

SKETCH 1.

Sketch-plan of a simple colony Inhabited by Geosciurus.

The colony, which was located on Trompsburg Commonage, was gassed with Cyanogas and dug up $4\frac{1}{2}$ hours later.

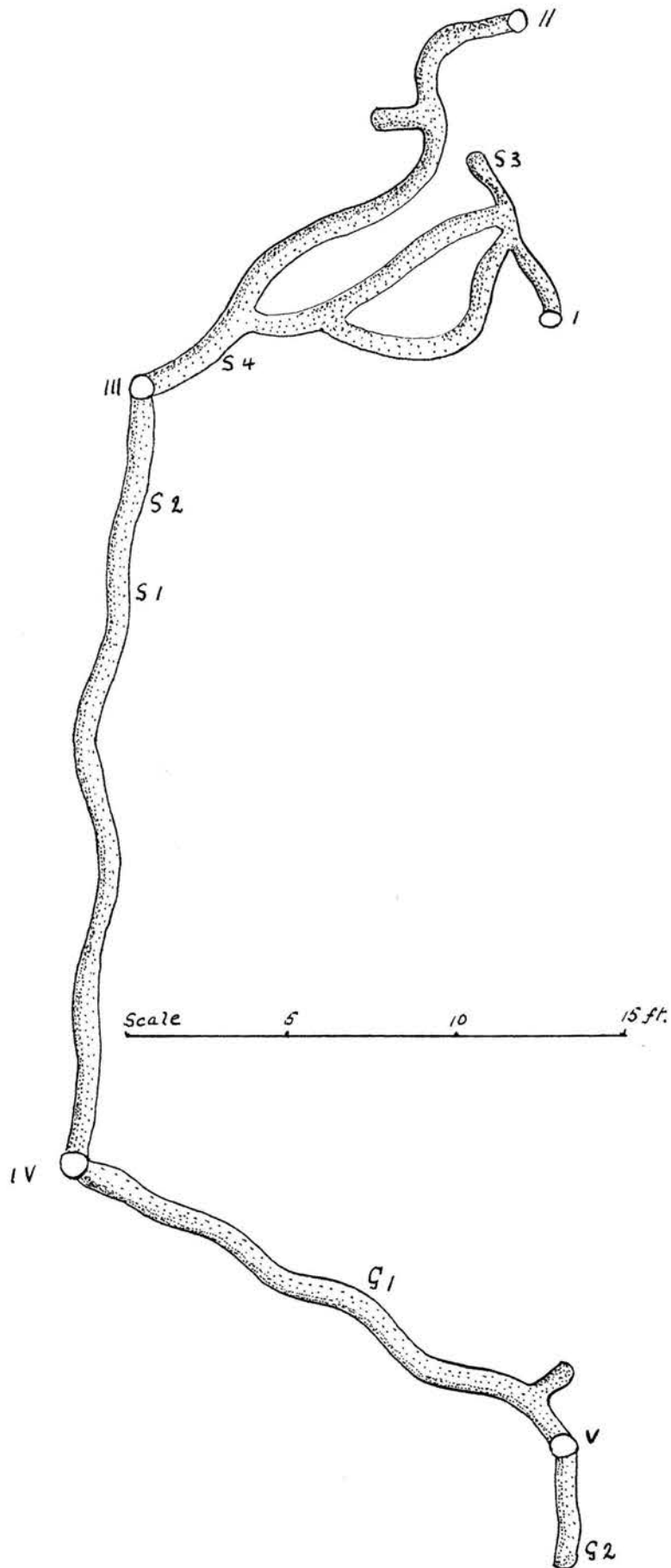
Reference:

A dead Geosciurus was located at X, and a live one in a dazed condition at X1.

A. and B. indicate the holes into which the gas was blown with a single action hand pump.

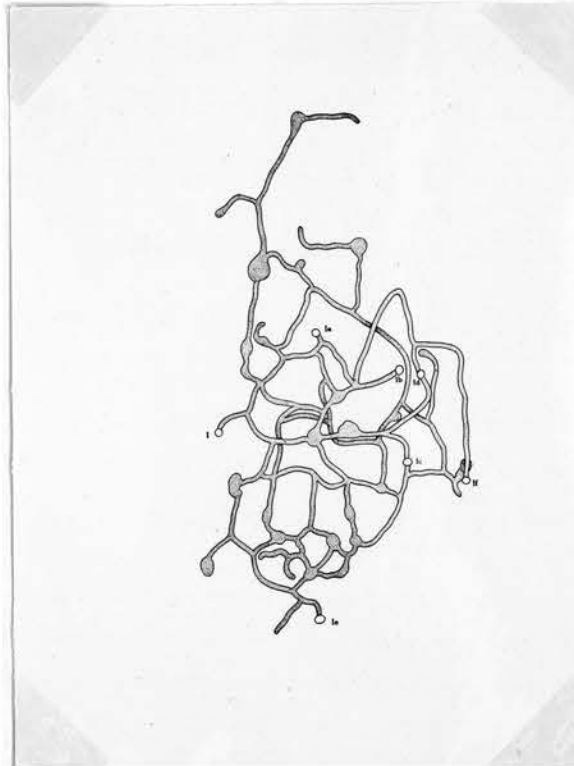
SKETCH 2.

