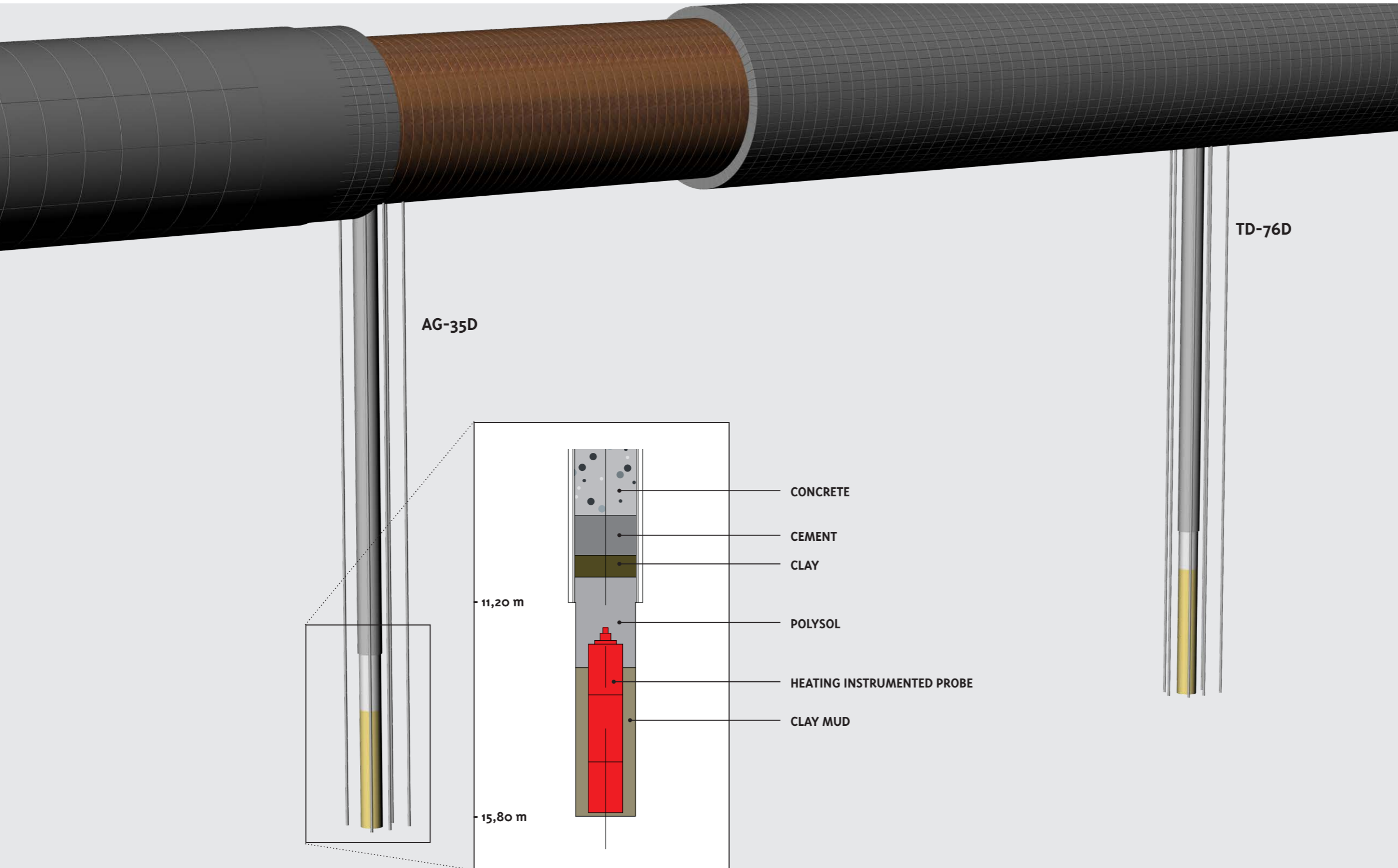


CACTUS I

1989 - 1993

ChAracterization of Clay under Thermal loading in Underground Storage



GOAL

Study of the thermo-hydro-mechanical behaviour of clay in the near field of a heating source, simulating the thermal release of 50 years aged COGEMA vitrified high level waste.

