

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

COMPANY: EXPLORATION VENTURES LTD

REF: AE 23

MRD 84/5/17

PROJECT: KINHARRACHIE

MRD 144/5/17

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- Extract from draft application 6.8.71. "Outline of project geological considerations work programme." With accompanying location plan 1" : 4 miles
 - 1972 activity report with 2 appendices
 - APPX 1 - "Geological mapping data over Kirharrachie Estate" consisting of: part of OS sheet, colour key and abbreviations list, description of the area mapped
- APPX 2 - "Drilling data" consisting of: (i) Fig 1 drill hole section through K1. 1 : 500 June 1972. NJ93SW
- Fig 2 - Location plan DDH K1. 1 : 5,000, June 1972 NJ93SE
- Fig 3 - Drill hole section through K2. July 1972 NJ93SW 1 : 500
- Fig 4 - Location plan DDHK2 1 : 5,000 July 1972 NJ93SW
- (ii) Graphic logs 1 : 500
 - (iii) Written logs DDH K1 and K2
- Geological report 9th August - 31st December 1971 with the following enclosures:
 1. Geological field sheets + text. NJ93SW 6" : 1 mile September 1971
 2. Plans showing geochemical copper, nickel and chromium values in soils at Drumwhindle, Inverebrie and Ardgrain. 6" : 1 mile
 3. Location plans and IP profiles at Inverebrie and Ardgrain
 4. IP results of the Ardlerethen survey

MINERAL EXPLORATION INCENTIVE SCHEME

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 Kinnharachie

3. Applicants' organisation
& financial structure

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

4. Outline of proposed project,
including geological considerations

Earlier work carried out in this area has proved a North-South striking basic body intruded into Dalradian metamorphics and truncated by major faults to the South and North. Additional minor drift covered bodies indicated away from the main intrusives. The minerals sought are Ni, Cu sulphides and any associated minerals.

5. Work programme and cost
of project

This programme entails Geophysical Induced Polarisation and magnetic survey combined with geological mapping. These surveys have to be completed over the southern part of the intrusive tentatively consisting of one months work which will define precisely the drilling targets. An exploratory drilling programme of 1000 ft. is planned for one target along the Western Contact of the intrusive and a further 1000 ft. is required for an I.P. target on a minor basic body to the East of the main zone.

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.

Further work will be undertaken to complete the geological mapping programme already under way.

EXPLORATION VENTURES LTD

(RIOFINEX)

1972 ACTIVITY REPORT

THE KINHARRACHIE DISTRICT (DTI Code AE 23)

SUMMARY

During the 1972 period geological float and outcrop mapping was completed over Kinharrachie Estate and 2 holes were drilled to test two separate geophysical targets.

1. GEOLOGY An area that was omitted from the 1971 field programme due to landownership problems was mapped during 1972. Basic rock float patterns were located in areas with positive magnetic closures and indicate the presence of suboutcropping basic intrusives. No significant mineralised occurrences were detected.
2. GEOCHEMISTRY Nil
3. GEOPHYSICS Nil
4. DRILLING Two drill holes - DDH KI and K2 totalling 830 feet were located on geophysical targets at Nether Ardgrain and Inverebrie (survey results provided in 1971 submission). In KI metasediments were intersected with minor magnetic sections, but no sulphide mineralisation was encountered. At Inverebrie the hole passed through contaminated norite containing traces of disseminated sulphides, into barren norites (see enclosures). In both cases the geophysical IP response is assumed to be due to cultural effects, though at Inverebrie some of the response may be attributed to the sulphides.

Enclosures

1. Geological mapping data over Kinharrachie Estate.
2. Drilling data.
 - (i) Location plans of DDH KI and K2 plus sections.
 - (ii) Graphic logs
 - (iii) Written logs

Aberdeenshire float/outcrop mapping-Kinharrachie Estate

The area mapped covers the Kinharrachie Estate. Acid rocks have a ubiquitous distribution within the area; the % varies from a low of c 10% to a high of nearly 100%. There are two such 'highs' - (i) immediately west of Little Arnage, (ii) halfway between Waulkmill and Crosshill Farm houses. The acid rocks are characterised by a pink colour which grades from a pale tint to vivid red. The rocks in the northern subarea (Hayhillock and above) have predominant muscovite, coinciding with abundant pegmatitic varieties of dyke rocks. The southern subarea shows predominant biotite granites.

The basic rocks of the area are assumed to be Norites (cf. Gabbros) often containing quartz, and xenolithic fragments of metasediments; the mafic minerals are frequently altered to biotite and amphibolization is sometimes evident. There are 3 centres of basic rock concentrations:- (i) The northern field of Little Arnage Farm, (ii) The SE field of Blackhill Farm, and (iii) The NW edge of Podhill Wood. Basic rock float is widely distributed in general, being noticeably absent or rare only in the SE and SW subareas.

In these 2 subareas metasediments (high metamorphic classes) and mixed rocks predominate in abundance. The SW subarea, west of the main road, is notable for gneissic hybrids, of varied composition and texture.

Significant mineralisation is on the whole absent in float samples. Where trace sulphides occur, they associate mainly with metamorphic and mixed rocks, or contaminated basic rocks (rare).








GEOLOGICAL NOTES FOR FIELD SHEET NO. NJ 93 SW

KINHARRACHIE DISTRICT

Basic rocks and mixed basics occur around the central area - often as outcrop. Most of these contain trace sulphides. Sample K1 loc. 941 324 shows an appreciable amount of chalcopyrite, as do some of the float samples of K3 loc. 909 328. Most other sulphides were either pyrrhotite or pyrite.

In the Quarrybrae of Auchedly area, samples of quartzite and schist (K4) from a quarry outcrop contained trace sulphides and graphite.

Colour Key

Ultrabasic rocks	
Basic rocks	
Metamorphic and basic rocks	
Metamorphic and, mixed rocks, - hybrids	
Granites and associated acid rocks	
Intermediate rocks - dolerite, diorites	
Mineralisation (excluding trace disseminations in metamorphics)	

Abbreviations

- Ac Acid rocks - Granites, or pegmatites, acid dyke rocks (felsite, etc), quartz veins and contaminated granites (xenolithic varieties)
- Ms Metasediments - schists, gneisses, hornfels/metaquartzites, calc-silicate rocks.
- Mx Mixed rocks - igneous and sedimentary/metamorphic mixtures (obvious)
- Nr Norite (pyroxene, assumed orthopyroxene in hand specimen)
- gNr quartz norite
- xen Nr xenolithic norite
- Hyb Hybrid rocks - metasomatic end product or near end.
- gns Gneiss
- Sch Schist
- hfi Hornfels
- mgte Metaquartzite
- E21 Sample nos of float bag

The order in which rocks are noted indicates the relative abundance. e.g

Ac + Ms + gNr = Ac greater than Ms greater than gNr.

DDH

KI

DRIFT

Sand with occasional boulders.

Badly broken biotite rich contaminated gneiss 73'

Medium and fine grained biotite rich gneiss - showing partial melt features magnetic between 118-8" - 138'

Pink leucocratic granite vein. 149-7" - 158-6"

Hybrid rock - biotite rich metamorphics with partial melt features. Magnetic between 161' - 215'.

347' - thin granite vein

Magnetic metamorphics between 358' - 403'

T.D. 403'

DDH.KI.41



magnetic

magnetic

magnetic

DDH
K2

140' - 150' - 160'
sand and gravel.
= Boulders.
Highly contaminated
- granite vein.
medium to fine grained
massive to partly fractured
highly contaminated biotite
rich norite with hornfels
Xenoliths.
1% sulphides

180' - 200'
= pegmatite vein
medium to fine grained
biotite / cordierite rich highly
contaminated norite. Xenoliths
glassy texture metamorphics
& hornfels.
Av. 2% sulphides
Sequence med/strongly
magnetic

185' - 195'
= pegmatite vein
medium to fine grained
compact contaminated biotite
norite
Av. 1% sulphides

167' - 189'
granite vein.
Sequence strongly magnetic
less compact more granular
norite with coarse lathes
of biotite

234'
Fault.

298-6
Coarse grained mesocratic
biotite quartz gabbro

Occasional Xenoliths of
fine grained norite.

427.6' T.D.

DDH-K-2, 130.30m

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

Geological Report: Kinharrachie AE23

During the period 9th August - 31st December 1971, geological, geochemical and geophysical surveys were carried out on this project.

(i) Geology

Reconnaissance mapping took place over the northern part of this district to locate outcrops and determine the distribution and presence of basic, metamorphic and mineralised float.

(ii) Geochemistry

Follow-up geochemical soil sampling was undertaken in geophysically anomalous areas at Drumwhindle, Inverebrie and Ardgrain to determine the amounts of copper, nickel and chrome in the soils.

(iii) Geophysics

Using Scintrex time domain induced polarisation equipment detailed expanding three electrode array surveys assessed conductors at Inverebrie and Ardgrain. In addition a reconnaissance three electrode array survey was run across magnetic anomalies in the Ardlethen area to the south of this district.

Enclosures

- ✓1. Geological field sheets. (W&E NJ93SW + 6 etc)
- ✓2. Plans showing geochemical copper, nickel and chromium values in soils at Drumwhindle, Inverebrie and Ardgrain.
- ✓3. Location plans and IP profiles at Inverebrie and Ardgrain.
- ✓4. Induced polarisation results of the Ardlethen survey. *Changeability & resistivity.*

28 JUN 1973

Application for contributions under the Mineral
Exploration and Investment Grants Act 1972, Princes Gate, London, SW7 1QW

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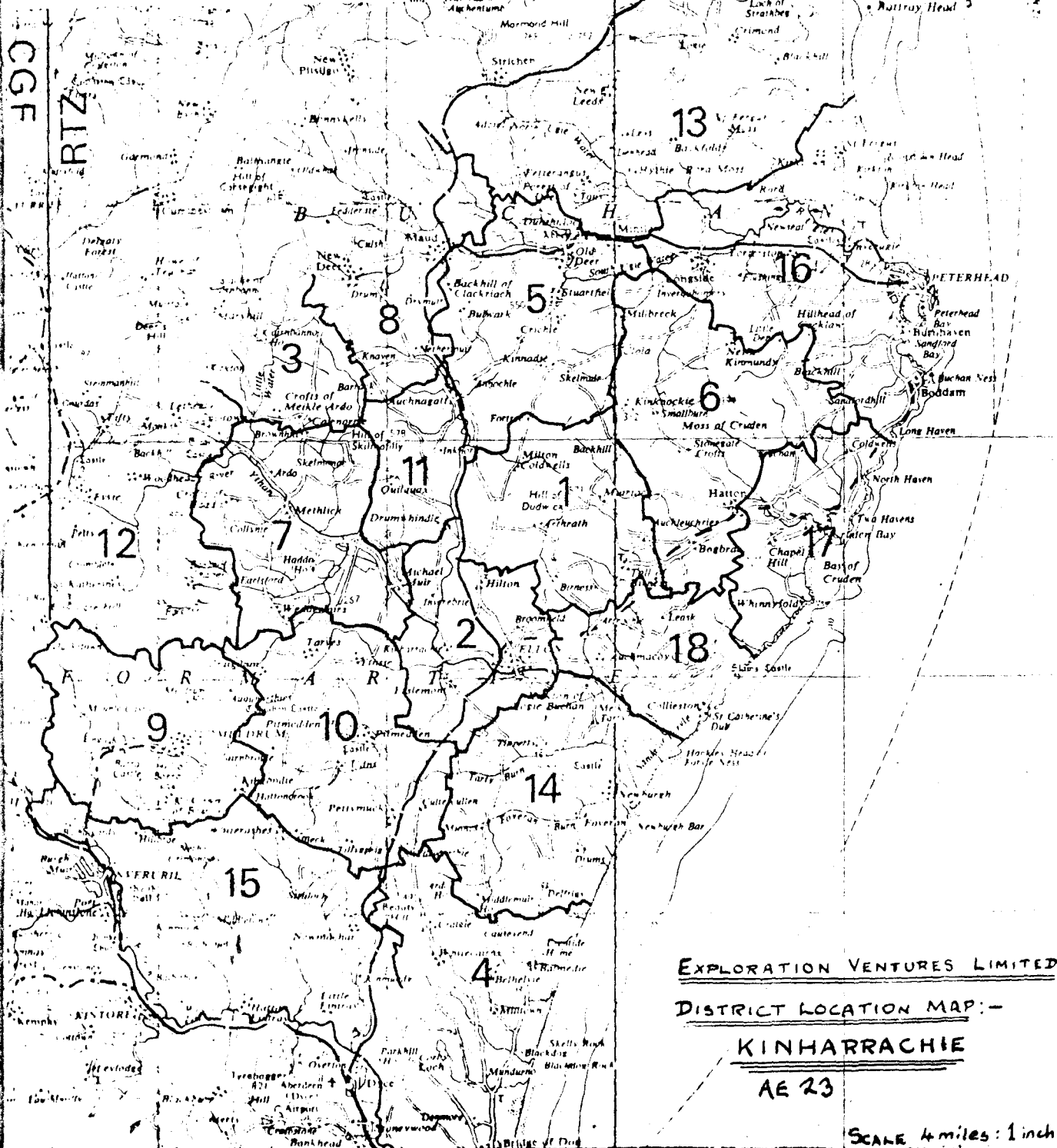
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ADMINISTRATIVE AREAS IN RIOFINEXS SECTOR

