

ANCIENT MONUMENTS LABORATORY GEOPHYSICS SECTION

REPORT ON MAGNETOMETER SURVEY

SURVEY: OAKLEIGH FARM SHORNE

DATE: 31/8/78 - 1/9/78

Report no. 30/78

1. SITE

OS grid reference: TQ 792 742

Field no. 0005 (TQ7273)

Location:

Geology: SANDS.

Archaeological evidence: Kilns excavated in a pipeline trench.

2. SURVEY

Object: To establish the presence and location of possible further kilns.

(a) Magnetic survey

Type of survey: automatic.

Magnetometer: Fluxgate gradiometer. Range: 0-100 γ

Initial chart recorder settings - Y: 16 γ/cm
X: 1:200 scale

Logged for computing: ~~yes~~/no

(b) Other tests

(i) Magnetic susceptibility:

topsoil: 22 subsoil: --- fill: --- $\times 10^{-6}$ emu/gm
(ac bridge readings)

(ii)

Survey grid measured to: Field boundaries
Central line of stream.

Plans/charts enclosed: Location plan 1:200
Magnetometer tracks 1:500

3. RESULTS

Eleven 30m squares to the sides of the gas pipe trench adjacent to the site of the excavated kilns, were surveyed.

There is a scatter of anomalies in the surveyed area, indicated in red on the plan. Most of these probably represent pits and ditches, and those marked with question marks are possible kilns. The strength of the kiln responses is however less than might be expected from such features and we have therefore indicated them as questionable. The presence of kilns would be expected to show up clearly against the slightly magnetic soil.

The larger number of anomalies in squares 1 and 2 may indicate the extension of the site in this direction. A quick scan with the magnetometer indicated additional anomalies to the north.

Throughout the remainder of the squares the traverses appear very quiet apart from spikes produced by buried iron, almost invariably non archaeological. Occupation produces an increased magnetic susceptibility of the soil, especially that filling features. This usually produces noise in the traverses which is not noticeably present apart from squares 3 and 4.

Unfortunately the area of the easement was very noisy due to the pipeline, wire fences and contractors rubbish, we therefore did not record this area.

