

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

Institute of Geological
Sciences

Geological Report: Strichen-Crimond AE28

28 JUN 1973

5, Princes Gate, London, SW7 1QH

During the period 9th August - 31st December 1971, the exploration programme on this project involved geological, geochemical and geophysical surveys.

(i) Geology

Reconnaissance mapping was undertaken in the northern part of the area to check outcrop type and determine the nature of basic and mineralised float patterns.

(ii) Geochemistry

A geochemical soil survey was carried out over an isolated magnetic anomaly near Rathen. A weak molybdenum pattern probably related to traces of metal in bedrock was detected.

(iii) Geophysics

a) Induced Polarisation

Reconnaissance three electrode array surveys were carried out over basic rocks south-east of Strichen and near Rathen. Only one anomaly at Skillymarno was investigated by a follow-up survey and was found to be related to a man-made conductor.

b) Magnetics

A detailed vertical force magnetic field survey was undertaken at Rathen to delimit an anomaly thought to be related to basic type rocks, which was eventually assessed by IP.

Enclosures

- NK 06 SW (E & W Halves) + text
NK 05 NE (NRS ") " "
- ✓ 1. Geological field sheets.
 - ✓ 2. Geochemical soil results at Rathen. (Cu, Cr, Mo & Ni)
 - ✓ 3. Induced polarisation survey results in the Strichen area.
 - ✓ 4. Induced polarisation survey results at Rathen.
 - ✓ 5. Vertical force magnetic field results at Rathen. (1 sheet only)

* * * Craigallie, recc. - Rathen area.
* Skillymarno, follow-up
* & Forest of Deer, recc.

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

COMPANY: EXPLORATION VENTURES LTD

REF: AE 28

MRD 84/5/21

PROJECT: STRICHEN CRIMOND

MRD 144/5/21

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 draft application 6.8.71 "Outline of proposed projects including geological considerations". With accompanying plan O.S. Sheet 5, 1" : 4 miles.

Geological report 9 Aug to 31 Dec 1972 with the following enclosures:

- (i) Location map 1" : 4 miles
- (ii) Geological field sheet with accompanying text. O.S. 6" Sheet NK 06 SW West and East halves. Aug '71
- (iii) Geological field sheet with accompanying text. O.S. 6" Sheet NK 05. North and West halves Aug '71
- (iv) Soil results for Rathen. 4 sheets: Mo, Cr, Ni, Cu
- (v) IP Chargeability and resistivity results Oct '71. Sheet NJ 95 SE & SW
- (vi) Chargeability results - Craigellie. Dec '71. Sheets NK 05 NW and NK 06 SW
- (vii) Resistivity Results - Skillymarnd. Dec '71. Sheet NJ 95 SE.
- (viii) Vertical Force magnetic field results. Rathen sheets NK 05 NW and NK 06 SW.

1972 Activity Report, including the following soil results for Rathen:

Fig 1 - Mo
Fig 2 - Cu
Fig 3 - Cr

- *‡ Report on Exploration for Molybdenum in East Aberdeenshire. March '73
- *‡ Map of molybdenum anomalies > 10 ppm

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 Stricken-Crimond

3. Applicants' organisation
& financial structure

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

4. Outline of proposed project,
including geological considerations

A little known geological area over which stream and soil reconnaissance with some mapping shows it to be predominantly of Dalradian metamorphics with a number of scattered drift covered 'magnetic bodies', presumed to be minor basic intrusions. The area has extensive drift coverage. The minerals sought in this area are Ni, Cu sulphides and any associated minerals.

5. Work programme and
cost of project

It is intended to continue the programme in this area with geophysical induced polarisation and magnetic surveys over selected targets for about one month followed by a geological mapping programme lasting about one and a half months.

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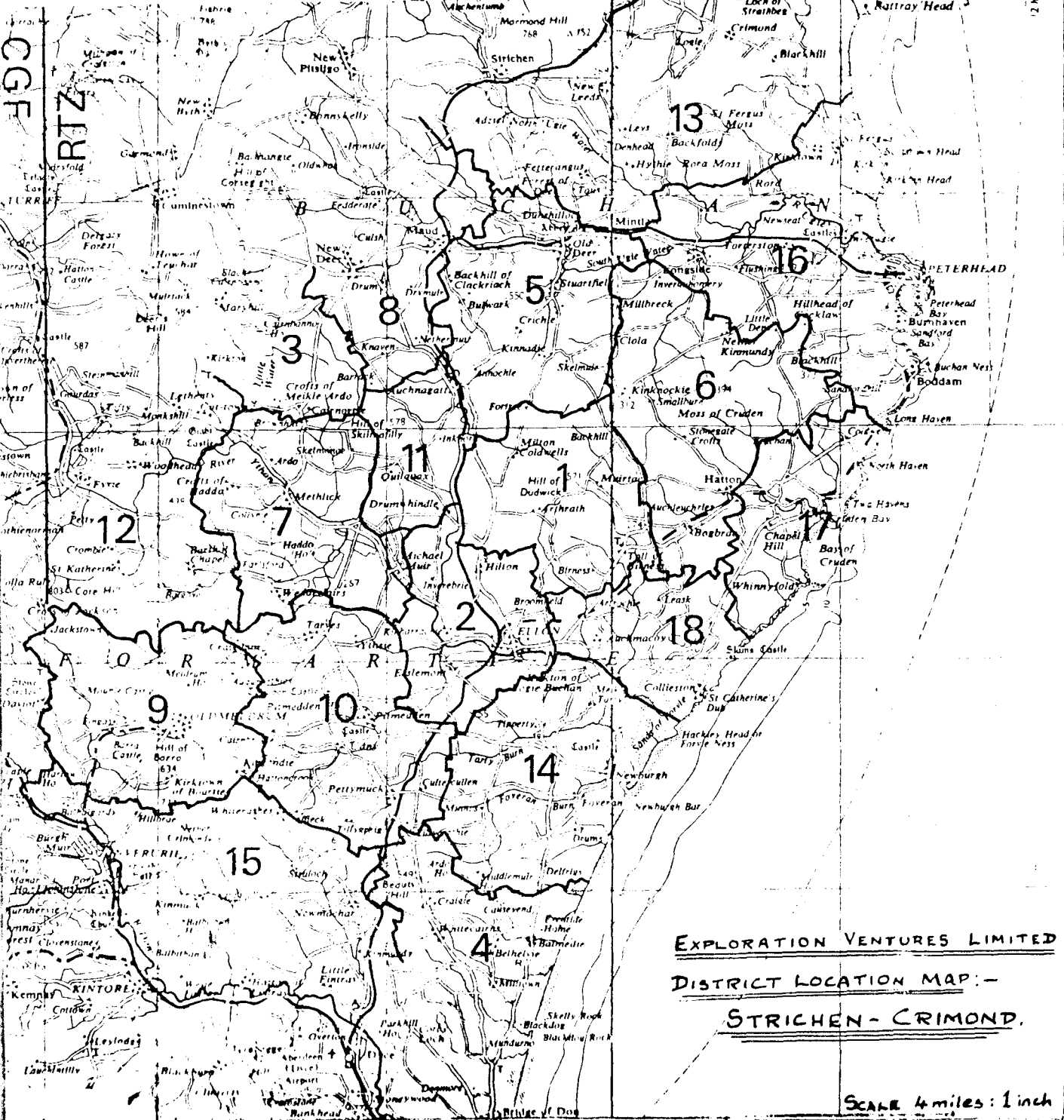
Enclosures

- NK 06 SW (E & W Helvics) + test
NK 05 NE (NRS ") " "
- ✓ 1. Geological field sheets.
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* Craigallie, recc.
Skillymarno, follow-up
& Forest of Dees, recc.

