

APPLICATION  
for assistance

1. Applicant Exploration Ventures Limited  
Address 49 Moorgate, London EC2R 6BQ  
Telephone No. 01-606-1020  
Contact Mr. R.B. Riley or Mr. M.J. Lynch

2. Project title Forest of Deer

3. Applicants' organisation & financial structure

Please see this Company's letter dated 6th August, 1971.

4. Outline of proposed project including geological considerations

Reconnaissance of this area so far shows a prominent near circular major magnetic anomaly which occupies most of the north and central part of this district which is probably related to a granite intrusive. The presence of minor basic bodies is indicated in this area. Traces of mineralisation have been discovered in the granite. Reconnaissance carried out so far has been geological stream and soil surveys, geophysical induced polarisation and electromagnetic coverage over the main magnetic anomaly and extensive geological mapping. The minerals sought are Ni, Cu sulphides and any associated minerals.

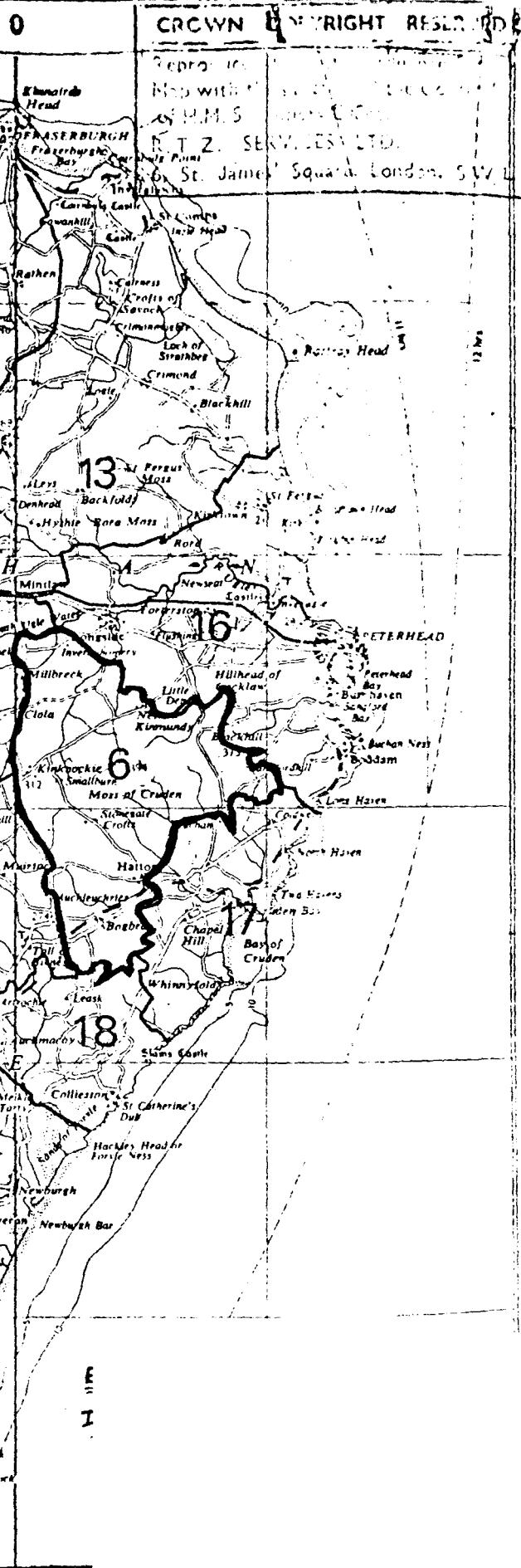
5. Work programme and cost of project

The programme ahead allows for 1,000ft of exploratory diamond drilling to test an induced polarisation target.

Metallurgical investigations will be carried out as the drill cores become available from this programme, including grinding, flotation, magnetic separation and ancillary tests; chemical analysis of ores and test products; analysis for Ni, Cu, Fe, S and associated metals. Mineralogical studies of ores and test products will be undertaken by microscopic work and electron-probe micro-analysis.

• ADMINISTRATIVE AREAS IN RIOFINEXS SECTOR

- 1 Arthrath - Dudwick
- 2 Kinharachie
- 3 Balquhidderie
- 4 Belhelvie
- 5 Crichie
- 6 Forest of Deer
- 7 Haddo
- 8 Maud
- 9 Oldmeldrum
- 10 Udny
- 11 Quilquo
- 12 West Haddo
- 13 Strichen - Crimond
- 14 Newburgh
- 15 Inverurie - Straloch
- 16 Longside - Peterhead
- 17 Cruden
- 18 Slains



Application for contributions under the Mineral Exploration and Investment Grants Act 1972.

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Geological Report: Forest of Deer AE41

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During the period 9th August - 31st December 1971, geological, geochemical and geophysical work was undertaken on this project. Arising from this work, no drilling is now planned on the previously proposed site owing to discouraging survey results.

(i) Geology

A pitting programme was carried out to assess the molybdenum soil anomaly at Kinmundy. A total of 43 pits were dug, sampled and filled. From each, samples from 3 horizons were analysed geochemically for copper and molybdenum. It appears as though metals arise from uneconomic traces of sulphide mineralisation in granite. In an attempt to obtain additional geological information from the one outcrop (Greenmire Quarry) in the anomalous area, the old quarry was dewatered. Unfortunately the base was found to be silted up and no useful data were collected.

(ii) Geochemistry

Follow-up soil sampling was carried out over a geophysical target at Kinknockie. Samples analysed for copper, nickel and chrome showed values in the background range.

(iii) Geophysics

a) Induced Polarisation

An expanding three electrode array IP survey was conducted on one line across a conductor at Kinknockie. The results indicate the original anomaly arises from an underground metal pipe.

b) Magnetics

The vertical force magnetic field was recorded on a detailed survey at Kinmundy to assist the geological assessment of geochemical results from this area.

Enclosures

1. Data on pitting survey at Kinmundy.
- ✓2. Geochemical soil results from Kinknockie. (Cu, Cr, & Ni)
- ✓3. Induced polarisation profiles at Kinknockie. (Traverse location - S profile)
- ✓4. Results of vertical force magnetic field survey at Kinmundy.

Application for contributions under the Mineral Exploration  
and Investment Grants Act 1972.

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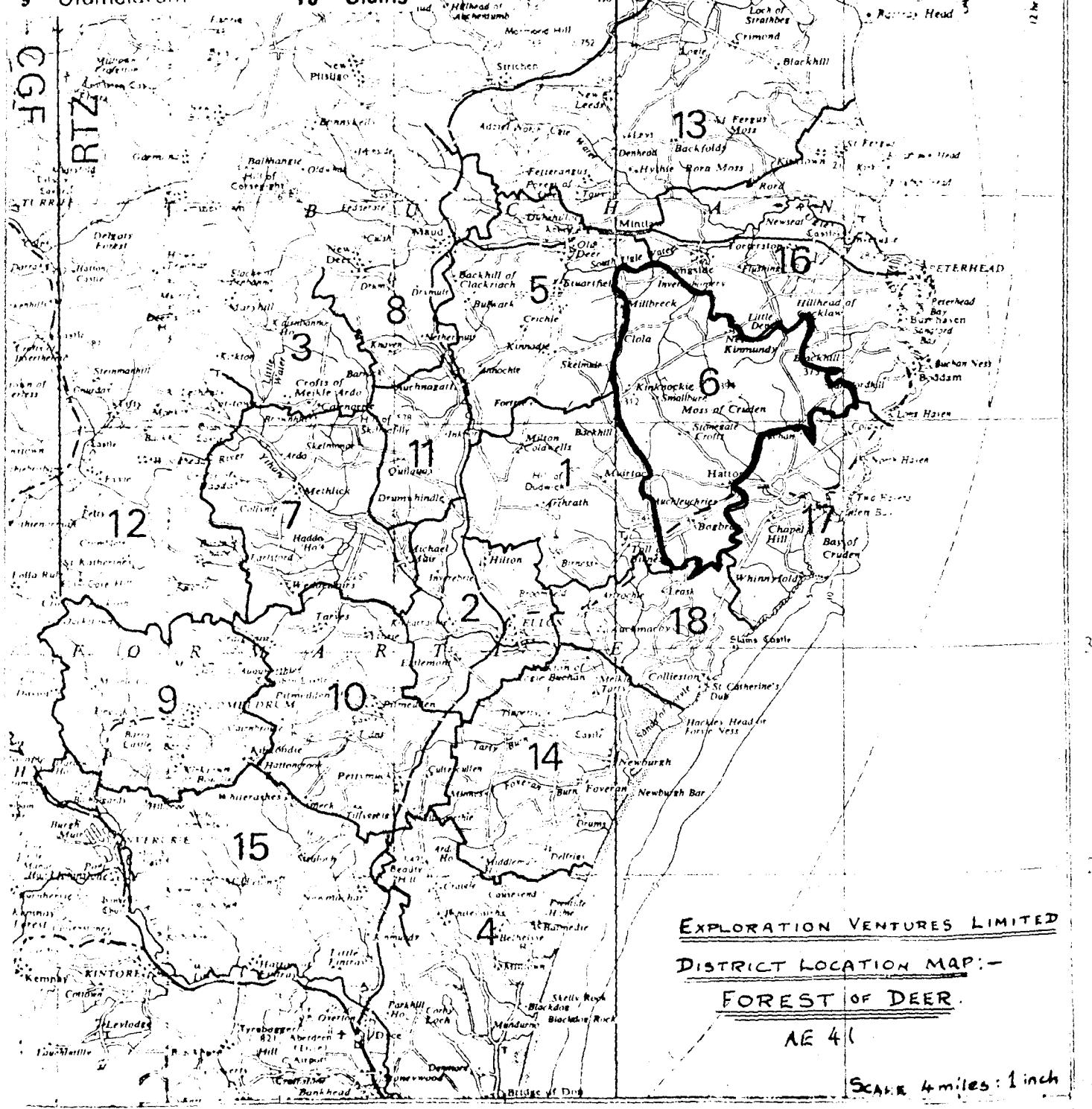
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ADMINISTRATIVE AREAS IN RICRINEXS SECTOR

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- 2 Kinharachie
- 3 Balquhindachie
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- 5 Cricchie
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- 7 Haddo
- 8 Maud
- 9 Oldmeldrum
- 10 Udny
- 11 Quilquoxt
- 12 West Haddo
- 13 Strichen - Crimond
- 14 Newburgh
- 15 Inverurie - Straloch
- 16 Longside - Peterhead
- 17 Cruden
- 18 Slains



# EXPLORATION VENTURES LTD.

TITLE

KINMUNDY, FOREST OF DEER : SOIL PITS

DIAGRAMMATIC SECTIONS SHOWING S.W. FACE WITH POSITIONS OF  
SOIL SAMPLES. CIRCLED SAMPLE POINTS WERE DESPATCHED FOR INITIAL ANALYSIS.

Scale $\frac{1}{2}$ " = 1 FT.	Prepared A.M.	Drawn A.M.	FIG. No. 6
O.S. Sheet No.	Revised	Date DEC 1971	

## PIT 1

SCALE  $\frac{1}{2}'' = 1 \text{ ft.}$ 

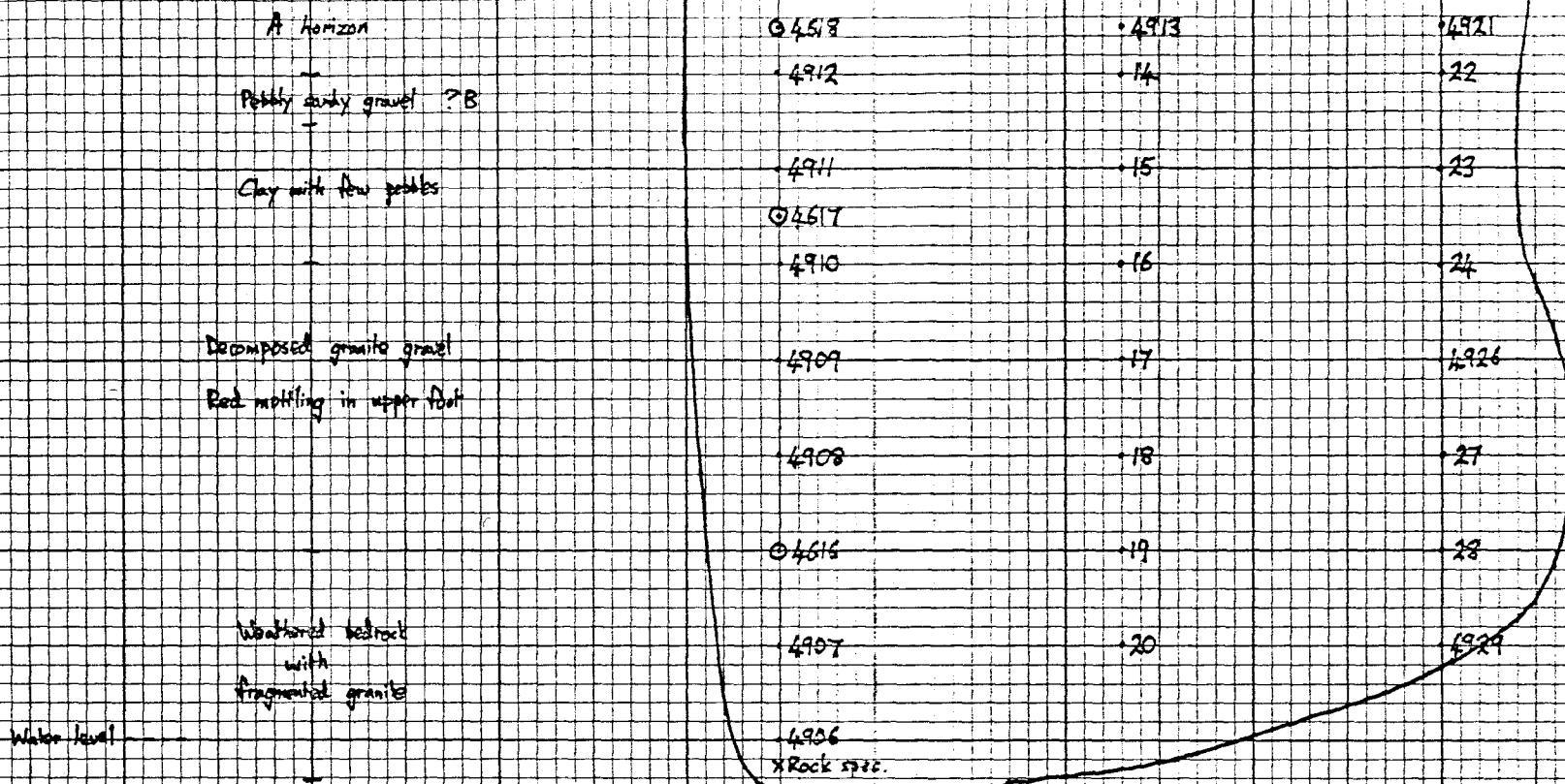
A horizon  
—  
Sandy gravel  
with  
gravel chips  
—  
Decomposed granite  
Water level —  
Bedrock  
(red granite)

