



**Apache**  
PIPELINE PRODUCTS

## Using the GeoEAR



The CDI GeoEAR is very simple to use. It works by amplifying the sounds produced by pigs moving through pipelines and presenting them to a listener through either the headphones, built-in speaker, or both simultaneously.

Different kinds of pigs produce different, distinctive sounds to listen for. Polyurethane cup pigs for example, produce a unique sound as the cups thump against the pipeline welds.

The noise produced by pipeline pigs is carried by the steel of the pipeline, not the soil. For this reason sound reception by the GeoEAR is improved as the geophone probe is placed closer to the pipeline. However placing the geophone probe in direct contact with the pipeline is not always wise, as it may often receive sounds from so far away that it can be difficult to tell whether the pig is moving toward or away from you.

Inserting the geophone probe into the soil one to five feet from the pipeline is recommended. You should practice with local soil densities, pipeline and pig types to achieve your desired results.

Because the GeoEAR is extremely sensitive it receives many sounds in the local environment. In noisy areas such as refineries, pumping stations, highways, etc. you may not be able to hear your pig until it is passing very close to the geophone probe. It will take some experimentation to determine when your surroundings are "too noisy" for a pig to be heard.

Power for the GeoEAR is provided by four D-cell batteries. Using the supplied adapter the GeoEAR can also be powered from a 12VDC vehicle's cigarette lighter or auxiliary power port.

CDI develops rugged, dependable, and easy to use products for locating and tracking pipeline pigs. We currently have a variety of surface and subsea pipeline pig location and tracking systems. If you need portable or permanent installation equipment for locating, tracking, or passage indication, please call us.



## The GeoEAR Kit



## The GeoEAR Control Panel

