

# USGasTech Inc

Providing gas-related technologies to the American Gas Industry

## RAMSES

Software for calculating stresses on a transmission pipeline

# USGasTech Inc

Providing gas-related technologies to the American Gas Industry

## ➤ Description

The software contains three units. Each one allows stress calculations for a pipeline in situations often found under operating conditions:

- ✓ **ABAISS:** this unit determines the profile of an excavation and the number of necessary stages to lower a live pipe.
- ✓ **ERIC:** this unit calculates the stress on a pipe when a large additional weight, such as a dirt pad, is to be placed above, for example when building a highway.
- ✓ **DIMDALLE:** This unit determines if it is necessary to put a protection slab to protect the pipe when a point load is applied to the ground above the pipe, especially a moving load.

## ➤ Advantages

- ✓ ABAISS allows operating costs savings, as it proposes a simple method to safely lower a live pipe.
- ✓ ERIC and DIMDALLE enhance the utility lines' safety.
- ✓ The three units are easy to use: they are user-friendly, default values are systematically suggested for several parameters (ground parameters).
- ✓ The results are given within a few seconds.
- ✓ The software is available for Windows 95/98/NT.
- ✓ It is also possible to get the results on Excel.

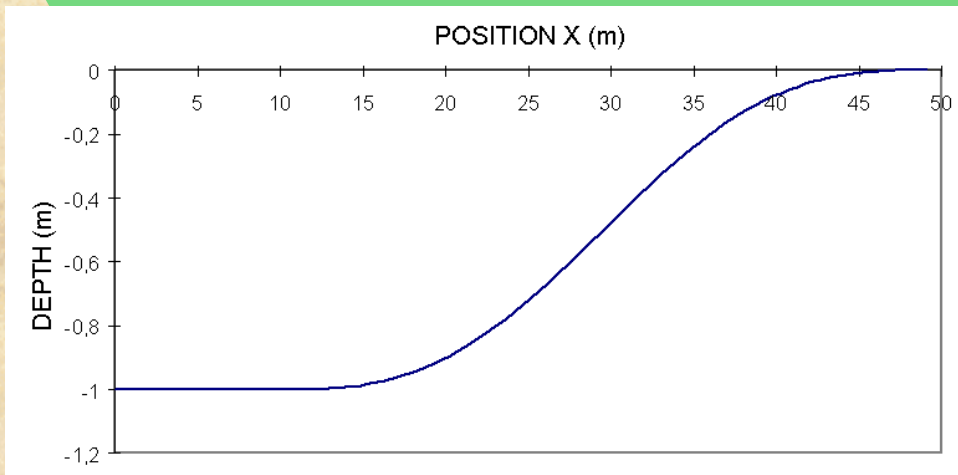
# USGasTech Inc

Providing gas-related technologies to the American Gas Industry

## ➤ ABAISS

The results are given in graphic form.

The figure below gives an example of half a profile.



## ➤ DIMDALLE

DIMDALLE allows the user to know the stresses on a pipe, whether or not there is a protection slab. Thus, the user can compare and determine the preferred solution.

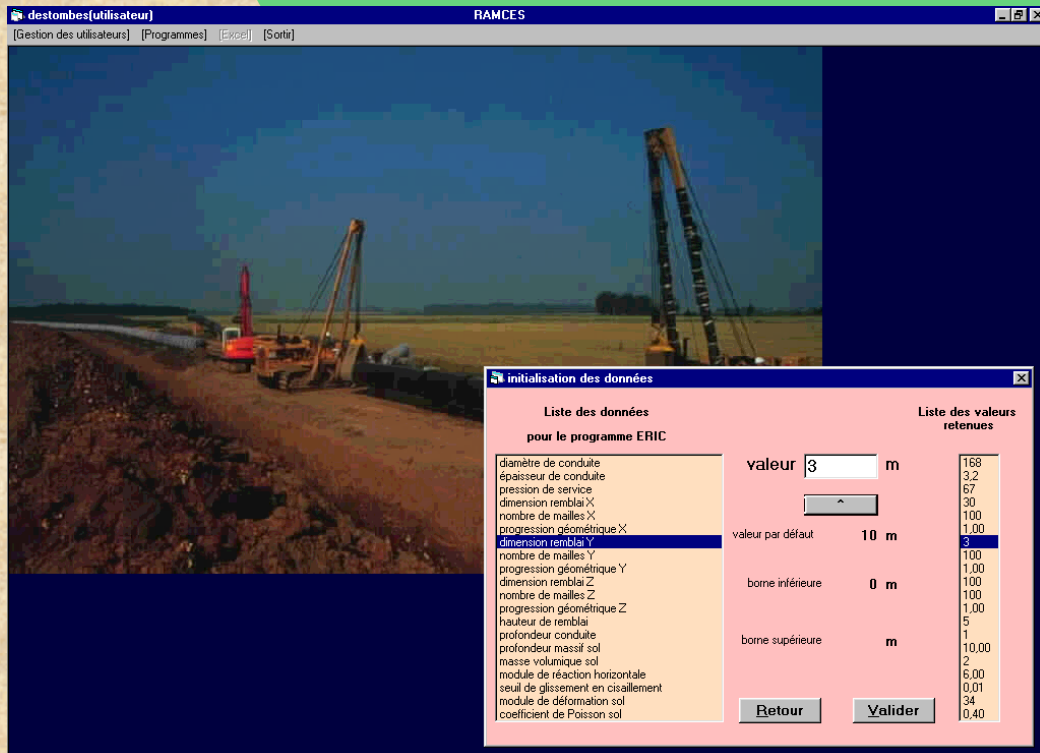
# USGasTech Inc

Providing gas-related technologies to the American Gas Industry

## ➤ ERIC

The user provides the following information:

- ✓ the geometric characteristics and the working pressure of the pipe
- ✓ the geometric characteristics of the pad
- ✓ the ground characteristics (density, modulus of deformation, Poisson's ratio)
- ✓ The characteristics of the ground/pipe interaction (yield point, etc.)
- ✓ The optional choices and the data input use several pull-down menus. Default values are suggested for each parameter.



With ERIC, the user can get the results in Excel graphics form for 4 types of stresses.