- ADMINISTRATIVE AREAS IN RIOFINEXS SECTOR

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

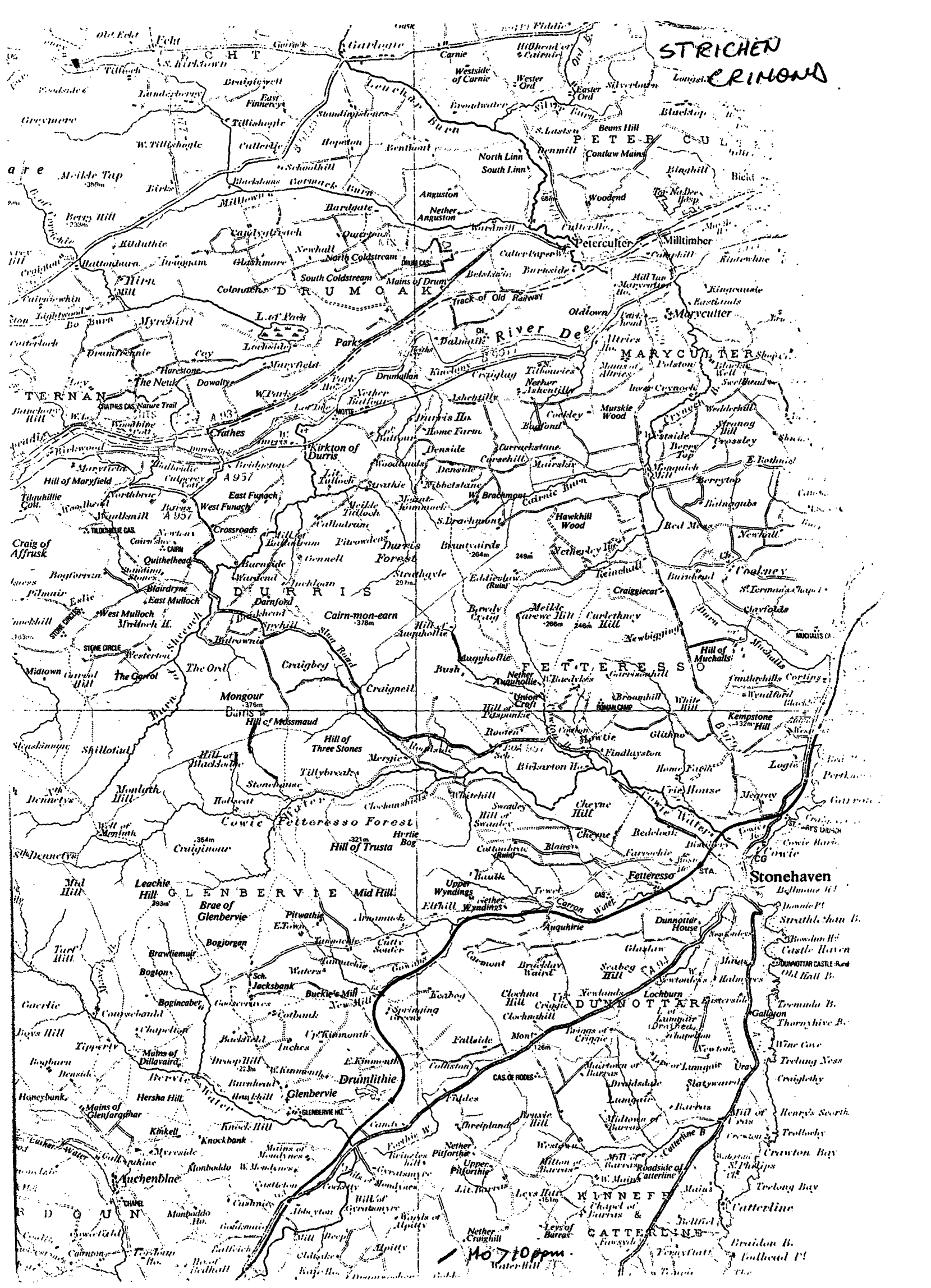


EXPLORATION VENTURES LIMITED
 DISTRICT LOCATION MAP: -
 STRICHEN - CRIMOND.

SCALE 4 miles : 1 inch

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 6, St. James' Square, London, S.W. 1

