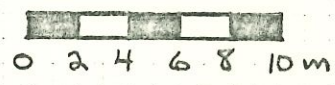
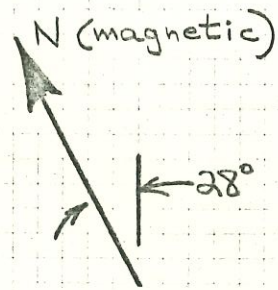


MAGNETIC MAP

2 July 1975

Lower area, Schaefferstown, Pa.

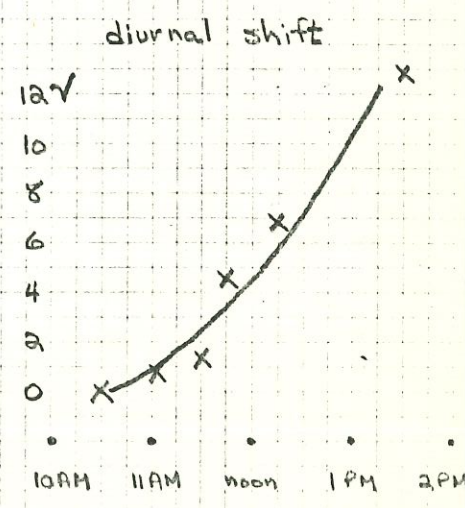
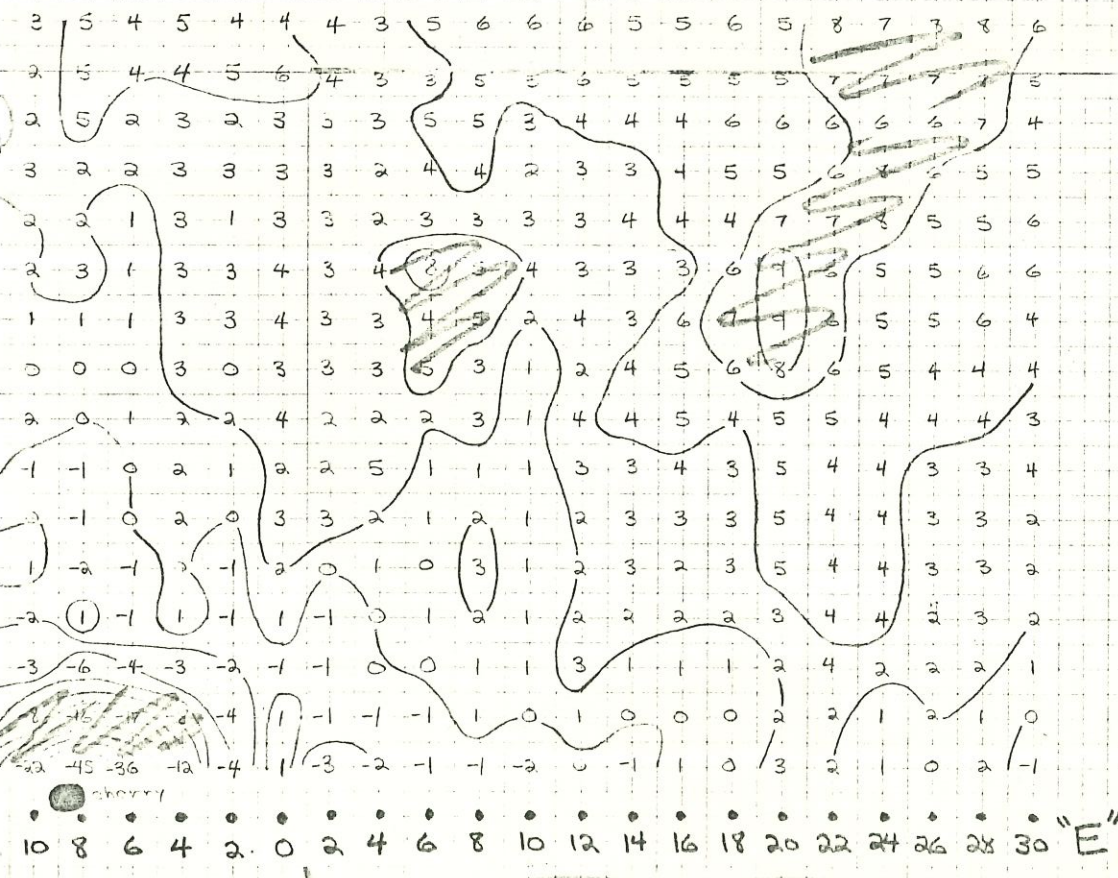