## SECTION OF S.W. FACE

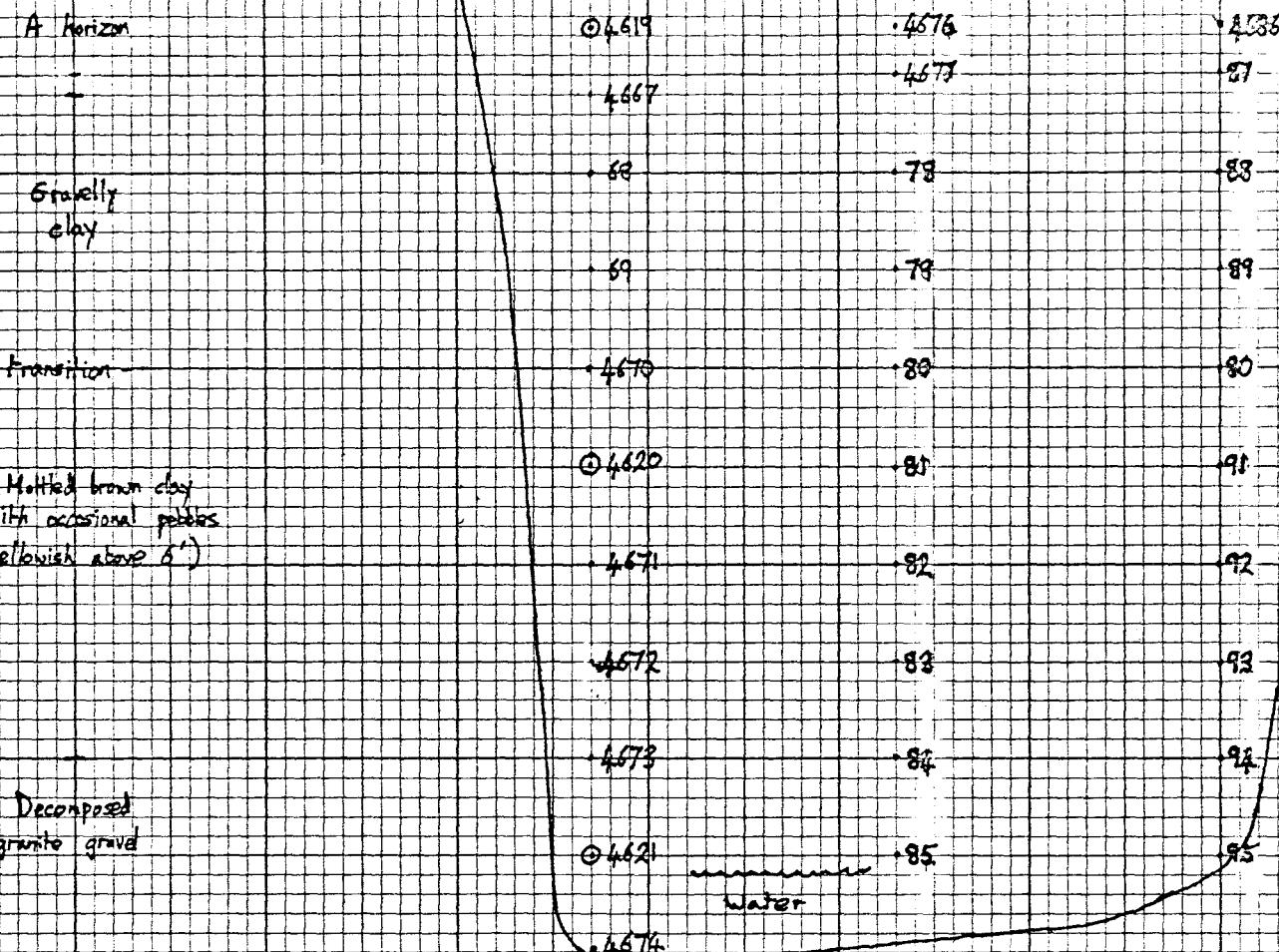
: 4862      : 4657      Ø 4613  
   63            • 58            • 4654  
   64            • 59            Ø 4614  
   65            • 60            • 4655  
   4666          • 61            Ø 4615  
                  \* Rock spec.      • 4656