Sketch-plan to scale of a Meercat warren on Vryburg Commonage.
Gassed with cartridge fumigators and dug up on 15.11.38



Reference:

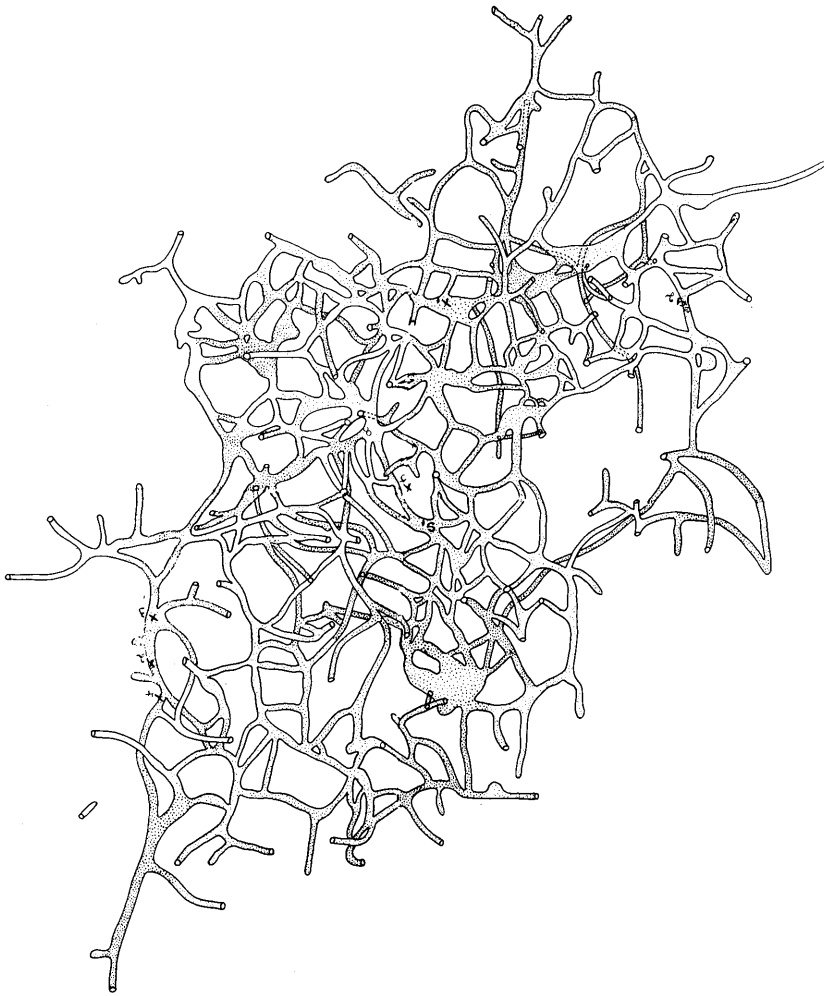
- S1 indicates point where Suricates escaped.
- S2 and S3, etc. points where live Suricates were located.
- G1 and G2 indicate points where live Geosciurus were located.



Sketch 111.

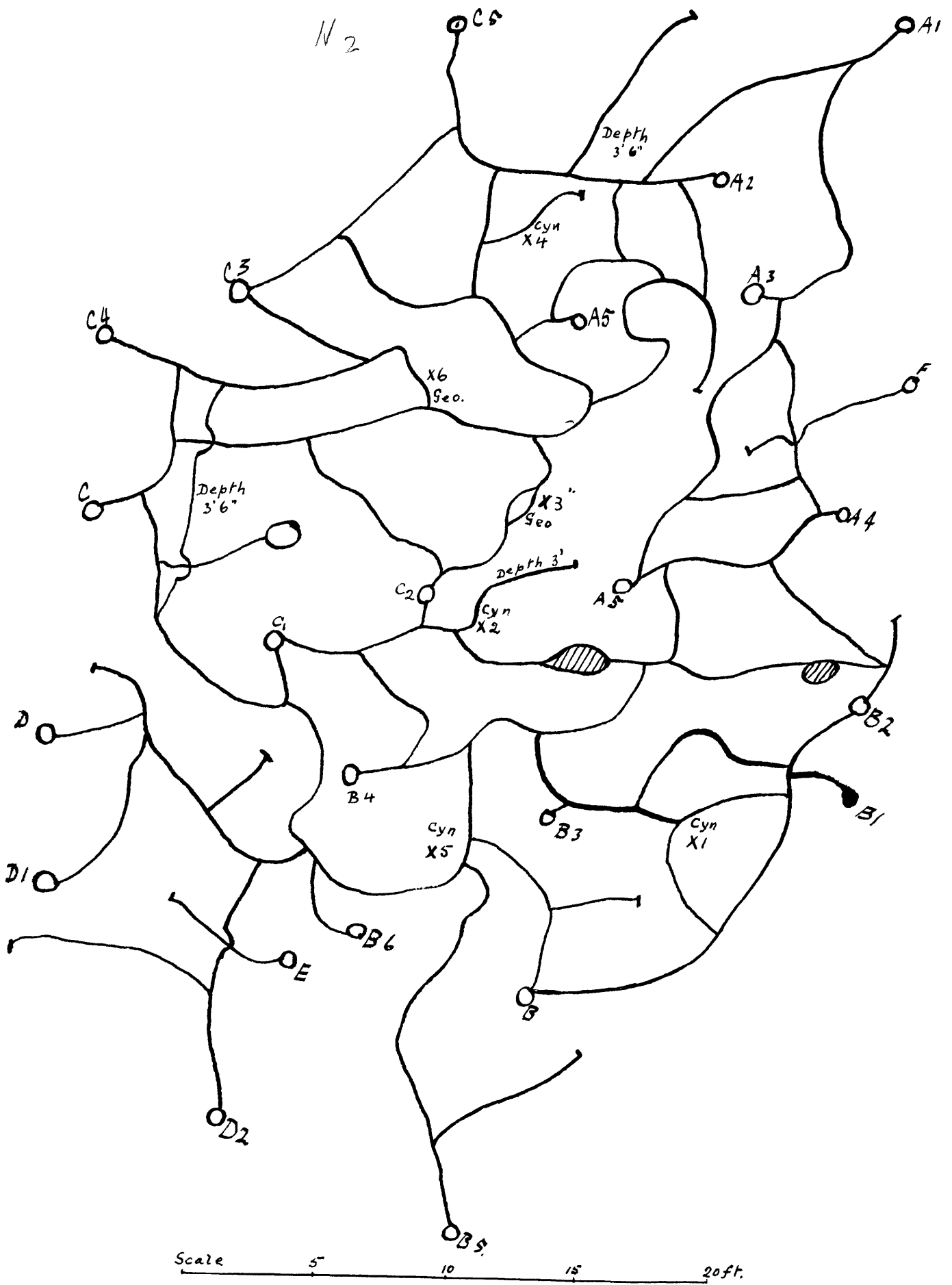
Sketch-plan of a Simple Colony inhabited by Cynictis.