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



EXPLORATION VENTURES LIMITED

DISTRICT LOCATION MAP: -

KINHARRACHIE

AE 23

SCALE 4 miles : 1 inch

Charted by (filled in)

Resistivity (Ohm metres)

AREA	INVERESKIE
LINE No.	A1 - A2
ARRAY	Pole - Dipole
a =	100 Ft.
n =	1-5



427

A2

TRAP (20-1)

K2 (55°)

Inveresk

EP DETAIL PROFILE LINE

340

Station plough

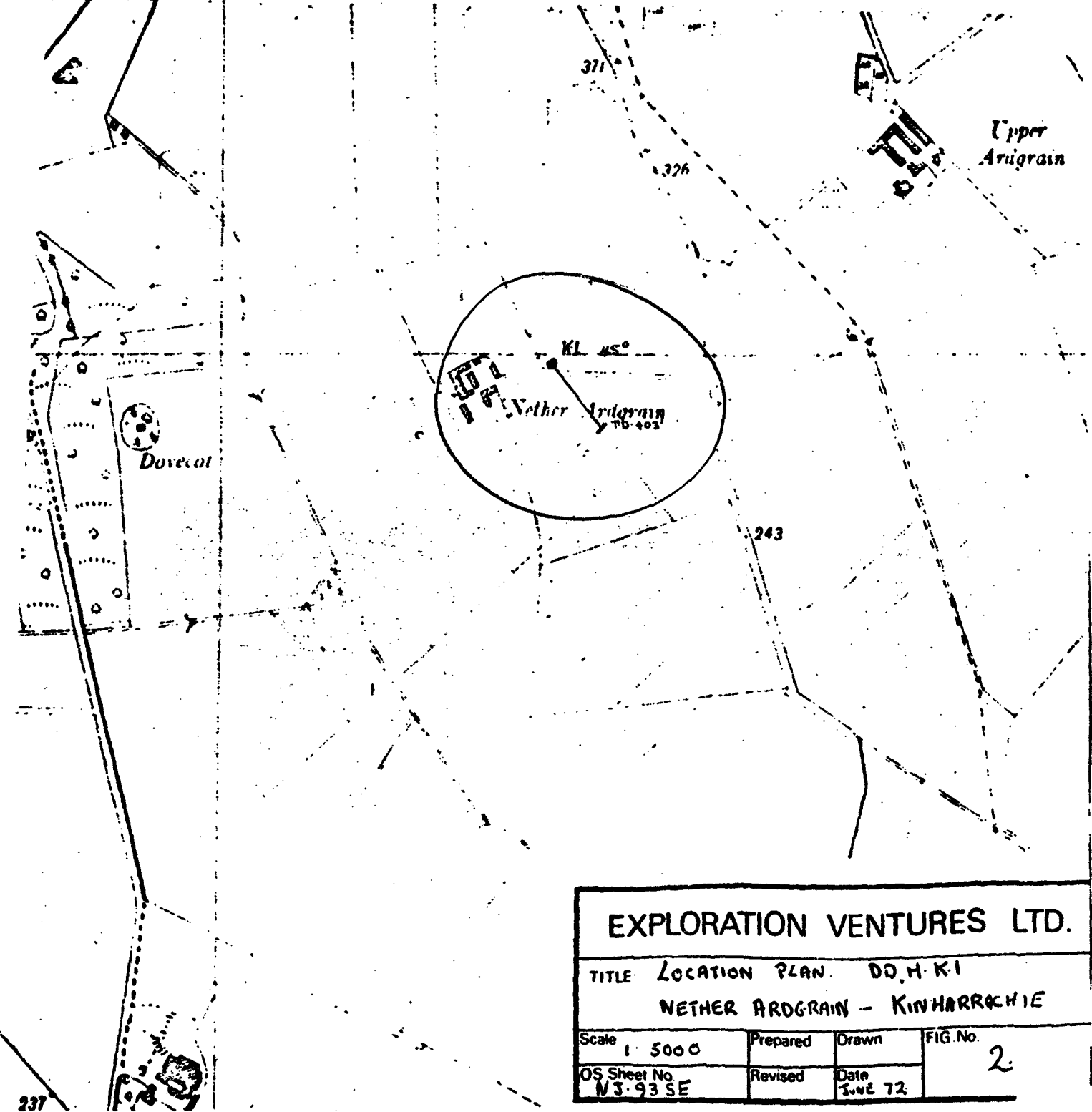
Mains of Inveresk

Townhead

Kept in the possession of H.M. Stationery Office
 B.V.M. 1972

1 Mik

EXPLORATION VENTURES LTD.			
TITLE LOCATION PLAN DDH K2 (Inset - EP DETAIL SHOWING DRILL HOLE POSITION)			
Scale 1: 5000	Prepared M.	Drawn M.	FIG. No. 2
OS Sheet No NJ 93 SW	Revised	Date July 1972	

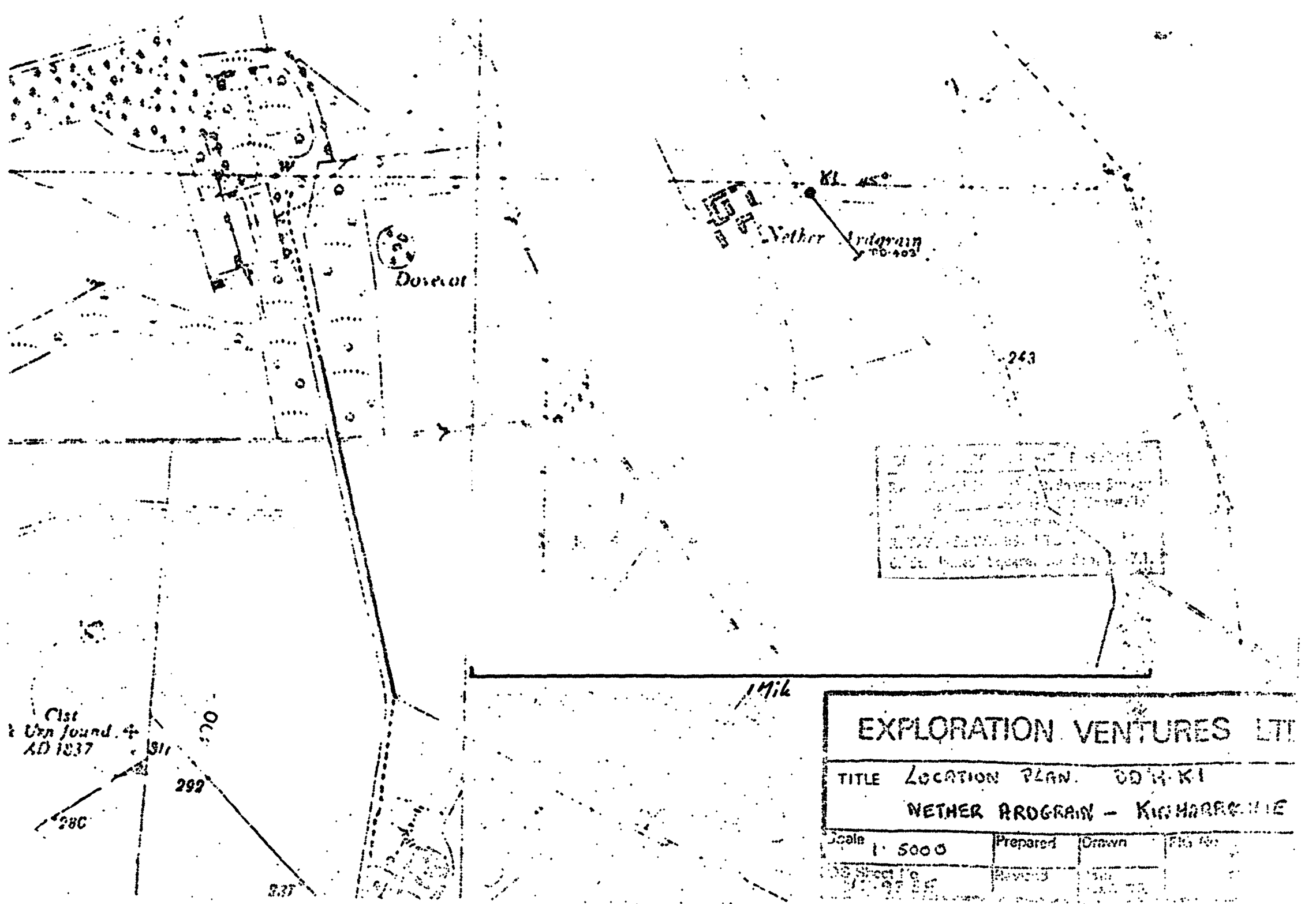


EXPLORATION VENTURES LTD.