Circled sample  
indicate sample  
for initial analysis

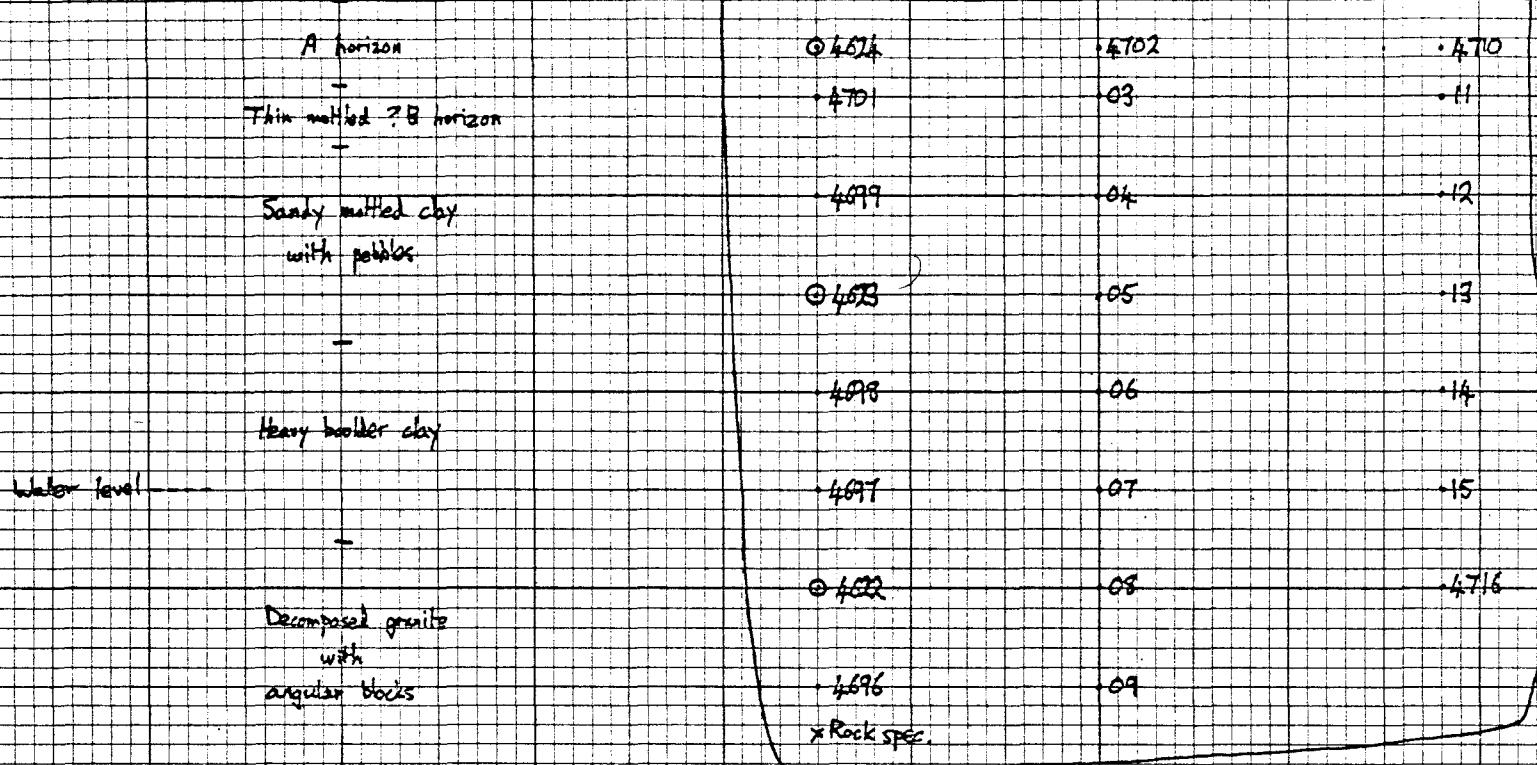
PIT 2



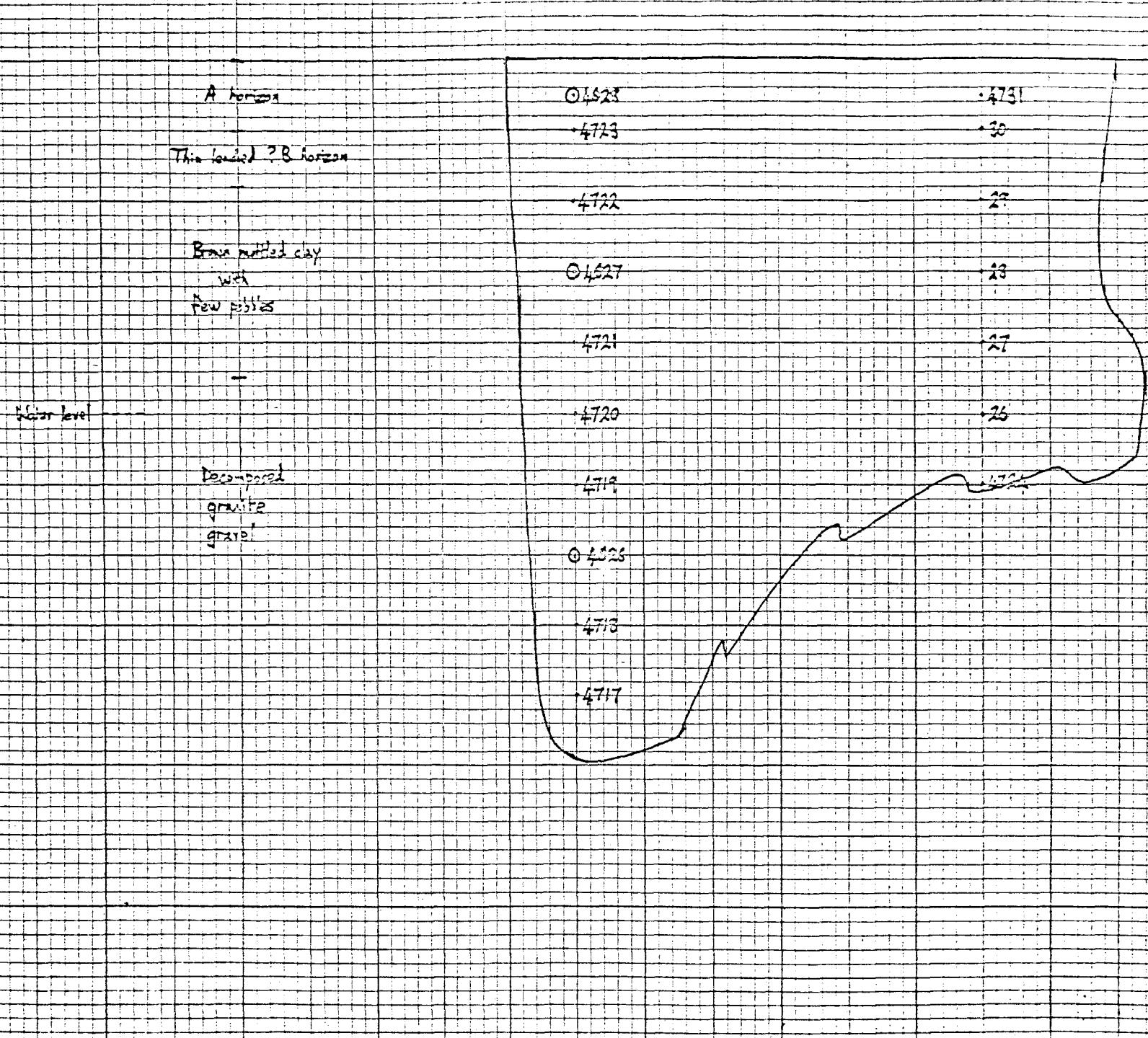
## PIT 3

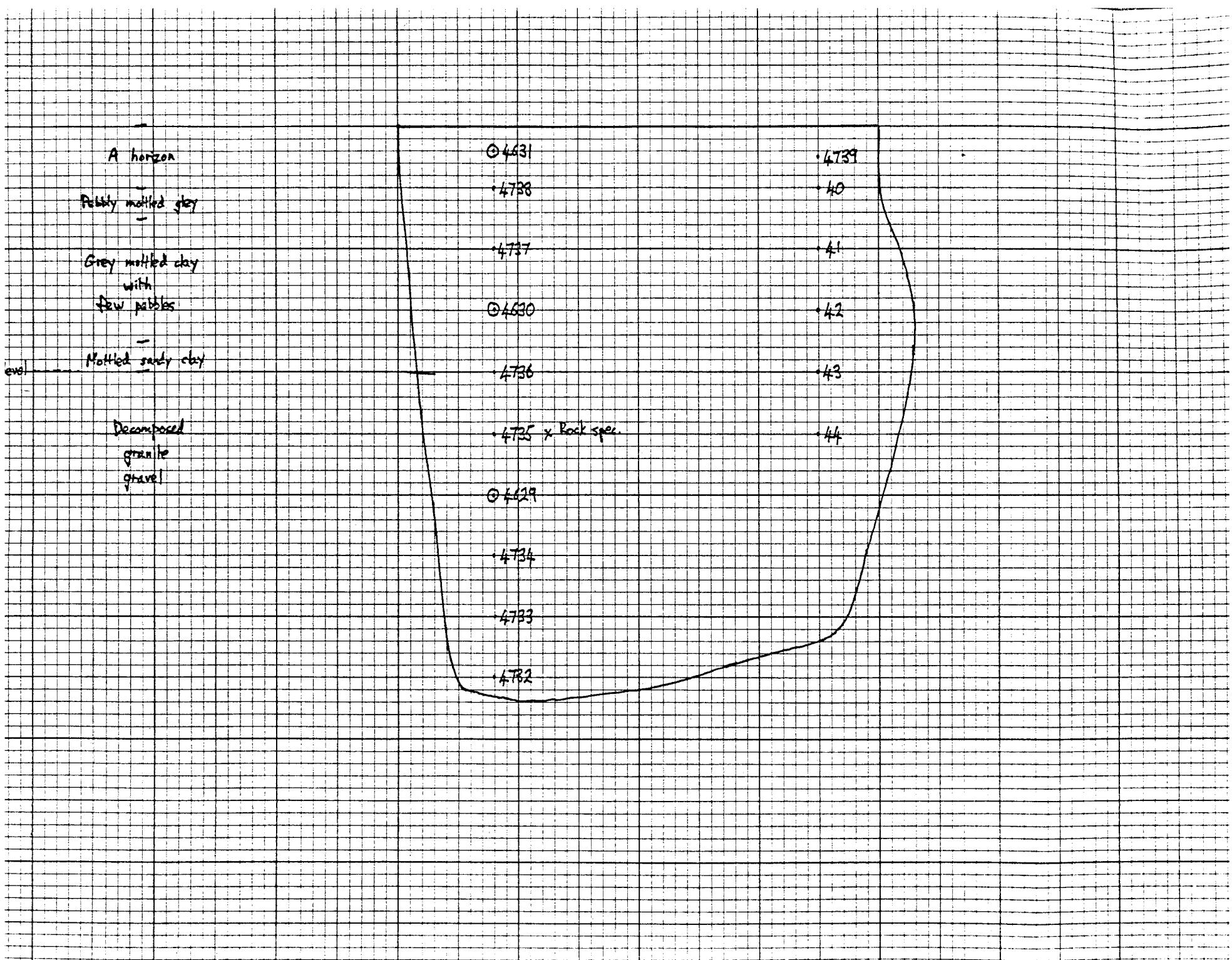


# PIT 4

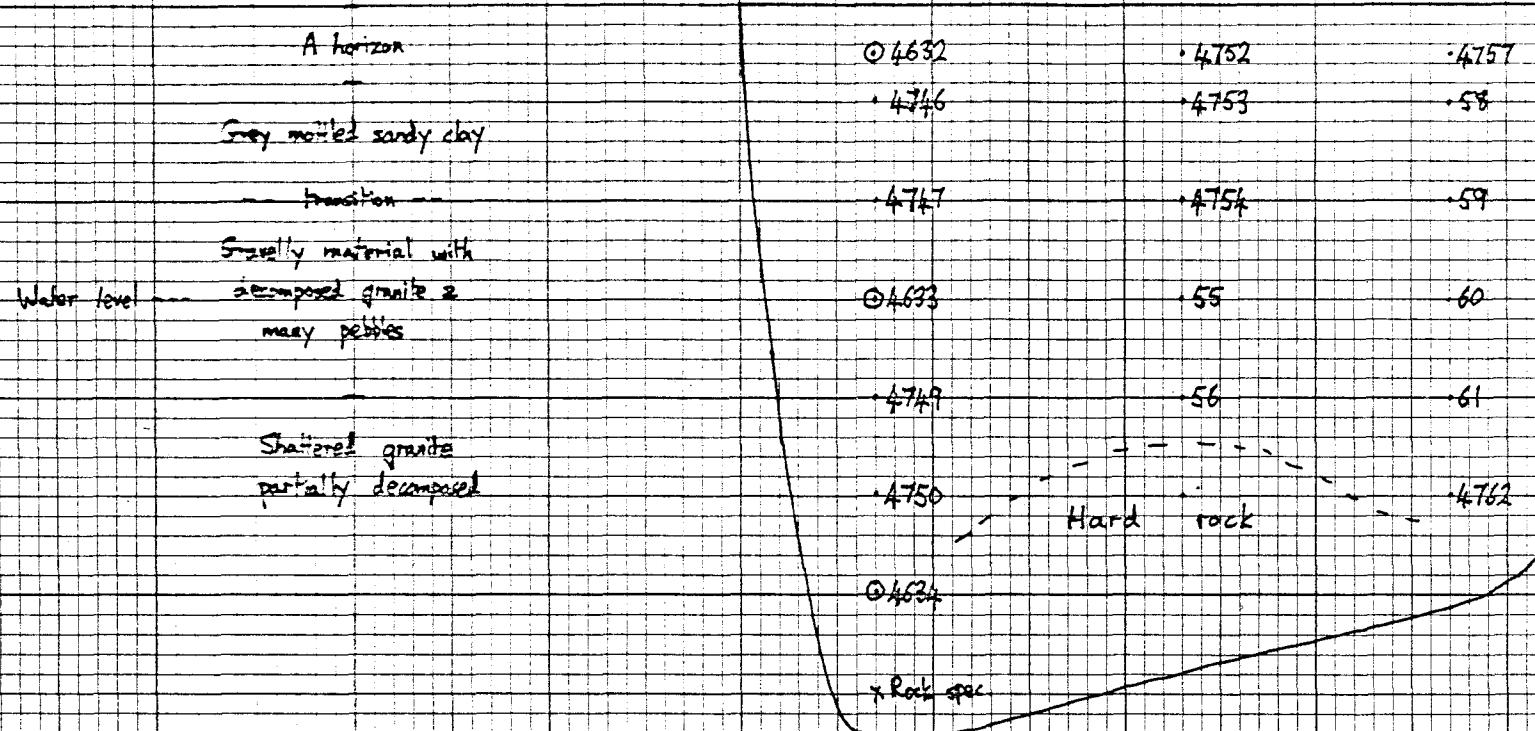


PIT 5

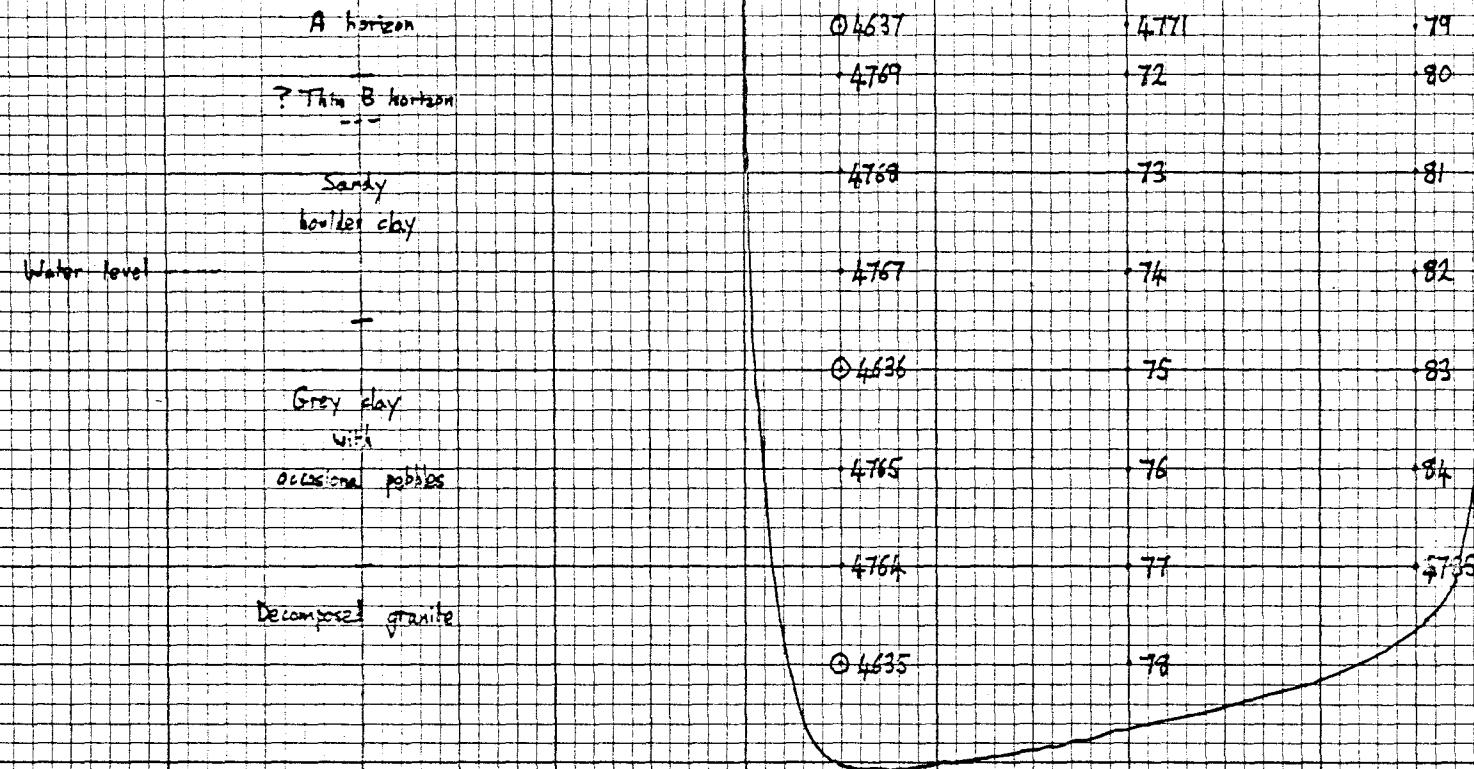




PIT 7



## PIT 8



A horizon  
+  
Brown clayey B horizon

Water level ---

Sandy pebbly  
clay

Decomposed granite

04640

+4789

.4791

.4796

.92

.97

04639

.93

.98

+4787

.94

.99

04638

.95

? +4800

..... Water

A horizon

Yellow/brown mottled clay  
with some pebbles  
becoming sandy at top

Grey clayey material:  
decomposed granite

NO WATER

① 4641

• 4802

• 4803

• 4804

② 4642

• 4805

• 07

• 08

• 4807

③ 4643

• 4811

• 4812

• 4813

• 14

• 15

• 16

• 17

• 18

• 19

• 20

• 21

• 22

• 23

• 24

• 25

• 4826

• 27

• 28

• 29

• 30

• 31

• 32

• 33

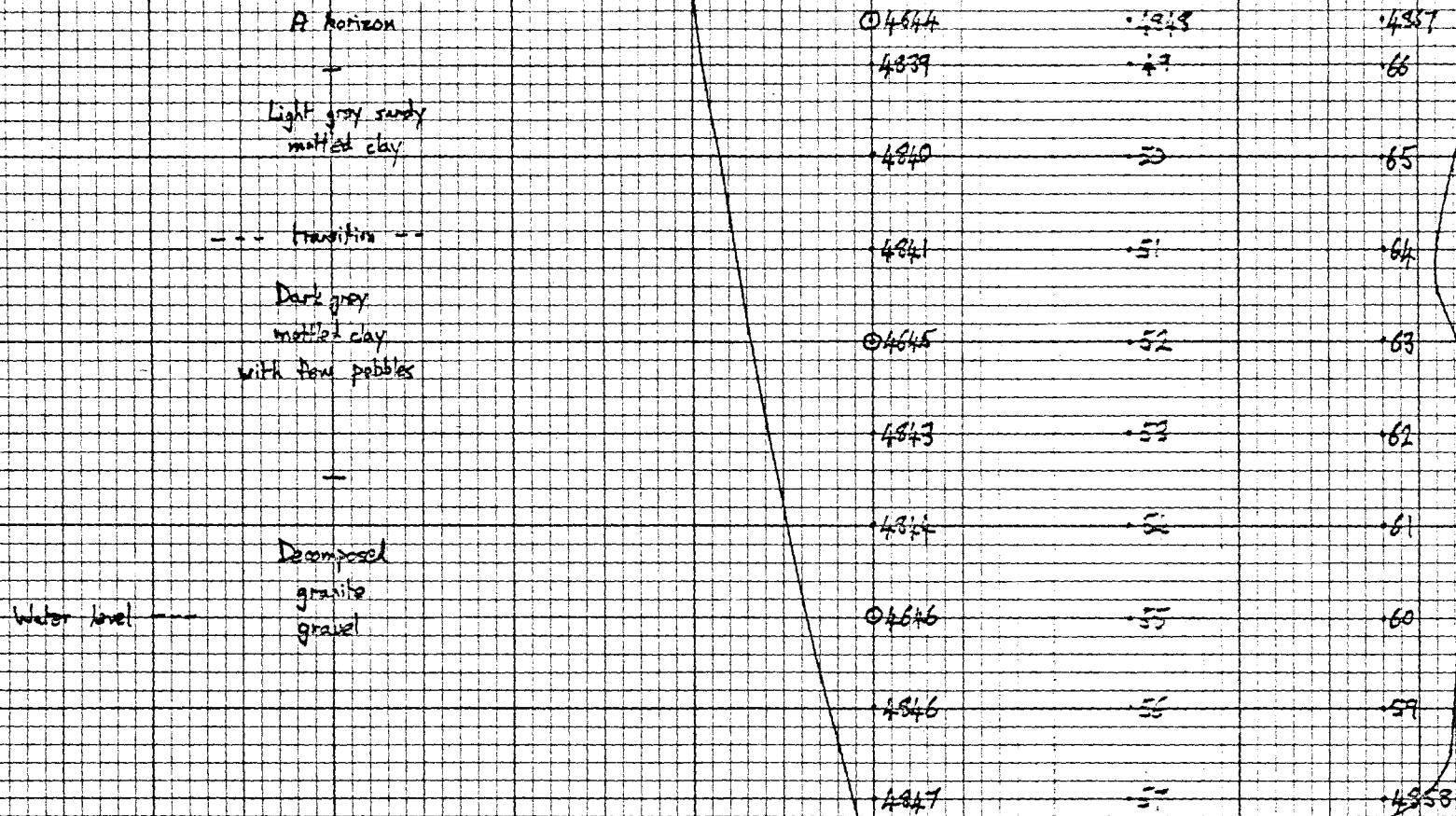
• 34

• 35

• 36

Decomposed  
rock X 4837  
spec.