The colony was located on Zoetvlei, Hoopstad district, gassed and dug up. Digging was started immediately and the Cynictis still alive were located in the cul-de-sac at the top of the illustration.



Sketch 1V.

Sketch-plan of colony No.112, Beestekraal, Hoopstad, representing a typical colony of the more complicated nature. The colony was gassed after 3 Cynictis were seen to enter it, and then dug up. Six Cynictis and two Geosciurus were found dead in the burrows.



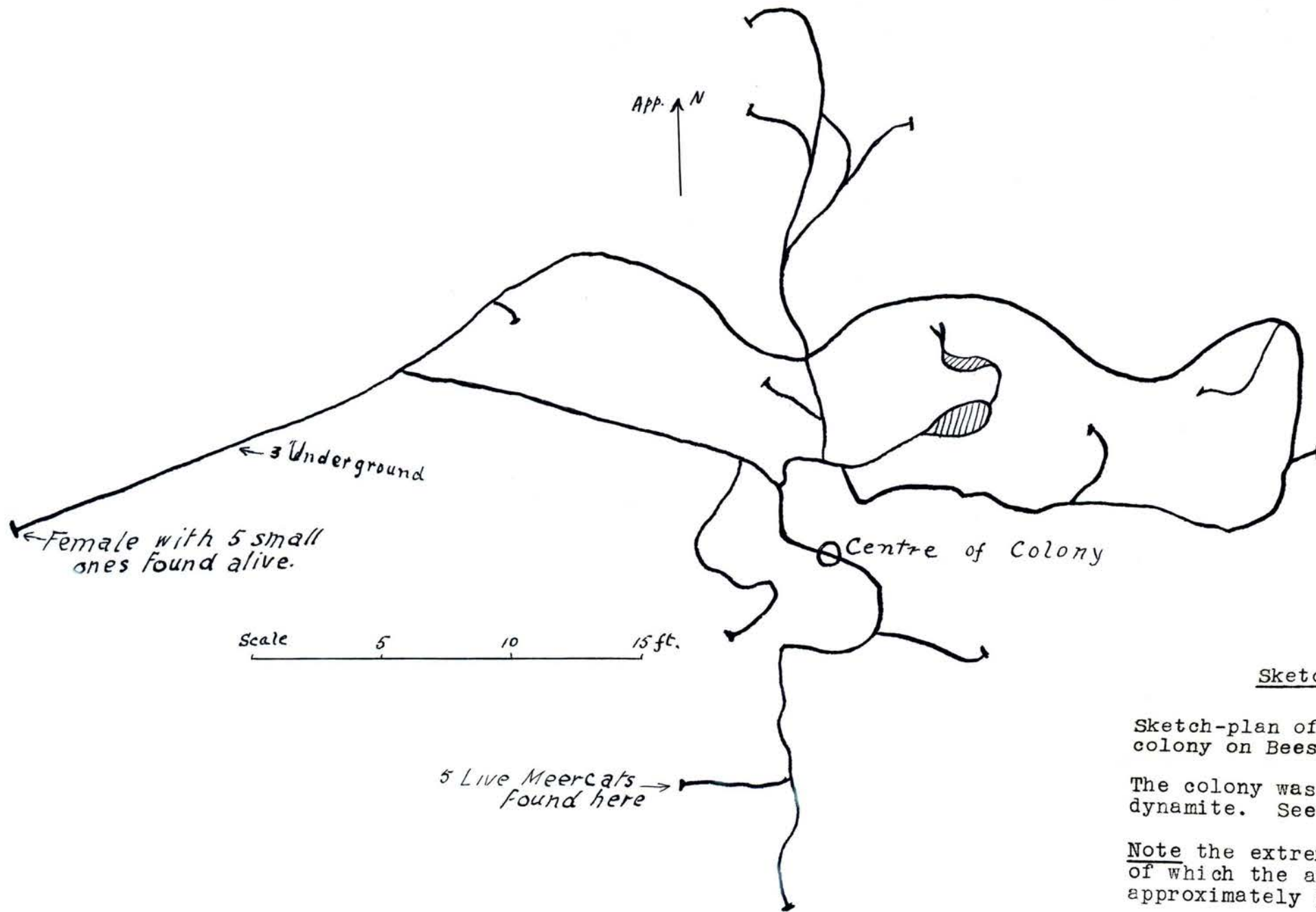
SKETCH 1V(a)

Colony V : Trompsburg :26.1.38

Colony was dug up immediately after gassing with Cyanogas.

Reference:

- Dead mongooses were located at X1 and X5.
- Live Mongooses were located at X2 and X4.
- Dead squirrels were located at X3 and X6.

