

# Reliability at its best.

## A rugged reel for borehole inspection.

Allegheny Instruments, Inc. produces GeoVISION™ borehole camera systems to inspect water wells, oil wells, mines, and caves. They serve customers all over the world in all different kinds of industries from the armed forces and federal governments to the petroleum industry. These systems are also used to investigate the stratigraphy of an area when building a dam, bridge, or skyscraper. The camera and accompanying instrumentation must be able to withstand high pressures and harsh conditions, as cameras can be deployed thousands of feet underwater.

One of the main components of a borehole camera system is the cable reel that must manage long lengths of extra strength cable. Allegheny Instruments uses Hannay Reels to provide the solutions to meet their needs.

Hannay Reels is the leading manufacturer of durable hose and cable reels for both OEM and aftermarket applications, offering thousands of standard models along with a wide range of custom design capabilities. Superior manufacturing processes, consistent quality, excellent customer service, and unmatched value provide customers in a variety of industries with high-quality reels built to last. This formula has solidified Hannay's reputation for helping companies around the world improve the productivity, efficiency, and safety of their operations since 1933.

"We needed something that was extremely rugged, yet very reliable," explained Cotten Brown, President of Allegheny Instruments.

"Since the systems are often used in mines, on construction sites, and in various other hazardous environments, the reel as well as the system needed to be able to handle the harsh conditions that often come with working in these areas."

Brown further explained that the company was looking for a very robust, clean set of slip rings on the inside of the reel. "We wanted it to be durable so we also needed ball bearings in the hub of the reel that could handle the abuse," said Brown.

Allegheny Instruments uses Hannay's portable cable reel constructed with rugged aluminum and steel. It is specifically designed to easily and safely manage cable where long lengths are payed out over a large area. This lightweight, versatile reel is easy to transport and is equipped with a crank handle permanently attached to the disc and a cam-lock drag device to brake the reel.

Over the years, Allegheny Instruments never strayed from Hannay Reels because of the solid relationship they have together. "I'm a very strong believer in long-term relationships and Hannay has always been extremely accommodating whenever we needed a change or a new design approach."

Allegheny Instruments occasionally specifies small modifications to the reel's design to make it better suited to meet their needs. "Usually we make minor changes to things like hubs or spindles," explained Brown. "For example, when the spindle at the center of the reel was too long, it started to interfere with other components so we called Hannay to address the issue. They very quickly changed the drawings and produced a model that worked. It was a minimal amount of effort that ended up making a significant difference in the long run."

Brown also discussed that feeling confident in their products is very important and, with Hannay, they never have to worry about malfunctions. "Often our customers are working on a timeline that has to be followed exactly," Brown said. "If they experience a failure in equipment it can cost a great deal down the road for every hour or day they're unable to work. With Hannay reels, we can ensure that our customers receive a reliable product that's guaranteed to perform."



The camera and accompanying instrumentation must be able to withstand high pressures and harsh conditions, as cameras can be deployed thousands of feet below ground.

### Customer

Allegheny Instruments Inc.

### Location

Williamsville, Virginia

### Customer Challenge

Portable, yet durable cable reel to manage extremely long lengths of heavy cable

### Hannay Solution

C16-10-11 portable cable reel

*"Hannay has always been extremely accommodating whenever we needed a change or a new design approach."*

- Cotten Brown,  
President, Allegheny Instruments

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