# PIT 11



PIT 12

A horizon

Light brown mottled clay  
with few pebbles

Decomposed  
granite  
gravel

NO WATER

① 4647

4869

4870

① 4648

4872

4873

① 4649

4875

4876

4577

78

79

80

81

82

83

84

85

4836

87

88

89

90

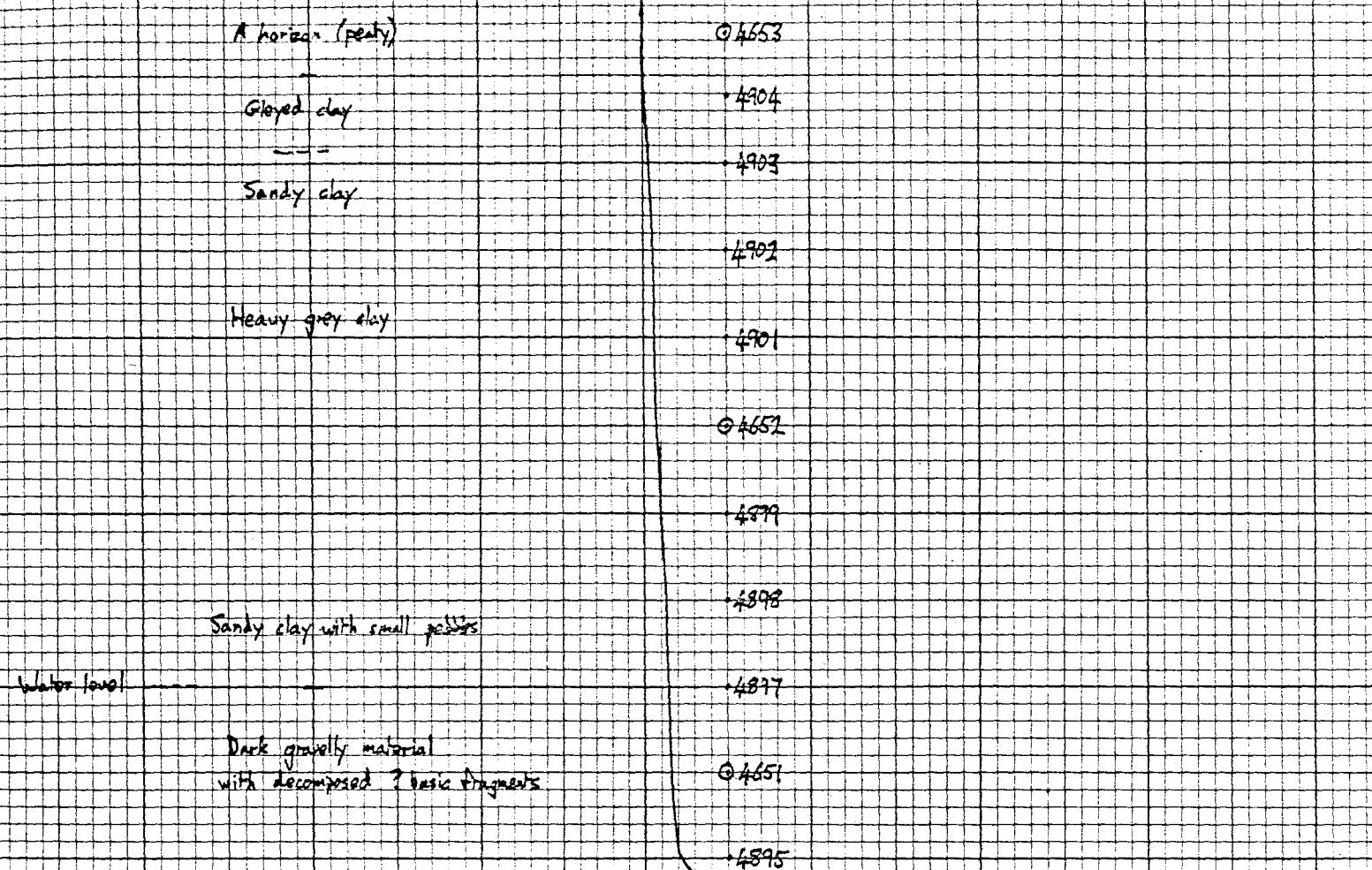
91

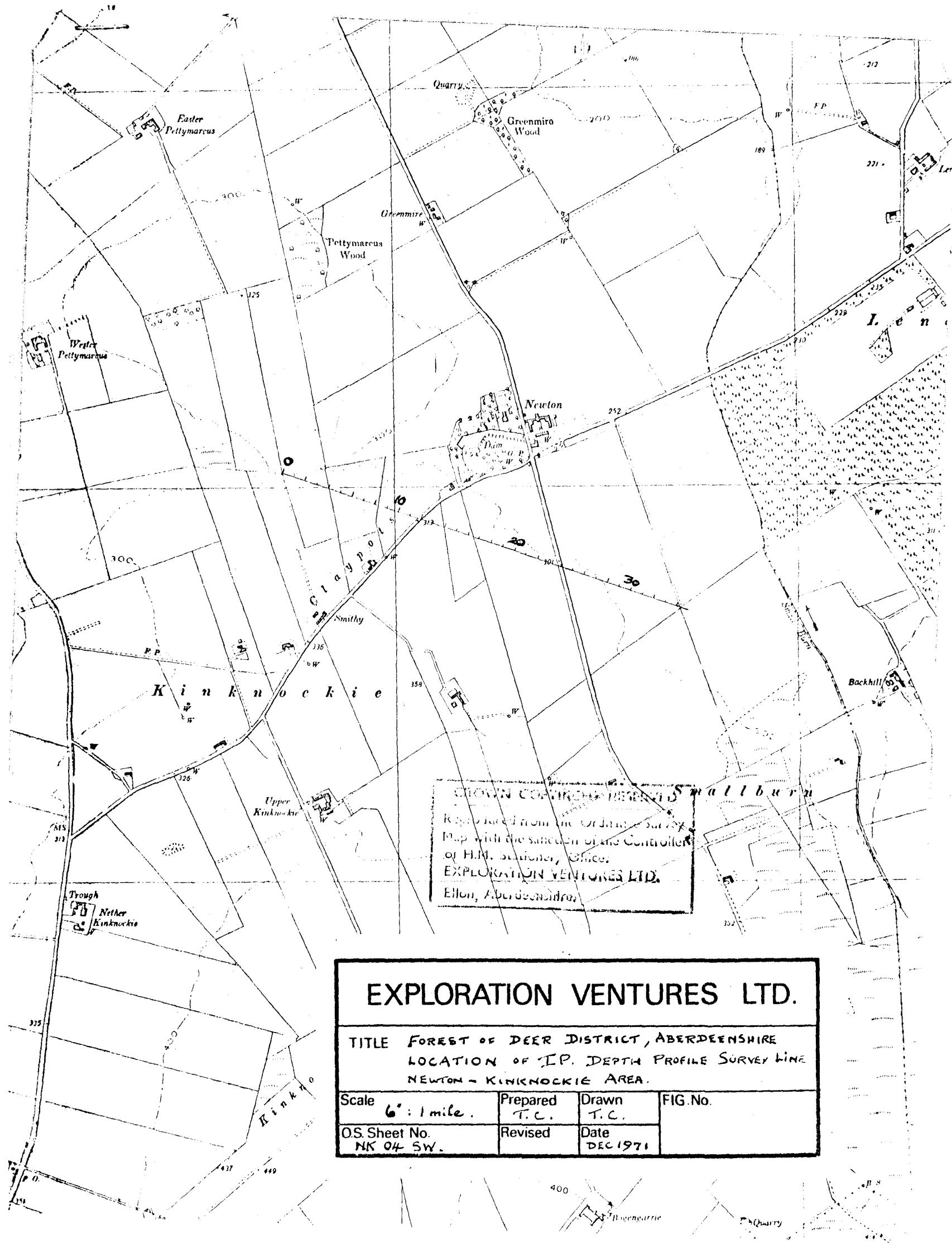
92

93

4894

PIT 3





NEWTON - KINMUNDY

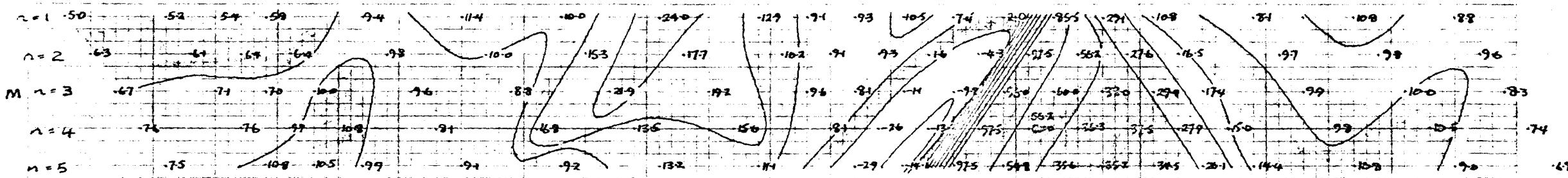
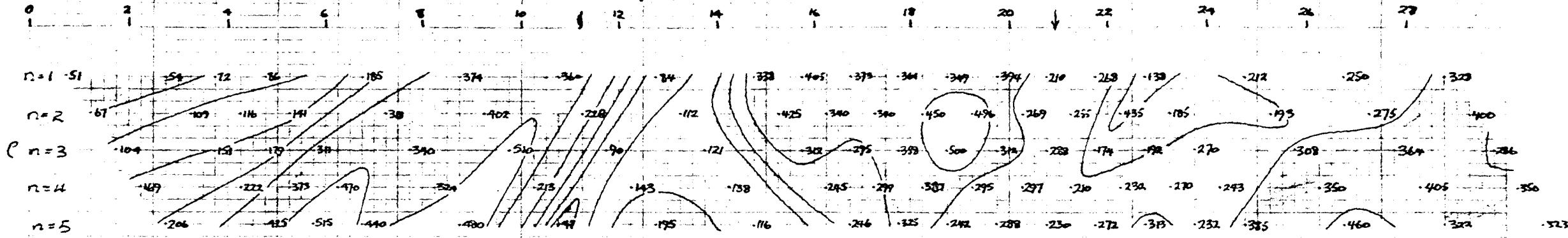
POLE-DIPOLE

$\Delta = 100'$  N° 1-5

road  
↓ gas pipe

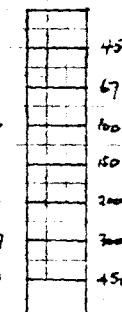
LEAD PIPE

road.



CHARGEABILITY m

(Milliseconds)



APPARENT RESISTIVITY  
(OHM METRES).

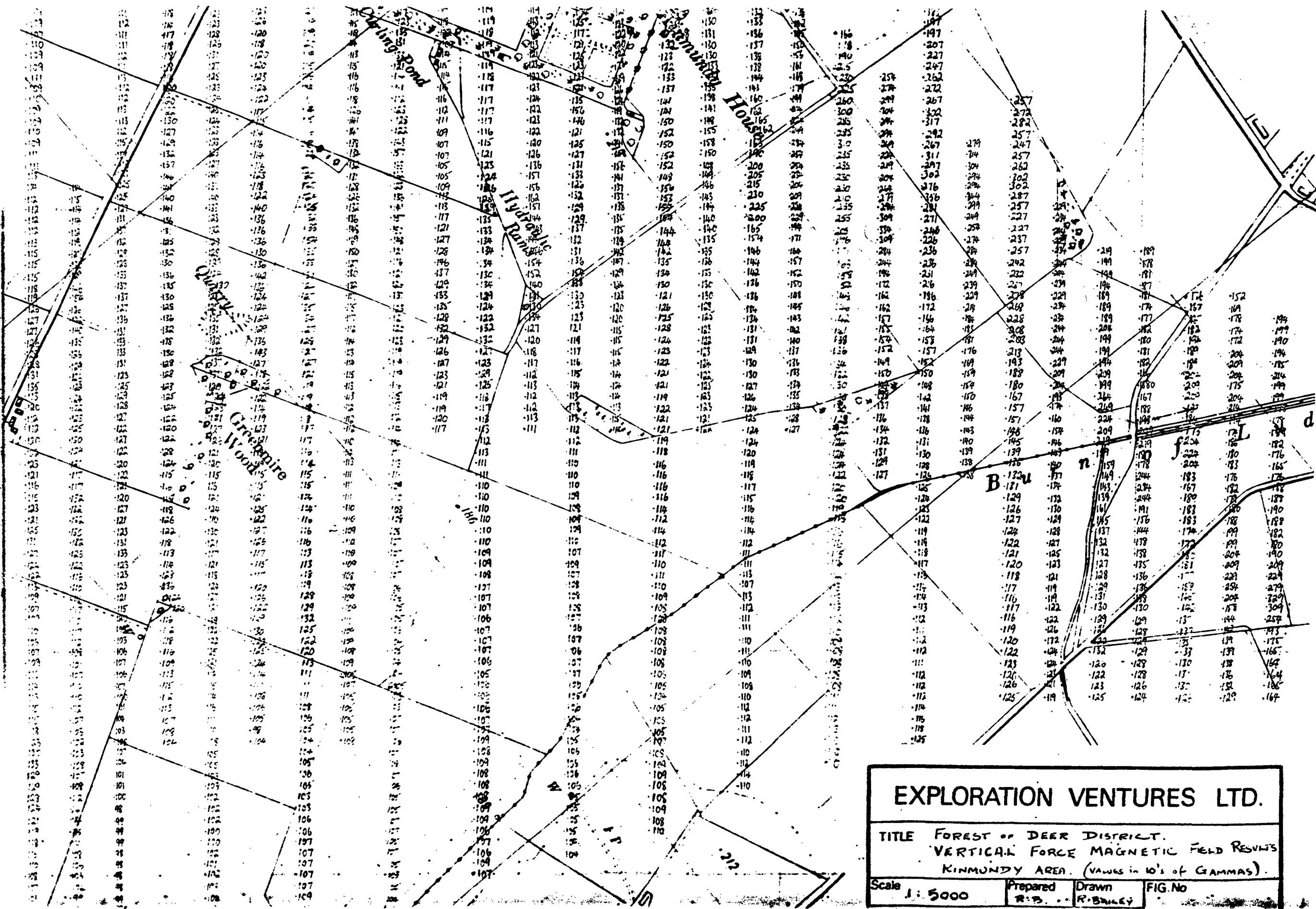
SCALE  
200 feet.

## EXPLORATION VENTURES LTD.

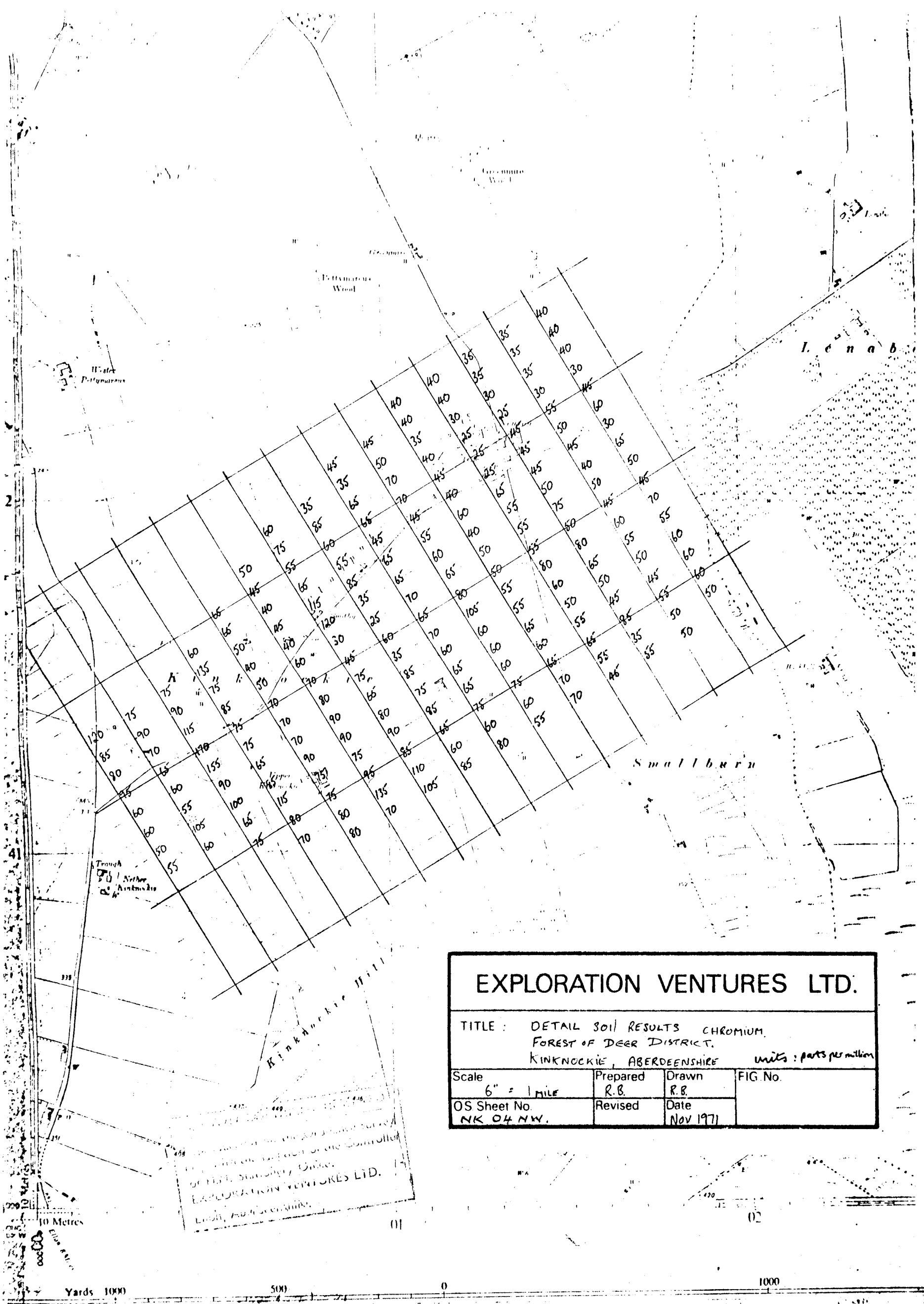
TITLE FOREST OF DEER DISTRICT, ABERDEENSHIRE.  
INDUCED POLARISATION DEPTH PROFILES.