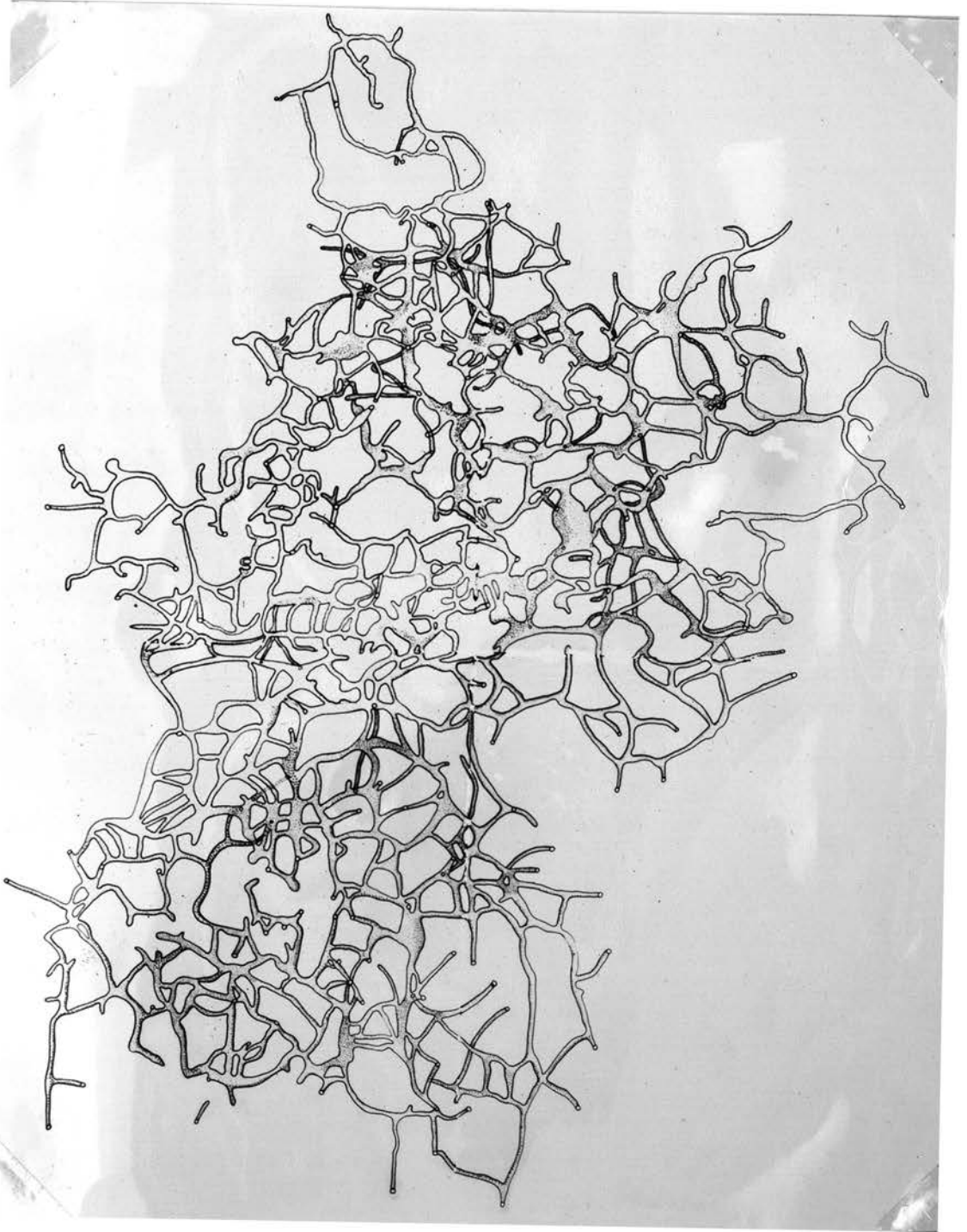


Sketch V.

Sketch-plan of an underground colony on Beestekraal.

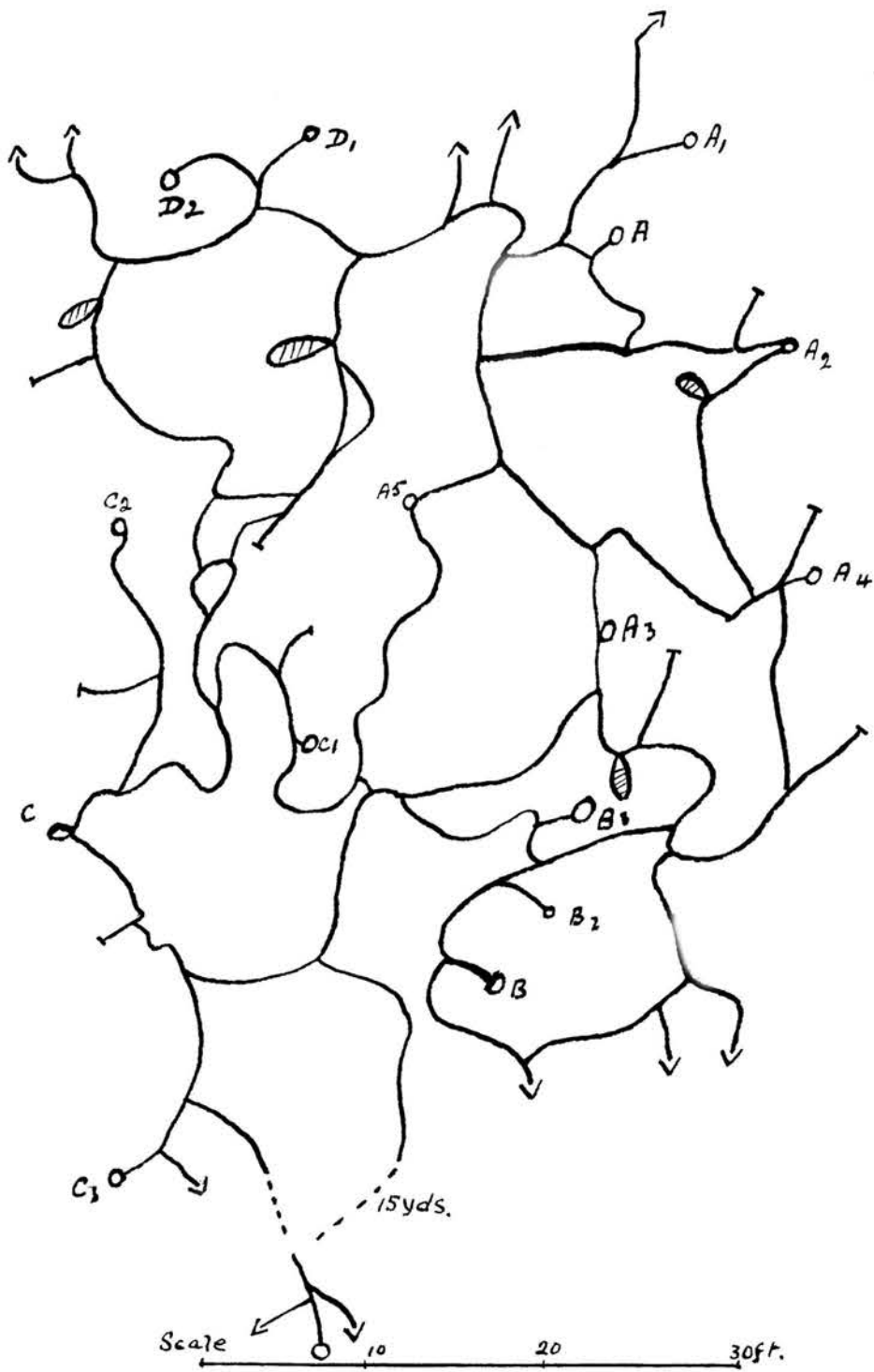
The colony was exploded with dynamite. See experiments.

