

Top-of-the-Line Drilling Equipment to Better Serve the Client

The geotechnical engineer utilizes specialized equipment to drill into the earth and extract soil samples at specific depths. Burns Cooley Dennis (BCD) has an array of drilling equipment operated and maintained by four crews.



One of BCD's Failing 1500 drill rigs

BCD's drilling equipment includes:

- Four Failing 1500 truck-mounted rotary drill rigs
- Buggy-mounted Ardco C-1000 rotary drill rig and an Ardco "K" water buggy transported on a lowboy trailer
- Buggy-mounted Mobile ATV B-33 hollow-stem auger drill rig transported by a diesel truck
- Mobile B-47 hollow-stem auger drill rig mounted on a diesel truck
- Mobile B-31 hollow-stem auger drill rig mounted on a diesel truck
- Support vehicles including four water trucks and six 4-wheel drive pickups



All of our Failing 1500's are used for deep-hole drilling and sampling on sites accessible to truck-mounted equipment. One of the Failing 1500's is mounted on a truck with oversized floatation tires and is used to access difficult sites. Our Ardco C-1000 drill rig is used for deep-hole drilling and sampling on sites which are not accessible to most truck-mounted rigs. Our Mobile ATV B-33 is utilized for shallow-hole drilling projects including roadway centerline profiles, sewer and water lines, etc., and is very mobile on cross-country projects. The B-47 and B-31 rigs are typically used for shallow-hole drilling projects such as roadways, buildings, etc. All of our drill rigs are equipped for both undisturbed Shelby tube and split-spoon sampling.



BCD's Mobile B-31 drill rig (Memphis Office)

Field investigation services provided by BCD include:

- Undisturbed Shelby tube and split-spoon sampling
- Auger drilling and disturbed soil sampling
- Fixed piston tube sampling
- Denison barrel sampling

HIGHLIGHTED IN THIS ISSUE

Drilling Equipment

New Employees

**Bet you didn't
know . . .**

George E. Failing
Company

A Note from . . .

David Dennis

Office Locations

Corporate

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- Rock coring
- Installation of piezometers
- Installation of slope inclinometer casings
- Field Instrumentation
- Field vane shear testing
- Sampling for environmental investigations

BCD's drill crews are permanent employees who are trained and experienced in all phases of subsurface exploration work. Our drill crews have considerable experience in both land-based and barge drilling, various soil and rock sampling techniques, the installation of geotechnical instrumentation, the performance of field vane shear tests and environmental drilling. Our drilling personnel take pride in maintaining their equipment in top operating condition. Each crew operates under the direction of an experienced geotechnical engineering technician who works closely with the project geotechnical engineer in organizing and conducting each investigation. We have personnel trained in OSHA 40-hour hazardous materials operations.



BCD's Mobile B-47 drill rig (Hattiesburg office)

Richard L. Curtis, P.E.

Richard L. Curtis, P.E. has joined Burns Cooley Dennis, Inc. as a senior geotechnical engineer. Curtis has over 25 years experience in the geotechnical engineering profession. His advanced education includes a master's degree in civil engineering from Georgia Institute of Technology. Prior to joining Burns Cooley Dennis, Inc, he served as principal engineer for regional and national consulting engineering firms based in Atlanta, Ga.



Jaideep Chatterjee, Ph.D.

Dr. Jaideep Chatterjee has joined Burns Cooley Dennis, Inc. as a geotechnical engineer. His advanced education includes a master's degree and a doctor of philosophy (Ph.D.) degree in civil engineering from State University of New York at Buffalo.



Bet you didn't know

George E. Failing Company

George E. Failing's portable drill trucks revolutionized drilling. He started his company in 1931 when he mated a drill rig to a 1927 Ford farm truck and a power take-off assembly. The same engine that drove the sturdy truck across the oilfields was used to power its rotary drill. A traditional steam powered rotary rig took about a week to set up to drill a 50-foot well. George Failing could drill ten 50-foot holes in a single day.



**A Note from . . .
David Dennis**

Accurate boring information is very critical for evaluating subsurface soil and groundwater conditions and the impact of those conditions upon earthwork, foundations, pavements, etc., At BCD we have always placed great emphasis upon providing quality drilling and sampling services.



HAPPY THANKSGIVING TO ALL!