CGF
 RTZ



STRICHEN
CRIMON

River Deveron

DRUMMOAK

DURRIS

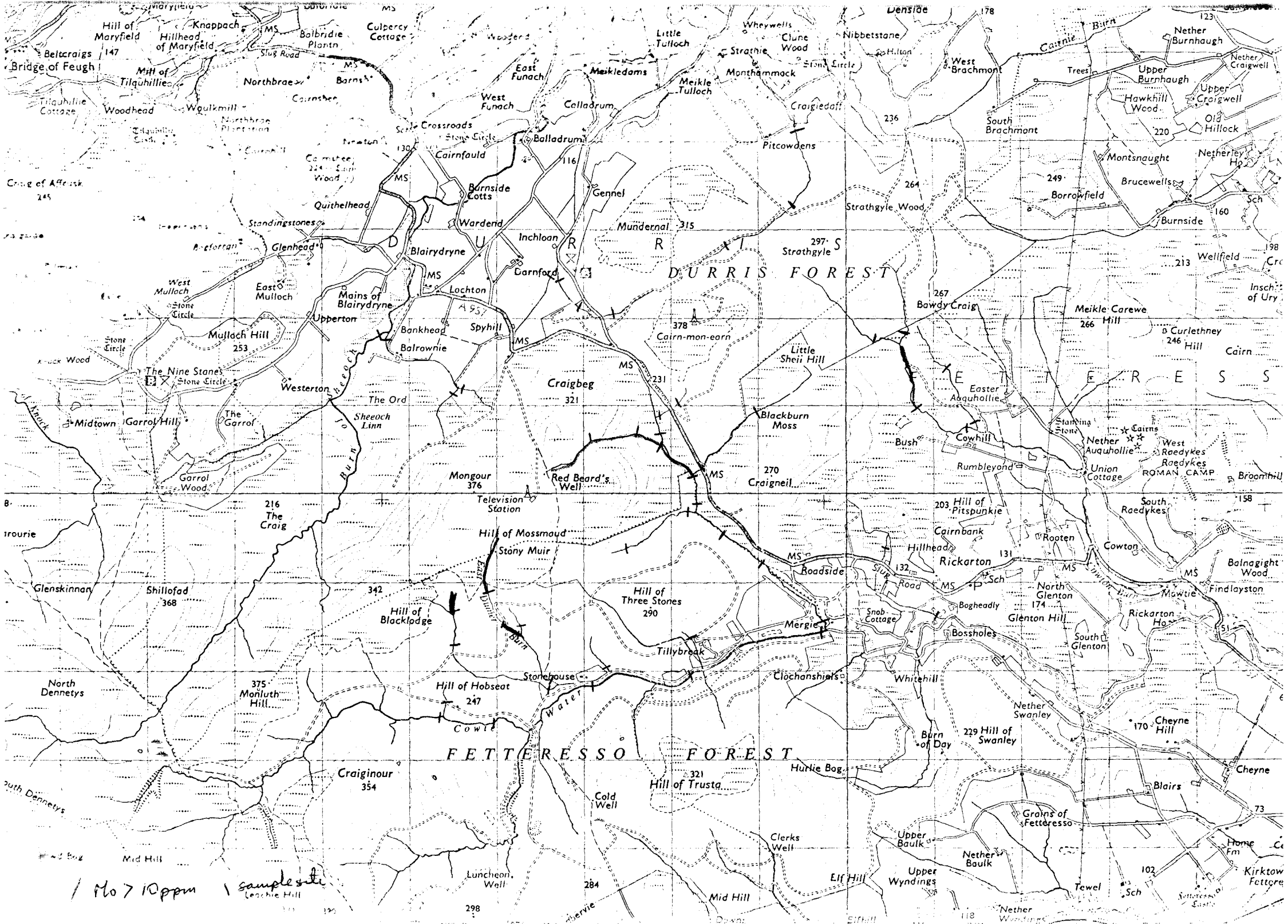
FETTERESS

GLENBERRIE

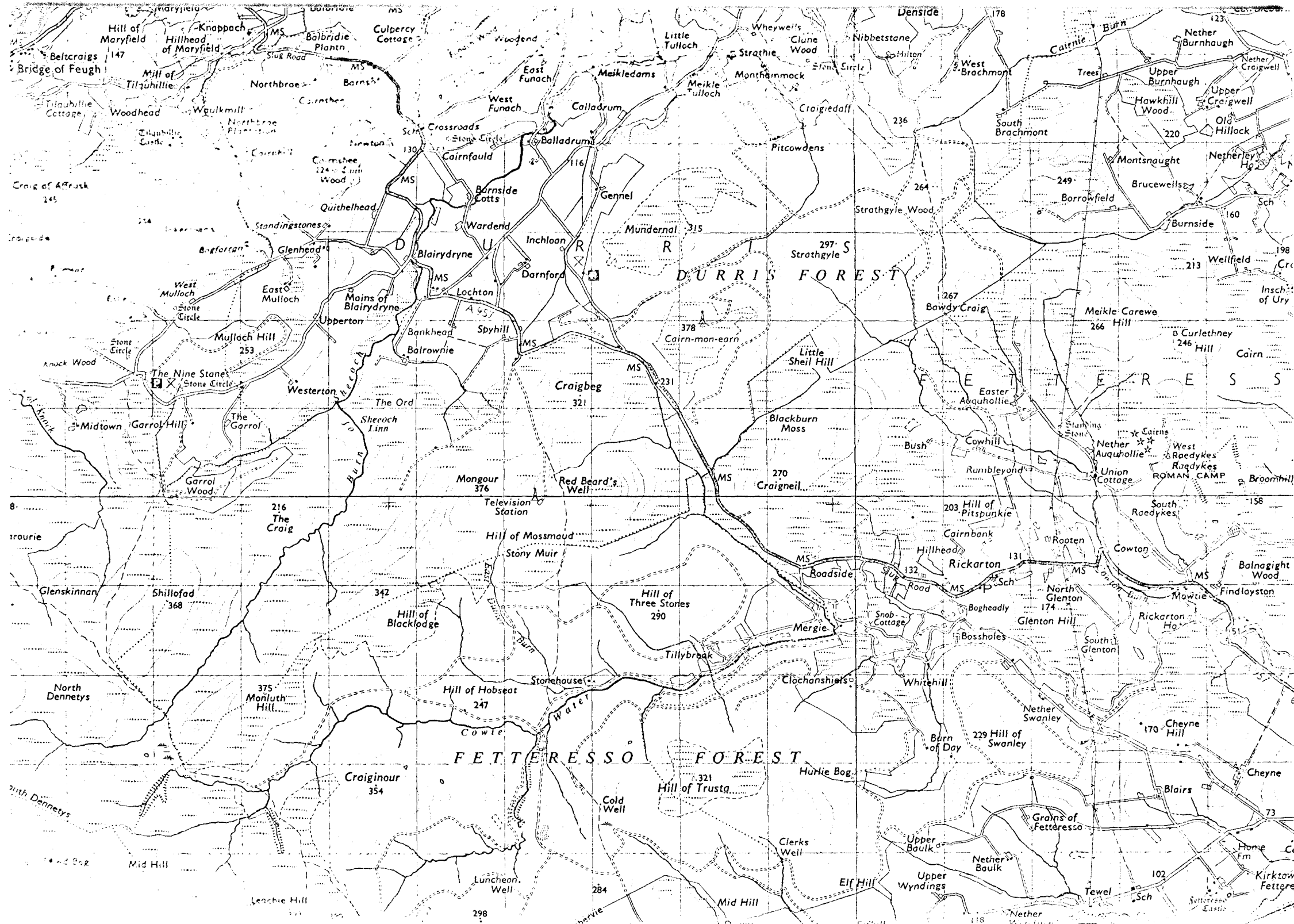
DUNNOTAR

KINNEFF
CATERLINE

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Waterhill



1 No 7 10ppm 1 sample site
Leachie Hill



Hill of Maryfield
147

Bridge of Feugh

Craig of Affrask
245

Glenskinnan

South Dennetys

Knappach
Balbridie
Culpercy Cottage

Northbrae
Barns

Glenhead
Westerton

Shillofad
368

North Dennetys

Mid Hill

East Funach
West Funach

Colladrum
Balladrum

Blairdryne
Lochton

Hill of Blacklodge
342

375
Mouluith Hill

Craiginour
354

Maikledams
Meikle Tulloch

Cairnfauld
Barnside Cottis

Warden
Darnford

Hill of Hobseat
247

Hill of Trusta
321

Cold Well

Wheyl's
Clune Wood

Strathgyle
Pitcowdens

Mundernal
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Hill of Three Stores
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Stonehouse
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284

Strathie
Monhammock

Meikle Tulloch
Craigiedaff

297
Strathgyle

Mergie

Clochanshiels

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Denside
Hilton

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267
Bowdy Craig

Roadside
132

Whitehill

229
Hill of Swanley

West Brachmont
South Brachmont

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Borrowfield

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Hill

131
Rickarton

Nether Swanley

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Upper Burnhaugh
Upper Craighill

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Old Hillock

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Wellfield

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North Glenton

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Cheyne Hill

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DURRIS FOREST

FETTERESSO FOREST

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Craigneil

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Craigneil

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Hill of Pitspunkie

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Rickarton

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North Glenton

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The Craig

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Television Station

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Hill of Pitspunkie

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Rickarton

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North Glenton

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GEOLOGICAL NOTES ON O.S. SHEET NK 05 NE

STRICHEN-CRIMOND DISTRICT

Hardly any float was found in this region. In many fields, especially round the coast, there was no float at all. In a few walls beside Crimond Airfield there was an abundance of biotite gneiss with numerous occurrences of gabbroic basics in the same vicinity. Other areas with float were around Rattray House, where assorted gneisses and some coarse grained granite were found. To the west of this, some blocks of mica schists were found in walls. The only other rocks found were quartzite - usually in rounded boulders - and a siliceous hornfels, which were sparsely distributed.

GEOLOGICAL NOTES ON O.S. SHEET NK 06 SW

STRICHEN-CRIMOND DISTRICT

As the most cursory examination of the map indicates, there are very few concentrations of basic float in this area of Dalradian metamorphics.

Due to the presence of a thick overburden, mainly of sand, a large (disused) air field and golf course, there is very little float north of grid line 63. In this area, according to some farmers, most of the rocks present at all are 'imported' - further indicated by the very rounded shape of most of the blocks. Hence the only interesting sample here is provided by a weathered calcareous schist (1) with traces of sulphide.

In the rest of the area float is generally plentiful, corresponding locally to the gneissic outcrop nearest. Most of the old manuscript outcrops are still visible and appear to be accurate in petrological terms.

Fundamentally, there is a good exposure of assorted usually coarse biotite gneisses in the centre, grading eastwards into more compacted, occasionally crystalline blue gneisses which also appear to the extreme south, (18). Westwards from this, the quarry of 011608 (9) exposes a very pure siliceous schist - virtually a quartzite. This siliceous float is more abundant towards the west, but rounded blocks extend across to the eastern areas as well. Vein quartz - invariably barren - is present as fairly angular blocks in most walls, but never in appreciable concentrations. Pegmatite has a similar light distribution.

A fine biotite schist (19) outcrops in the extreme south, but float is fairly localised with no extensive distribution.

Throughout the area rounded gabbro and doleritic blocks occasionally occur, no basic outcrop noted. The only significant concentrations occur in the east-south centre.

Very little noticeable sulphides occur in the area as a whole, although a minor concentration - pyrites in a few blocks of very rusty weathered quartzite and contaminated basic - appears in the vicinity of 010603.

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(RIOFINEX)

1972 .ACTIVITY REPORT

THE STRICHEN - CRIMOND DISTRICT (DEI Code AE 28)

SUMMARY

In January and February 1972 extension soil lines were sampled in the Rathen, area to assess more fully the locality and delimit the molybdenum anomaly more precisely.

1. GEOLOGY Nil

2. GEOCHEMISTRY

Weak molybdenum anomalies were delimited to the east of Rathen, chromium values were in the background range and a few samples at the north of the soil grid showed anomalous copper. No encouragement has been obtained from geological or geophysical surveys over this target and it is concluded that the metal values probably relate to insignificant mineralisation.