Note the extreme blind tunnels, of which the average depth was approximately 3 feet.



Sketch No.VI.

Sketch plan of colony No.122 Beestekraal, Hoopstad. The colony measured 80 x 105 ft. and had 90 openings. Its existence was known to the owner of the farm for at least fifteen years. The photograph shows the intricacy of the tunnel maze, after the colony has been dug up.



Sketch No. ~~III~~ VII

Sketch-plan of meercat burrows in a refuse heap Trompsburg Commonage. Note similarity of pattern to ordinary underground burrows. The burrows in this case were all on the ground level.

Reference:

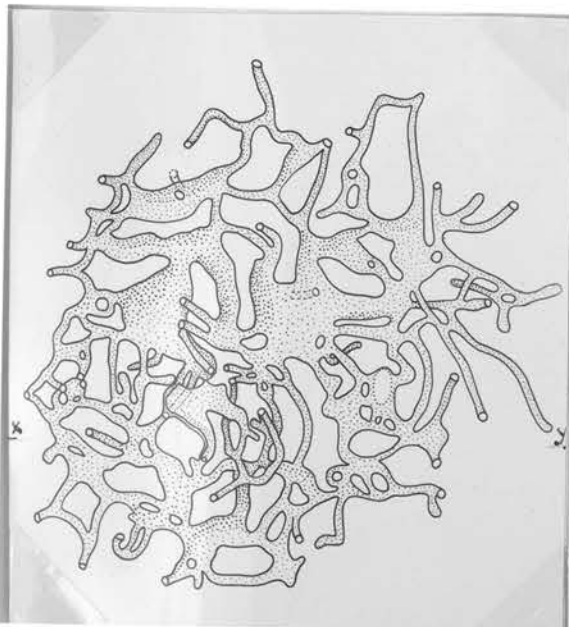
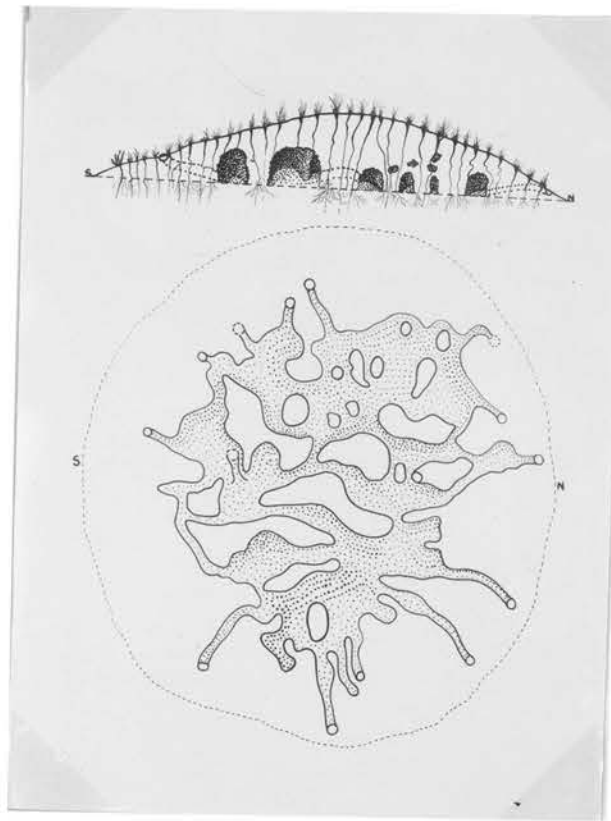
- Continuation of warrens.
- ┐ End of warrens.

Cynictis entered at A and escaped at Z.



Abodes of Cynictis.

- Fig 13 . is a portion of a stone wall of an old "Block-house on the 'Trompsburg Commonage. Twelve Cynictis were trapped in the excavations under the stones.
- Fig.14. A typical abode of Cynictis under large stones. Note the excavations under the boulders. Trompsburg Commonage.
- Fig 15. The water-main on Sunnyside, Bloemfontein. The loose soil covering the pipeline is riddled with groups of warrens, which can hardly be termed colonies. The warrens swarmed with Cynictis.



Sketch VIII

Figs. 16, 17 and 18. Sketch plans and sections of meercat warrens in "Trassiebos" mounds. The large confluent chambers are due to constant caving in and removal of the soft earth. Fig 18 is a section of sketch plan 17, taken along the line x - y.



Fig.16. Meercat warren in a "Trassiebos" mound (*Acacia stolonifera*). The mound consists of wind blown sand held by the shrub. The burrows dug in a mound of this description are above ground level.

