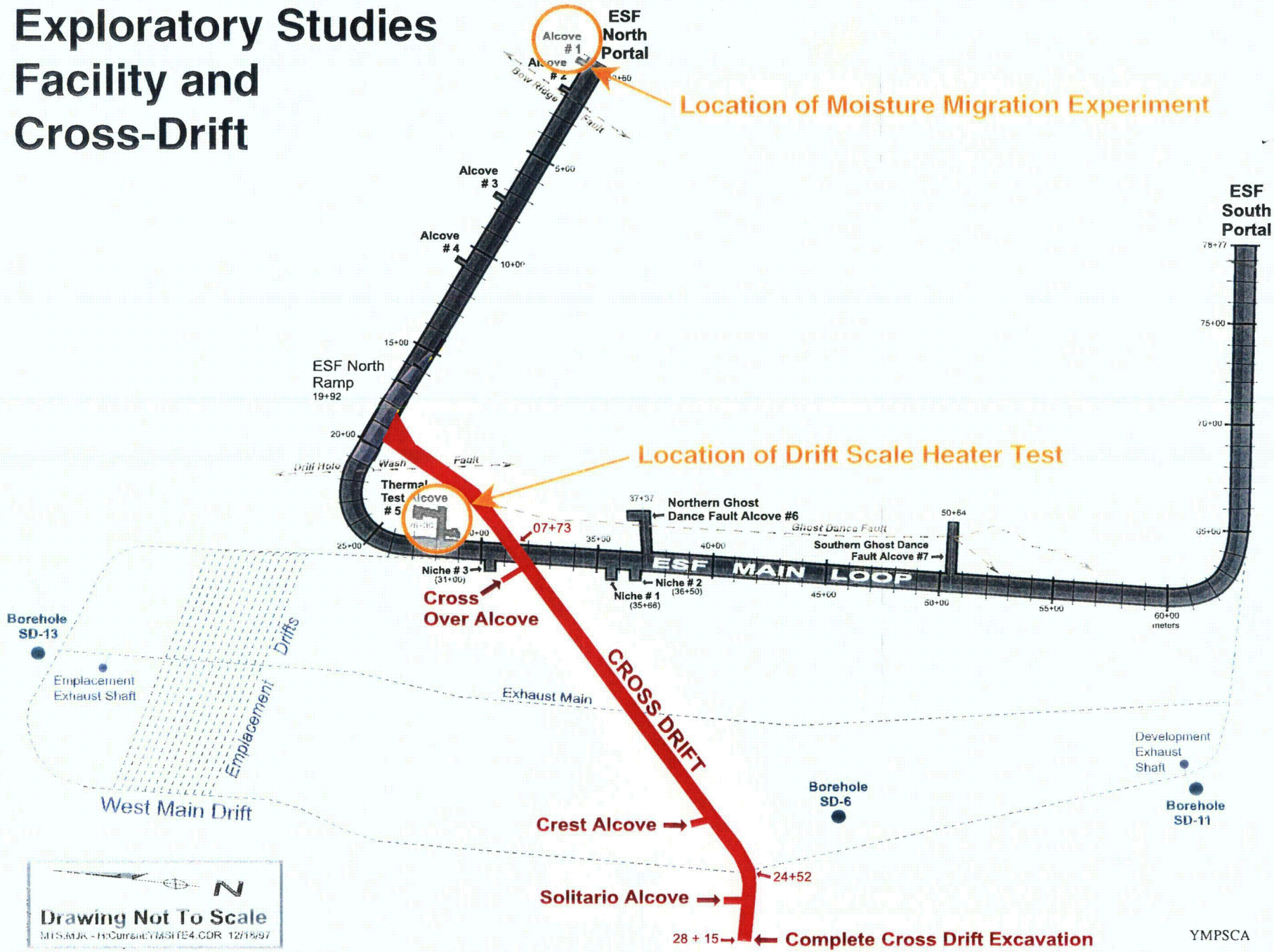
Exploratory Studies Facility and Cross-Drift



The TBM entering the launch chamber in preparation for constructing the cross-drift (2,681 total meters excavated)