TITLE LOCATION PLAN. D.D.H.K.1

NETHER ARDGRAIN - KINHARRACHIE

Scale 1 : 5000	Prepared	Drawn	FIG. No. 2
OS Sheet No. NJ.93 SE	Revised	Date JUNE 72	



Dosevat

Kl. 45°

Nether Ardgrian
TC-403

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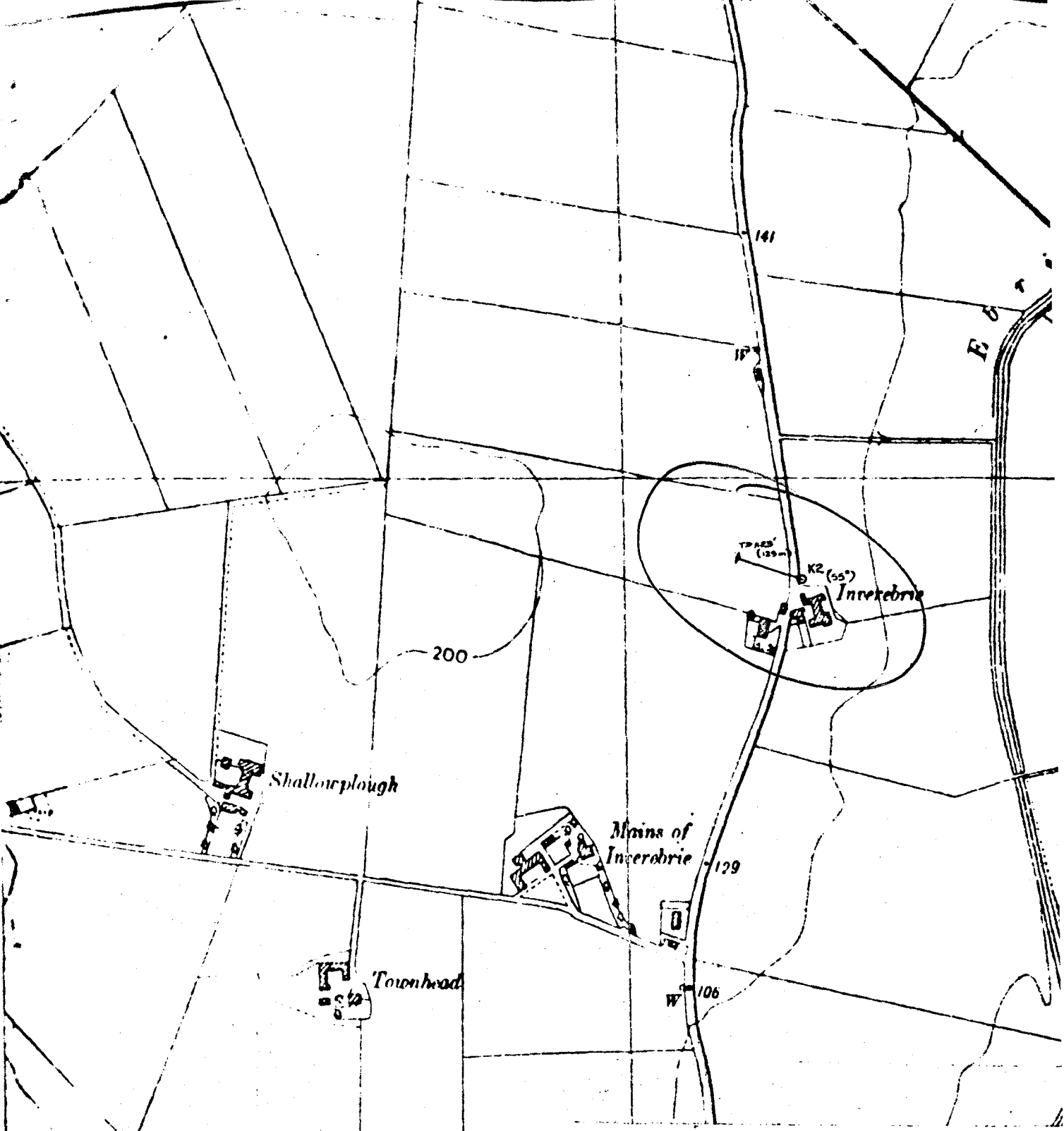
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EXPLORATION VENTURES LTD.			
TITLE LOCATION PLAN. 00 W. KI			
NETHER ARDGRAN - KISHARRONIE			
Scale	1" = 500'	Prepared	Drawn
Checked	10	Revised	5/11



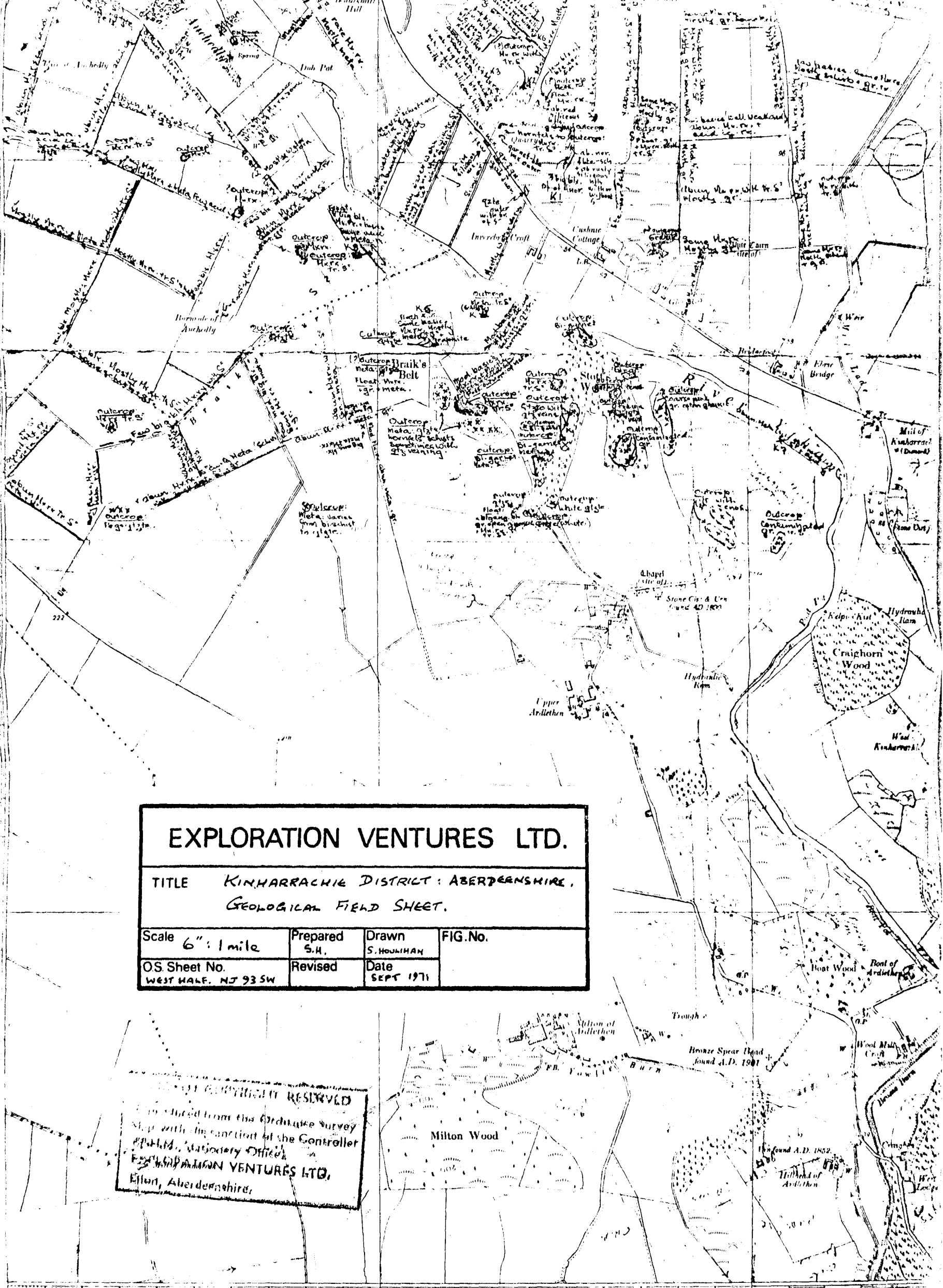
EXPLORATION VENTURES LTD			
TITLE LOCATION PLAN 2004 K2			
Scale 1:5000	Prepared	Drawn	FIG.No. 4
OS Sheet No NJ 93 SW	Revised	Date JULY 1972	

GEOLOGICAL NOTES FOR FIELD SHEET NO. NJ 93 SW

KINHARRACHIE DISTRICT

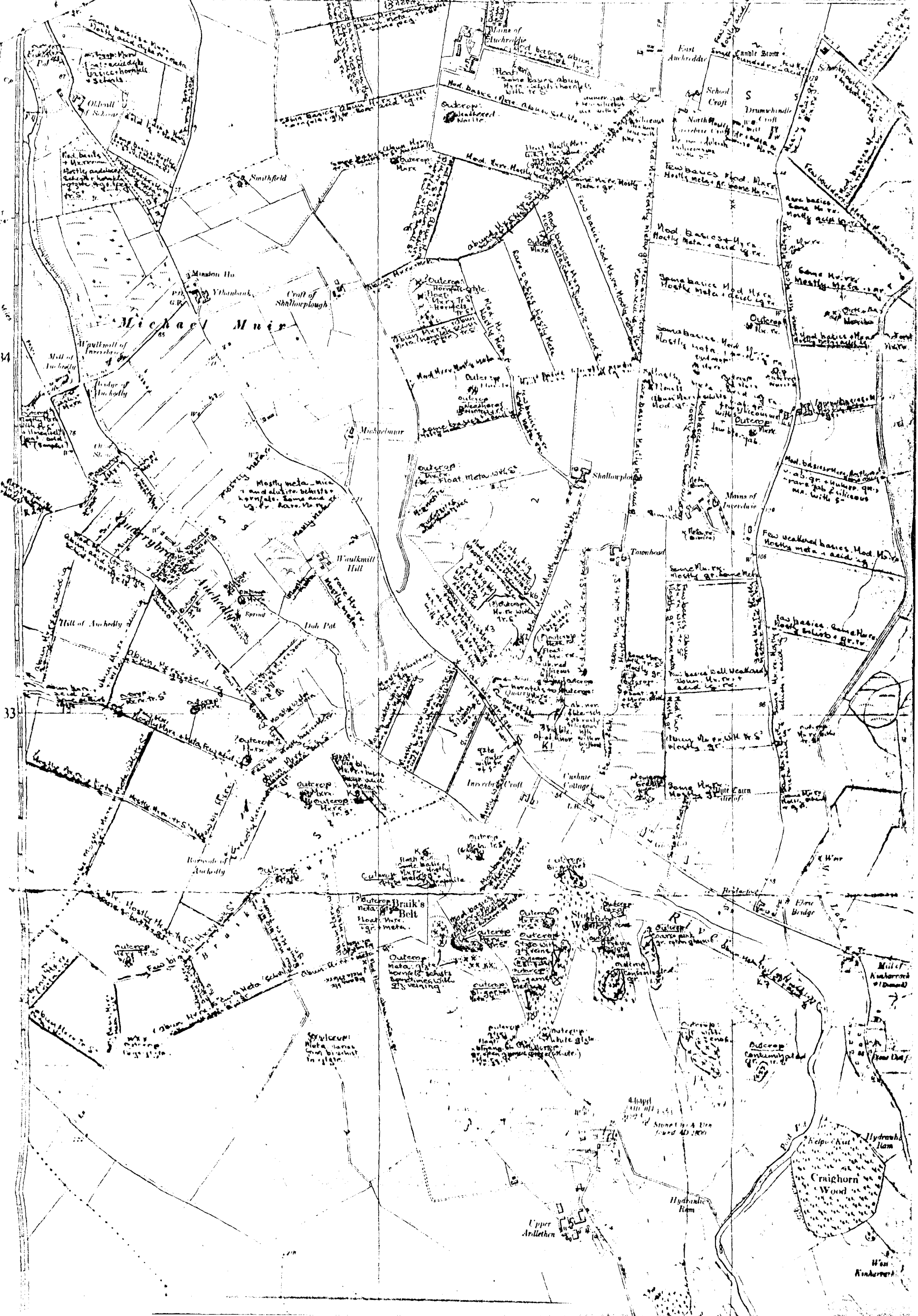
Basic rocks and mixed basics occur around the central area - often as outcrop. Most of these contain trace sulphides. Sample K1 loc. 941 324 shows an appreciable amount of chalcopyrite, as do some of the float samples of K3 loc. 909 328. Most other sulphides were either pyrrhotite or pyrite.