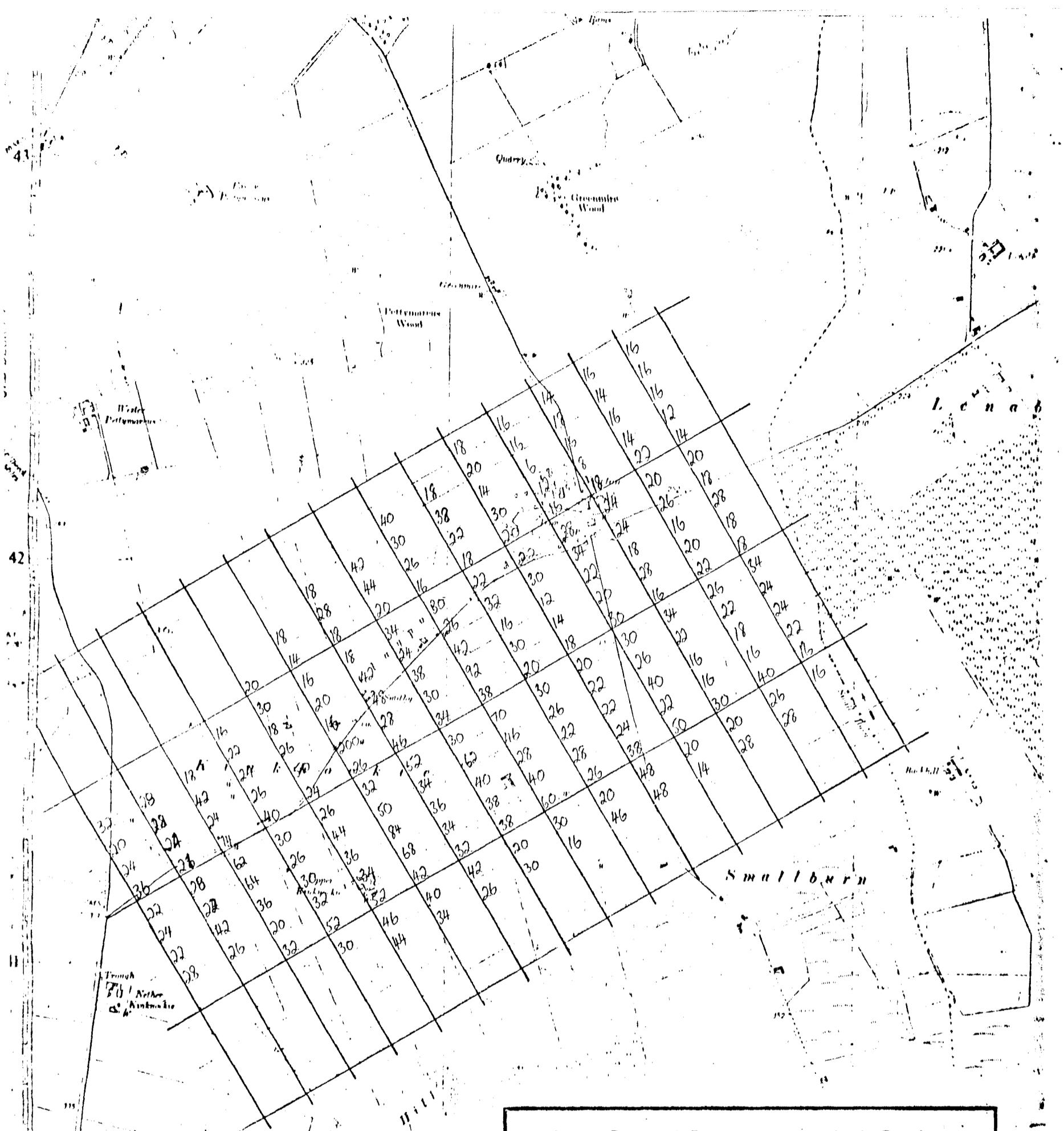
NEWTON - KINKNOCKIE AREA.

Scale	Prepared T.C.	Drawn 1:100000	FIG. No.
OS Sheet No. located in NK01SW	Revised	Date D.E. 1971	









## EXPLORATION VENTURES LTD.

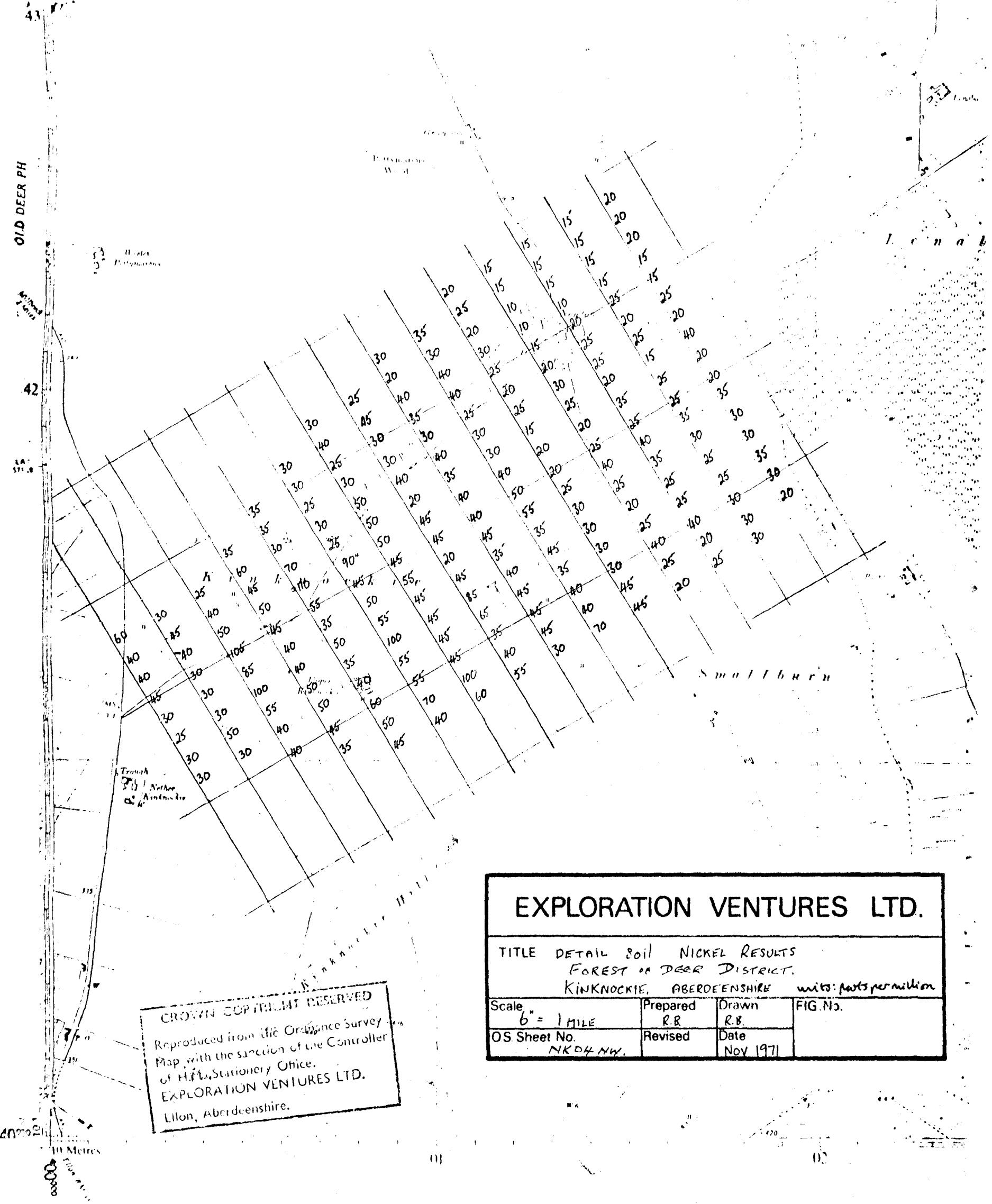
TITLE DETAILED SOIL COPPER RESULTS FOREST OF DEER DISTRICT. KINKNOCKIE, ABERDEENSHIRE units: parts per million			
Scale 6" = 1 MILE	Prepared R.B.	Drawn R.B.	FIG. No.
OS Sheet No. NK 04 NW.	Revised	Date NOV 1971	

Yards 1000

500

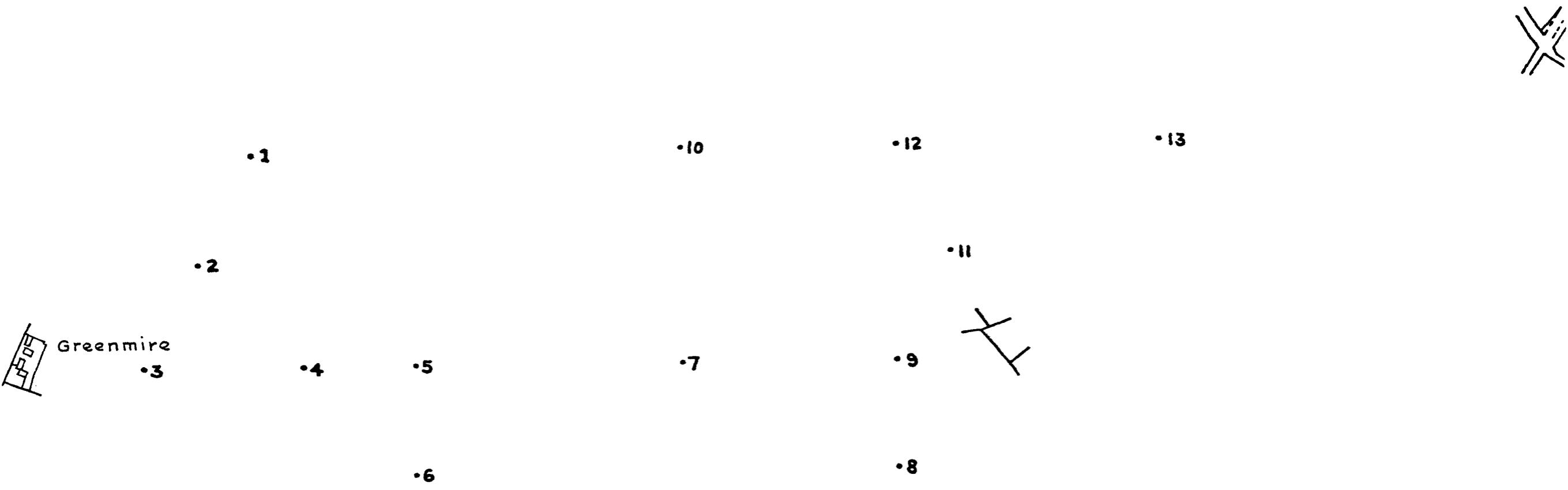
0

1000



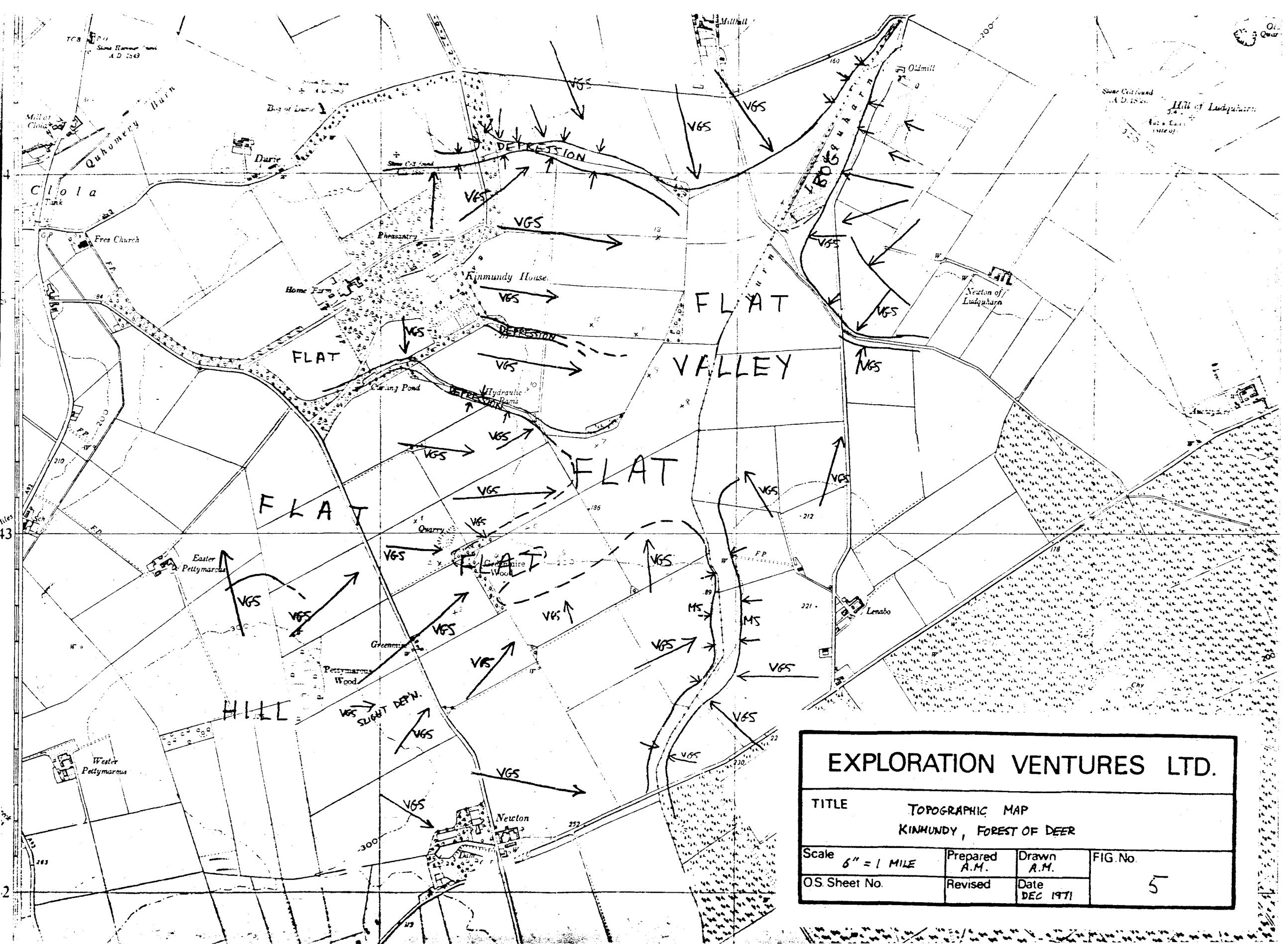
# **EXPLORATION VENTURES LTD.**

TITLE DETAIL Soil NICKEL RESULTS  
 FOREST OR DEER DISTRICT.  
 KINKNOCKIE, ABERDEENSHIRE units: parts per million  
 Scale 6" = 1 MILE Prepared R.R. Drawn R.R. FIG. NO.  
 OS Sheet No. Revised Date Nov 1971  
 NK04 NW.