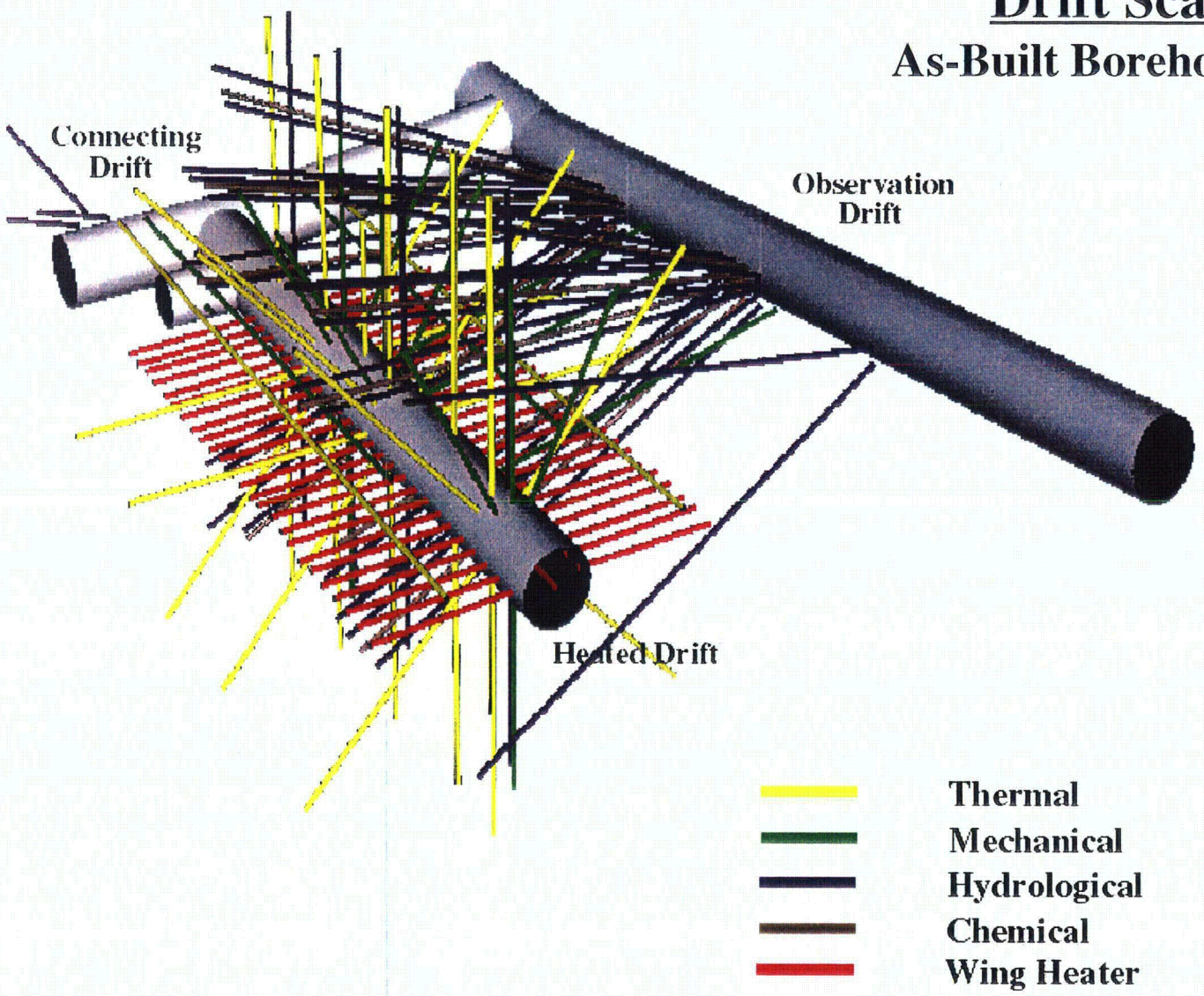
View of the cross-drift entrance from the main tunnel of the ESF

Infiltration and percolation studies being conducted by the USGS in Alcove 1. This slide shows water being infiltrated on top of Exile Hill.