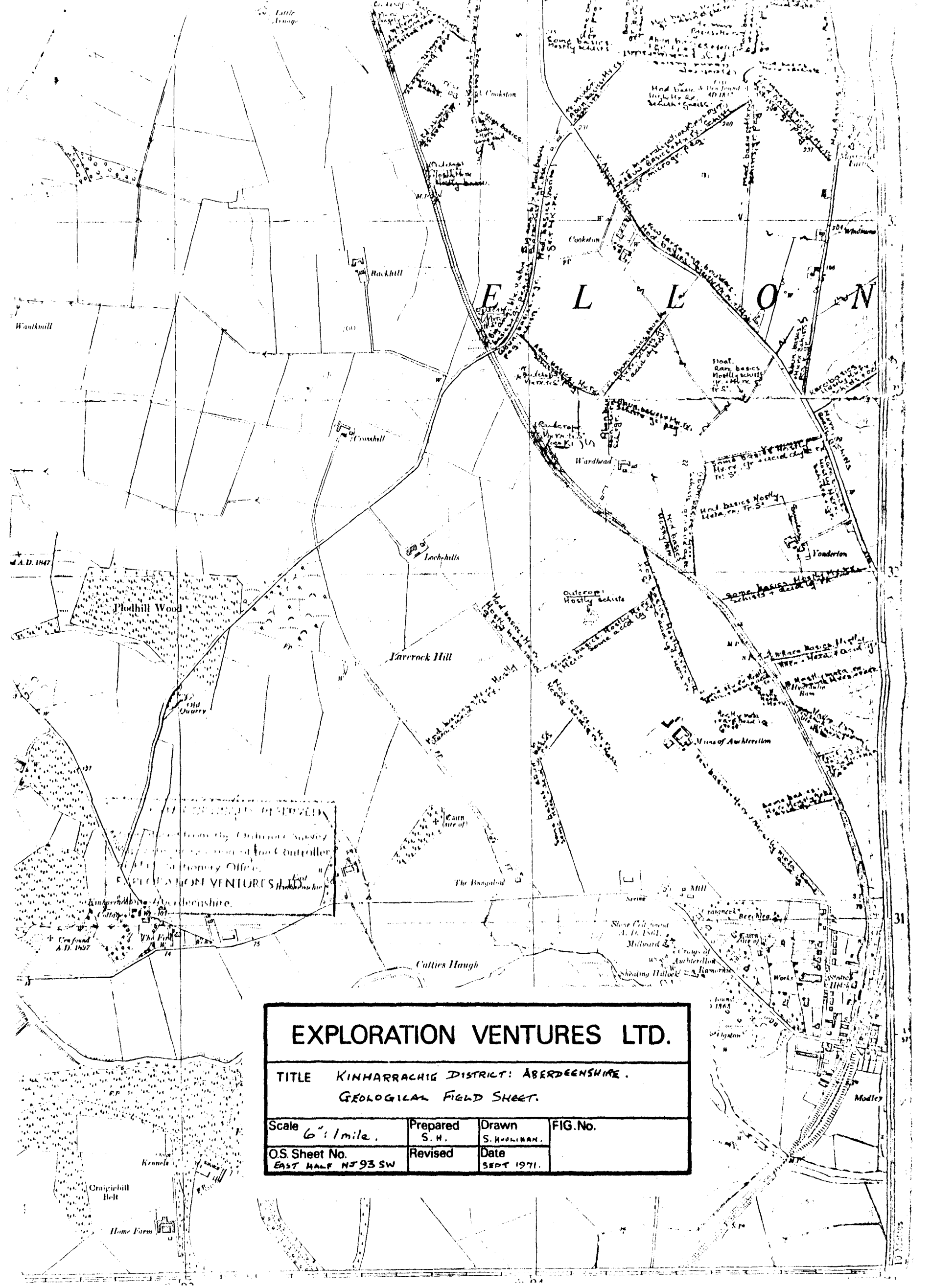
In the Quarrybrae of Auchedly area, samples of quartzite and schist (K4) from a quarry outcrop contained trace sulphides and graphite.



EXPLORATION VENTURES LTD.			
TITLE <i>KINHARRACHIE DISTRICT: ABERDEENSHIRE, GEOLOGICAL FIELD SHEET.</i>			
Scale <i>6" : 1 mile</i>	Prepared <i>S.H.</i>	Drawn <i>S. HOUGHAN</i>	FIG.No.
OS Sheet No. <i>WEST HALF. NJ 93 SW</i>	Revised	Date <i>SEPT 1971</i>	

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 EXPLORATION VENTURES LTD,
 Ellon, Aberdeenshire.





Warkmill

A.D. 1847

A.D. 1897

Craigiehill Bolt

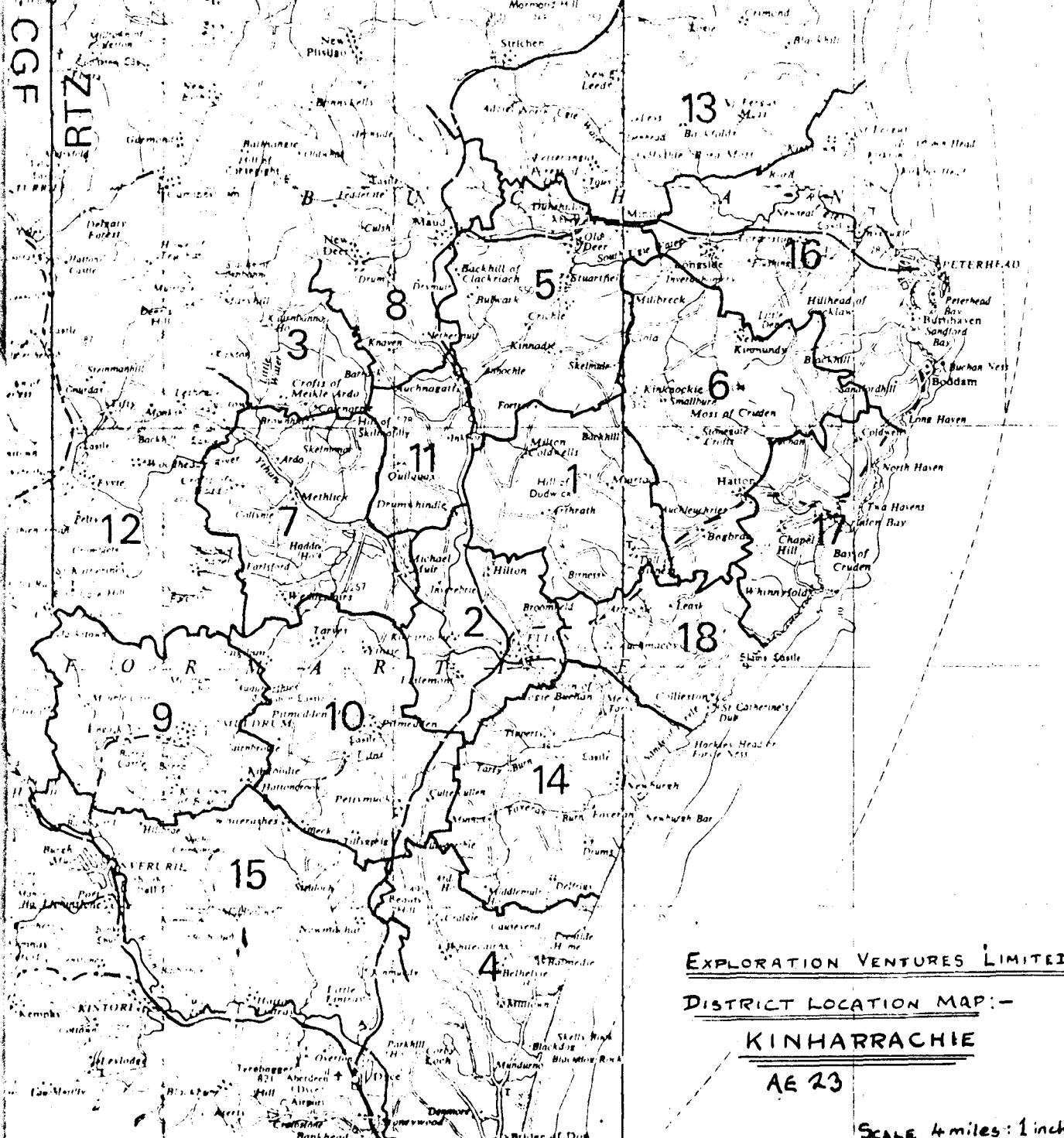
Home Farm

31

EXPLORATION VENTURES LTD.			
TITLE KINHARRACHIG DISTRICT: ABERDEENSHIRE. GEOLOGICAL FIELD SHEET.			
Scale 6" : 1 mile.	Prepared S. H.	Drawn S. HOULIHAN.	FIG. No.
OS Sheet No. EAST HALF NJ 93 SW	Revised	Date SEPT 1971.	

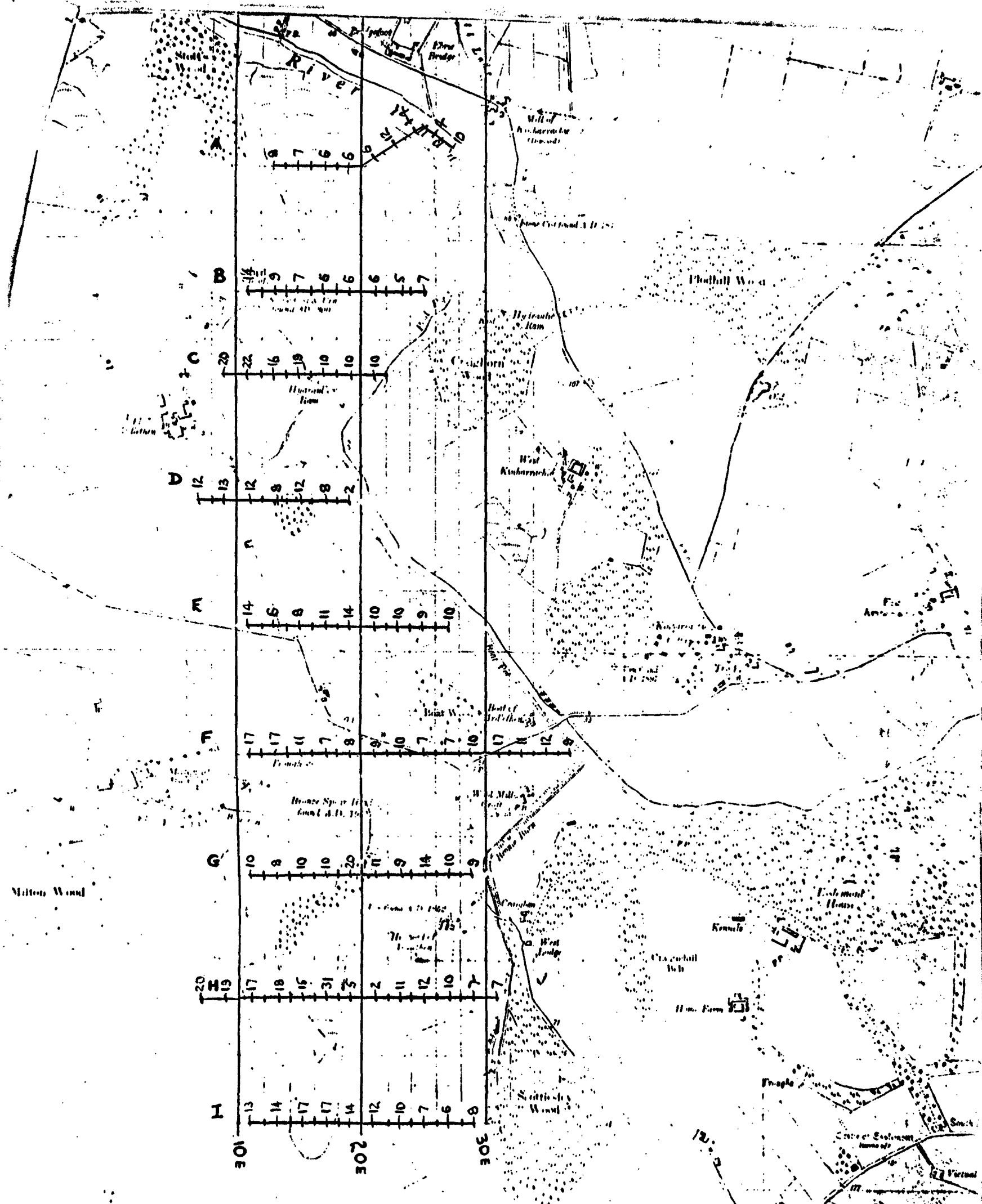
ADMINISTRATIVE AREAS IN RIOFINEXS SECTOR