Surveyed and reported by: D.BOLTON

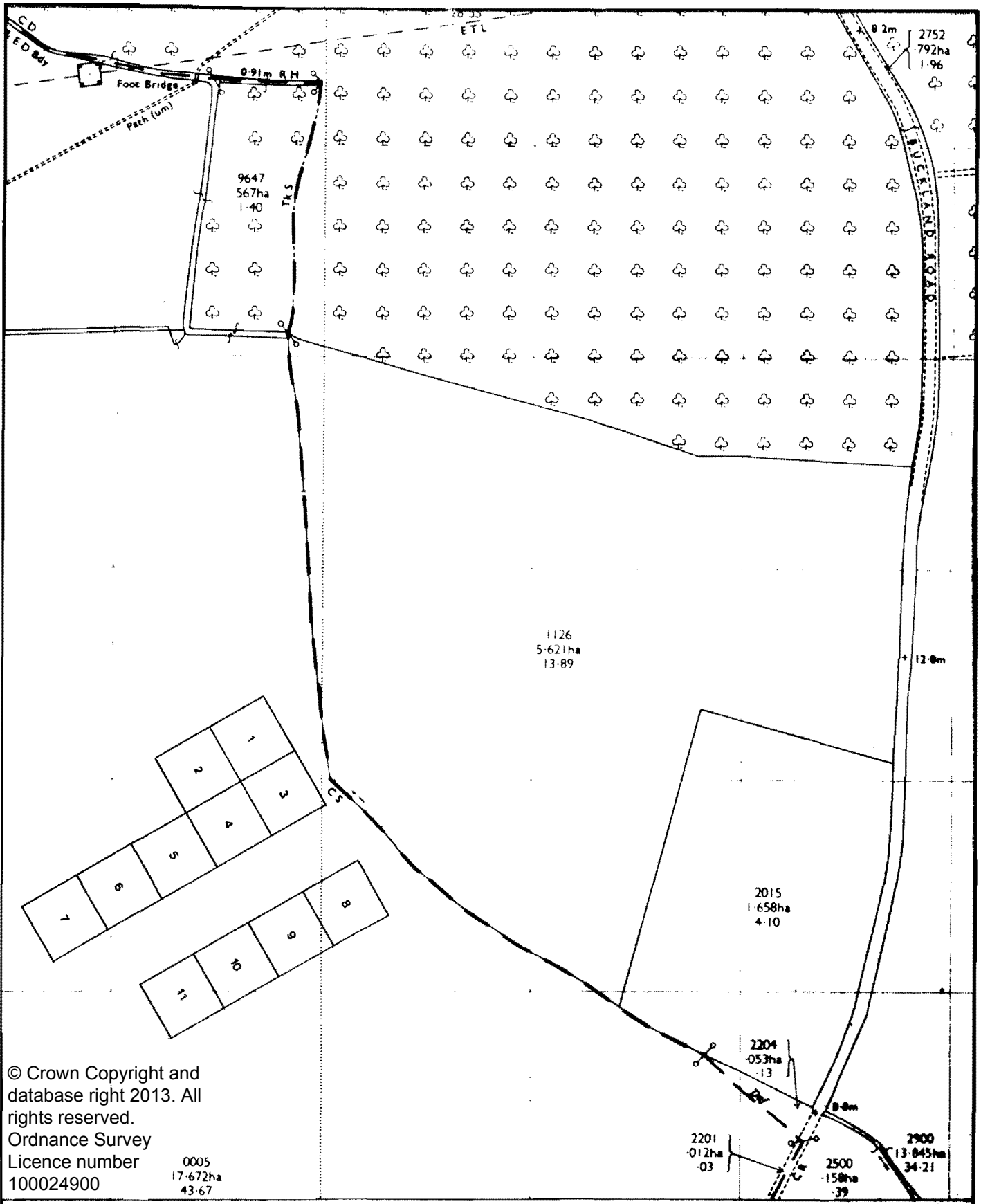
with: A.DAVID

For: P.CATHERGALL

Date of report: 15/11/78

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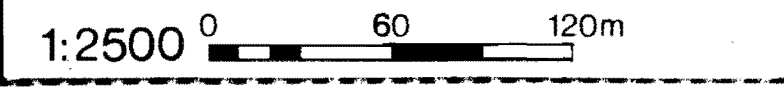
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 Ordnance Survey
 Licence number 100024900
 0005
 17.672ha
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729 731 732 733

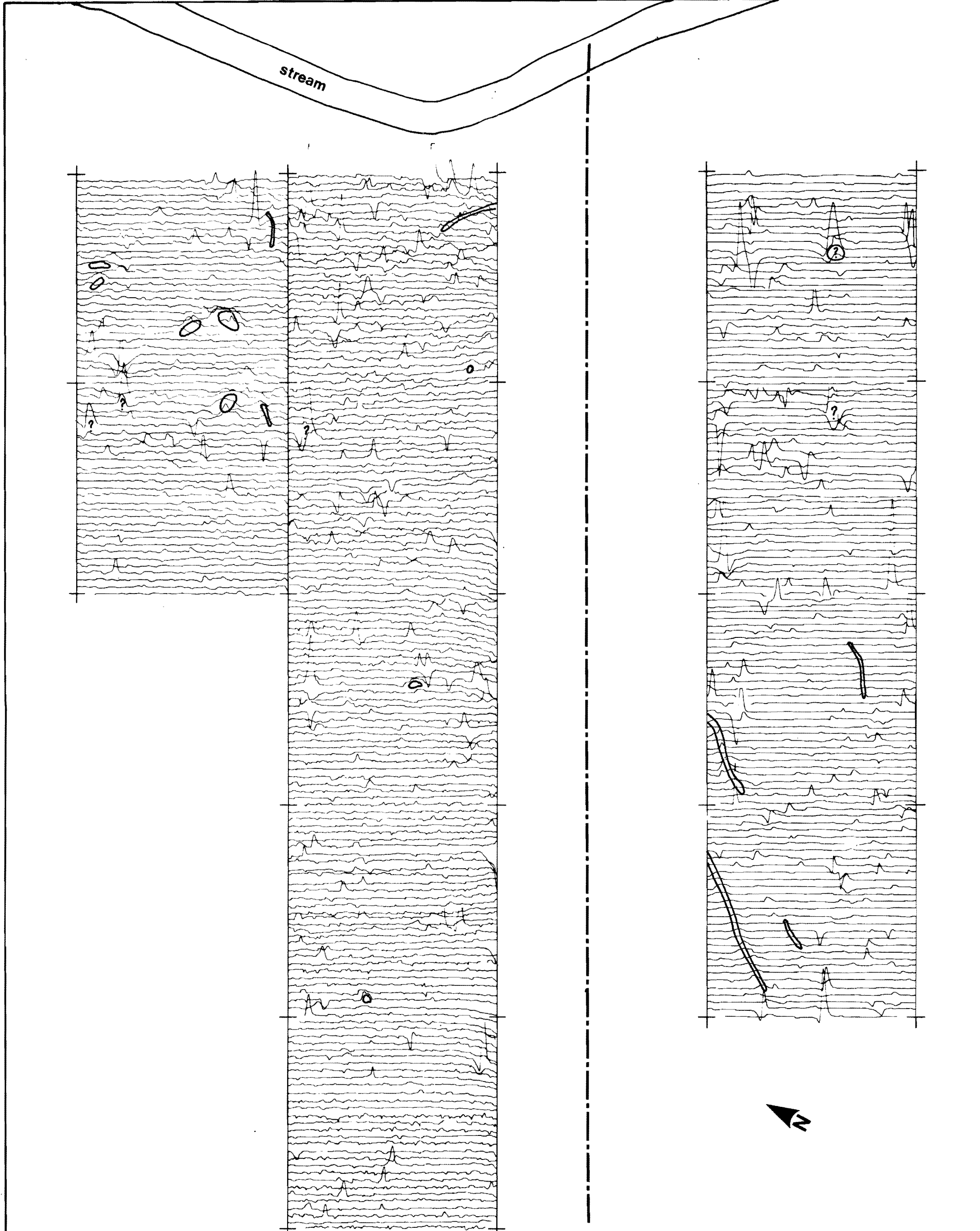
OAKLEIGH FARM, SHORNE

MAGNETOMETER SURVEY Location

NG ref. TQ 729 742	Survey no. 30/78 Plan no. 1 of 2	<table border="1"> <tr> <td>1</td> <td>magnetometer squares</td> </tr> </table>	1	magnetometer squares
1	magnetometer squares			



DoE A.M. Laboratory
 Geophysics Section



Survey no. 30/78 Plan no. 2 of 2	OAKLEIGH FARM, SHORNE	NG ref. TQ 729 742
+ grid pegs	MAGNETOMETER SURVEY	magnetic anomalies
line of pipe (approx')		DoE Ancient Monuments Laboratory Geophysics Section