December 1989 - May 1990
Installation of the instrumented boreholes
Drilling of the central borehole AG-35D
Installation of the heater

September - November 1990
1st heating phase

March 1991 - January 1992
2nd heating phase

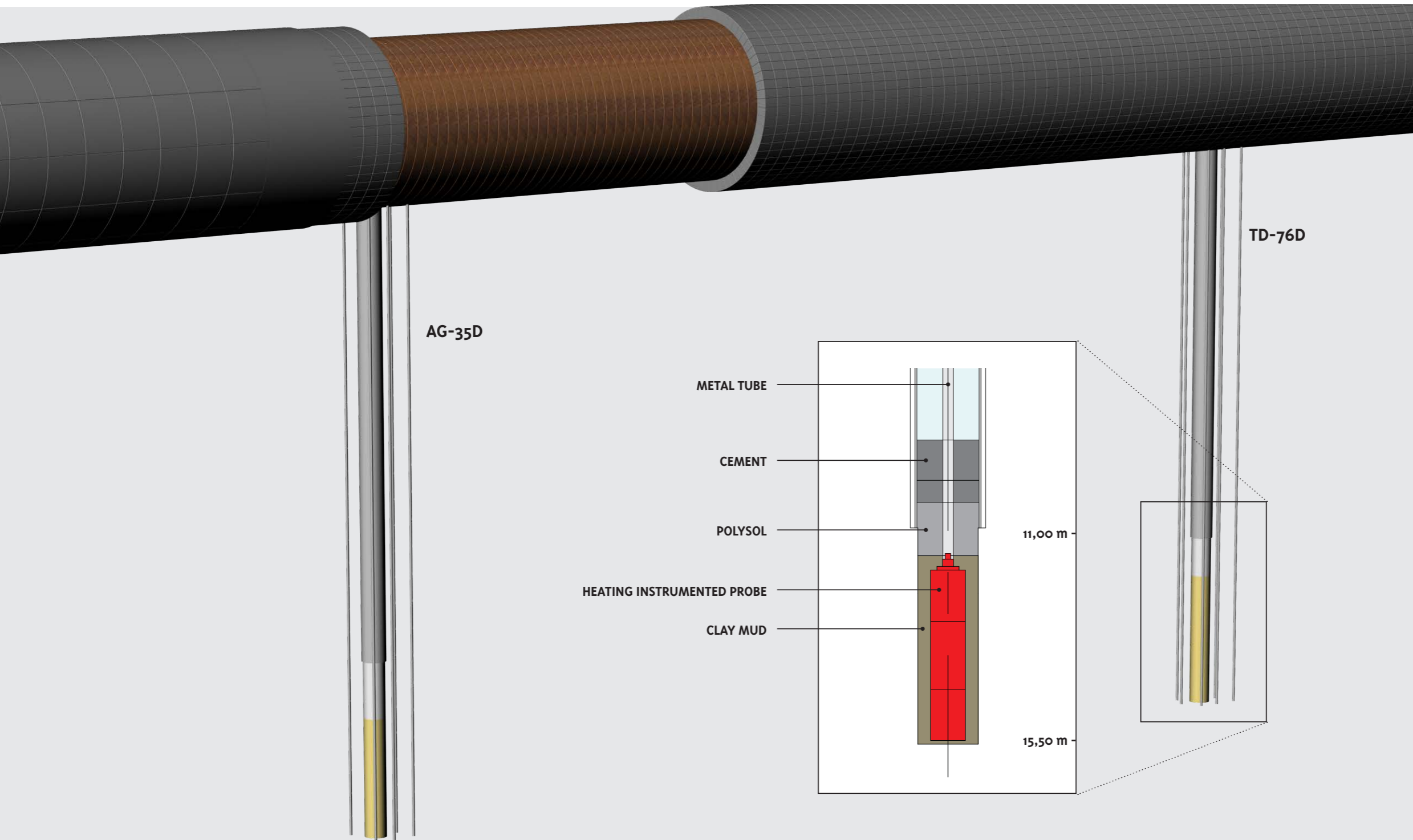
THE CENTRAL BOREHOLE WITH HEATER IS SURROUNDED BY SIX INSTRUMENTED BOREHOLES TO MONITOR THE THERMO-HYDRO-MECHANICAL BEHAVIOUR OF THE BOOM CLAY BY MEASURING TEMPERATURE, WATER PRESSURE, TOTAL STRESS, WATER CONTENT AND DISPLACEMENTS



CACTUS II

1990 - 1994

Characterization of Clay under Thermal loading in Underground Storage



GOAL

Study of the thermo-hydro-mechanical behaviour of clay in the near field of a heating source, simulating the thermal release of 50 years aged COGEMA vitrified high level waste.

February - July 1990

Installation of the instrumented boreholes

December 1991

Drilling of the central borehole TD-76D
Installation of the heater

February 1992 - March 1993

Heating phase

THE CENTRAL BOREHOLE WITH HEATER IS SURROUNDED BY SIX INSTRUMENTED BOREHOLES TO MONITOR THE THERMO-HYDRO-MECHANICAL BEHAVIOUR OF THE BOOM CLAY BY MEASURING TEMPERATURE, WATER PRESSURE, TOTAL STRESS, WATER CONTENT AND DISPLACEMENTS