- | | |
|--------------------|-------------------------|
| 1 Arthra - Dudwick | 10 Udny |
| 2 Kinharrachie | 11 Quilquox |
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| 8 Maud | 17 Cruden |
| 9 Oldmeldrum | 18 Slains |



EXPLORATION VENTURES LIMITED
 DISTRICT LOCATION MAP: -
 KINHARRACHIE
 AE 23

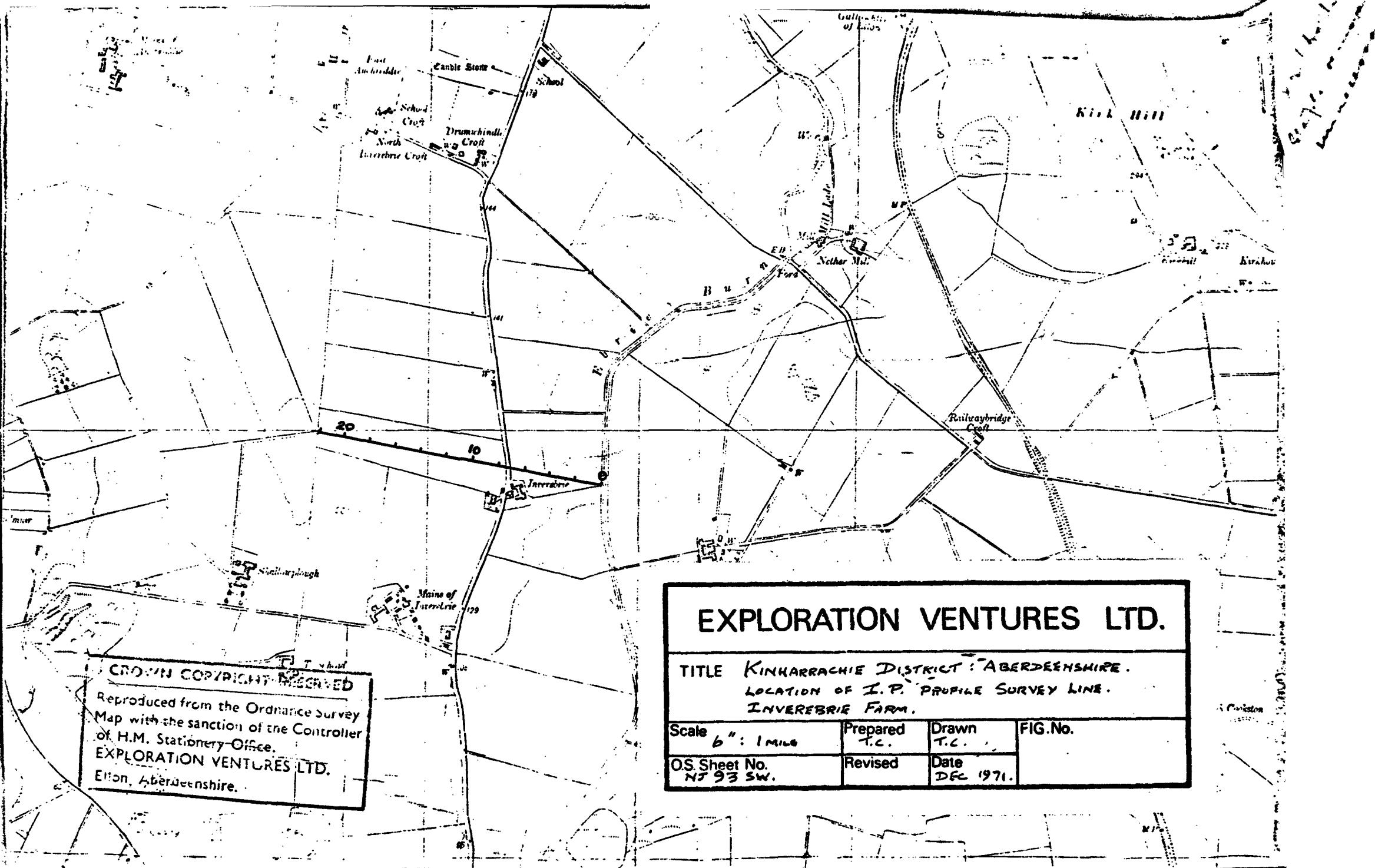
Scale 4 miles: 1 inch



EXPLORATION VENTURES LTD.

TITLE CHARGABILITY RESULTS - (VALUES IN MILLISECONDS)
 KINHARRACHIE AREA - ARDLATHEN. - RECC SURVEY
 SCINTREX MK7 - 2.5KW - JELECTRADE CONFIGURATION 400' SPACING 200' INC

Scale 1" = 1 MILE	Prepared TDSB	Drawn TDSB	FIG. No.
OS Sheet No. NJ 93 SW + NJ 92 NW	Revised	Date OCT 1971.	



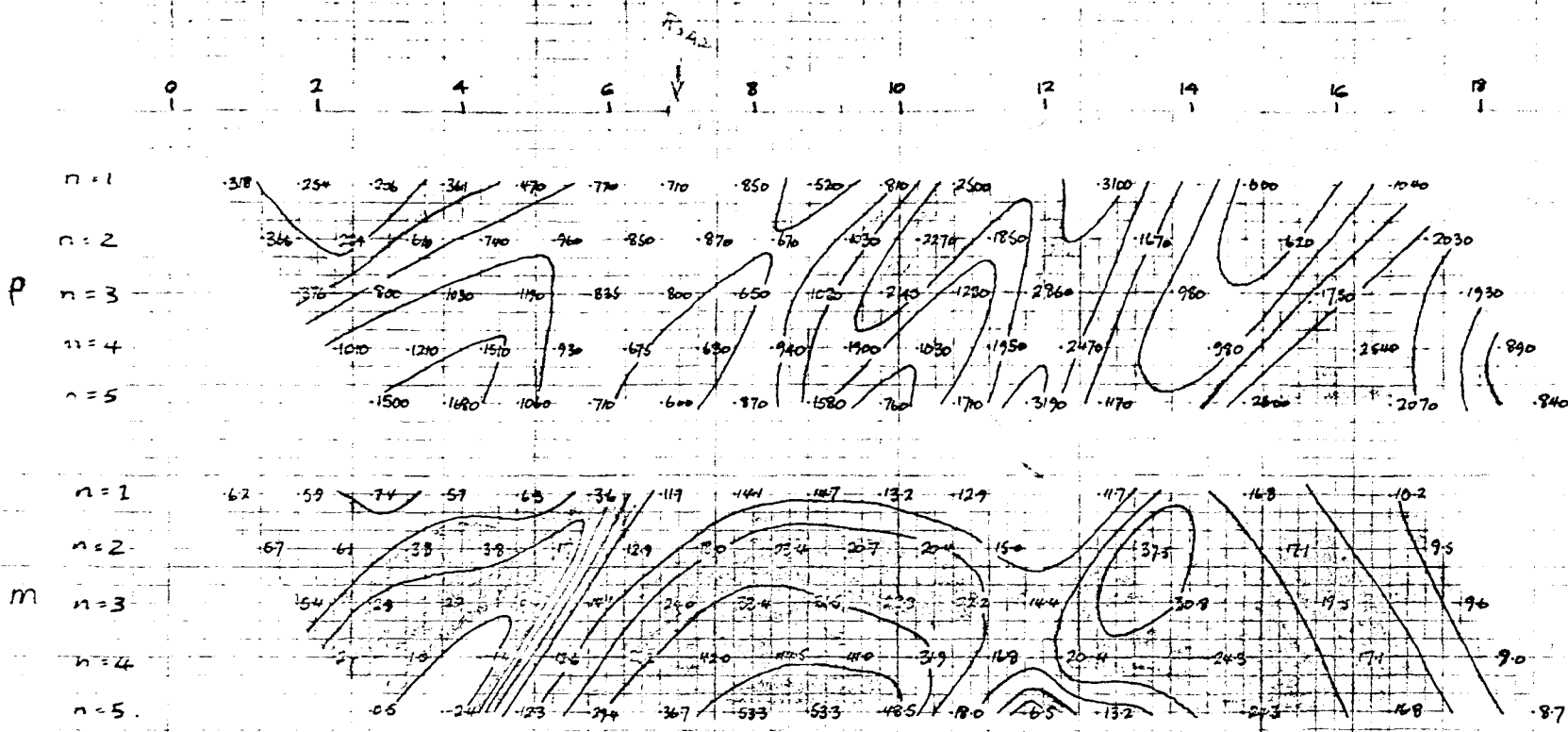
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EXPLORATION VENTURES LTD.			
TITLE KINKARRACHIE DISTRICT: ABERDEENSHIRE. LOCATION OF I.P. PROFILE SURVEY LINE. INVERURIE FARM.			
Scale	Prepared	Drawn	FIG.No.
6" : 1 mile	T.C.	T.C.	
O.S. Sheet No.	Revised	Date	
NJ 93 SW.		DEC 1971.	

