Gas Distribution Network solves historic water ingress problem using Synthotech's latest Water Extraction System for live gas mains.

The facts

- 4" main in residential area, one property repeatedly going off gas due to water being drawn up through the service.
- 88 repeat visits by Gas Distribution Network since 2013, to remove water from syphon point.
- Syphon point only collecting water from low point, hence cause & location of leak not identified.
- New Synthotech Water Extraction System removed water along the main (not just the syphon point), then correctly identified cause & location of leakage.
- Estimated savings over £10,000.
- Works carried out in December 2015.

The Water Extraction System solution

- Access to the main via standard drilling system, under live gas conditions.
- System surveyed the along main, removing water throughout & then discovered signs of fracture towards the bottom of the main.
- Once all water removed, the main was left overnight.
- Subsequent survey next day confirmed water ingress via fracture on lower part of the main. Clip fitted and no further issues reported (Jan 2016).

The detail

- The key to success was being able to continuously extract water whilst carrying out the CCTV survey, all under live gas conditions.
- The combination of removing water from localised areas enabled the CCTV to identify potential cause of water ingress.
- The fracture was below the level of water, hence localised water extraction essential to find the cause of ingress.





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