

Project Impactor: On Location

HDD Pipe Bursting in Granite, Oklahoma



Impactor Performance: 1380' In Two Pulls

The town of Granite, Oklahoma knows about rocks: the typical soil condition is broken granite and heavy cobble. They also knew that they needed to replace 1385 feet of VCP sewer main and they didn't want their town dug up.

The city contracted Shoestring Enterprises, a directional drill outfit out of Olustee, Oklahoma, to replace the line. The initial plan was to use the directional drill to install a new line. But the difficult soil conditions and adjacent utilities made completing a bore, reaming and pulling in new pipe virtually impossible.

Tim Keevert of Vermeer Oklahoma City had been in contact with Shoestring Enterprises and introduced them to the HammerHead Air Impactor and discussed the advantages of the HDD pipe bursting system. Shoestring Enterprises decided that the Air Impactor could be the solution to their problem. They set up a demonstration with the city to show them that the Impactor would work.

Several representatives from municipalities and engineering firms from the surrounding area were invited to attend the demonstration.

The first pull was 515 feet, replacing 8" VCP with 8" HDPE SDR17. The pull took 73 minutes and the average production rate was more than 7 feet per minute.

The second pull was 865' with almost half of the pipe being upsized from 6" to 8". This pull was completed in 3 ½ hours.

The bottom line; Shoestring Enterprises with a HammerHead Air Impactor is a rock solid way to replace sewer mains.

Project Details

Contractors	Shoestring Enterprises, LLC
Date	June 4 - 6, 2002
Project	Sewer replacement in Granite, Oklahoma
Specifications	1,015 feet of 8" VCP replaced with 8" HDPE and 365 feet of 6" VCP replaced with 8" HDPE
Equipment	8" Air Impactor™ and Vermeer® Navigator® D33x44 Horizontal Directional Drill
Production Rate	1st pull: 515' - averaged 7' per minute 2nd pull: 865' - averaged 4' per minute (500': 8" VCP to 8" HDPE, 365': 6" VCP to 8" HDPE)



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Left: 865' burst begins. Top right: Shoestring crew watches as first 515' is pulled into place. Bottom right: Exiting first 515' burst.



HammerHead Product Support

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