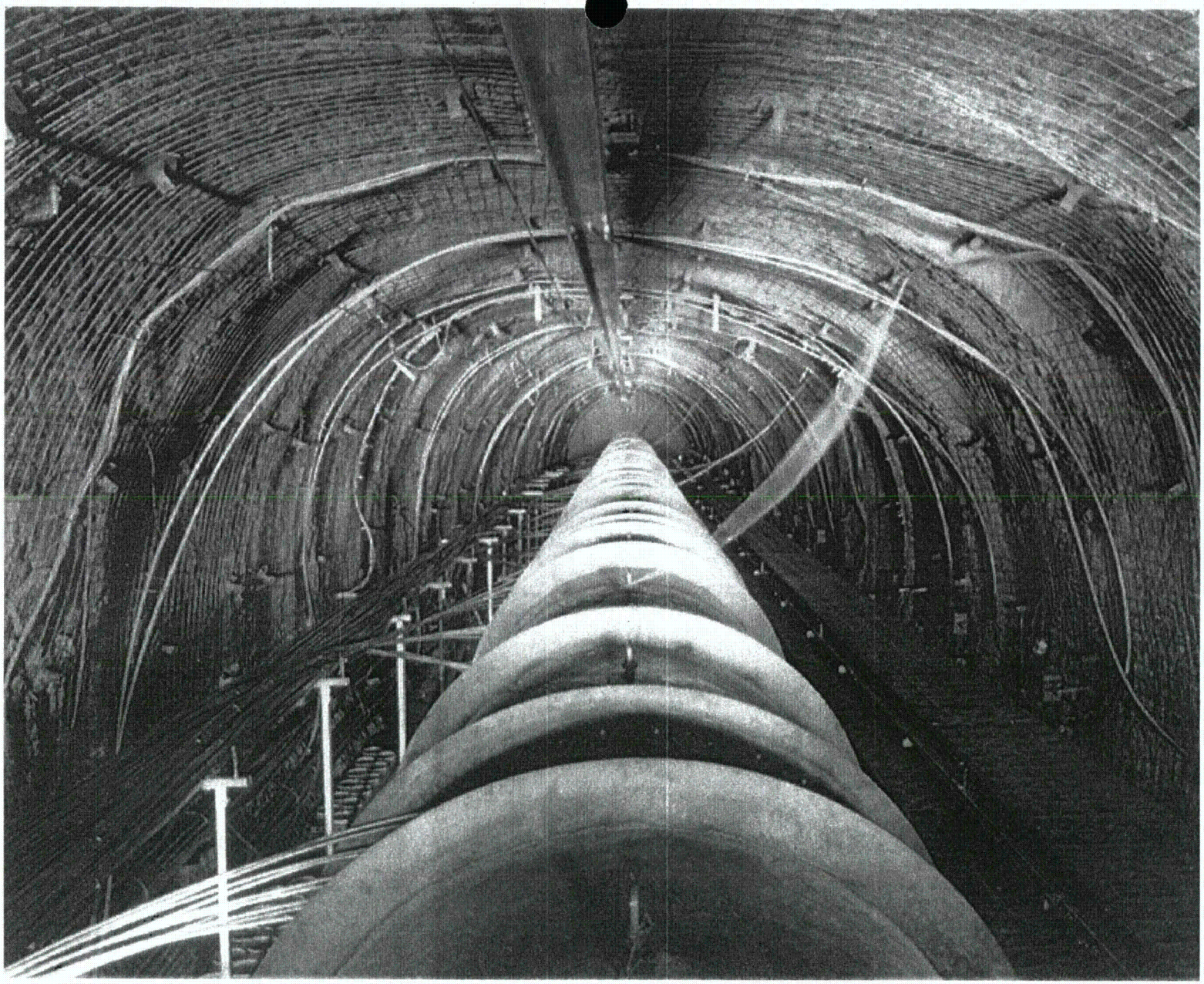
Collection trays installed on the roof of Alcove 1 to collect the water being released on top of Exile Hill.

