



Industry  
MIDSTREAM OIL & GAS

### CHALLENGE:

The Need for Rapid, Temporary Gas Leak Detection for Personnel Protection

Unexpected soil erosion exposed a section of a critical transport pipeline. This event necessitated immediate and continuous monitoring for potential leaks, specifically of Hydrogen Sulfide (H<sub>2</sub>S) for the protection of the workers. As a temporary worksite in a remote location, deploying traditional wired monitoring solutions would have introduced significant delays due to the time required for conduit installation. This delay could have hampered the timely assessment of the pipeline's integrity and the implementation of necessary repairs. The priority was to quickly establish a reliable monitoring system around the exposed section so that workers could be forewarned before entering the worksite.

# Case Study: Temporary Worksite Monitoring



VANGUARD WirelessHART  
FIXED POINT GAS DETECTOR



### SOLUTION:

Expedited Deployment of Wireless Monitoring Technology

The Maintenance Measurement and Automation Coordinator recognized the deployment flexibility of the Vanguard WirelessHART® gas detector for this application. The true wireless operation offered the crucial advantage of significantly accelerated deployment. By eliminating the need for physical wiring, the Vanguard system could be deployed as and when or where needed along the pipeline. More importantly, this solution provided another layer of protection to the portable detectors that the workers carry because the temporary work site's condition can now be quickly evaluated every time before the workers enter it. This rapid deployment ensured continuous insight into the pipeline's integrity while the permanent solution was implemented.



Cost and time savings from  
not running conduit



Rapid Deployment installed  
in days, not months