KINMUNDY, FOREST OF DEER  
Overlay showing positions of Pits  
Scale - 1:5,000      A.M. Dec. 1971

Fig. 3A



# **EXPLORATION VENTURES LTD.**

**TITLE**

# TOPOGRAPHIC MAP

## KINHUNDY, FOREST OF DEER

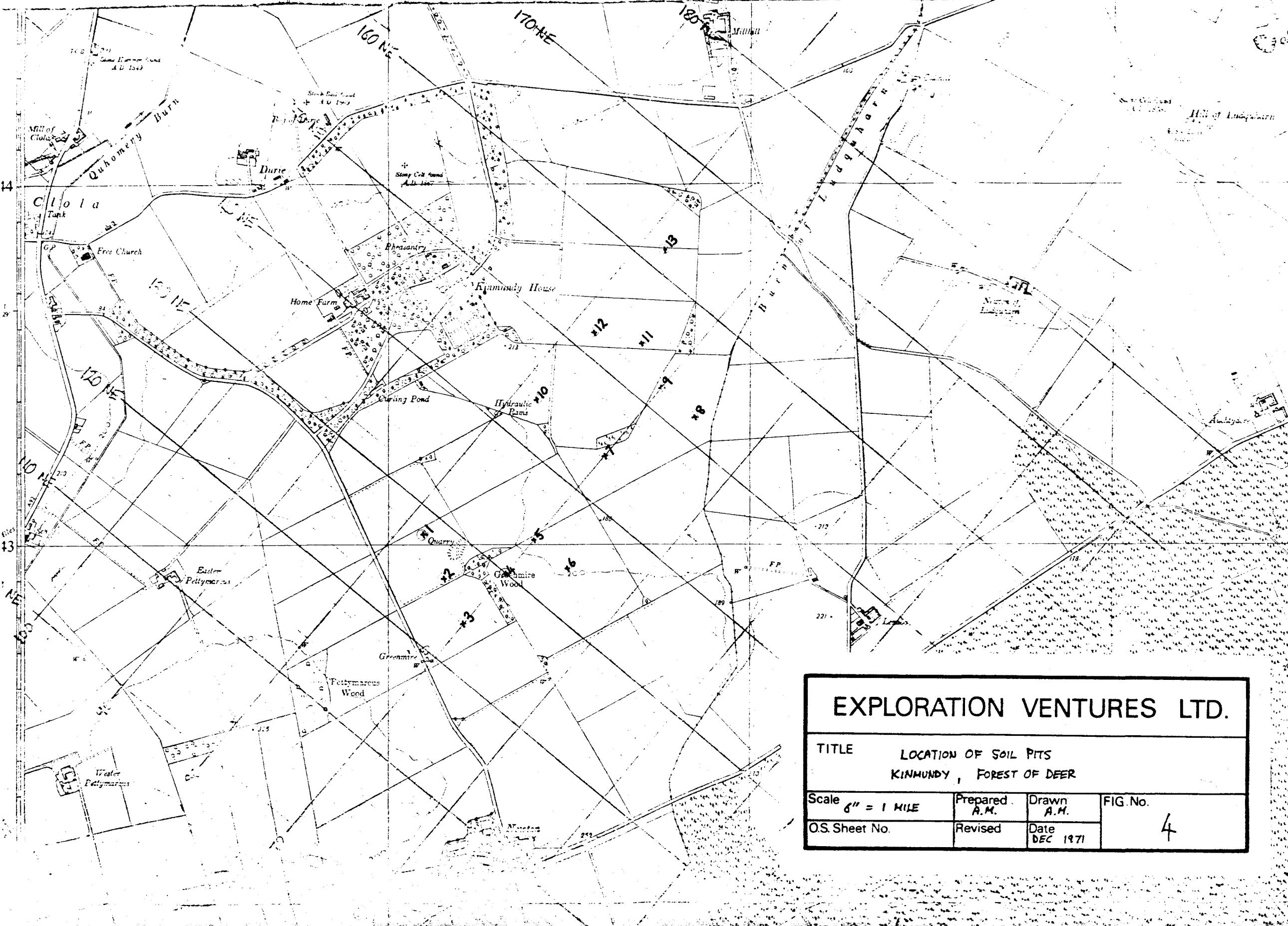
Scale 6" = 1 MILE

Prepared  
14

awn

FIG. No.

5



## EXPLORATION VENTURES LTD.

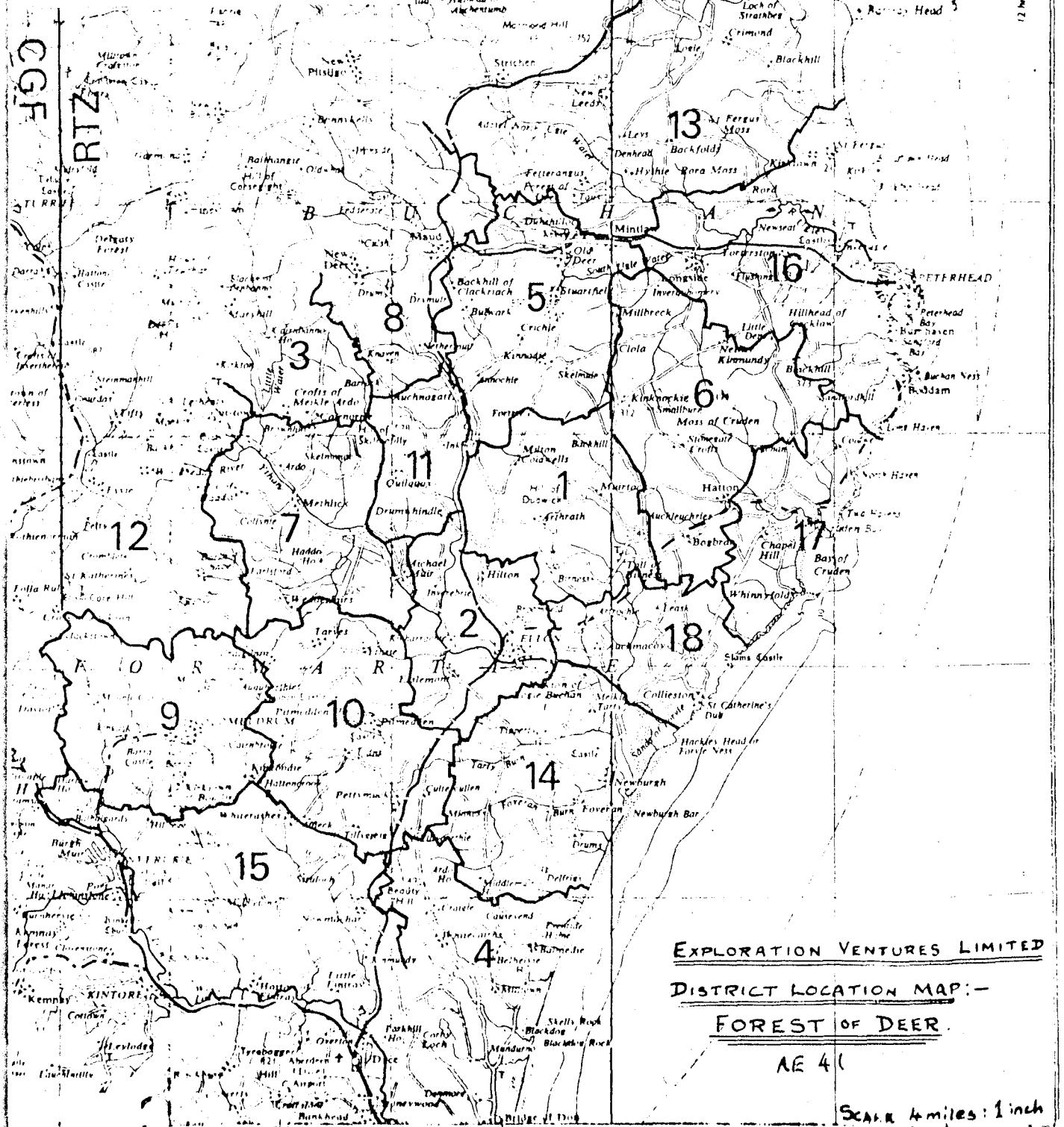
TITLE	LOCATION OF SOIL PITS KINMUNDY, FOREST OF DEER		
Scale 6" = 1 MILE	Prepared A.M.	Drawn A.M.	FIG.No.
O.S. Sheet No.	Revised	Date DEC 1971	4

## **• ADMINISTRATIVE AREAS IN RIOHINEXS SECTOR**

- |          |                           |           |                                |
|----------|---------------------------|-----------|--------------------------------|
| <b>1</b> | <b>Arthrath - Dudwick</b> | <b>10</b> | <b>Udny</b>                    |
| <b>2</b> | <b>Kinharrachie</b>       | <b>11</b> | <b>Quilquox</b>                |
| <b>3</b> | <b>Balquhindachie</b>     | <b>12</b> | <b>West Haddo</b>              |
| <b>4</b> | <b>Belhelvie</b>          | <b>13</b> | <b>Strichen - Crimond</b>      |
| <b>5</b> | <b>Crichie</b>            | <b>14</b> | <b>Newburgh</b>                |
| <b>6</b> | <b>Forest of Deer</b>     | <b>15</b> | <b>Inverurie - Straloch</b>    |
| <b>7</b> | <b>Haddo</b>              | <b>16</b> | <b>Longside - Peterhead</b>    |
| <b>8</b> | <b>Maud</b>               | <b>17</b> | <b>Cruden <sup>Laird</sup></b> |
| <b>9</b> | <b>Oldmeldrum</b>         | <b>18</b> | <b>Slains</b>                  |