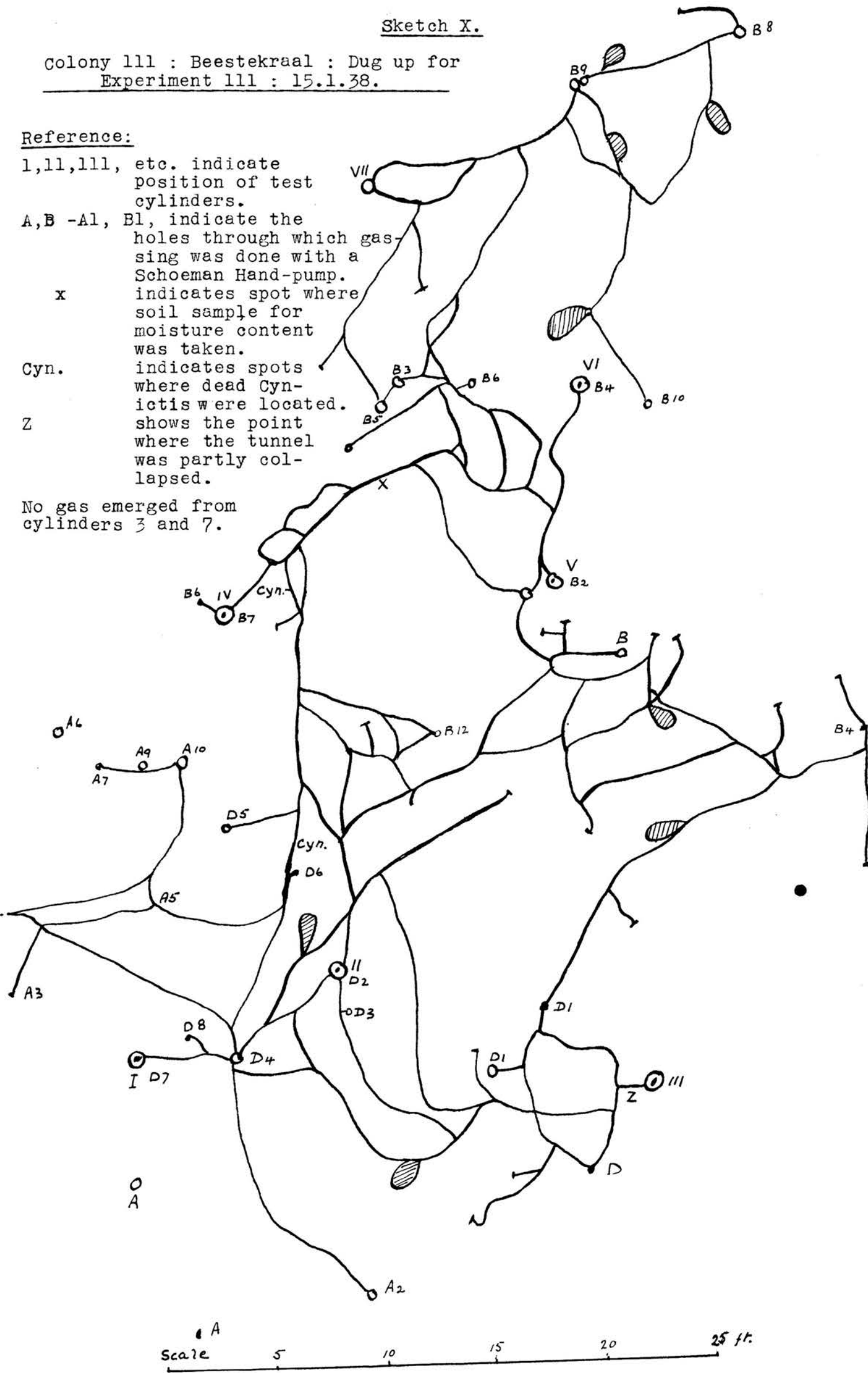
Sketch X.

Colony 111 : Beestekraal : Dug up for
Experiment 111 : 15.1.38.

Reference:

- 1,11,111, etc. indicate position of test cylinders.
- A,B -A1, B1, indicate the holes through which gas-sing was done with a Schoeman Hand-pump.
- x indicates spot where soil sample for moisture content was taken.
- Cyn. indicates spots where dead Cynictis were located.
- Z shows the point where the tunnel was partly collapsed.

