1973 - 1977:**

**MANDAN SENIOR HIGH SCHOOL**  
Mandan, North Dakota 58554  
Graduated in May 1977

**WORK EXPERIENCE**

**2007 – Present**

**NORTH DAKOTA PUBLIC SERVICE COMMISSION**  
**Reclamation Division**  
600 East Boulevard Ave., Dept. 408  
Bismarck, North Dakota 58505-0480  
Mr. James R. Deutsch, Director  
Telephone: (701) 328-2251

**Hydrologist**

Requirements of this position include performing timely reviews of applications for mining permits, revision, renewals, and postmining hydrologic assessment of bond release applications to ensure regulatory requirements are met with emphasis on hydrology and geology related provisions. I conduct regular field inspections of surface coal mines to ensure that mining and reclamation operations are in compliance with approved mining and reclamation plans and current laws, rules, and policies. I serve as the Reclamation Division's geo-hydrologist on mining related matters to ensure that hydrology related decisions are made on scientifically sound and accurate hydrologic and geologic information.

I perform detailed hydrologic analyses of water related complaints received from landowners and prepare technical reports and findings. I prepare cumulative hydrologic impact assessments (CHIA) that analyze the cumulative effects of mining on water resources in the general mining areas and conduct pre-mine application investigations and assessments of stream channels within and near mining permits in determination of alluvial valley floor status. I have developed and continue to upgrade an ArcGIS ground water database of hundreds of ground water monitoring wells at coal mines in North Dakota.

**April 1983 – 2007**

**NORTH DAKOTA PUBLIC SERVICE COMMISSION**  
**Abandoned Mine Lands Division**  
600 East Boulevard Ave., Dept. 408  
Bismarck, North Dakota 58505-04880  
Mr. James R. Deutsch, Director  
Telephone: (701) 328-2251

**Project Manager**

I worked throughout central and western North Dakota supervising all processes involving reclamation of hazardous Abandoned Mine Land (AML) sites beginning as a private contractor to the NDPSC in 1983 and working up to Project Manager in 1991. My position duties involved all aspects of land reclamation functions and operations including project selection, project design, authoring of specifications and environmental assessments, contract procurement, contract execution and project management. Design, procurement, oversight and report writing of many different types of technical and geotechnical studies were also required.

Responsibilities included exploration and production drilling design and assessment of thousands of subsurface borings, groundwater monitor well design, installation and decommissioning, ground water sampling and monitoring, overseeing large-scale earth work and underground pressurized grout remote backfill injection projects. I worked with hazardous abandoned uranium mine reclamation as well as coal outcrop fire suppression projects and all relevant aspects of geology and geohydrology involving AML projects. I used computers with various word processor and spreadsheet applications, GPS, AutoCAD and Surv CADD. I have a proven record of completing difficult projects within scheduled performance periods and under budget allowances.

Other requirements of the position included scheduling and conducting public meetings with affected residents, landowners and governmental officials.

I have given numerous presentations regarding mining reclamation on local, state and national levels. I have authored several technical papers that have been published nationally. North Dakota's AML Division was continually regarded by our Federal oversight agency, the U.S. Dept. of the Interior - Office of Surface Mining, as being one of the best state-operated mine reclamation programs in the nation.

### Professional Training and Development

Since 1994, the following National Technical Training Program and Technical Innovation and Professional Services courses were completed and certifications were received for the following: Underground Mining Technology, Surface and Groundwater, Administration of Reclamation Projects, Introduction to GPS, Historical and Archaeological Resources, CAD Applications for Permitting and Reclamation, AML Design Workshop for Fires, Erosion and Sediment Control, Reclamation Enforcement Procedures, Forensic Hydrologic Investigations, Permitting Hydrology, Quantitative Hydrogeology, Intro to ArcGIS for Mining and Reclamation, Testing and Analysis with Aqtesolv, Permit Findings Workshop, E-Tools for Permitting and Reclamation, Modeling and Analysis with Groundwater Vistas, Wetlands Awareness, Soils and Revegetation, Coalfield Communications, and NEPA Procedures.

### Other Certifications

I received certification for the DOI Federal Information Systems Security Awareness; I've been certified as a Professional Lead Inspector through the ND Health Department and Certified Blaster through the NDPSC. I was previously certified for Level III Procurement through the North Dakota Office of Management and Budget. I've been a long-standing member of the North Dakota Geological Society for several decades.

June 1981 – Sept. 1982:

#### **SCHLUMBERGER ENGINEERING**

Artesia, New Mexico – then transferred to Pauls Valley, Oklahoma after the Artesia shop closed  
James Fowler, New Mexico District Manager  
Telephone: (505) 392-4109  
B.O. Wilson, Oklahoma District Manager  
Telephone: (405) 238-6376

I worked as a Service Engineer for the largest oilfield engineering firm in the world, Schlumberger Limited. I was responsible for the successful operation of Drill Stem Tests (DST) on oil and gas wells throughout Oklahoma and New Mexico. A drill stem test constitutes sending a string of tools downhole and completing a series of proprietary subsurface procedures on oil drilling rigs to confine and measure the productive capacity of oil and gas reservoirs, usually conducted on exploration wildcat drilling rigs. This position required substantial technical knowledge of fluid dynamics, surface containment and monitoring of high volume and high pressure oil and natural gas, along with various surface-testing procedures of these substances, data analysis and reporting. I also attended and completed a 3 month training session in advanced reservoir analysis. Knowledge of geology was a critical component for successfully performing this job.

### Miscellaneous summer/part-time jobs

- **Froeschle Sons, Inc.**, Bismarck, ND - General construction work including form building, concrete work and equipment operator (loaders, forklifts, etc.).
- **Eagle Nest Construction Company**, New Town, ND - I worked throughout North Dakota conducting fiberglass roving, an erosion control reclamation method for newly constructed highway road ditches and critical areas requiring successful revegetation.
- **CEDA, Inc.**, Mandan, ND - I was the operator of a vacuum truck cleaning out bag houses, other coal dust collection systems and sumps at the Dakota Gasification Company plant at Beulah.
- **Burlington Northern Railroad**, Mandan, ND - I worked on a summer Steel Gang repairing and replacing railroad ties and railroad tracks.
- **Weisz and Sons Construction Company**, Mandan, ND - I worked with a crew repairing site locations of U.S. Air Force Minute-Man Missile sites in North Dakota. We also constructed underground waste water collection systems in North Dakota and South Dakota.
- **Sunset Exxon**, Mandan, ND – I worked for two summers pumping gas, doing oil changes, tire repair and replacement, tune-ups, and other miscellaneous mechanical work.