3. GEOPHYSICS Nil

4. DRILLING Nil

Enclosures

(i) Molybdenum results

(ii) Copper results

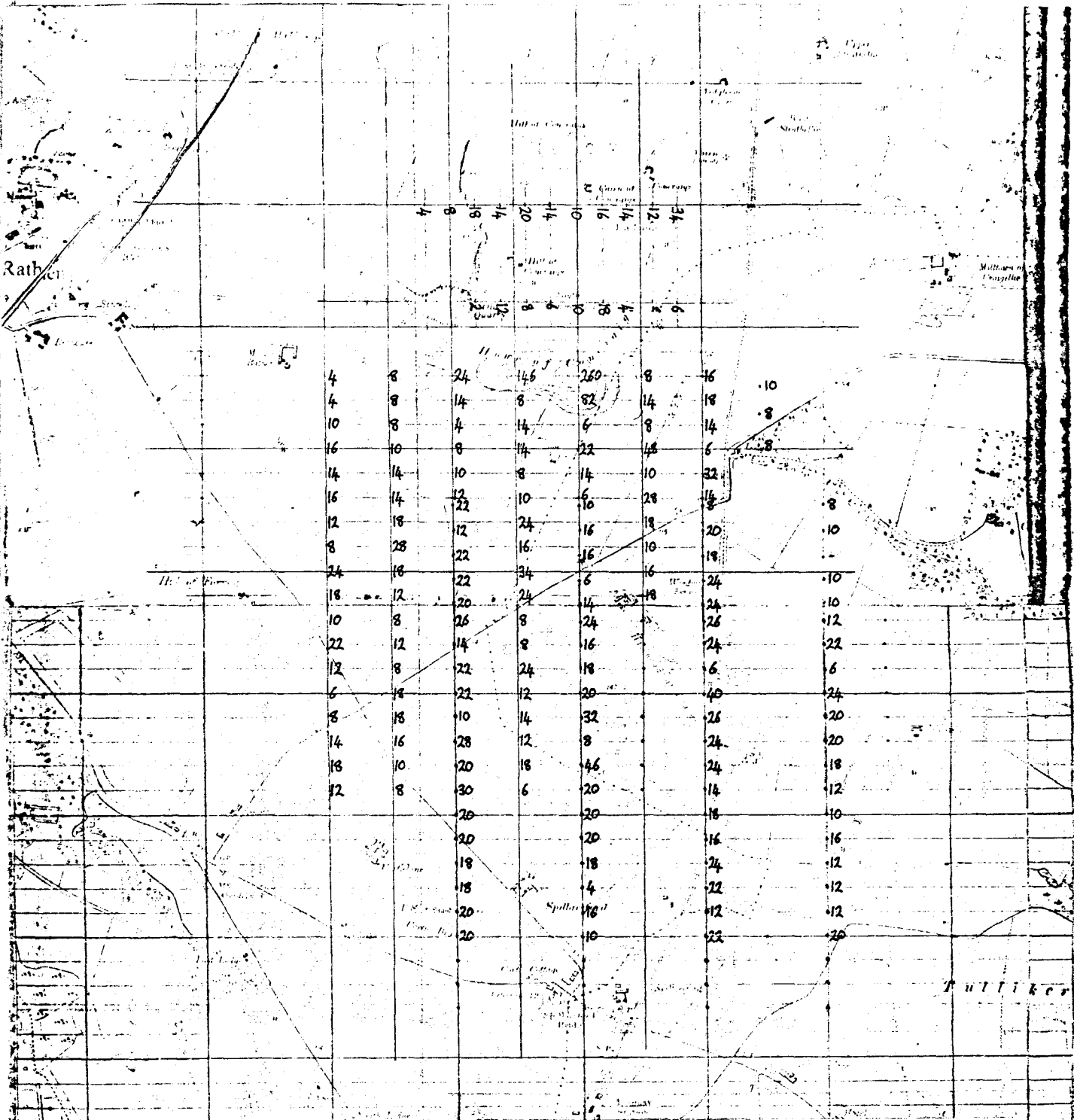
(iii) Chromium results



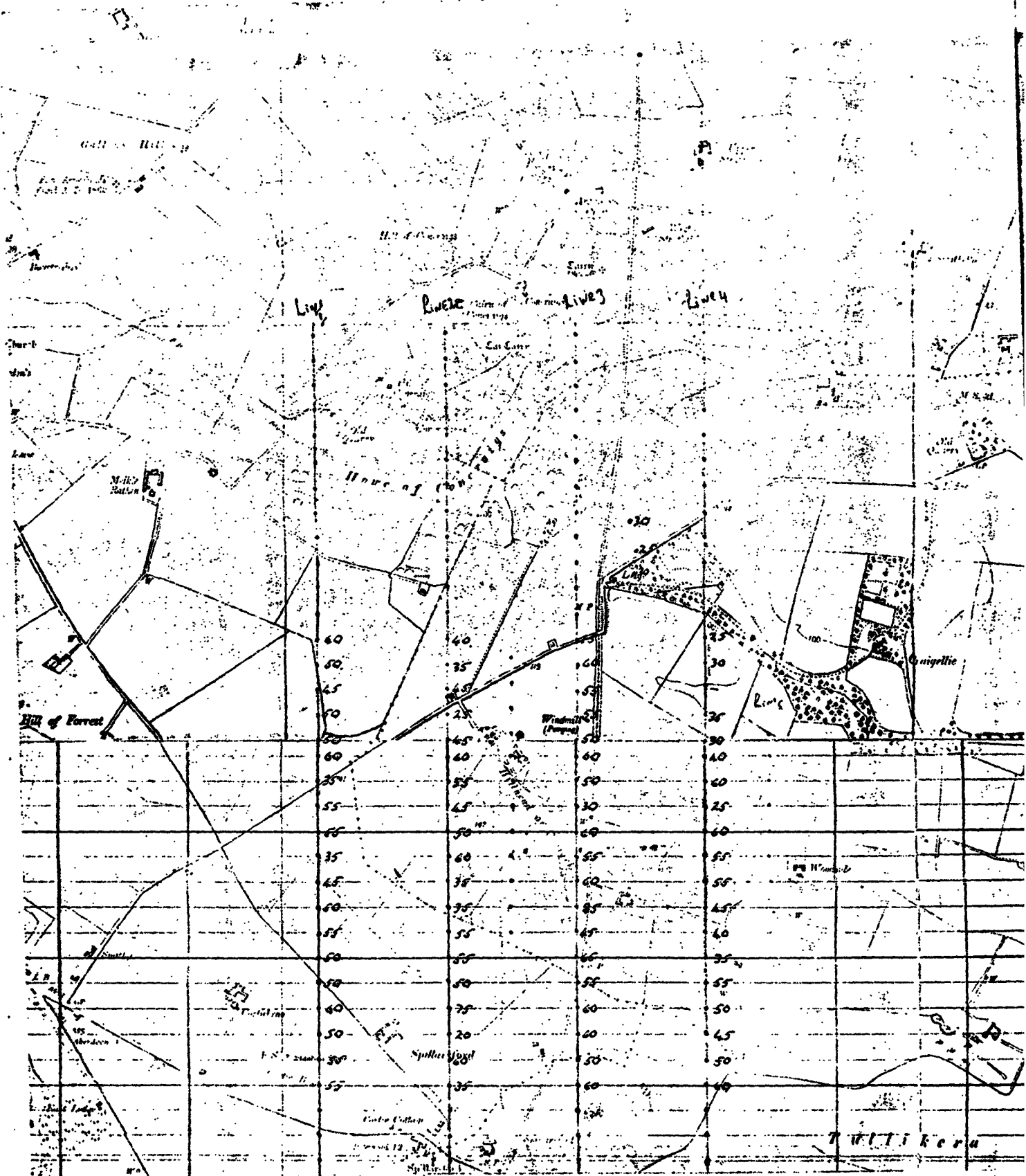
CONTOUR KEY



EXPLORATION VENTURES LTD.			
TITLE SOIL MOLYBDENUM RESULTS RATHEN, ABERDEENSHIRE			
Scale 6" = 1 MILE	Prepared A.M.	Drawn A.M.	FIG. No. 1
OS Sheet No. NK 05 NW & 06 SW	Revised	Date FEB 1972	



EXPLORATION VENTURES LTD.			
TITLE SOIL COPPER RESULTS RATHEN, ABERDEENSHIRE			
Scale	6" = 1 MILE	Prepared A.M.	Drawn A.M.
OS Sheet No.	NR 05 NW 406 SW	Revised	Date FEB 1972
			FIG. No. 2