1

CROWN EMBROIDERY REGISTERED



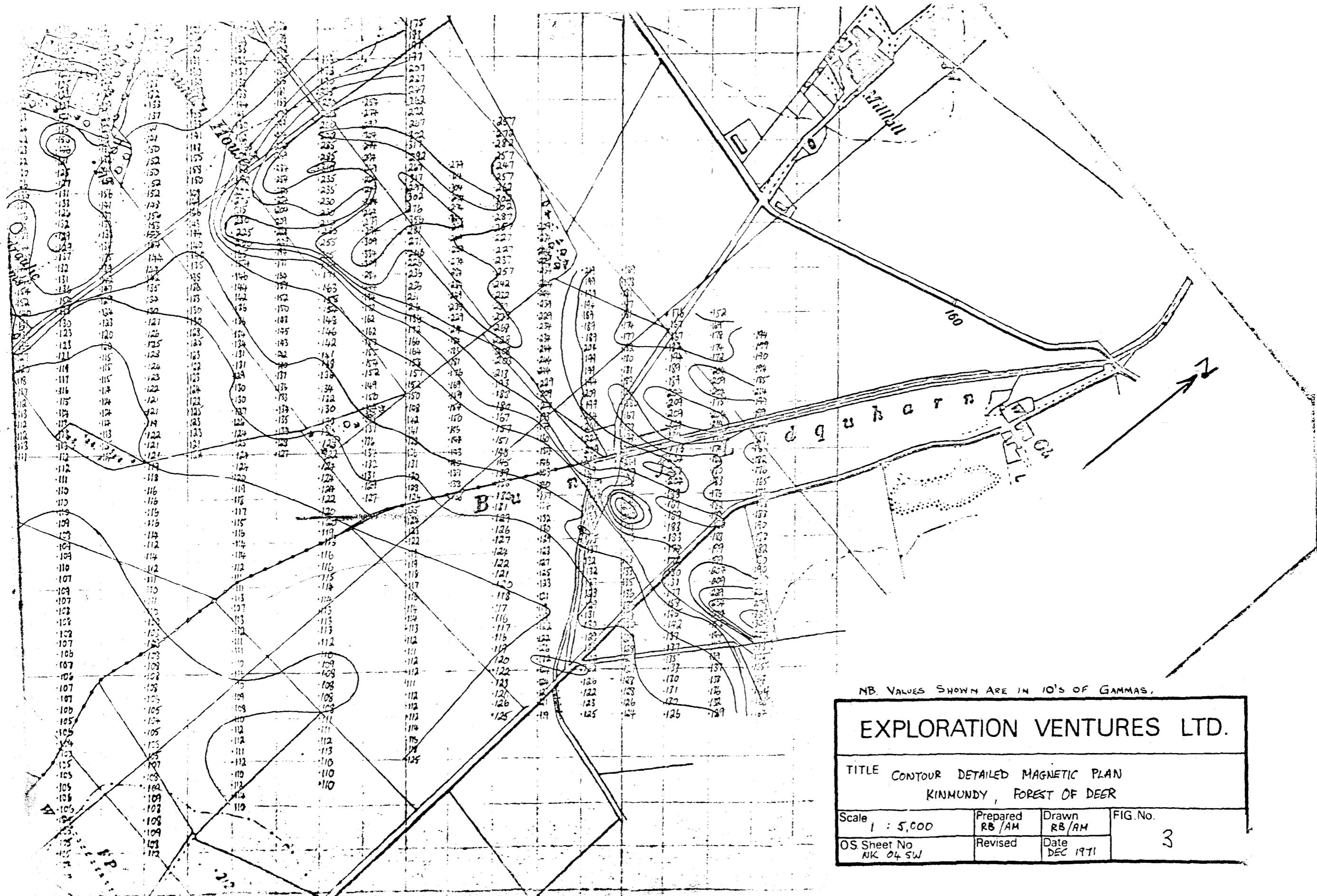
EXPLORATION VENTURES LIMITED

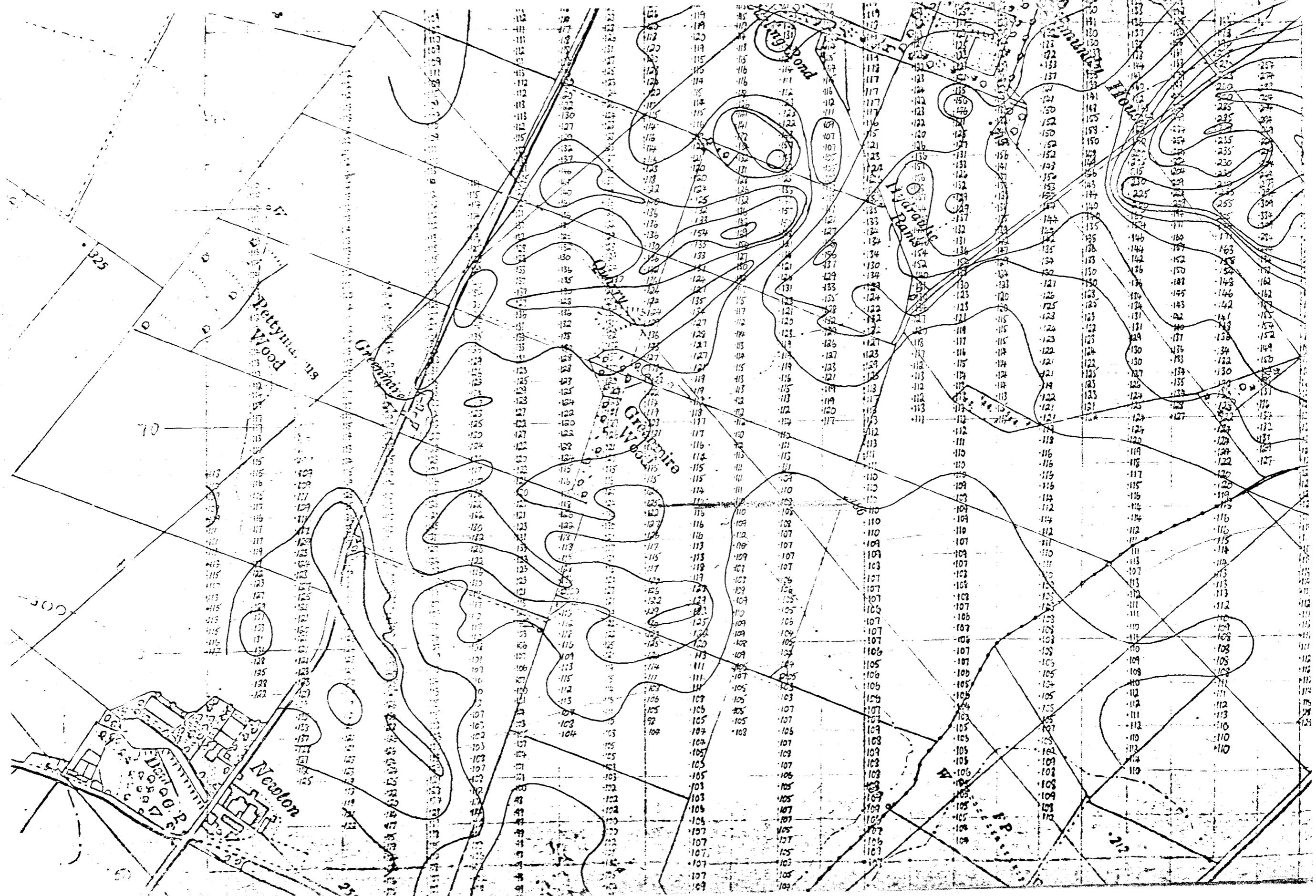
### DISTRICT LOCATION MAP:-

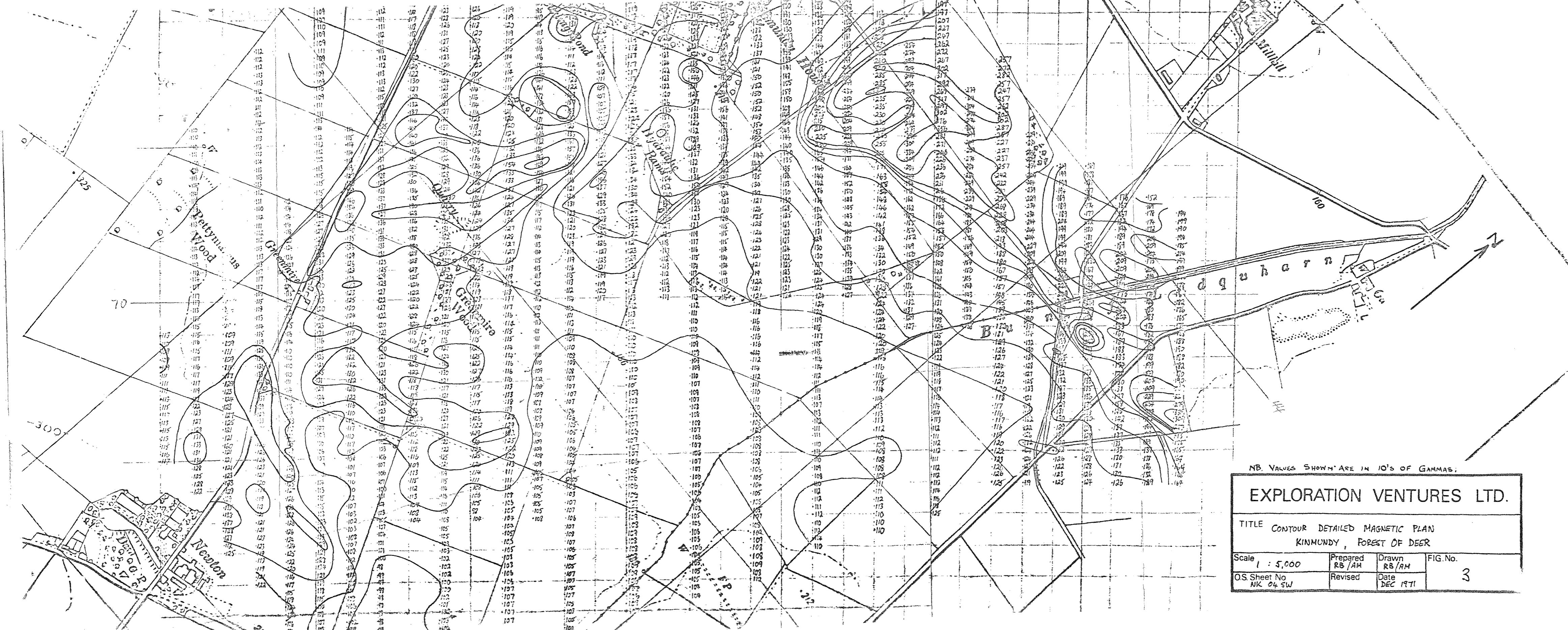
# FOREST OF DEER

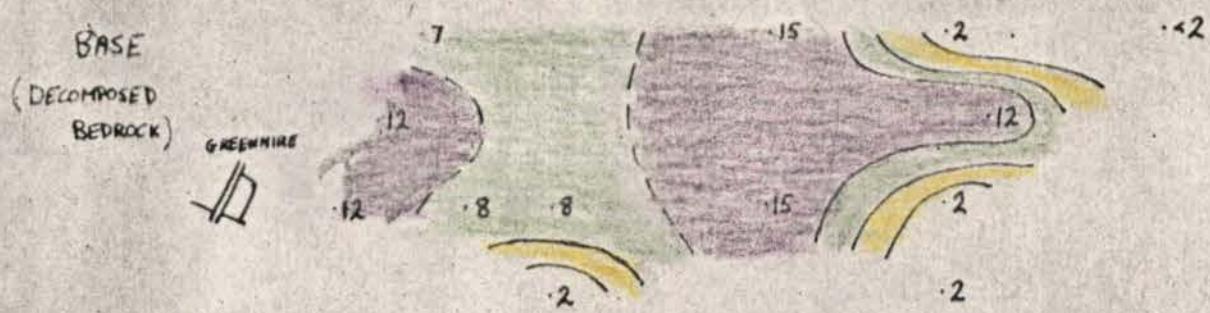
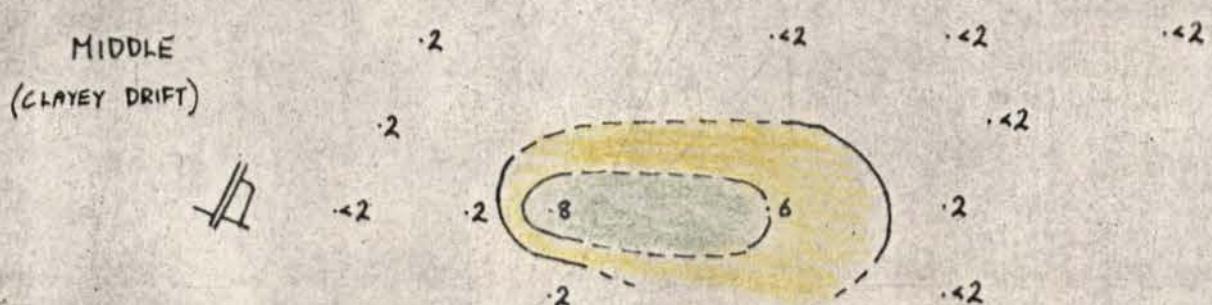
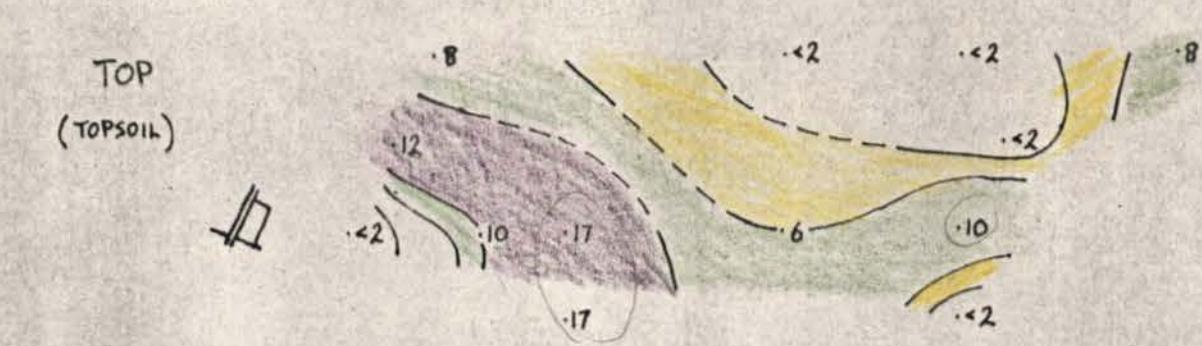
AE 41

Scale 4 miles : 1 inch





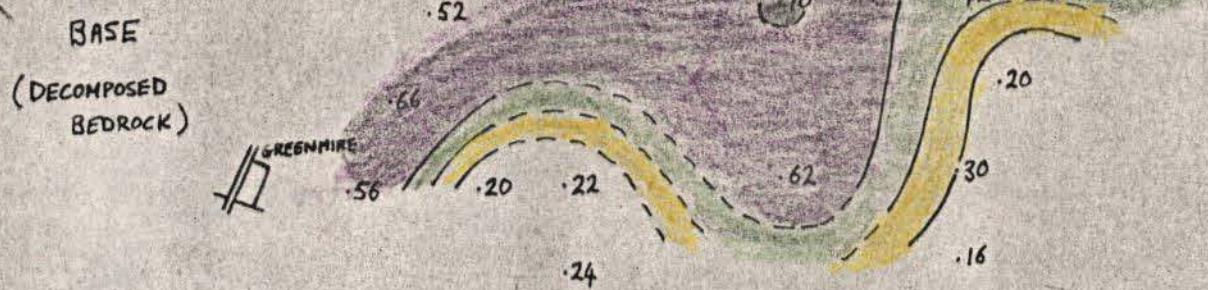
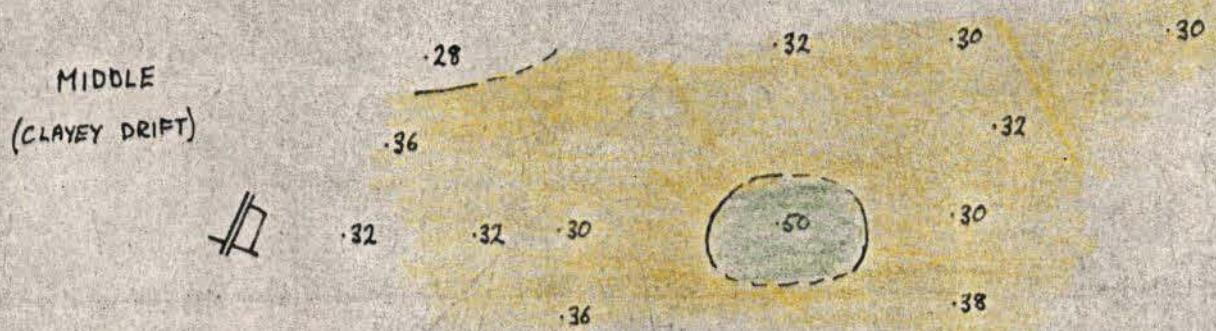
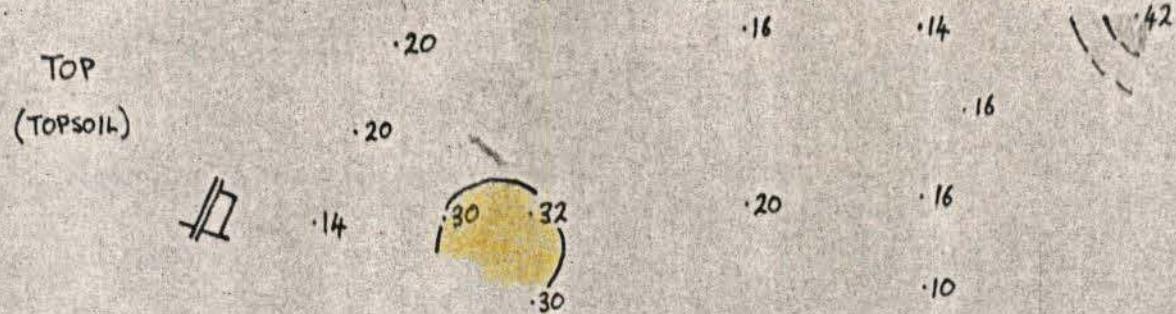