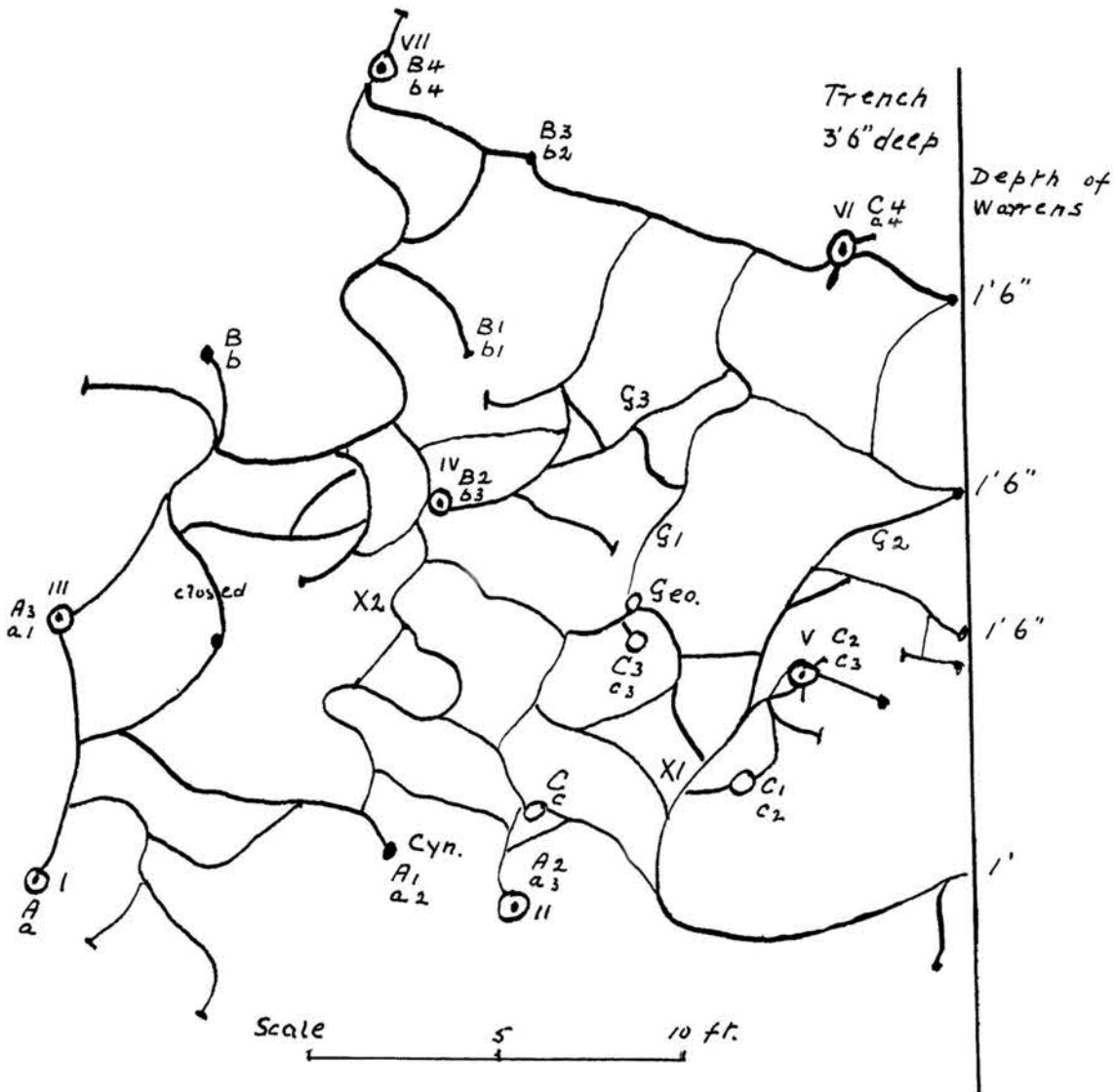
No gas emerged from cylinders 3 and 7.



2 SKETCH X11.

Colony B : Bestersrust.

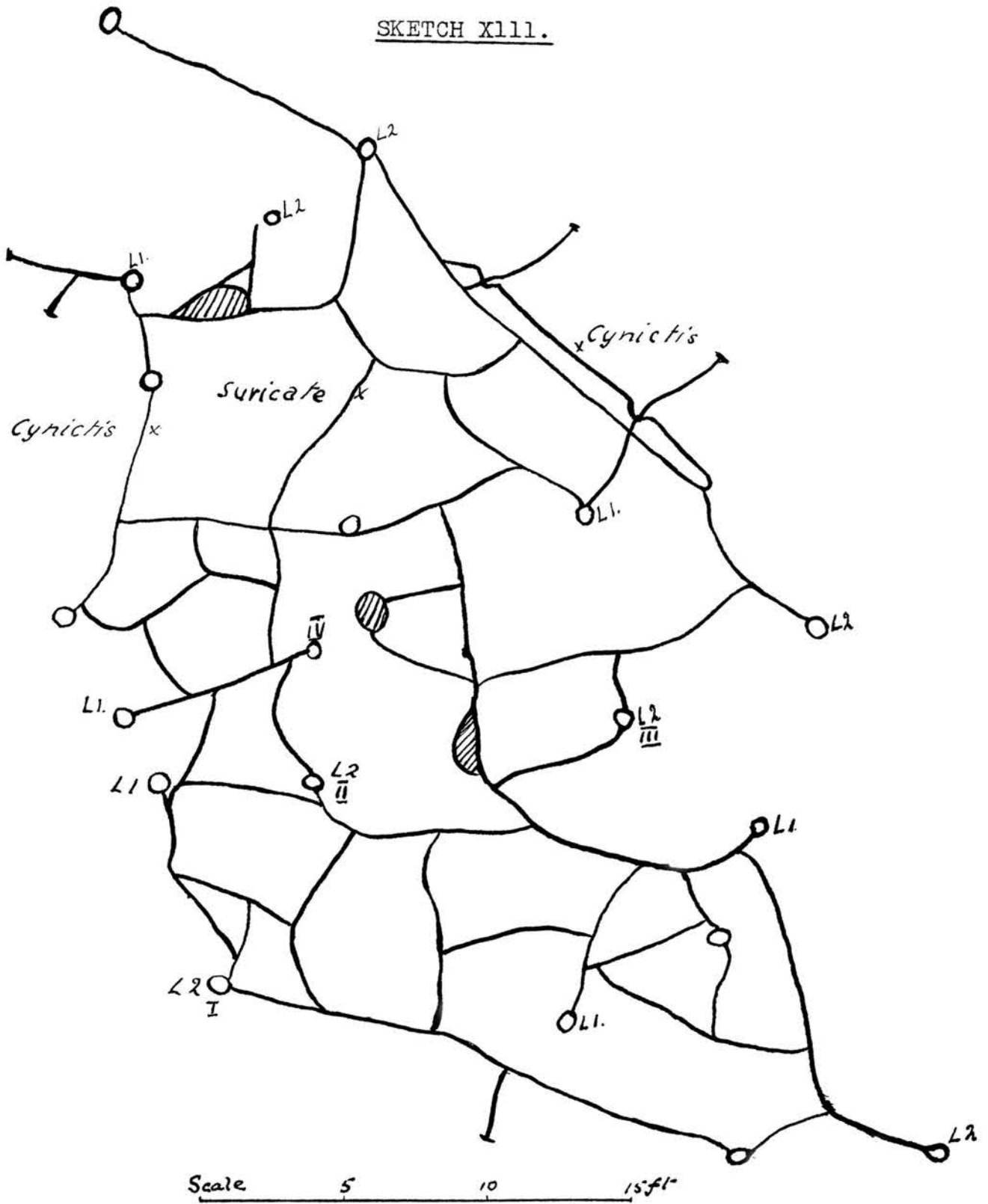
Dug up 4.5.38 for experiment V.