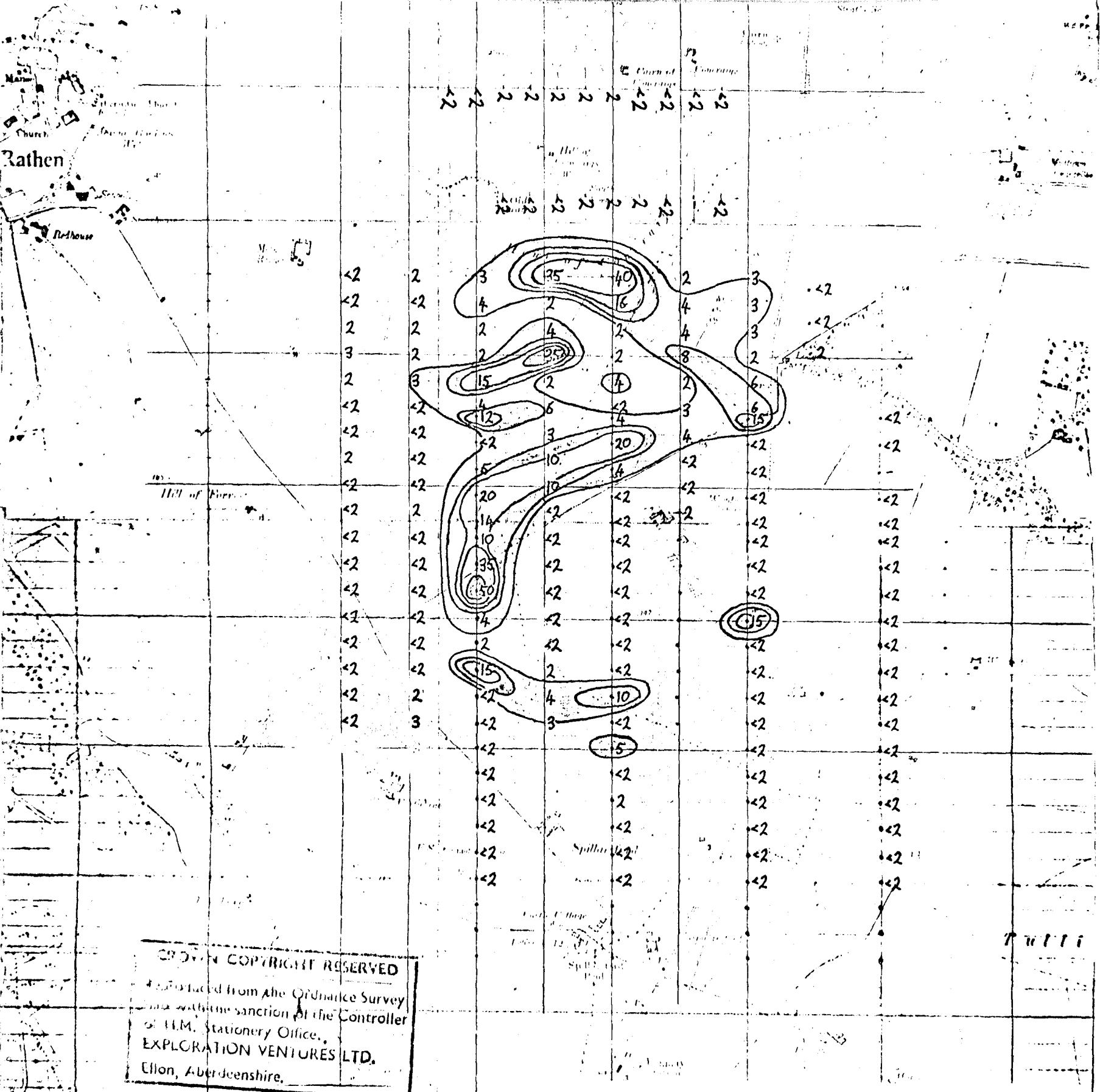
EXPLORATION VENTURES LTD.			
TITLE SOIL CHROMIUM RESULTS RATHEN, ABERDEENSHIRE			
Scale	Prepared	Drawn	FIG. No. 3
6" = 1 MILE	D.H.	D.H.	
O.S. Sheet No.	Revised	Date	
NK 05 SV		JAN 1972	

Rathen

4	8	24	8	16	10
4	8	14	8	14	18
10	8	4	14	6	8
16	10	8	14	22	48
14	14	10	8	14	10
16	14	12	10	6	28
12	18	12	24	16	18
8	28	22	16	16	10
24	18	22	34	6	16
18	12	20	24	14	18
10	8	26	8	24	24
22	12	14	8	16	26
12	8	22	24	18	24
6	18	22	12	20	6
8	18	10	14	32	40
14	16	28	12	8	26
18	10	20	18	46	24
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STRICHEN - CRIMOND DISTRICT.			
TITLE		SOIL COPPER RESULTS	
RATHEN, ABERDEENSHIRE		units: parts per million	
Scale	6" = 1 MILE	Prepared	Drawn
		A.M.	A.M.
OS Sheet No.	Revised	Date	FIG No
NK 05 NW 206 SW		DEC 1971	

