

Name 1	CRAELIUS XC 42 DRILLING SET
Name 2	/
ID number	002.160.Idrija
Manager / Administrator	Idrija Mercury Heritage Management Centre, Bazoviška 2, SI-5280 Idrija
Ownership	Public
Owner	Republic of Slovenia
Local / Original ID Number	/
Type of Object	Mine

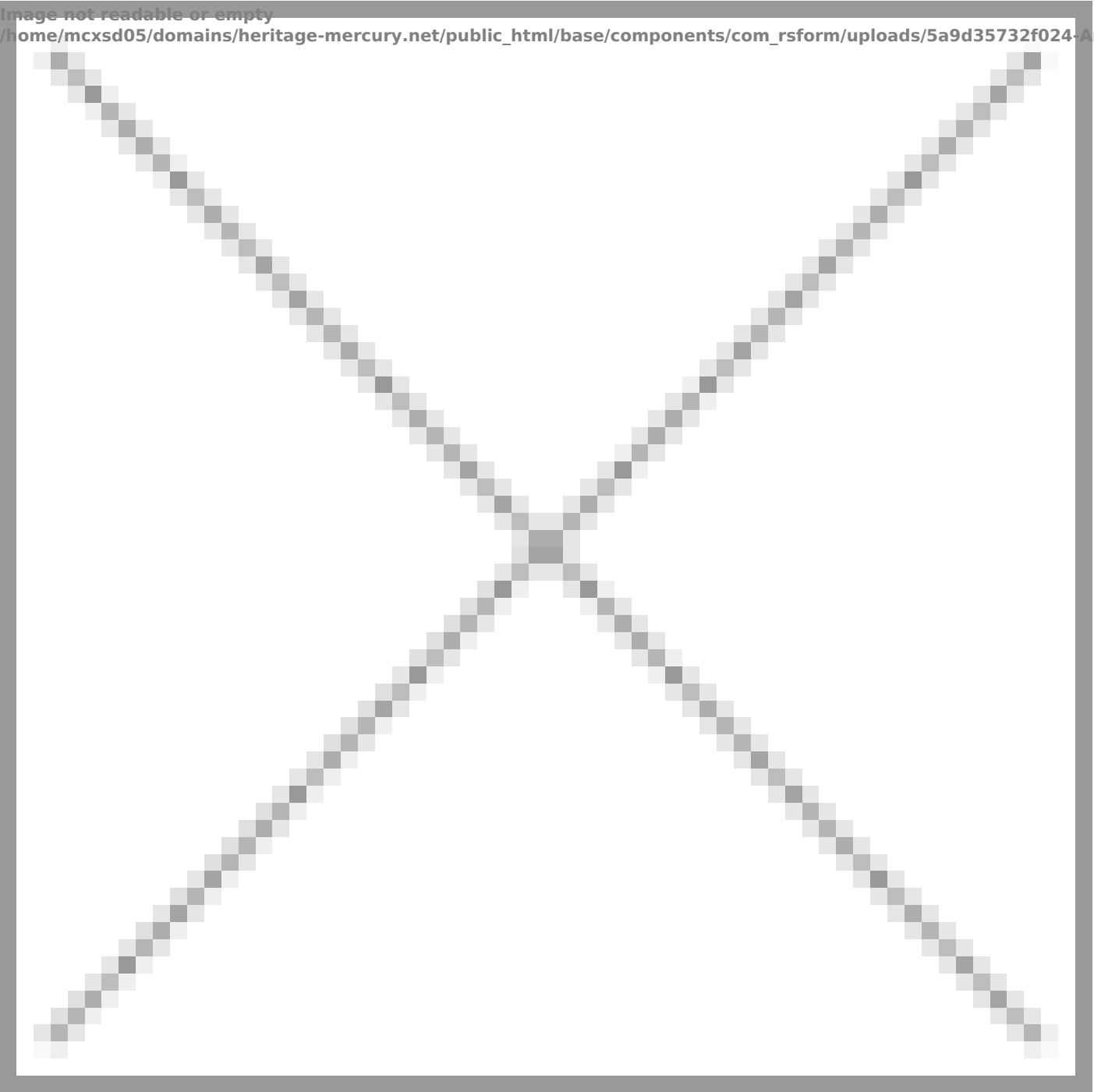
DESCRIPTION

Short description	The drilling set consists of two interrelated machines, namely a drilling machine and a flush pump. The drilling machine has a drill and a compressed-air, which is horizontally mounted on two vertical steel brackets. The bottom part of the brackets is mounted into the ground, their upper part in the ceiling. A pressure measuring device is next to the drilling machine. The other part is a flush pump, which is connected to the drilling machine and equipped with cast iron wheels. Different drilling bits, drilling nozzles and samples of drilling holes are positioned in the space next to the device.
Measures	Drilling machine with a drill: length 350 cm, width 87 cm, height 82 cm; Support: diameter 7 cm, height 410 cm; Pump: length 110 cm, width 58 cm, height 73 cm; Measuring device:

66 cm length, width 27 cm, height 27 cm.

Materials	Cast iron, steel, artificial mass, rocks.
Dating	1960s
Author / Producer	Manufacturer information is not known.

Picture
attachments



Original use

The Craelius drilling set served for research drilling and detection of mineralisation areas on the main levels and levels of the Idrija ore deposit. Obtaining the core during research drilling was particularly challenging in the poor rocky conditions which occur in Idrija. Therefore, during the exploration of part of the Idrija ore deposit (in the Pront area), the Idrija geologists turned the water flow direction for flushing the bottom of the well. The technical master Franz Lapajne invented the construction of a special-shaped drilling bit for reverse drilling, especially in soft rocks. Drilling with “reverse circulation” has become the special core drilling technology in extremely poor rocky conditions. With the modified method of drilling in soft rocks – tectonically completely covered carbon slates or Skonca beds, they got almost 100% of the core instead of 10%, which was an exceptional achievement. F. Lapajne did not patent his innovation, therefore it was used by the drilling set manufacturer Craelius.

Present use

The drilling set is being preserved, secured and presented as important mining heritage of Idrija with exceptional universal values. It is a part of the CUDHg mine collection. Visitors can view it within the permanent museum display Anthony's Main Road. It is a part of the presentation that represents the entire story of mining in the Idrija Mercury Mine and with the related work process and ore deposit exploration. The drilling set is a part of the museum presentation on the level I/20 of the Kropáč mining field. Three phases of the excavation in the Idrija Mine are presented here: drilling, blasting, loading and removal, from the beginning of the 1960s.

Original location

Idrija Mercury Mine.

Present location

Anthony's Main Road (level I/20 of the Kropáč mining field), Kosovelova 3, SI-5280 Idrija.

STATE OF CONSERVATION

History of conservation:

The drilling set is well preserved. It was cleaned and protected with coating for the purpose of the museum exhibition. Additional interventions are not necessary. Security of the premises is taken care of.

Present state

good

Necessary activities:

Regular seasonal maintenance.

DOCUMENTATION

Addresses / collections / links etc. where further in-depth information is accessible:

- CUDHg Inventory Book.

Submitted

Mestni muzej Idrija

Submitted by

Miha Kosmač

Date Submitted

5. 3. 2018

Date Edited

Never