Drift Scale Test

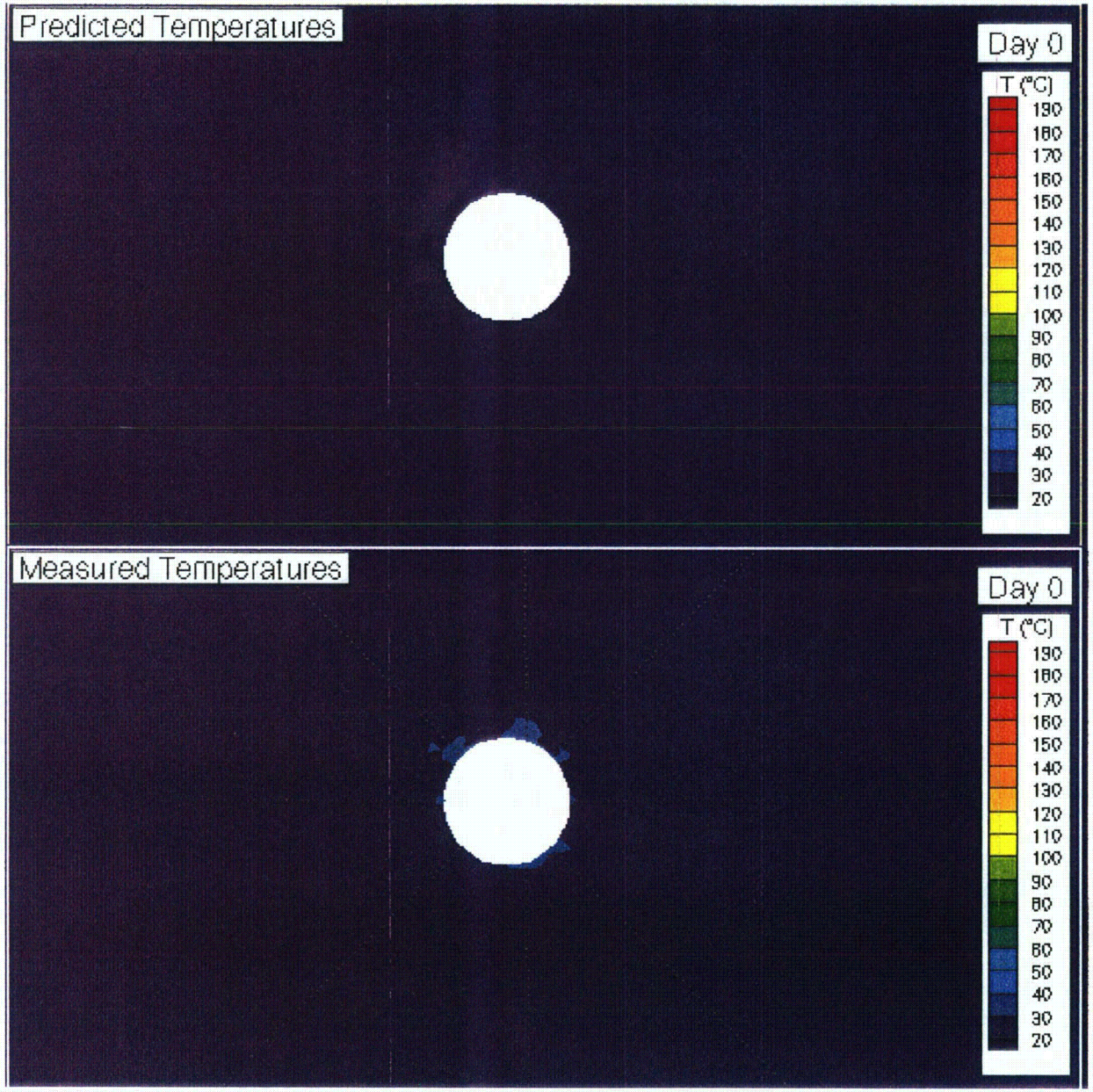
As-Built Borehole Perspective



The configuration of the Drift Scale Test including the many instrument and heater holes. There are approximately 150 holes and some 3500 sensors of various types.



