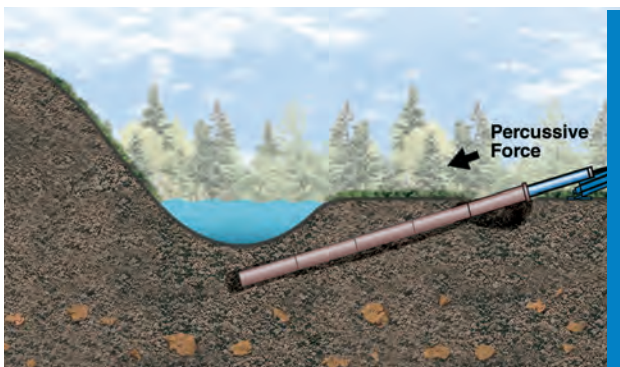


FOR DIRECTIONAL DRILLING ASSIST

USING PERCUSSIVE POWER TO FREE STUCK BORES

CONDUCTOR BARREL™

A sure start for your bore even in the worst soil.

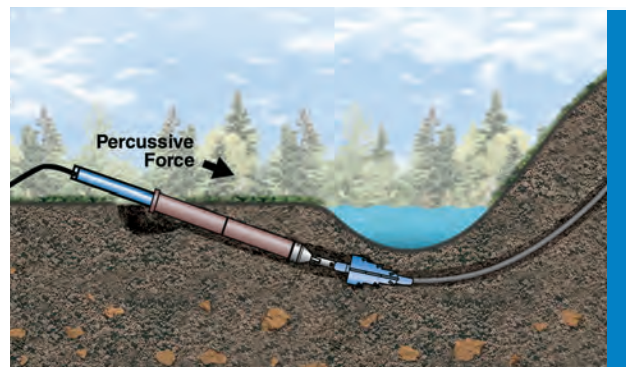


- Ram casings through difficult soil conditions to more desirable drill starting points.
- Guide down-hole or mud motors to rocky soils through the conductor barrel.
- Provides friction free section for product pullback.



PULLBACK ASSIST

Overcome hydrolock with a pipe rammer.



- Rammer attached to product pipe during pullback.
- Percussive action keeps pipe moving and helps prevent high levels of pullback stress.
- Percussive power frees immobilized product pipes.



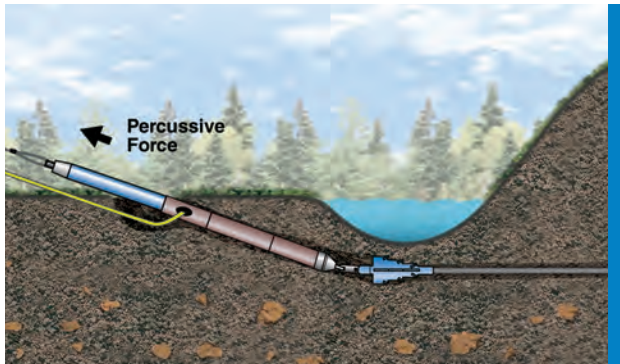
PIPE RAMMING METHODS

FOR DIRECTIONAL DRILLING ASSIST

USING PERCUSSIVE POWER TO FREE STUCK BORES

PIPE REMOVAL

Remove stuck product pipe and bore again.

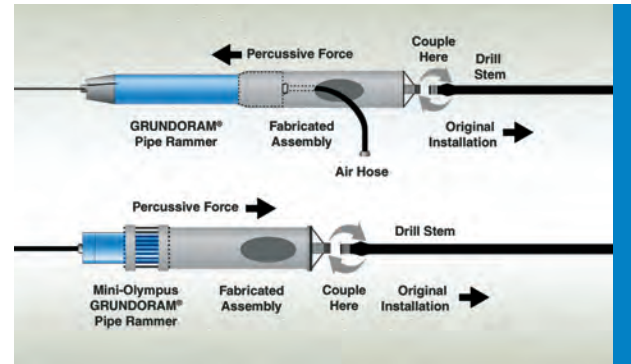


- Rammer attached to product pipe after pullback fails.
- Percussive action pulls product pipe, removing it from the bore.
- Salvage the job and bore again.



DRILL STEM RECOVERY

Retrieve Stuck Drill Stems.



- Pipe Rammer fitted with a special sleeve.
- Stuck drill stem welded to the back of the rammer sleeve.
- Percussive power frees drill stem, saving time and money.



 **TT TECHNOLOGIES**

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