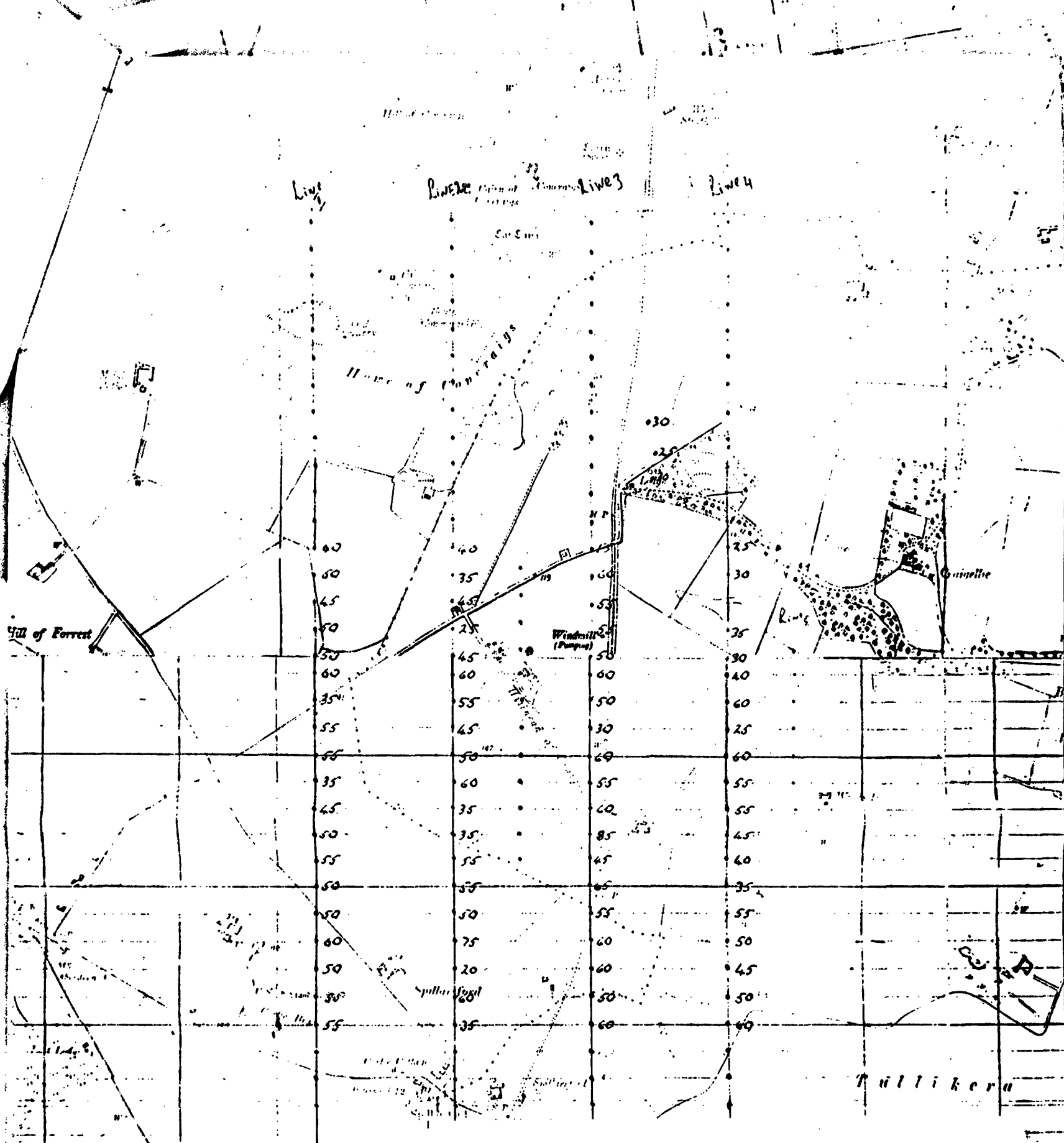


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CONTOUR KEY

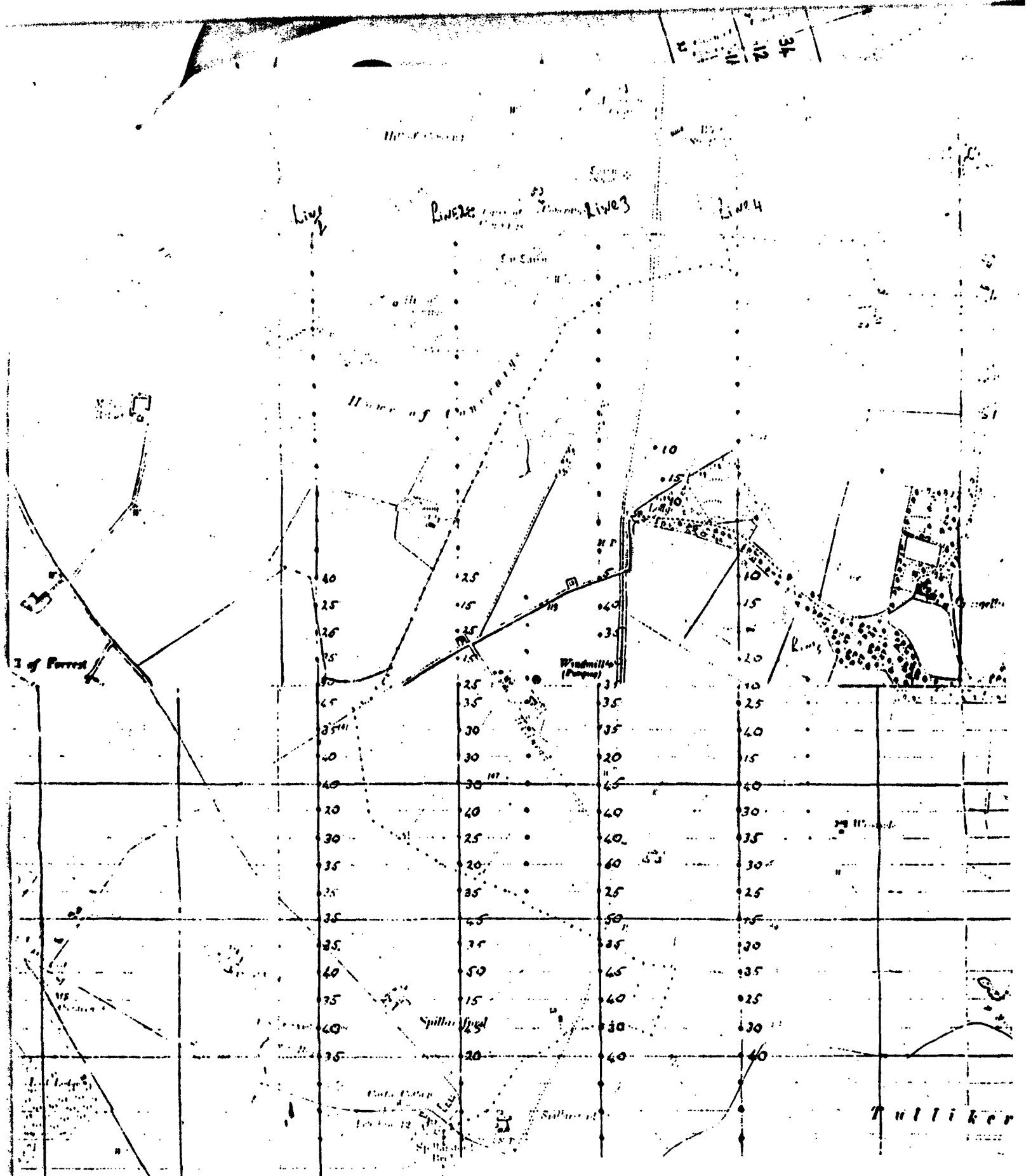
3-6 ppm	
6-10 ppm	
10-20 ppm	
20-40 ppm	
>40 ppm	

EXPLORATION VENTURES LTD.			
TITLE		STRICHEN - CRIMOND DISTRICT. SOIL MOLYBDENUM RESULTS units: parts per million	
RATHEN, ABERDEENSHIRE			
Scale 6" = 1 MILE	Prepared A.M.	Drawn A.M.	FIG No.
OS Sheet No. NK 05 NW 2 06 SW	Revised	Date DEC. 1971	



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STRICHEN - CRIMOND DISTRICT.			
TITLE		SOIL CHROMIUM RESULTS	
RATHEN, ABERDEENSHIRE		units: parts per million	
Scale	Prepared	Drawn	FIG. No.
6" = 1 MILE	D.H.	D.H.	
OS Sheet No.	Revised	Date	
NK 06 SW		DEC 1971	

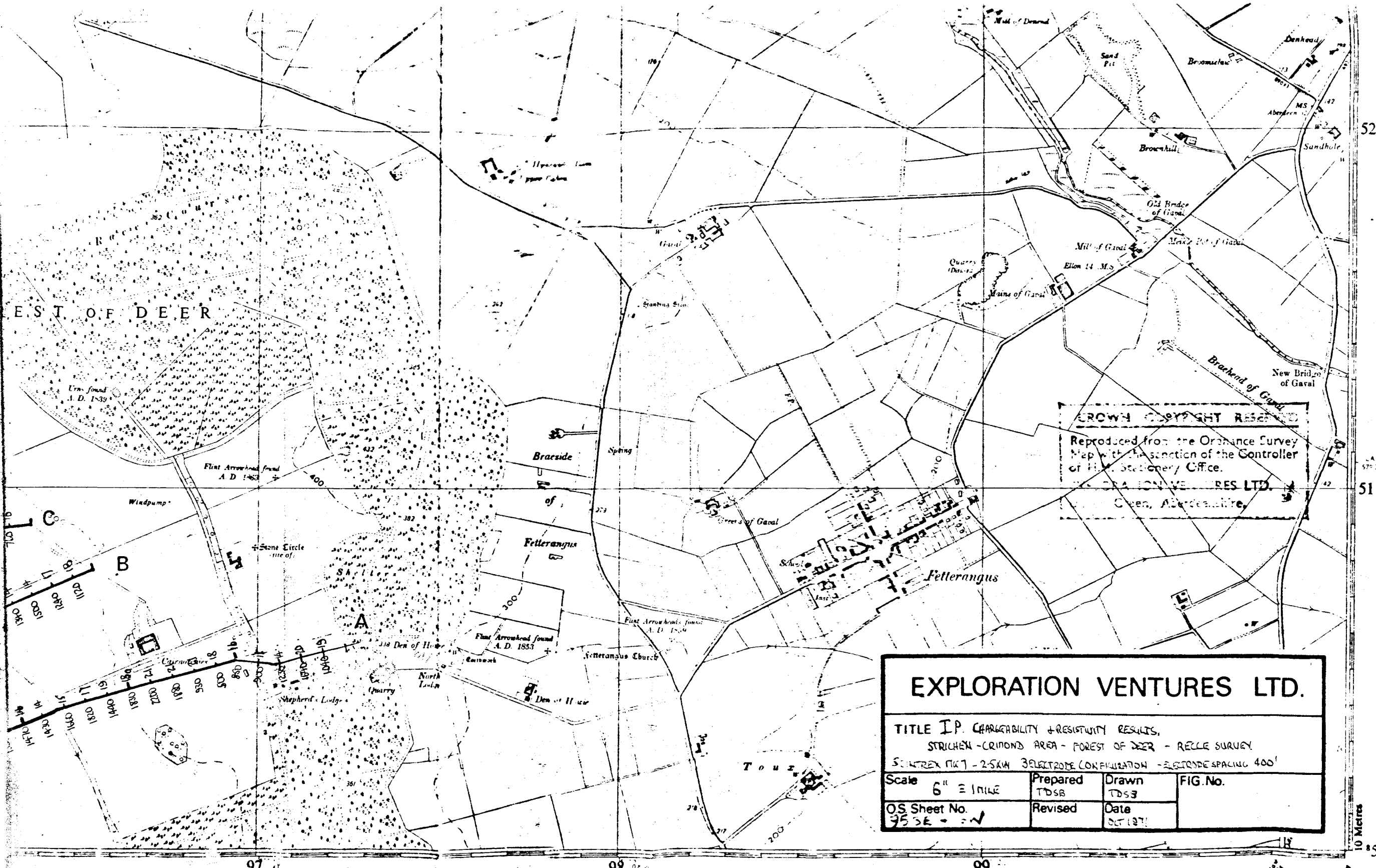


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TITLE STRICHEN - CRIMOND DISTRICT.
 SOIL NICKEL RESULTS
 RATHEN, ABERDEENSHIRE units: parts per million

Scale 6" = 1 MILE	Prepared D.H.	Drawn D.H.	FIG No IV
OS Sheet No. NK 06 SW	Revised	Date DEC. 1971	

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TITLE IP. CHARGABILITY & RESISTIVITY RESULTS,
 STRILHEN - CRINDON AREA - FOREST OF DEER - RECLE SURVEY
 SCHEMEX MK7 - 2.5KV 3ELECTRODE CONFIGURATION - ELECTRODE SPACING 400'

Scale 6" = 1 MILE	Prepared TDSB	Drawn TDS3	FIG. No.
OS Sheet No. 95 SE = N	Revised	Date OCT 1971	