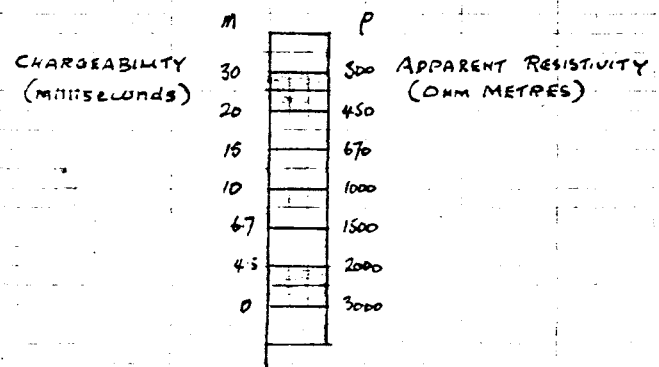
INVEREBRIE

POLE-DIPOLE

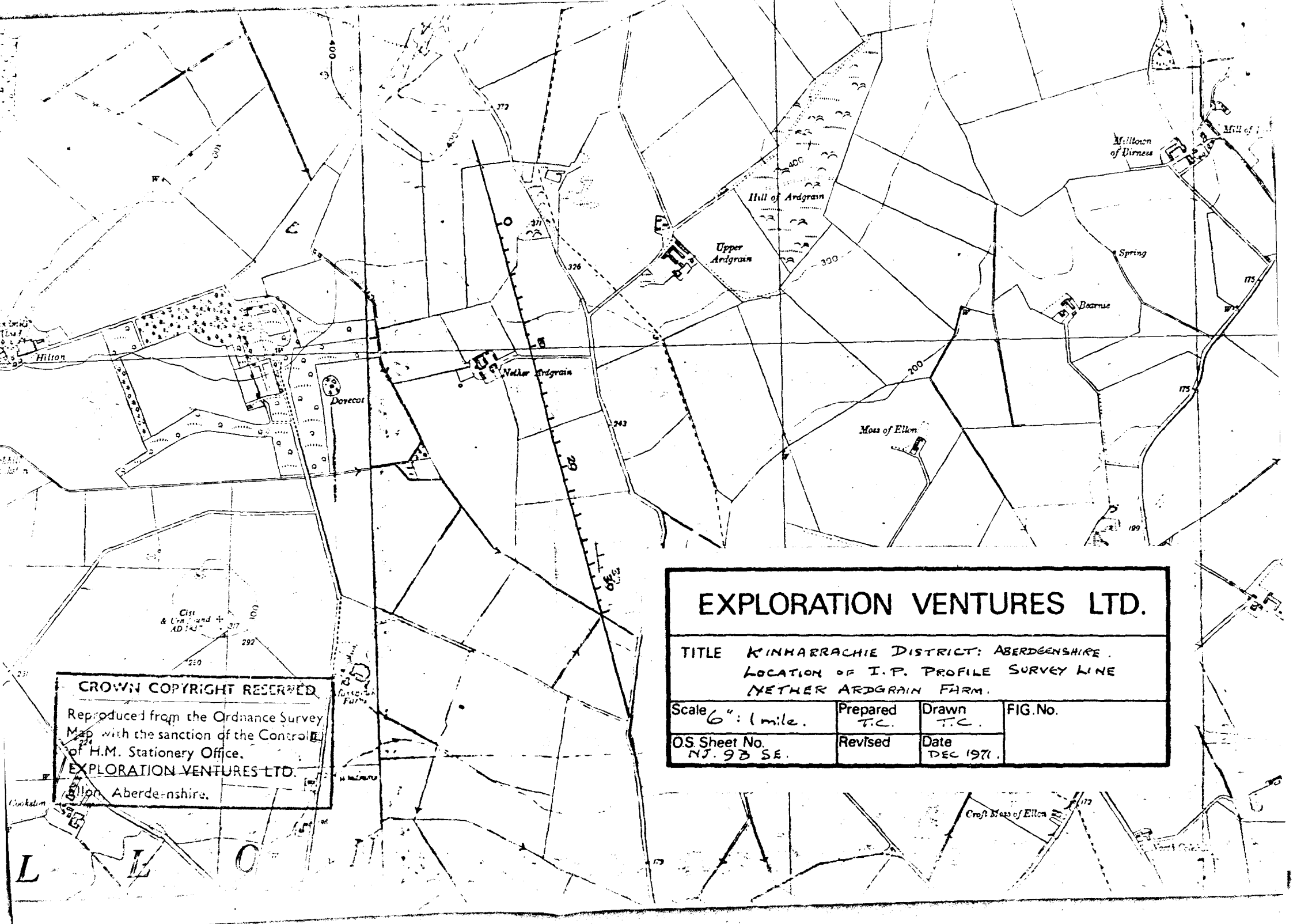
$a=100'$ $n=1-5$



SCALE 0 200 feet



EXPLORATION VENTURES LTD.			
TITLE KINHARRACHIE DISTRICT, ABERDEENSHIRE. INDUCED POLARISATION DEPTH PROFILES INVEREBRIE FARM			
Scale	Prepared T.C.	Drawn T. CUMSTY	FIG No.
OS Sheet No. HEATED ON NJ 93 SW.	Revised	Date DEC 1971	



EXPLORATION VENTURES LTD.

TITLE KINHARRACHIE DISTRICT: ABERDEENSHIRE.
 LOCATION OF I. P. PROFILE SURVEY LINE
 NETHER ARDGRAIN FARM.

Scale 6" : 1 mile.	Prepared T.C.	Drawn T.C.	FIG. No.
OS Sheet No. NJ. 93 SE.	Revised	Date DEC 1971.	

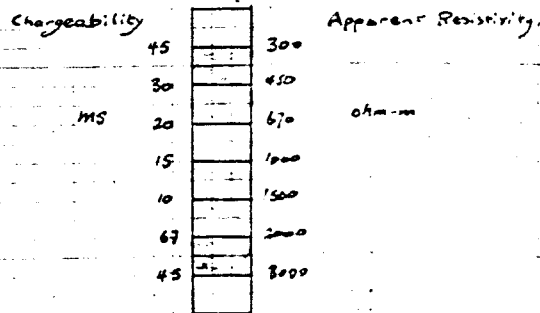
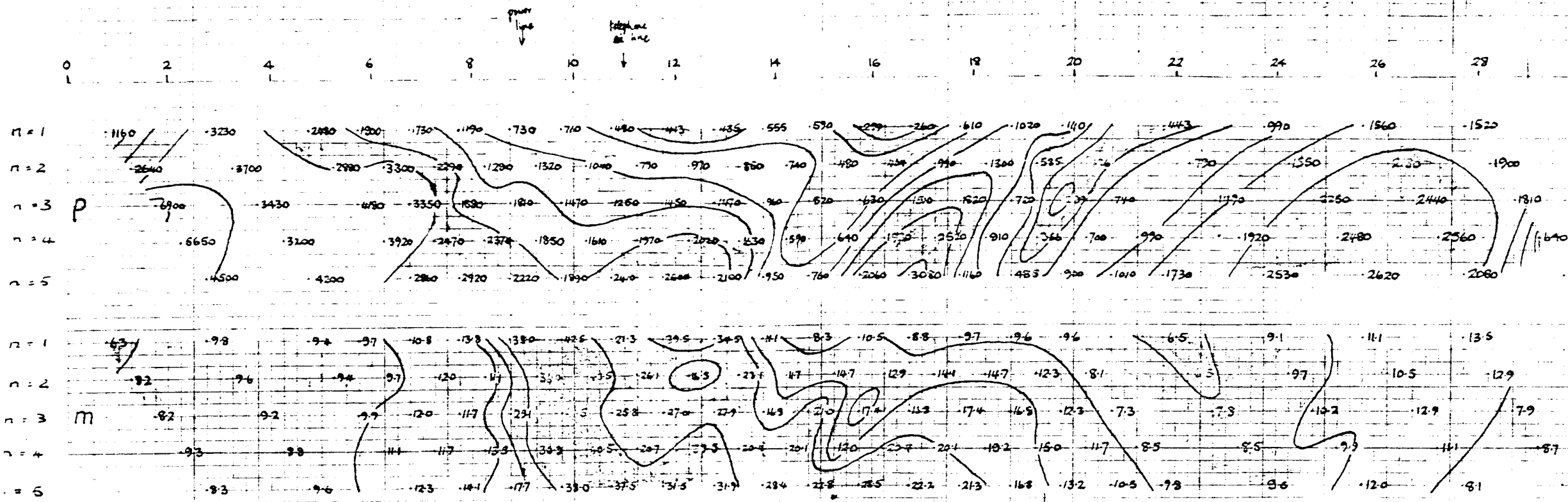
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L O

ARDGRAIN.

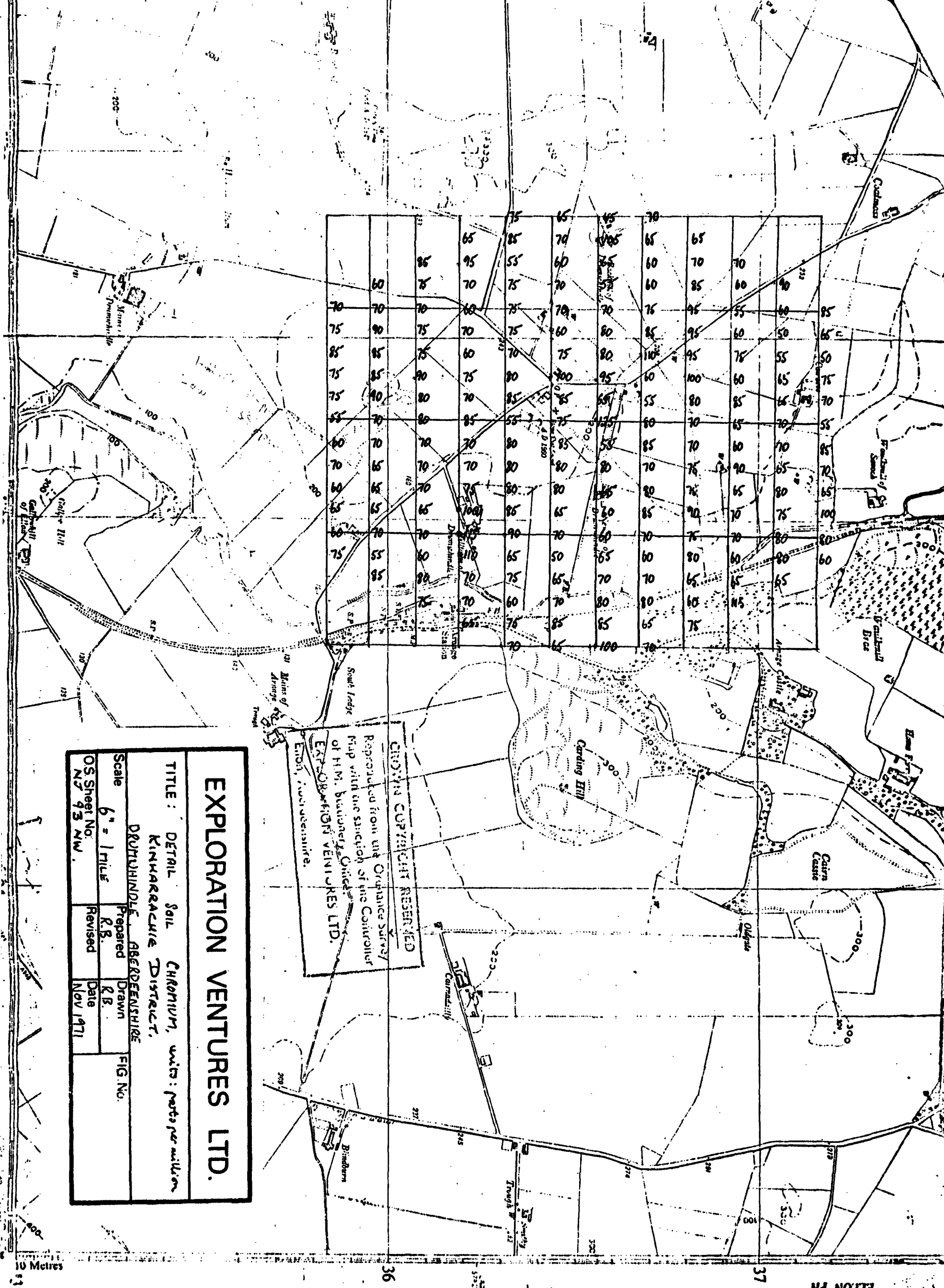
POLE-DIPOLE

$\alpha = 100'$ $n = 1-5$



SCALE 200 feet

EXPLORATION VENTURES LTD.			
TITLE KINHARRACHIE DISTRICT: ABERDEENSHIRE. INDUCED POLARISATION DEPTH PROFILES NATHER ARDGRAIN FARM.			
Scale	Prepared T.C.	Drawn T. COMSTEEY	FIG No
OS Sheet No LO 100 93 DE	Revised	Date DEC 1971	



65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	395	400	405	410	415	420	425	430	435	440	445	450	455	460	465	470	475	480	485	490	495	500	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575	580	585	590	595	600	605	610	615	620	625	630	635	640	645	650	655	660	665	670	675	680	685	690	695	700	705	710	715	720	725	730	735	740	745	750	755	760	765	770	775	780	785	790	795	800	805	810	815	820	825	830	835	840	845	850	855	860	865	870	875	880	885	890	895	900	905	910	915	920	925	930	935	940	945	950	955	960	965	970	975	980	985	990	995	1000
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EXPLORATION VENTURES LTD.