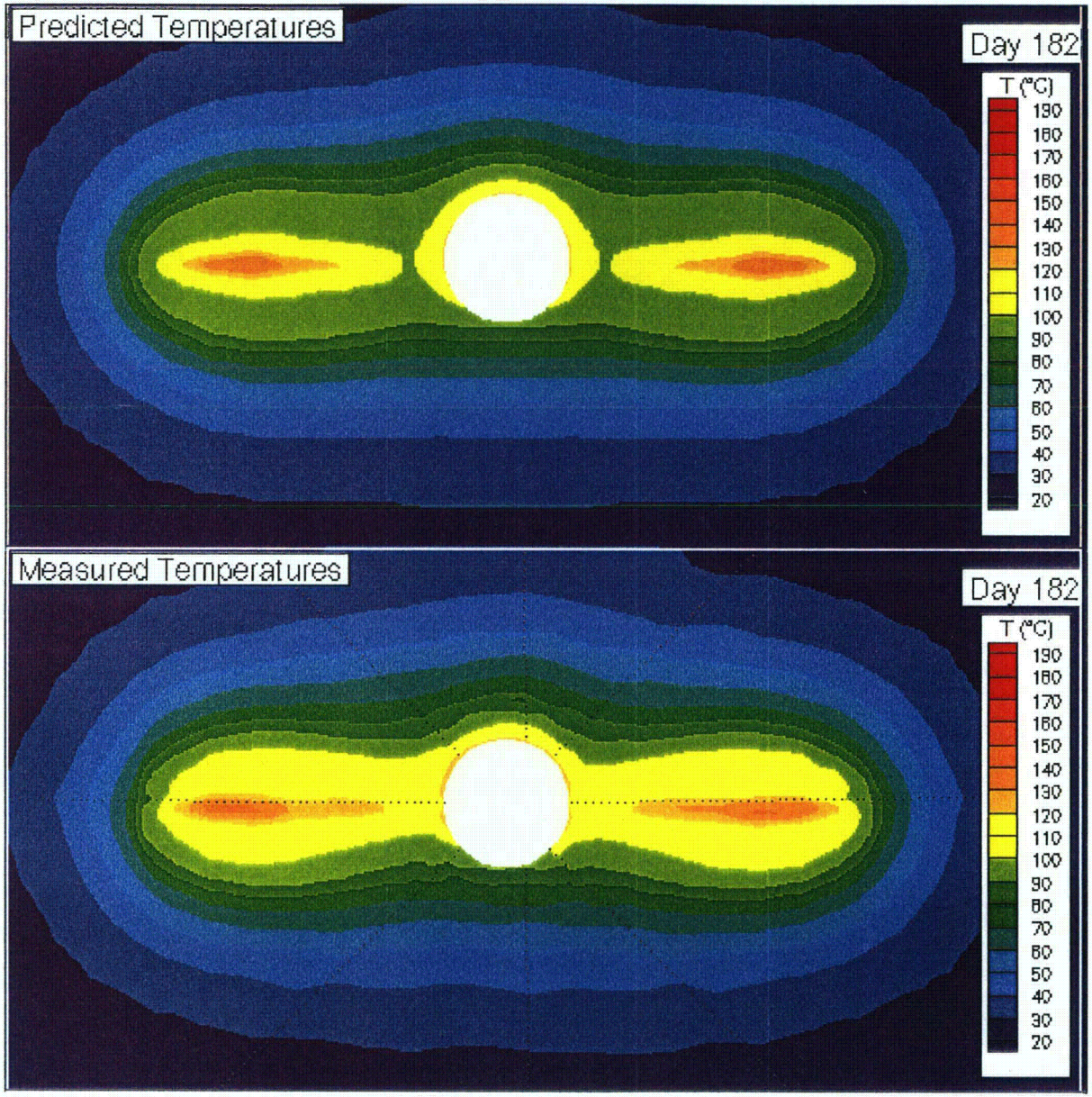
View of Canister #1 in the Heated Drift. The Drift Scale Test was initiated on December 2, 1997 and is planned to run for up to eight years.



Predicted

Measured

Screen captures of an animation of both the