

20" Random Rock 5 Cone Hole Opener Performance Update

- Location:** Tuscaloosa, Alabama
- Operator:** US HDD contractor
- Drill:** Vermeer D150X300
- Challenge:** 2800 Foot Crossing
Black Warrior River
Gas Transmission Line
- Geology:** Hard Shale, Sandstone
8 to 12K psi comp.
strength



Features/Benefits:

1. Patented Random[™] cutting structure provides more effective use of applied weight.
2. Specifically designed for the toughest drilling conditions. One cone style for any position.
3. Compensated Lubrication System
4. Unique locating system provides truer cutter positioning
5. Improved wall clearance for reduced shirrtail wear
6. Improved shirrtail protection – Hardfacing and TCI Inserts
7. 5 cone reamer ensures SMOOTH running in difficult drilling conditions

Result:

- **Successfully reamed the entire crossing in a single pass.**
- **Total of 69.26 Hours for a Penetration Rate of 40+ ft/hr.**
- **Cutting structure is virtually untouched and the bearings are in excellent condition! The Reamer will be used on another job.**
- **Estimated to have saved the contractor at least two days in reaming.**