survey crew: Jeff Kline
Burt Webber
Bruce Bevan

Museum Applied Science Center for Archaeology
The University Museum
University of Pennsylvania

γ
am
m
corrected for
f

magnetic high
magnetic low
● = trees



gamma field
directions approximately

Anomalies:

dipole near SW corner —
probably iron at N3W22

low at S side of grid —
probably iron near or S
of cherry tree

high at N19E7 —
possibly archaeological

high at N18E20 —
possibly archaeological

geological trend: increases
at $\approx 1/5 \gamma$ to E

ISOMAGNETIC MAP

2 July

Baron Stiegel Tower area, Schaefferstown

contour interval = 2 γ

base value = 52,250 γ

measurement spacing = 2m

sensor height = 0.75m

absolute intensity, corrected for
diurnal shift

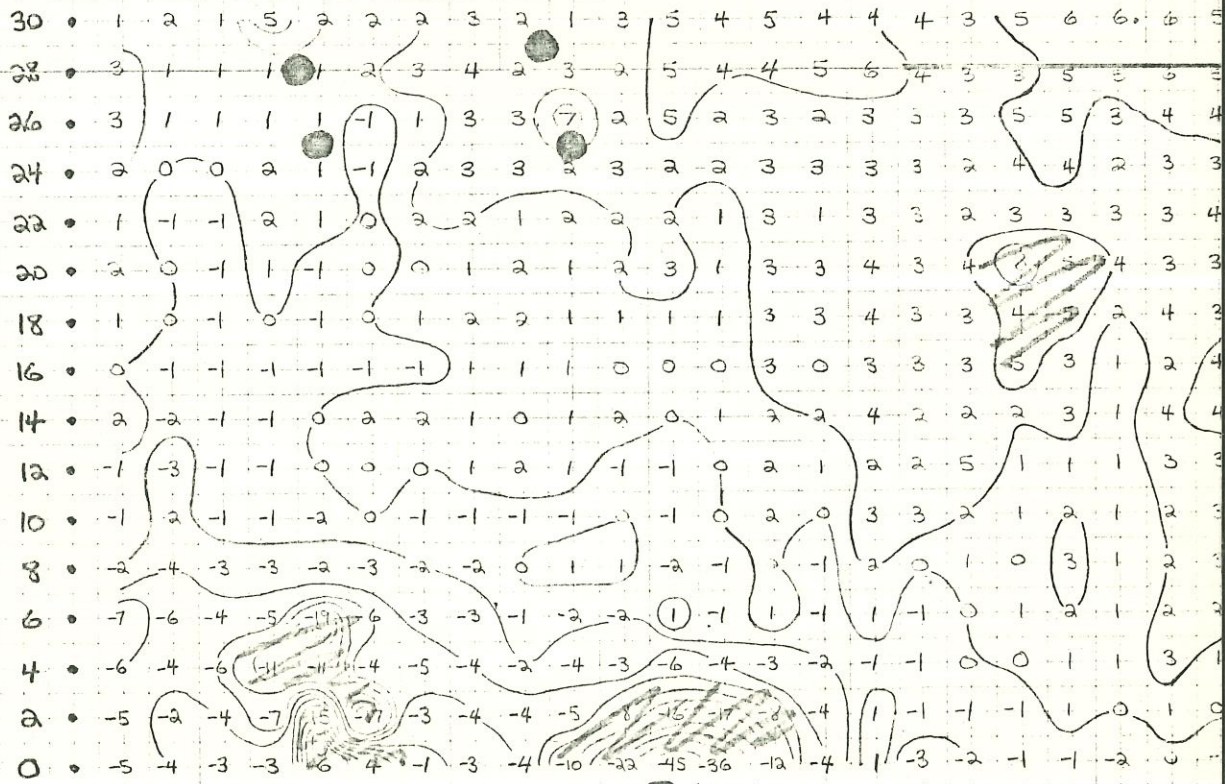
sensor to S of staff

survey crew: Jeff Klein
Burt Webb
Bruce Bell

magnetic hi
magnetic lo

● = trees

"N"