predicted and measured temperatures with the days since start of heating, at a cross-section transverse to the Heated Drift at about its mid-length.



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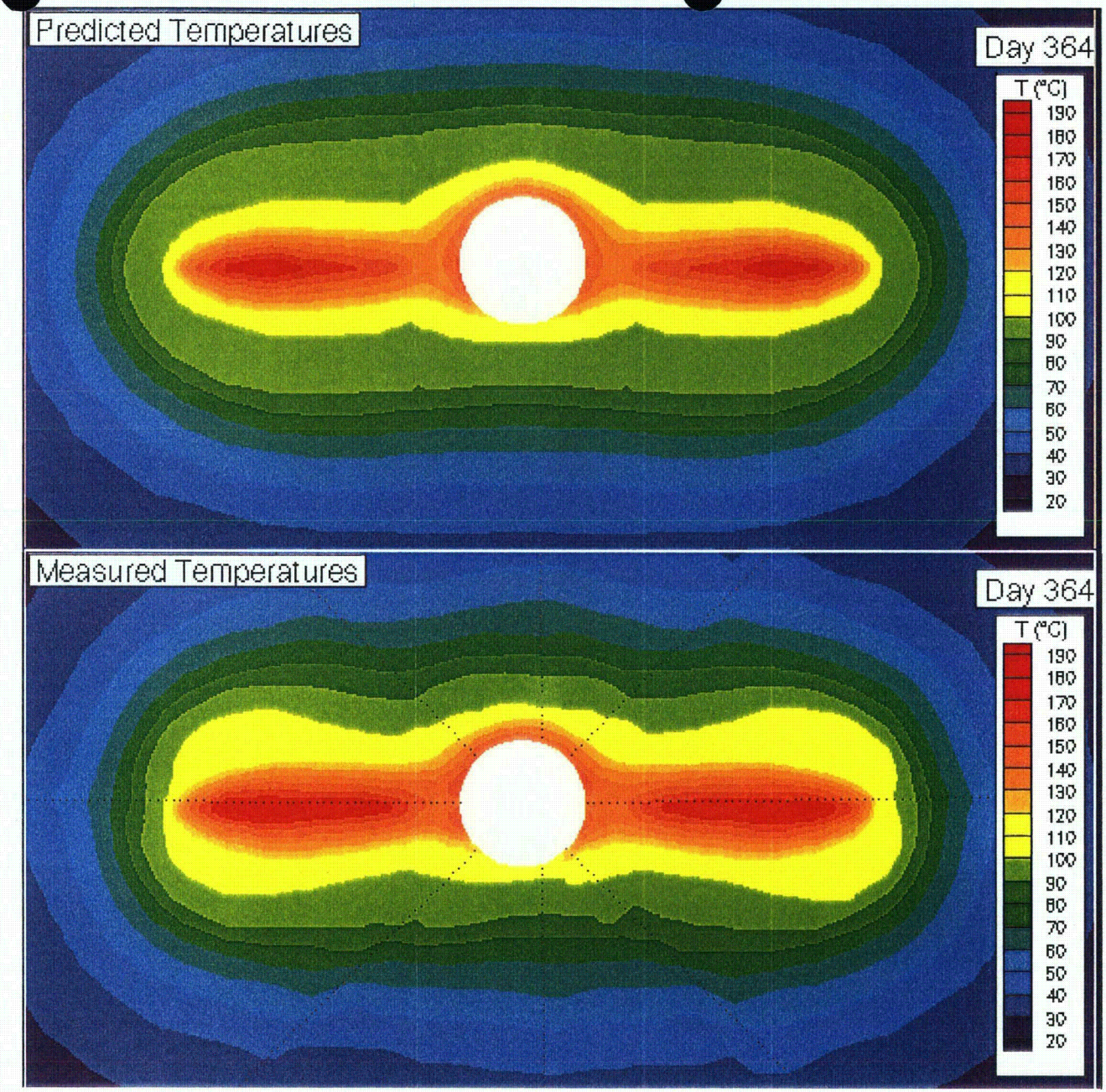