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AT 57-33 51

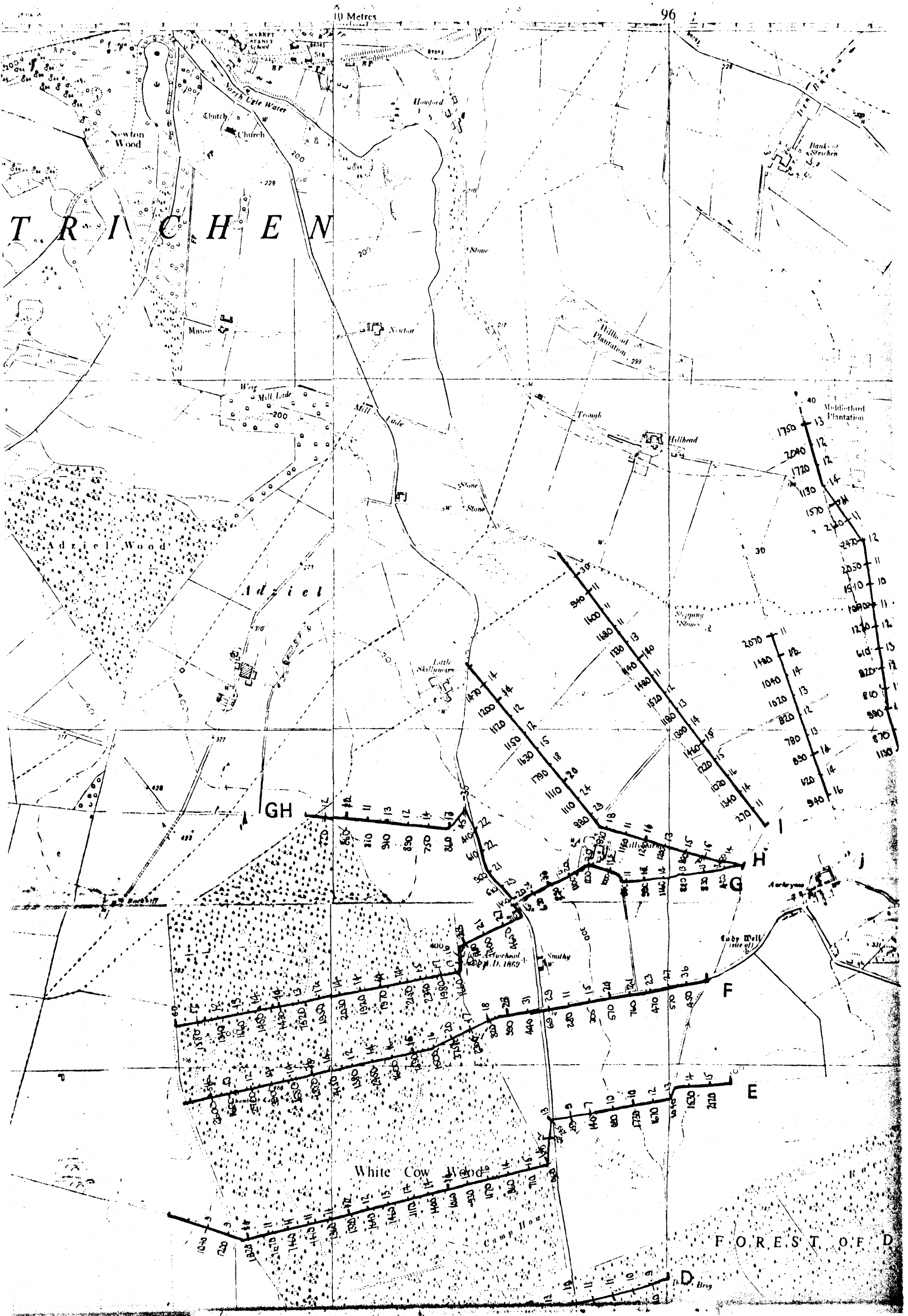
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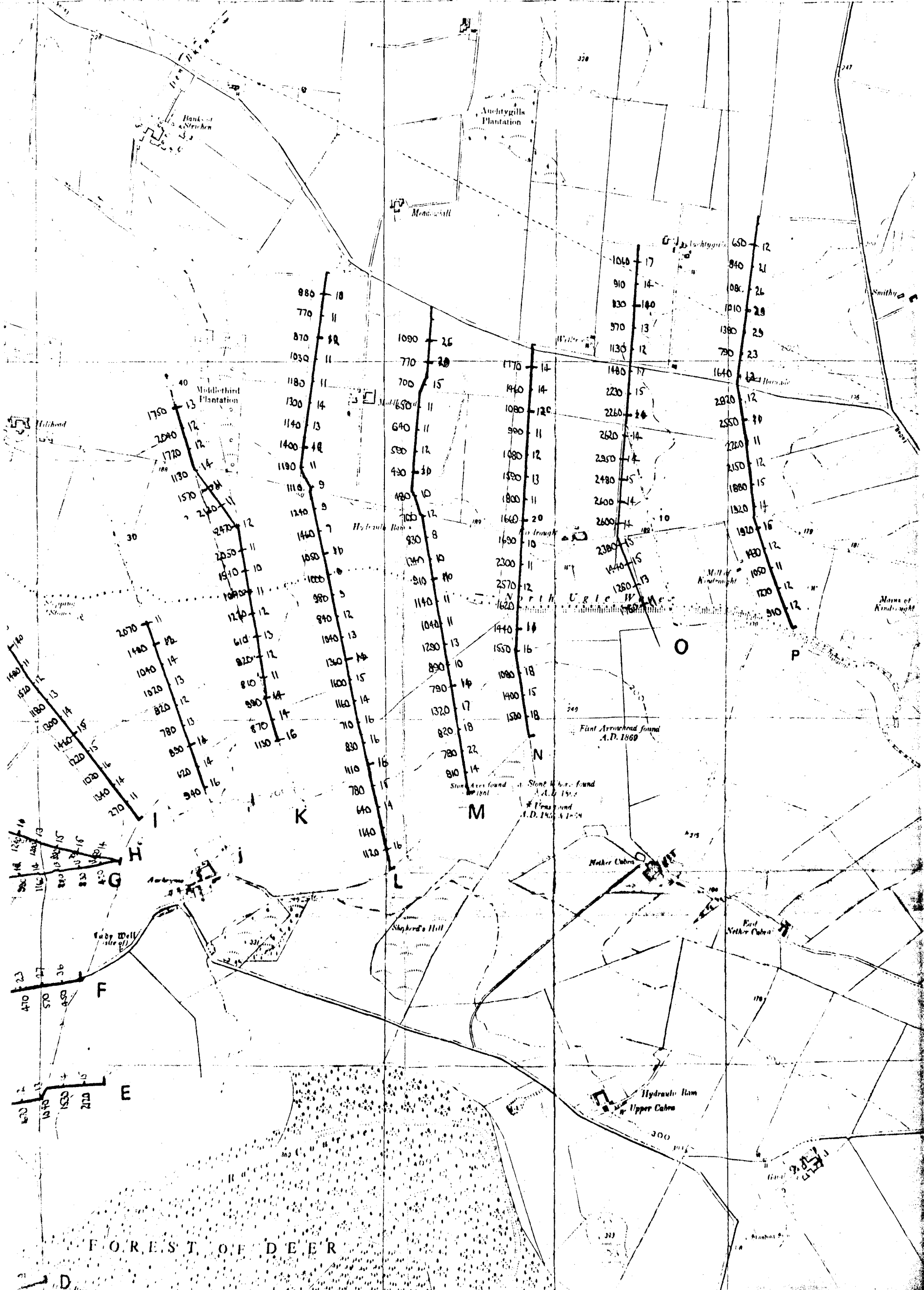
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99