TITLE: DETAIL Soil CHROMIUM, units: parts per million
 KIMWAKACUE DISTRICT,
 DRUWHINDLE ABERDEENSHIRE

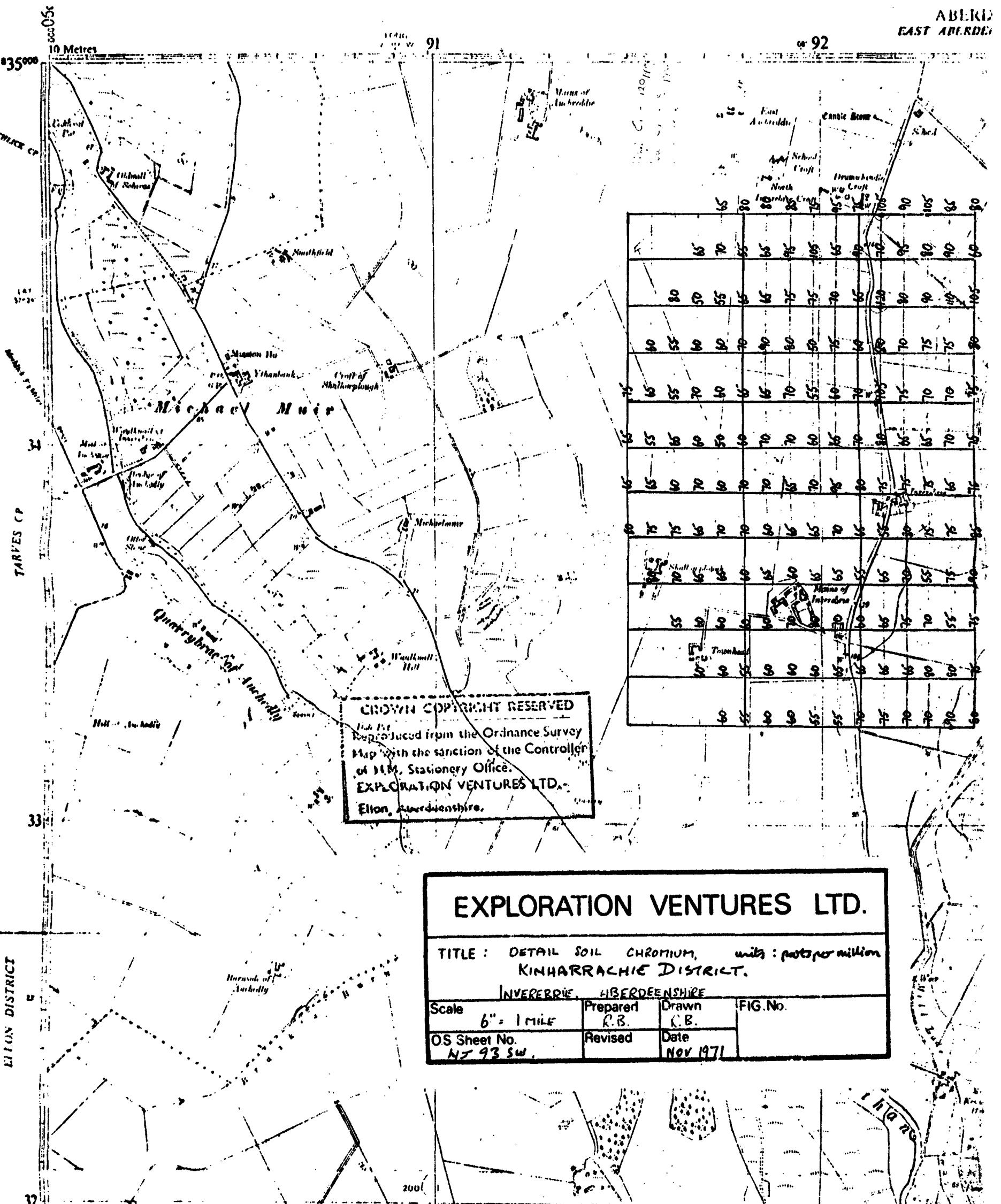
Scale 6" = 1 MILE

OS Sheet No. N7 93 NW.	Prepared R.B.	Drawn R.B.	FIG. No.
	Revised	Date	
		Nov 1971	

links 1000 500 0

80

ABERDEEN
EAST ABERDEEN



65	70	55	65	75	105	65	70	95	80	105	85	80
80	50	55	65	75	75	70	65	70	80	90	90	105
60	55	60	60	70	80	50	75	60	80	70	75	80
75	65	55	70	60	65	70	55	60	70	75	70	75
65	55	65	60	50	60	70	60	65	70	80	65	75
65	65	60	70	60	70	70	65	70	75	75	75	75
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55	60	60	60	60	70	60	65	75	70	55	75	75
60	60	60	60	60	60	65	65	65	65	60	60	60
60	55	60	60	55	55	60	75	70	70	70	70	60

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 Ellon, Aberdeenshire.

EXPLORATION VENTURES LTD.			
TITLE : DETAIL SOIL CHROMIUM, units : parts per million KINHARRACHIE DISTRICT. INVERERDIE, ABERDEENSHIRE			
Scale 6" = 1 MILE	Prepared R.B.	Drawn C.B.	FIG.No.
OS Sheet No. NJ 93 SW	Revised	Date NOV 1971	

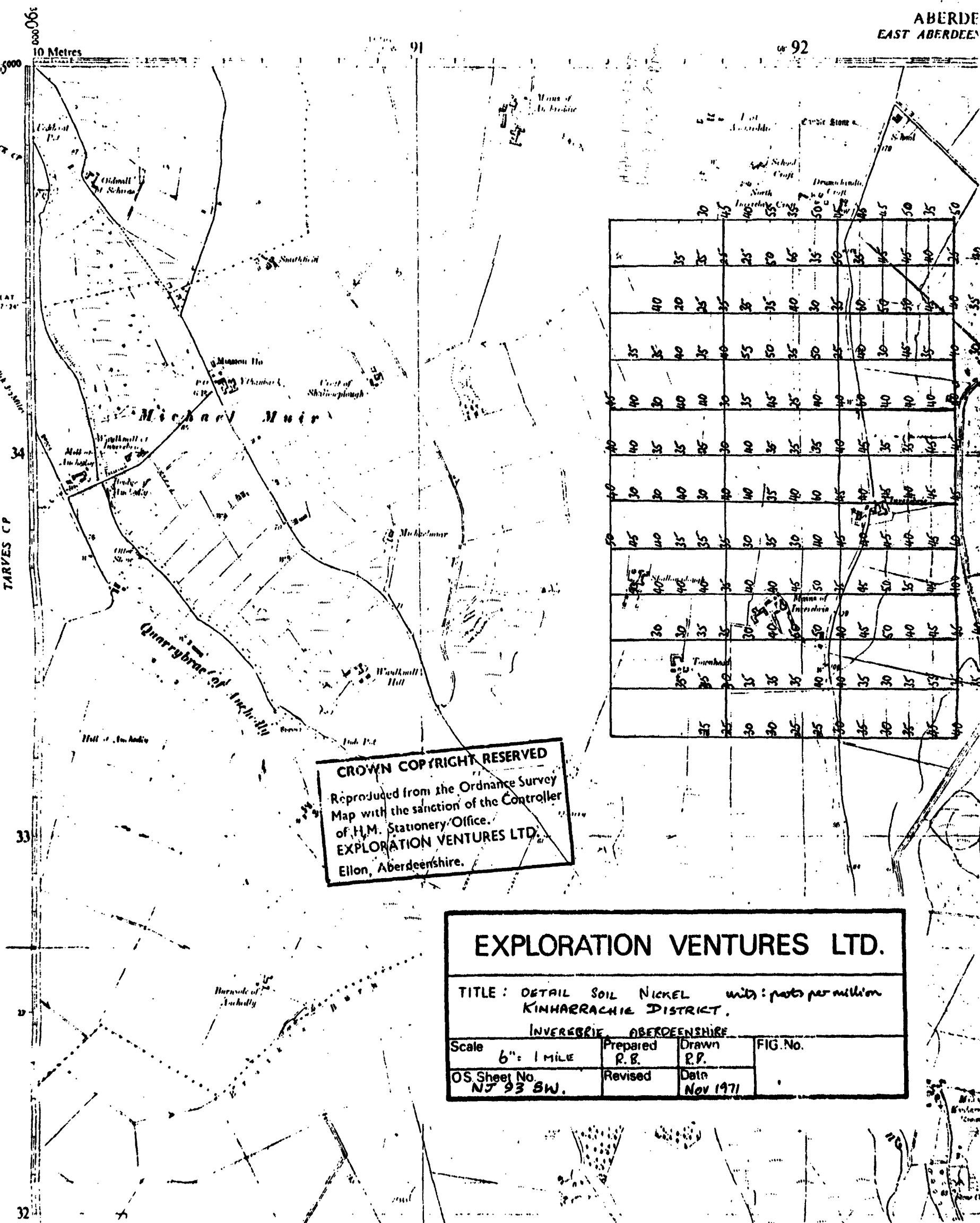
ELLON DISTRICT

200

1000 500 0

80

ABERDEEN
EAST ABERDEEN



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EXPLORATION VENTURES LTD.			
TITLE: DETAIL SOIL NICKEL units: parts per million KINHARRACHIE DISTRICT, INVERERIE, ABERDEENSHIRE			
Scale 6" = 1 MILE	Prepared R. B.	Drawn R. P.	FIG. No.
OS Sheet No. NJ 93 SW.	Revised	Date Nov 1971	