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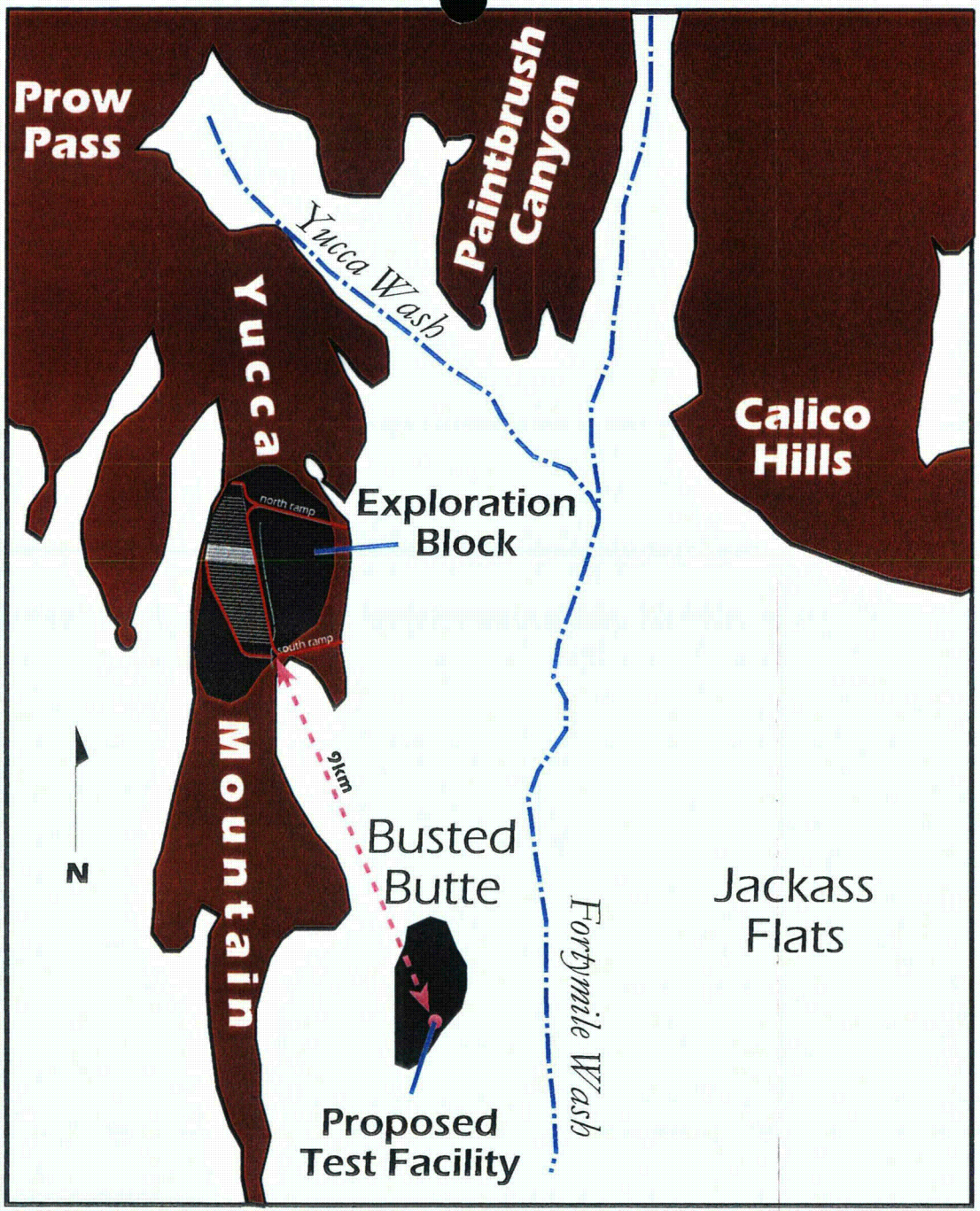
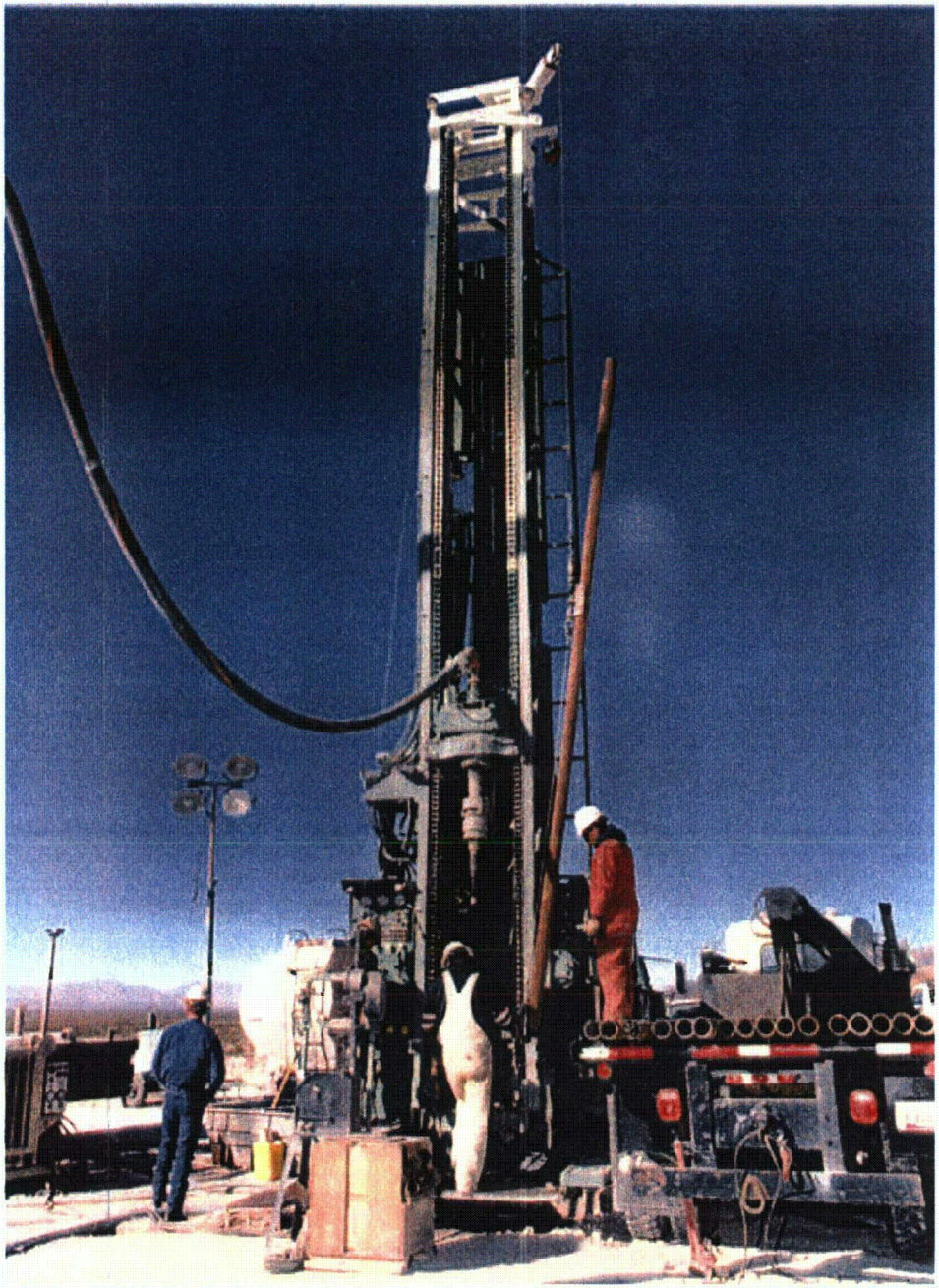