MOLYBDENUM RESULTS IN P.P.M.  
SOIL PITS, KINHUNDY, FOREST OF DEER

6" = 1 MILE A.M. DEC 1971

**Fig.8**

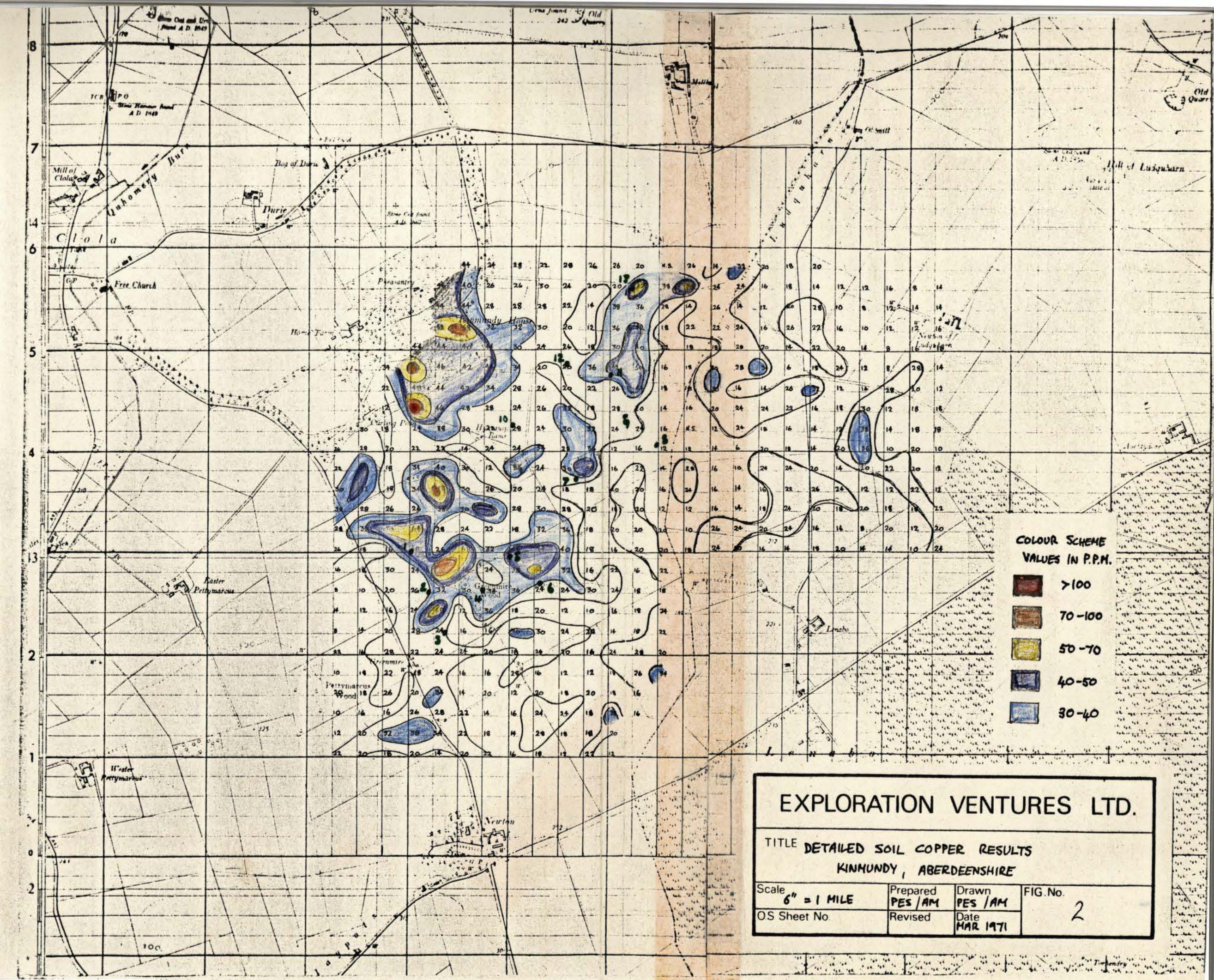


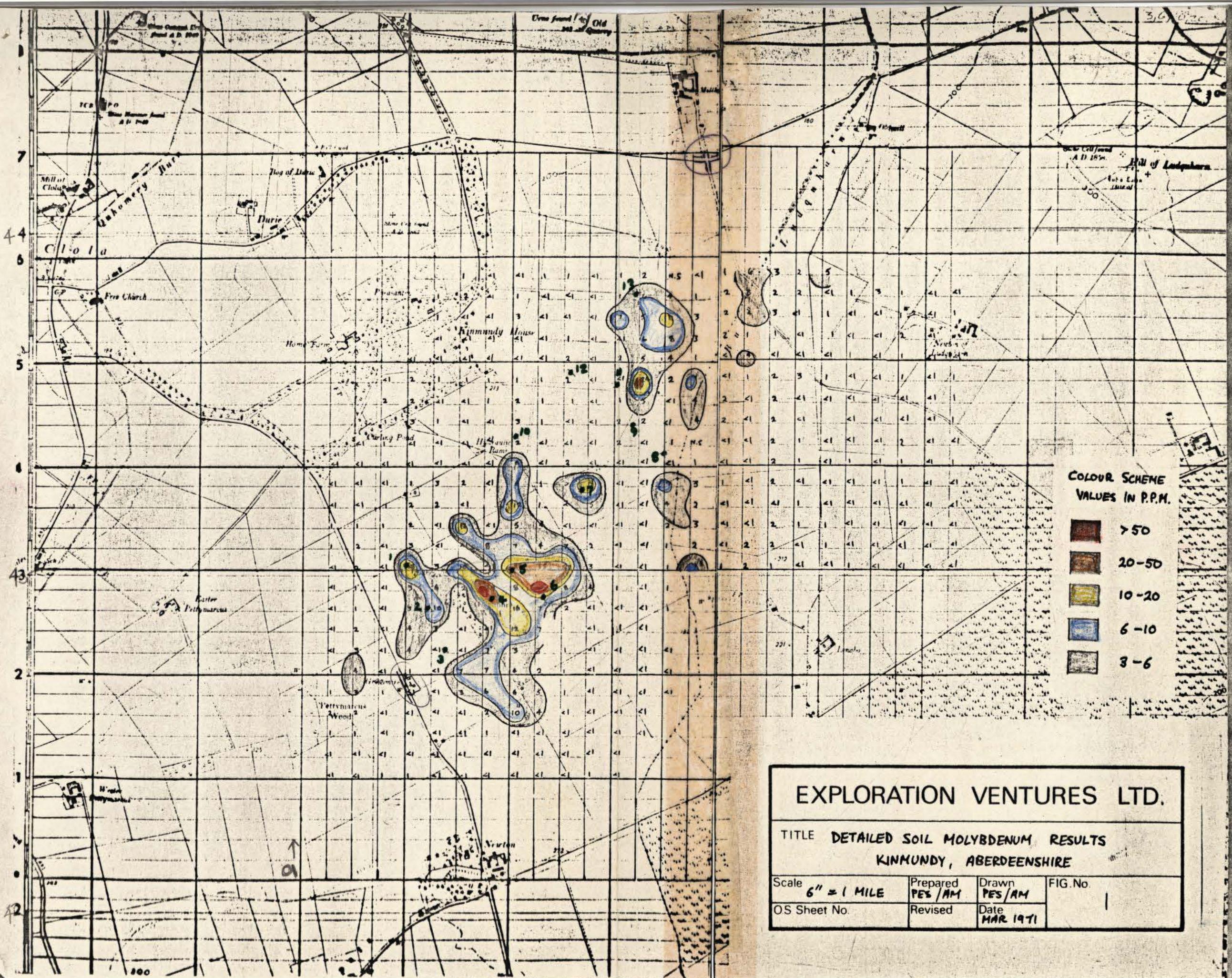
COPPER RESULTS IN P.P.M.  
SOIL PITS, KINMUNDY, FOREST OF DEER

6" = 1 MILE

A.H. DEC 1971

Fig. 7





EXPLORATION VENTURES LTD

(RIOFINEX)

1972 ACTIVITY REPORTTHE FOREST OF DEER DISTRICT (DTI Code AE 41)SUMMARY

A detailed IP traverse was run across a magnetically anomalous area where it was thought that previous IP work might not have assessed bedrock adequately due to drift problems.

1. GEOLOGY Nil
2. GEOCHEMISTRY Nil
3. GEOPHYSICS

A detailed 3 electrode array IP survey has failed to reveal a significant conductor. Except for a confused area of high and negative readings at the north end of the line, the chargeability values show little variation along the whole line, there being no anomalies co-incident with magnetic anomalies. The response at the north end of the line lies close to a complex of fences and farm buildings and is indicative of man-made interference.

4. DRILLING Nil

Enclosures

- (i) Location plan
- (ii) Chargeability and resistivity profiles

FINANCIAL ASSISTANCE FOR MINERAL EXPLORATION (M.E.I.G.A.)

COMPANY: EXPLORATION OF VENTURES LTD

REF: AE 41

MRD 84/5/24

PROJECT: FOREST OF DEER

MRD 144/5/24

The following Open File material is held by B.G.S. in London, Keyworth and Edinburgh. Available for public inspection from 16.10.80.

- Extract from application 6.8.71 "Outline of proposed project including geological considerations". With accompanying plan 1" : 4 miles
- Geological report 9 Aug to 31 Dec '71 with the following enclosures:
  - Fig 1 Detailed soil molybdenum results, Kinmundy. 6" : 1 mile.  
March '71
  - Fig 2 Detailed soil copper results, Kinmundy. 6" : 1 mile.  
March '71
  - Fig 3 Contour detailed magnetic plan Dec '71. 1 : 5,000 NK 04 SW
  - Fig 3A Overlay showing positions of pits. 1 : 5,000, Dec '71
  - Fig 4 Location of soil pits - 6" : 1 mile. Dec '71
  - Fig 5 Topographic map. 6" : 1 mile. Dec '71
  - Fig 6 Diagrammatic sections showing SW face with positions of soil samples.  $\frac{1}{2}$ " : 1 ft. Dec '71
  - Fig 7 Copper results - soil pits, Kinmundy. 6" : 1 mile.  
Dec '71
  - Fig 8 Molybdenum results - solid pits. 6" : 1 mile. Dec '71
  - Fig (i) Detailed soil results Kinknockie (3 sheets - Cr, Cu and Ni). Nov '71. NK 04 NW
    - (ii) Location of IP depth profile survey line Newton. 6" : 1 mile.  
NK 04 SW. Dec '71
    - \*(iii) IP depth profiles
    - (iv) Vertical force magnetic field results. 1 : 5000. NK 04 SW
- 1972 Activity report including
  - Fig 1 Location of 3 electrode array. Detailed IP survey at Auquharney NK 03 NW, 6" : 1 mile. Feb '72
  - Fig 2 IP detail Auquharney - Chargeability and resistivity profiles
- \* EVL soils research project. Summary of results
- \* Report on Exploration for Mo in East Aberdeenshire. March '73

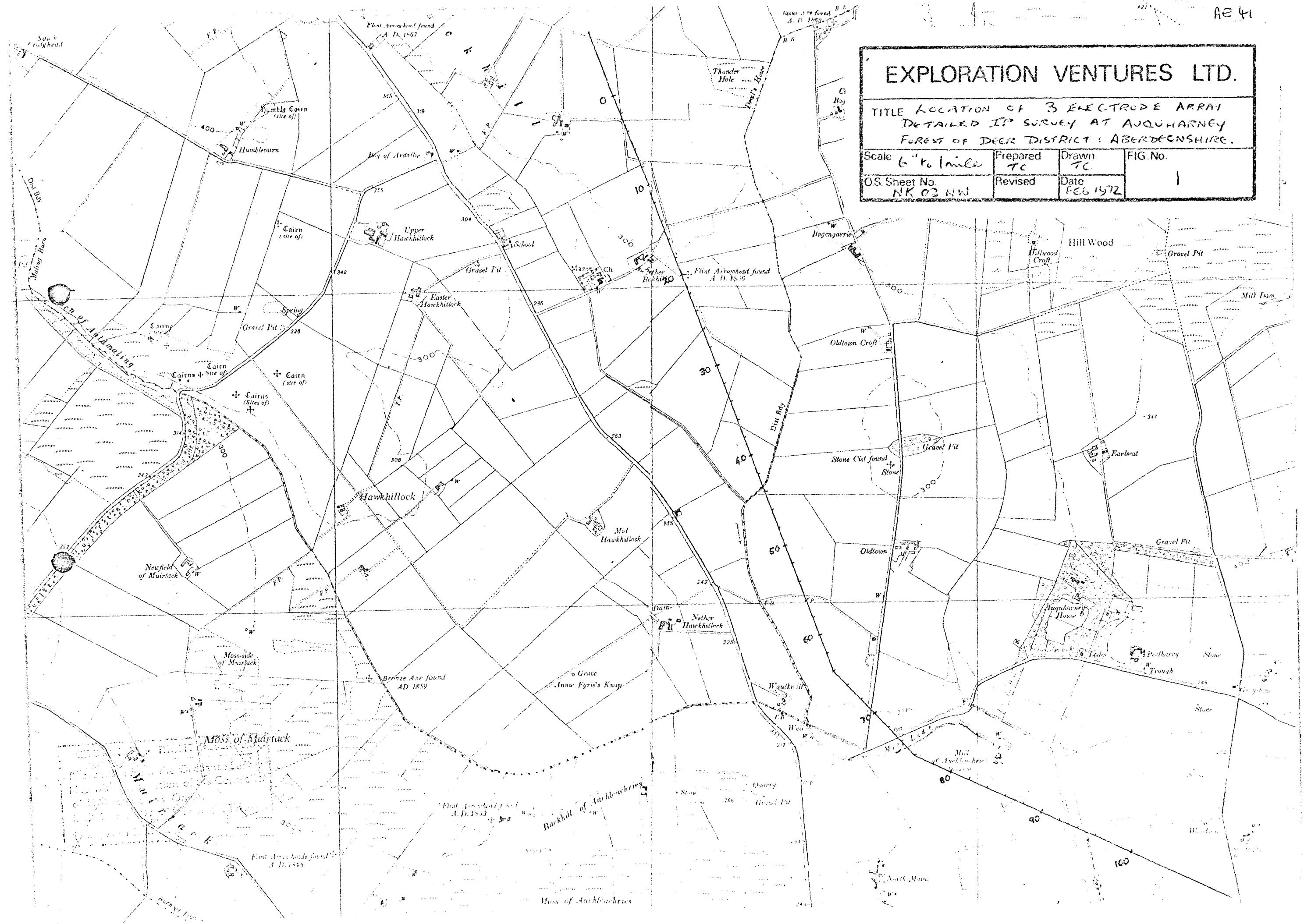
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\* Not at Keyworth

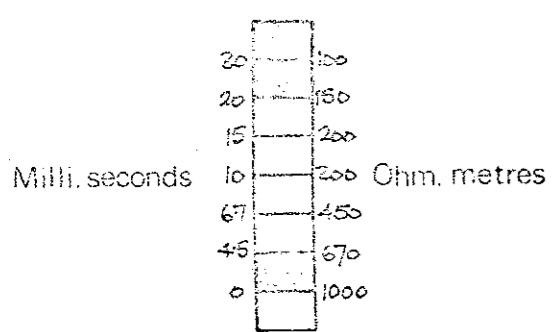
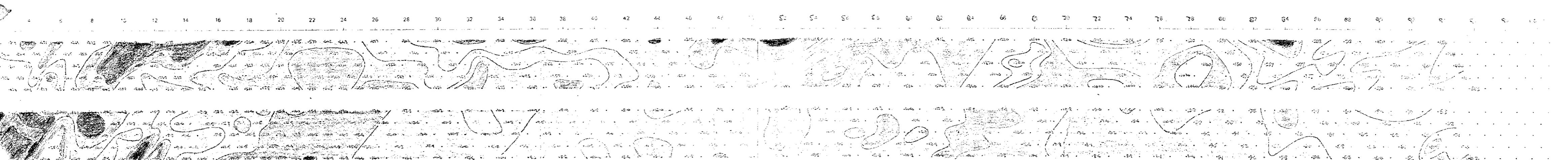
## EXPLORATION VENTURES LTD.

TITLE LOCATION OF 3 ELECTRODE ARRAY  
DETAILED IP SURVEY AT AUQUHARNEY  
FoREST OF DEER DISTRICT : ABERDEENSHIRE.

Scale 6" to 1 mile	Prepared TC	Drawn TC	FIG.No.
O.S. Sheet No. NK 03 NW	Revised	Date FEB 1972	1



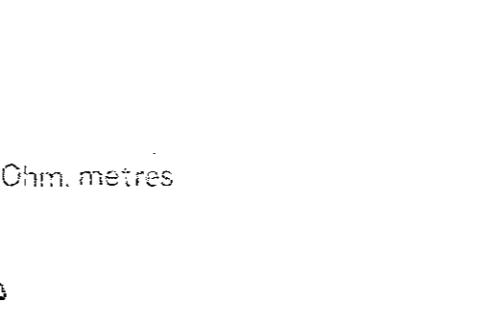
AREA AUQUHARNEY  
LINE No.  
ARRAY POLE-DIPOLE  
 $a = 100'$   
 $n = 1-5$



### EXPLORATION VENTURES

TITLE

Scale 1/5000 Prepared Drawn File No.



EXPLORATION VENTURES LTD.

TITLE IP DETAIL, AUQUHARNEY,  
CHARGEABILITY AND RESISTIVITY

Scale Prepared Drawn File No.

Tc Tc

AREA AUQUHARNEY

LINE No.

ARRAY POLE-DIPOLE

a = 100'

n = 1-5

AREA

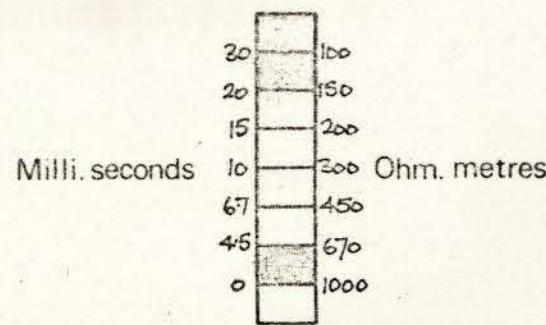
LINE No.

ARRAY

a =

n =

4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74

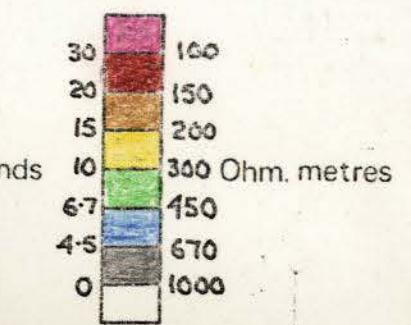


EXPLORATION VENTURES LTD.

TITLE

Scale 1/5000 Prepared Drawn FIG No.

O.S. Sheet No. Revised Date



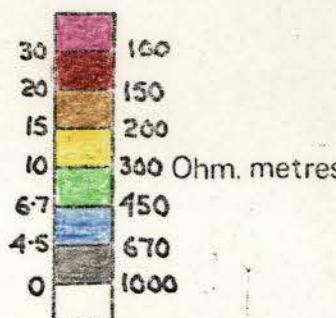
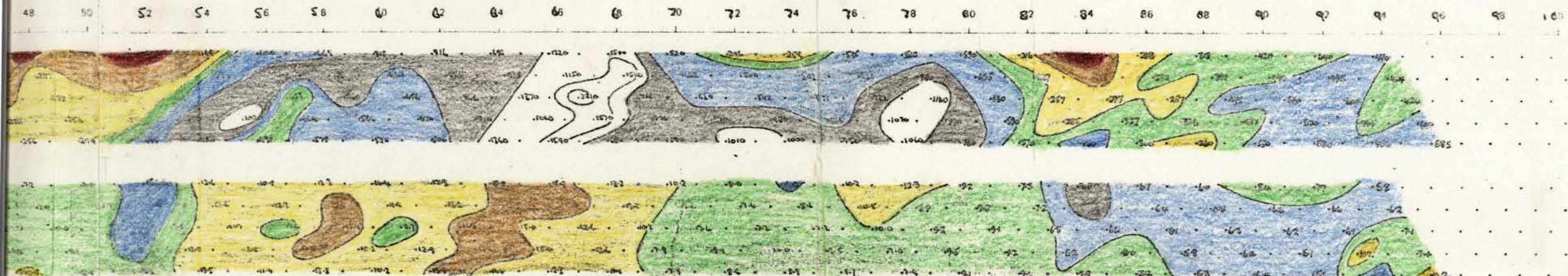
AREA

LINE No.

ARRAY

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Scale D.S. Sheet No.	Prepared T.C. Revise I	Drawn T.C. Date	FIG No. 2.

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