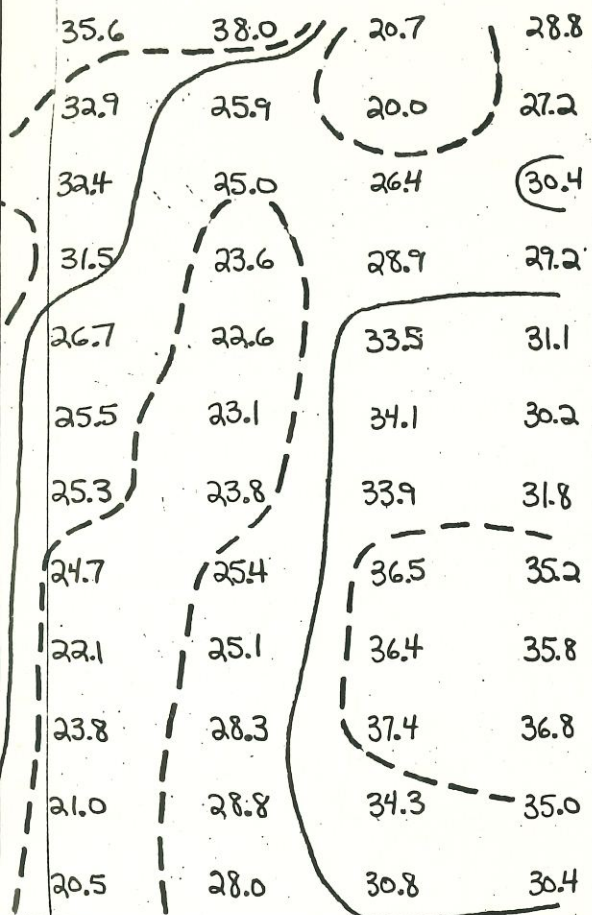
"W"

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 1

cherry

low resistivity measurement

approximately may have a se.



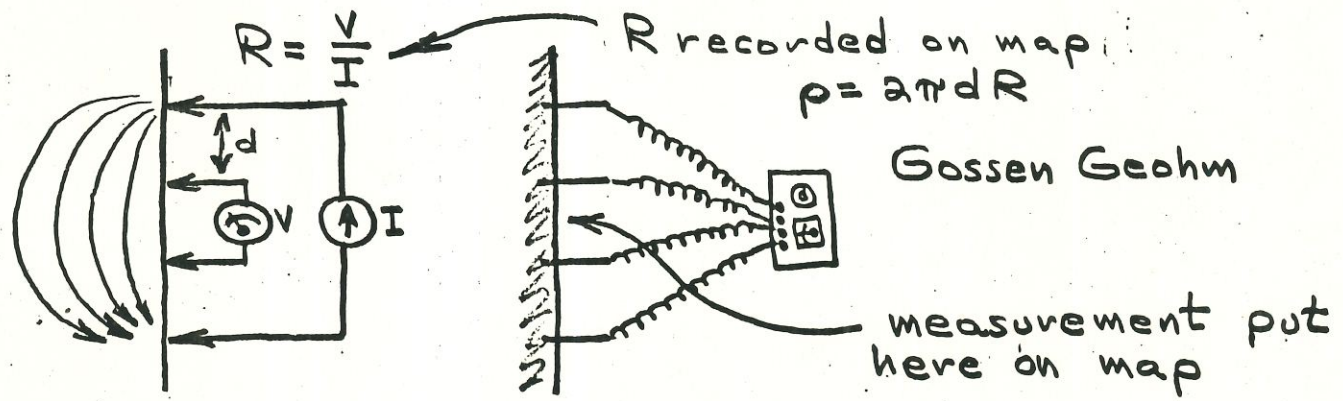
Isoresistivity Map

Baron Stiegel Tower Area

Schaefferstown, Pennsylvania

surveyed 25 Oct 75 by Burt Webber & Bruce Bevan
 approx. same grid reference as magnetic survey of 2 Jul 75