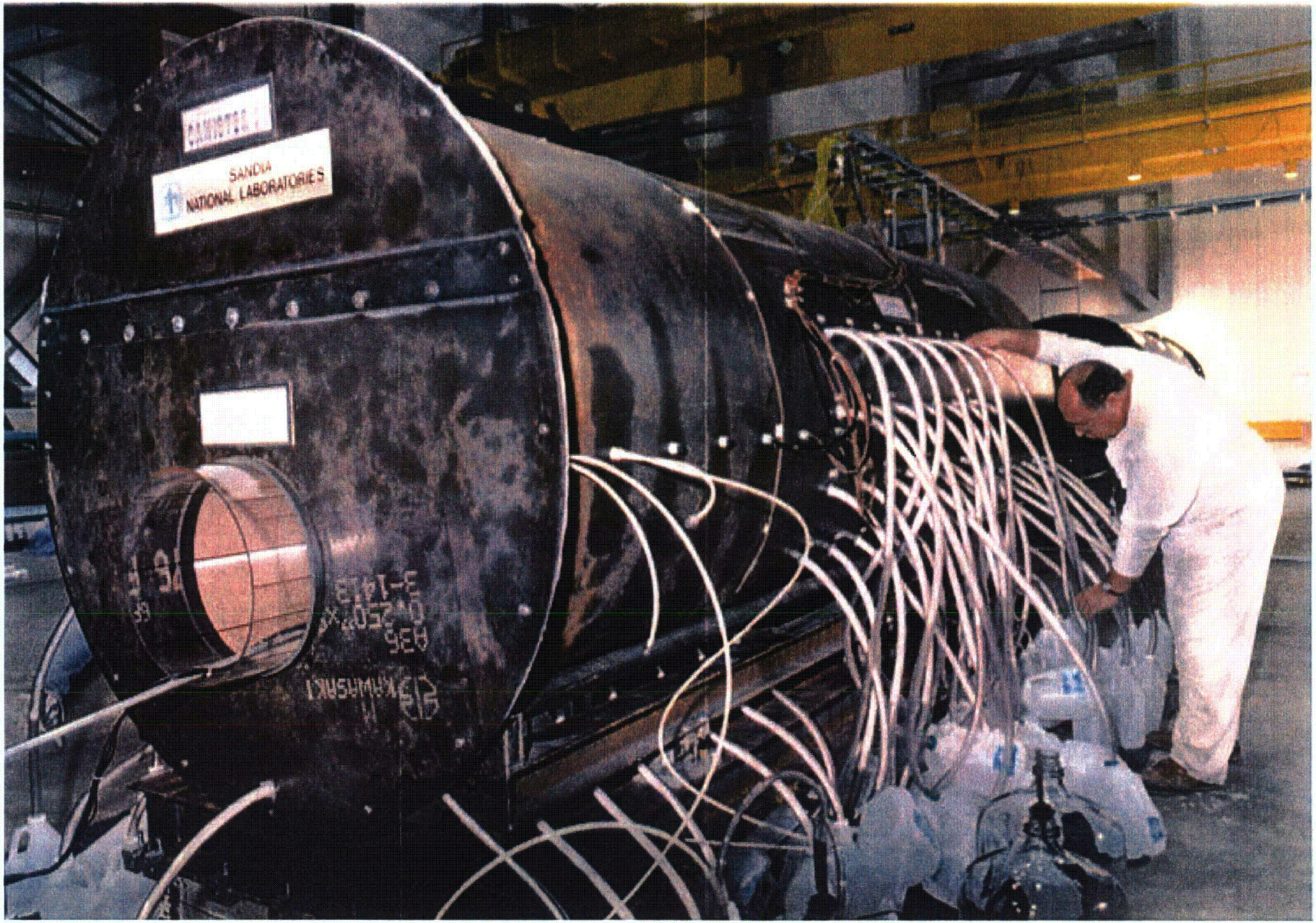
Map showing location of Busted Butte Test Facility

Final excavation of the test bed for the Unsaturated Zone Transport Test at Busted Butte.

The collection of traced solution used during injection in the Unsaturated Zone Transport Test at Busted Butte. The tracer is a Flourescein Disodium Salt.



Typical drilling operations for the Nye County drilling program



Testing performed for the Engineered Barrier Systems program.
Steel canister used to simulate an emplacement drift at 1/4 scale.