Reference:

- l, ll, lll etc. indicate positions of test cylinders.
- A, B, A1, B1, indicate the holes through which gassing was done with compressed air and the order in which the gas emerged.
- a, b, a1, b1, the same as above but using a Schoeman Hand-pump.
- Cyn. hole through which three Cynictis were introduced 4.5.38
- Geo. where two Geosciurus were introduced 4.5.38.
- G1 and G2 indicate points where fresh carcasses of Geosciurus were located.
- G3 the point where a stiff carcasse of Geosciurus was found (not introduced).
- X1 and X2 where stiff carcasses of cynictis were located (introduced)

SKETCH X111.



Colony No.2 : Vryburg Commonage.

Fumigation of meercat warrens with gas cartridges liberating Sulphurous gasses.

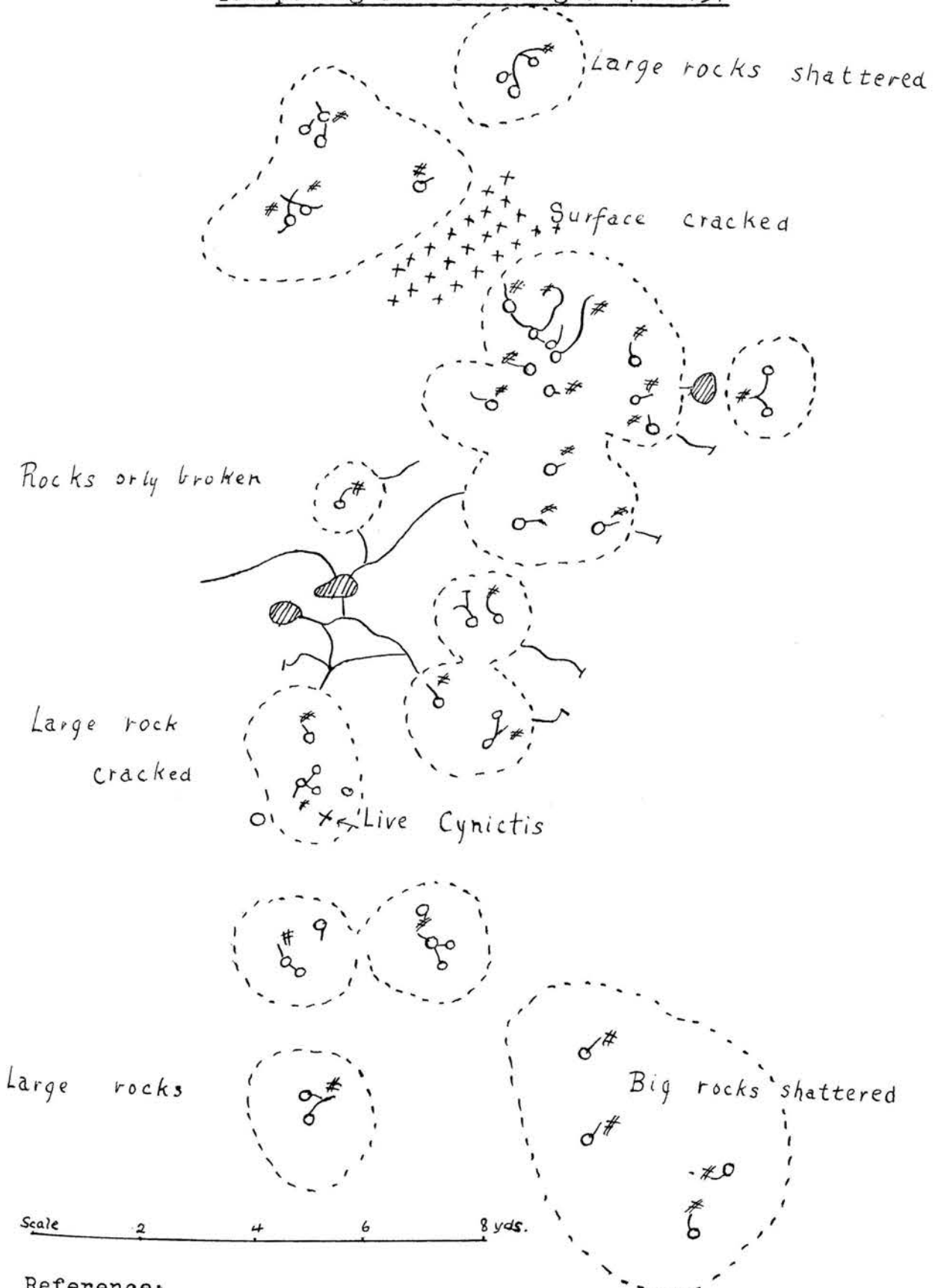
Reference:

- x indicates where live animals were found.
- L1 indicates the holes into which one gas cartridge was inserted.
- L2 indicates where two cartridges were inserted.

SKETCH XLV.

Sketch Plan of the Result of Dynamite Explosion on a Meercat Colony situated in Rocks. (Refer to Experiment 118: Destruction of Meercats by Explosives.)

Trompsburg Town Commonage: 27.11.37



Reference:

- Represent openings of burrows opened for insertion of explosive charges.
- # Position of charges.
- Extent of the effect of the explosions.
- ~~~~~ Represent the burrows opened after the explosion.
- x Point where a live Cynictis was found.