SHEET NJNJ 93 SE
93 SW

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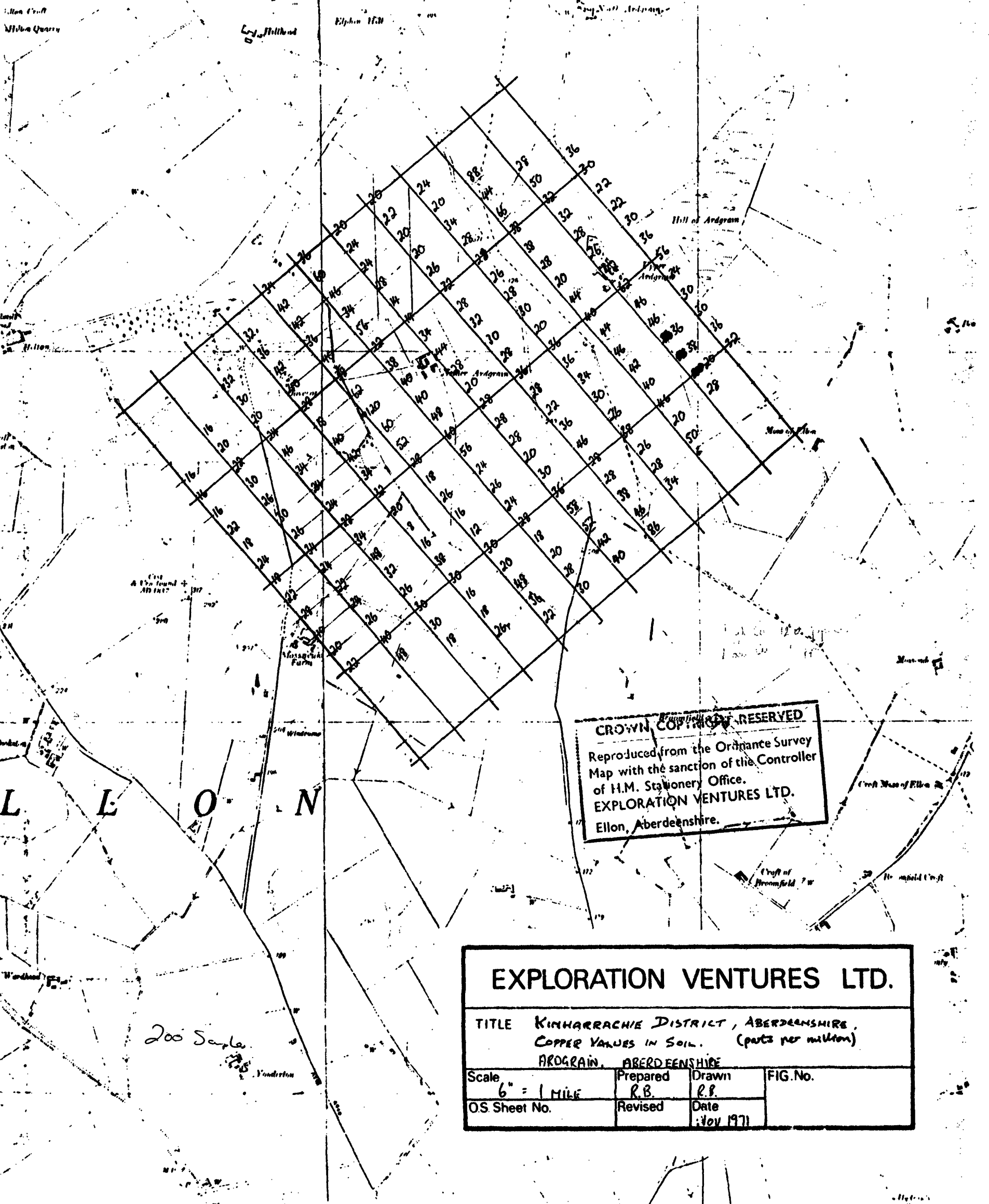
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2) 56) 0

10 Metres

96



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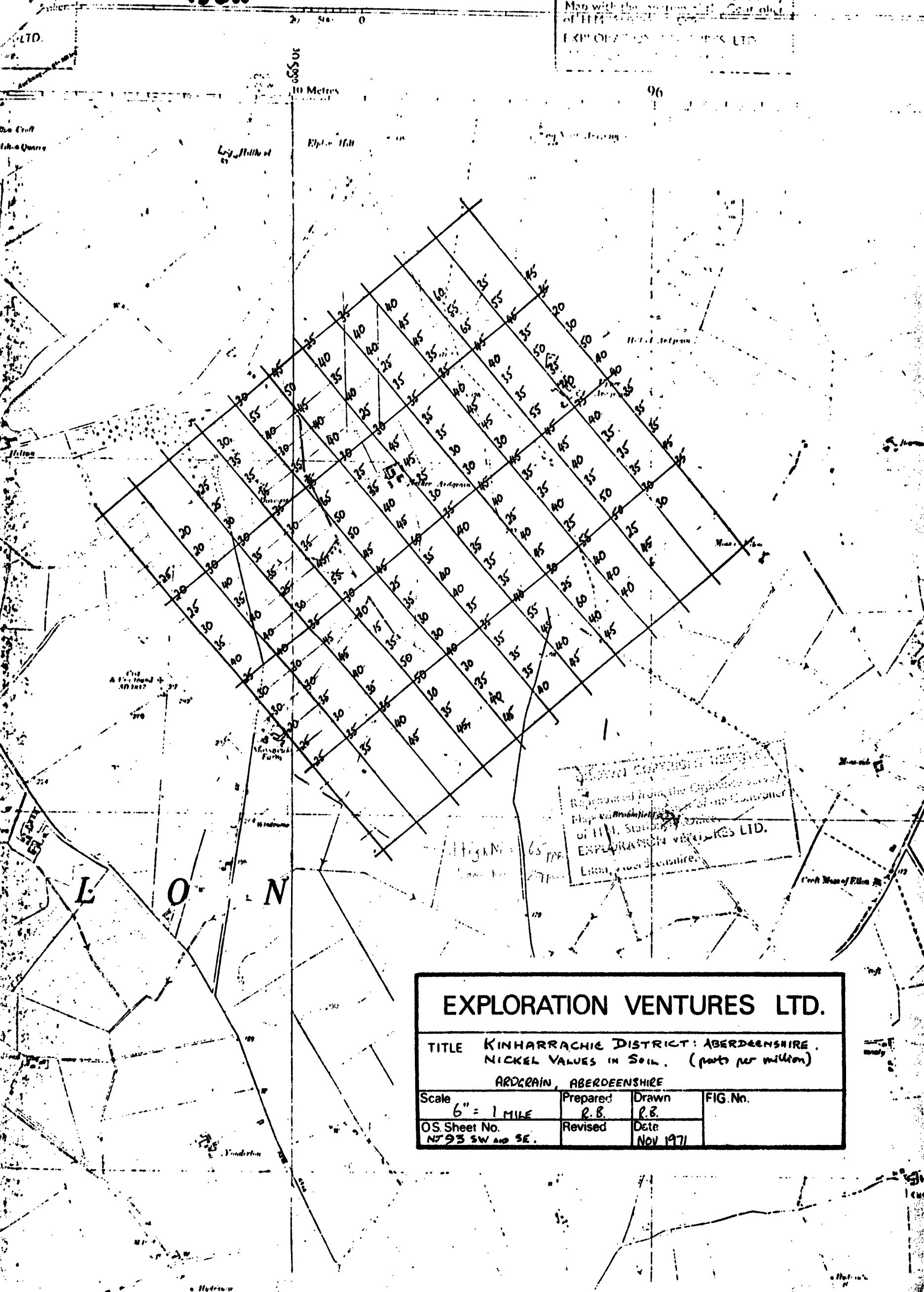
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TITLE KINHARRACHIE DISTRICT, ABERDEENSHIRE,
COPPER VALUES IN SOIL. (parts per million)
ARDRAIN, ABERDEENSHIRE

Scale 6" = 1 MILE	Prepared R.B.	Drawn R.B.	FIG. No.
OS Sheet No.	Revised	Date NOV 1971	

200 Scale



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TITLE KINHARRACHIE DISTRICT: ABERDEENSHIRE NICKEL VALUES IN SOIL. (parts per million)			
ARDGRAIN, ABERDEENSHIRE			
Scale 6" = 1 MILE	Prepared R.B.	Drawn R.B.	FIG. No.
OS Sheet No. NJ 93 SW AND SE.	Revised	Date NOV 1971	

RESERVED

Survey
out other

TS LTD.

air

the Croft

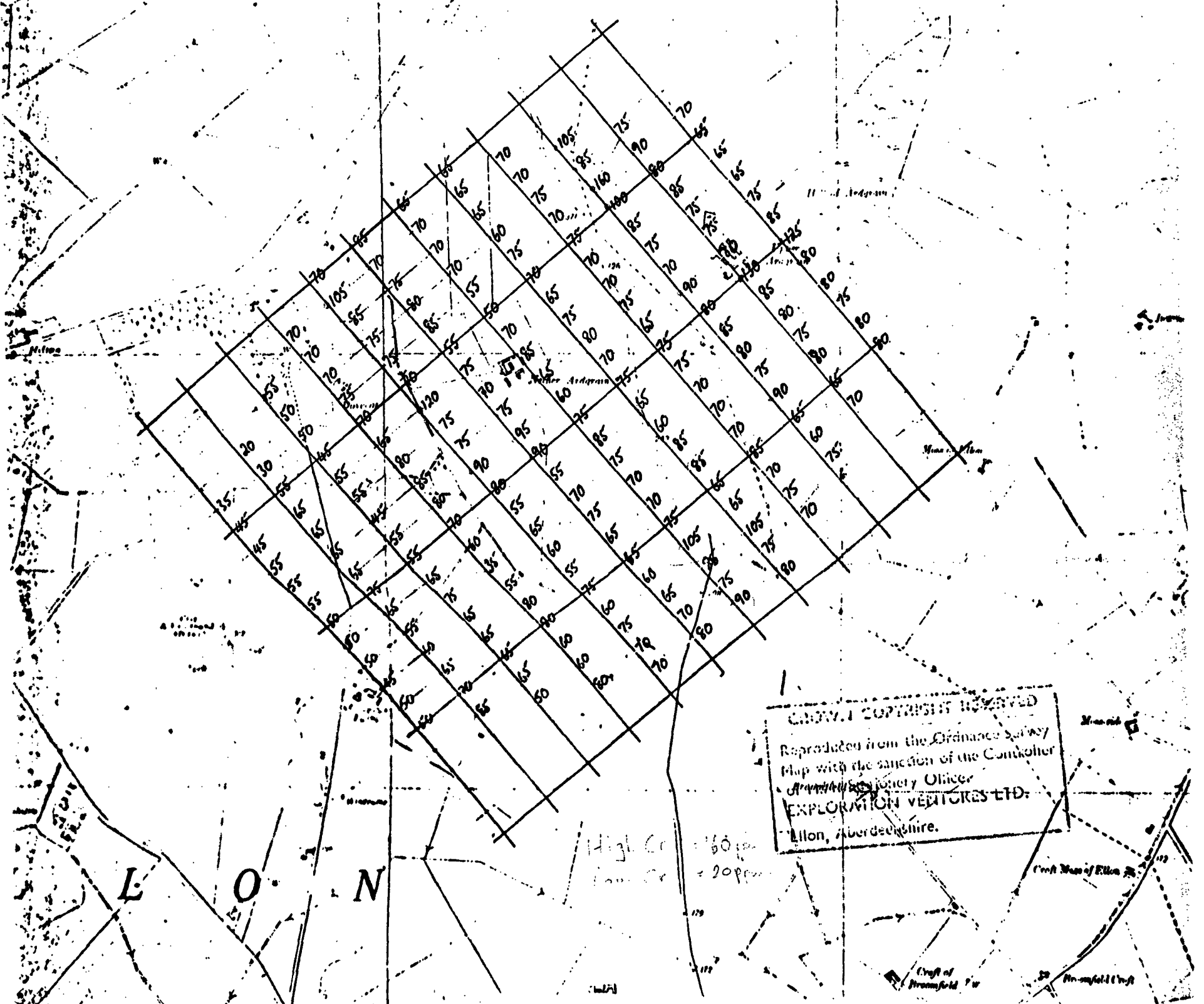
Hill Quarry

Log Hill

Elev. 160

96

10 Metres



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High Croft = 60 ppm
 Low Croft = 20 ppm

EXPLORATION VENTURES LTD.			
TITLE KINHARRACHIE DISTRICT, ABERDEENSHIRE. CHROMIUM VALUES IN SOIL. (parts per million)			
ARDGRAIN, ABERDEENSHIRE			
Scale 6" = 1 MILE	Prepared R.B.	Drawn R.P.	FIG. No.
O.S. Sheet No. NJ 93 SE and SW.	Revised	Date Nov 1971	

Vanderlin

Hydraulic Ram

Hydraulic Ram