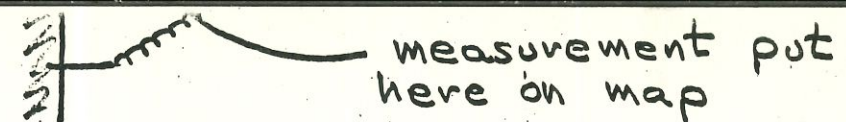
Contour interval = 10 Ω (5 Ω if R < 40)



probe spacing = 1 m

traverse direction = N-S

21.0	28.8	34.3	35.0
20.5	28.0	30.8	30.4
18.8	29.0	29.1	27.4
18.3	26.0	26.7	25.2
19.5	28.8	27.3	25.8
20.9	26.7	24.6	22.5
21.1	30.1	24.7	23.1
24.7	27.2	22.1	24.0
23.1	26.6	21.9	21.8
24.2	24.2	21.3	23.4
20.9	21.0	23.9	21.7
23.0	18.8	23.1	17.2
18.5	20.2	21.2	18.0
19.8	21.0	19.7	18.5
23.9	22.4	16.7	20.0
21.7	21.9	16.0	22.3
23.5	19.5	17.0	24.6
22.2	20.5	24.9	26.0



measurement put here on map

probe spacing = 1 m

traverse direction = N ↔ S

4-point probe in Wenner configuration

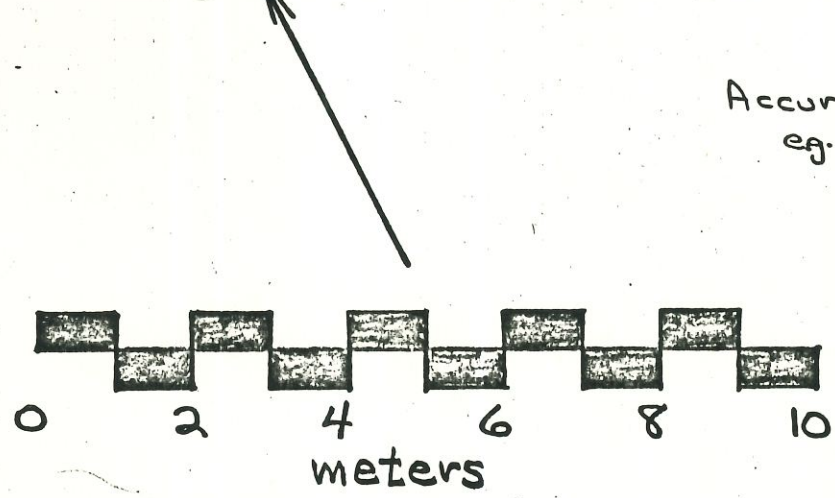
general reference: Interpretation of Resistivity Data

by R.G. Van Nostrand & K.L. Cook
 Geological Survey Professional Paper 499
 US GPO, 1966

~5 hours to survey grid
 448 measurements
 → ~40 sec/measurement

Accuracy ~ ±3 in right hand digit
 eg. 28.8 ± 0.3 or 68 ± 3

N (magnetic)



wheat

• • • •
 6 8 10 12 "E"

University Museum, MASCA, Univ. of Pennsylvania
 Webber Explorations, Inc., Annville, Pa.

magnetic anomalies on S side of magnetic grid of 2 Jul 75 found to be coils of fence wire hidden in brush

~30 Ω discontinuity along edge of cultivated field

low resistivity lineament

probably all anomalies here are a result of tree roots and animal burrows

these are approximately parallel and may be related cause.

N'

30

28

26

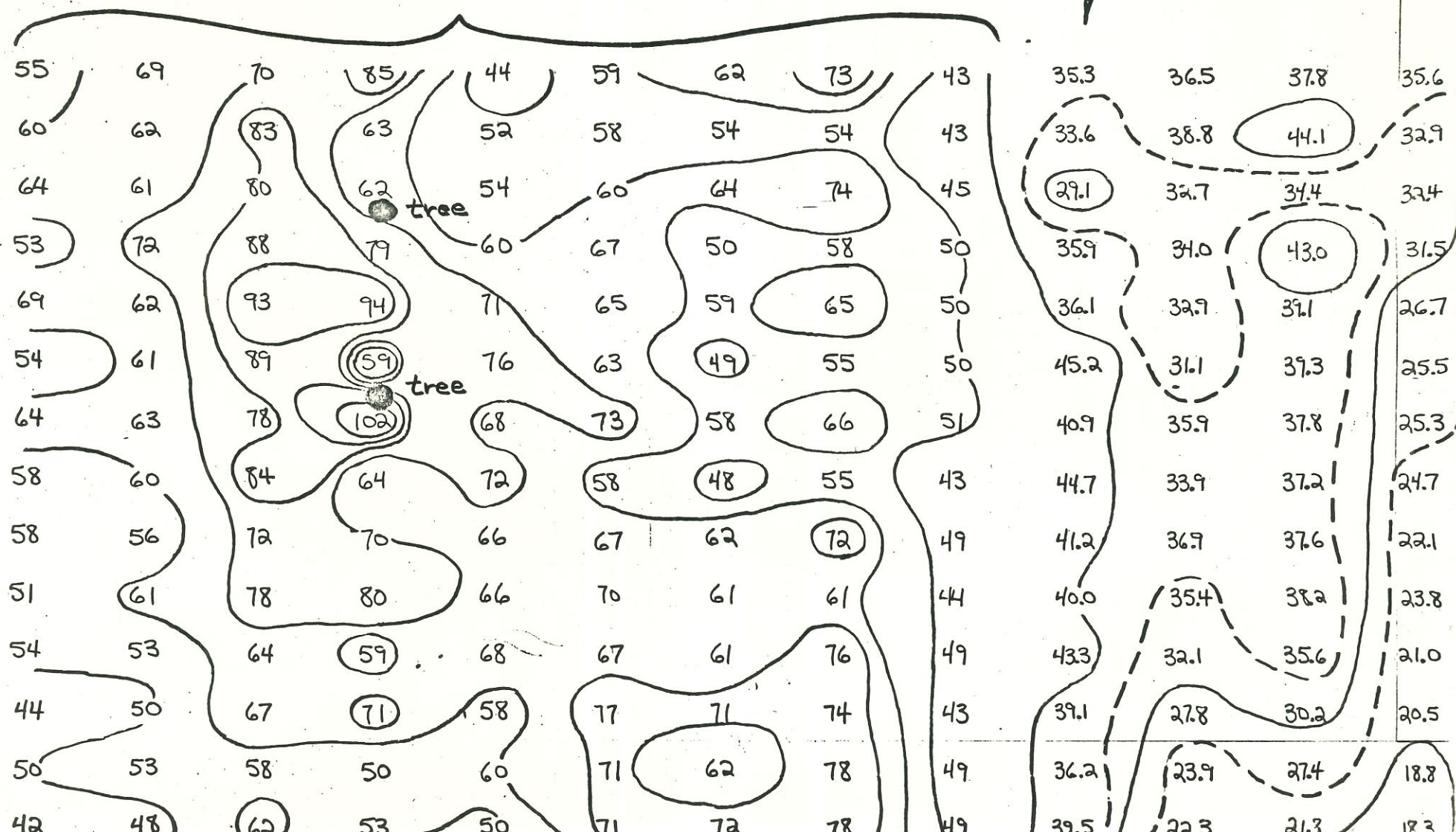
24

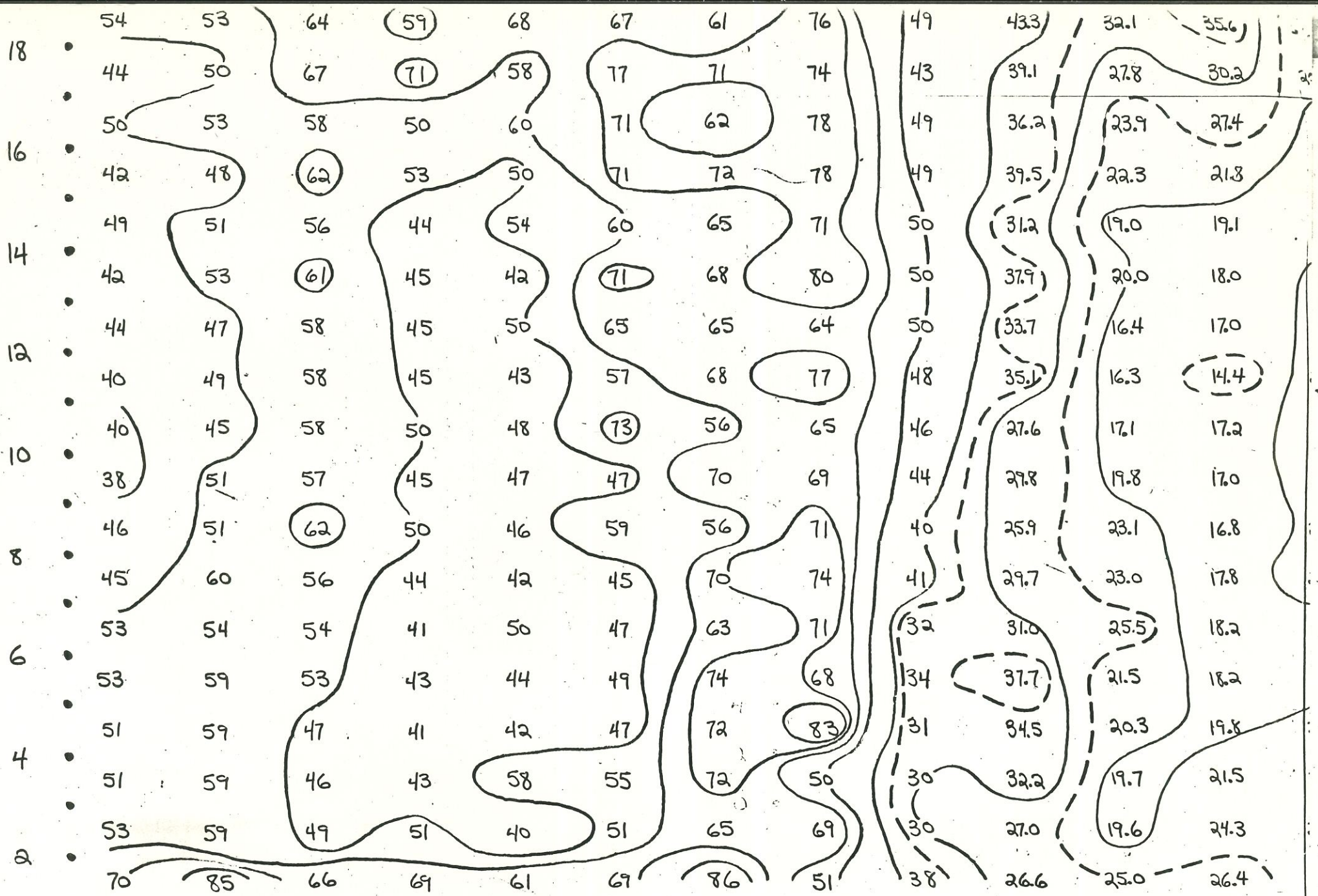
22

20

18

16





"W" • • • • •
 18 • • • • •
 16 • • • • •
 14 • • • • •
 12 • • • • •
 10 • • • • •
 8 • • • • •
 6 • • • • •
 4 • • • • •
 2 • • • • •
 0 • • • • •