T R I C H E N





FOREST OF DEER

Anchtigills Plantation

Bank of Strichen

Monks Hill

Middlethird Plantation

Smithy

Hydraulic Ram

Nether Cabin

Monks of Kindnight

Flint Arrowhead found
A.D. 1869

Stone Axes found
1861

Stone Ware found
A.D. 1500

Flint Ware found
A.D. 1400 & 1500

Nether Cabin

East Nether Cabin

Hydraulic Ram
Upper Cabin

Bank of Strichen

D

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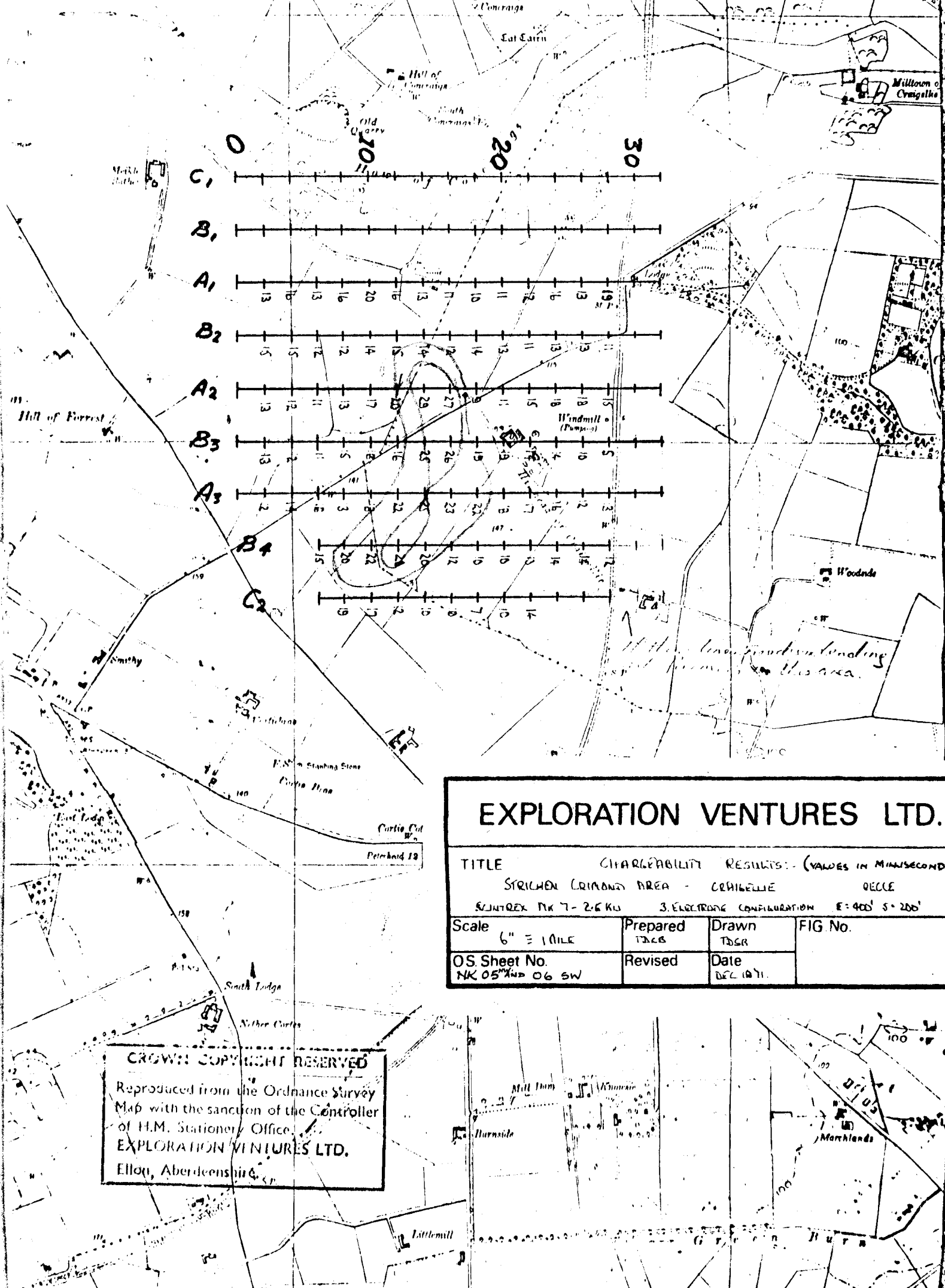
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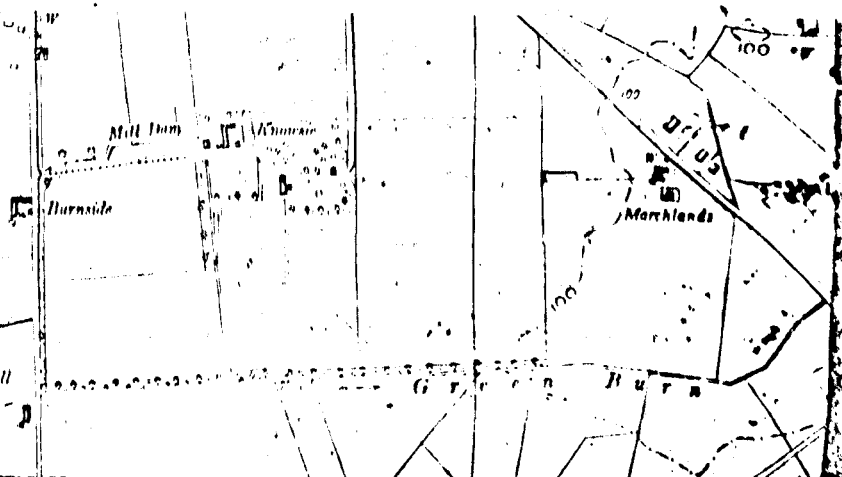
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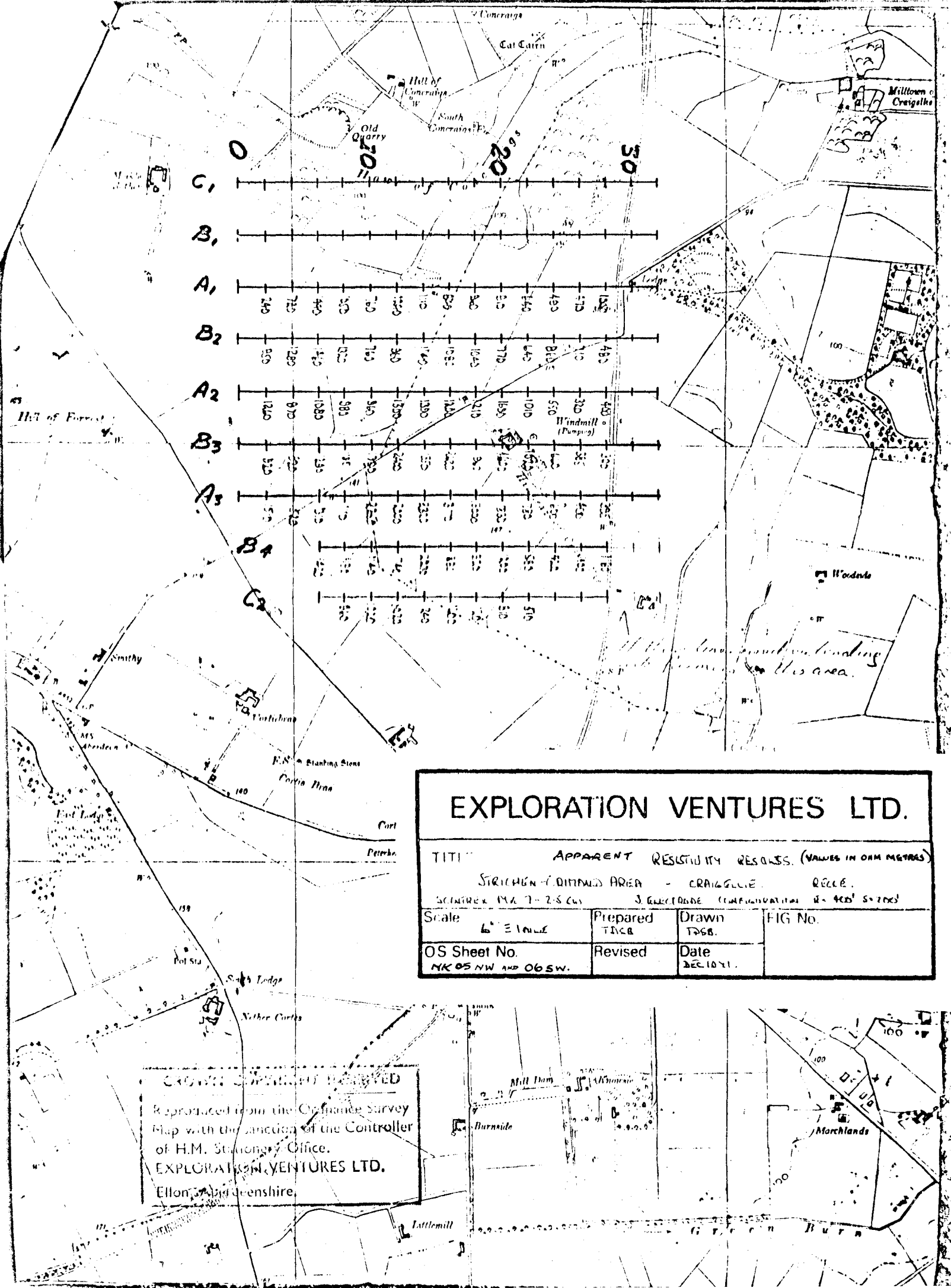
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EXPLORATION VENTURES LTD.			
TITLE		CHARGABILITY RESULTS: (VALUES IN MINISECONDS)	
STRICHEN CRINOID AREA - CRAIGELLIE		DECCE	
SCINTILLER NK 7-2.6 KU		3. ELECTRIC CONDUCTION E=400 S=200	
Scale	Prepared	Drawn	FIG No.
6" = 1 MILE	TDCB	TDCB	
OS Sheet No.	Revised	Date	
NK 05 and 06 SW		DEC 1971	

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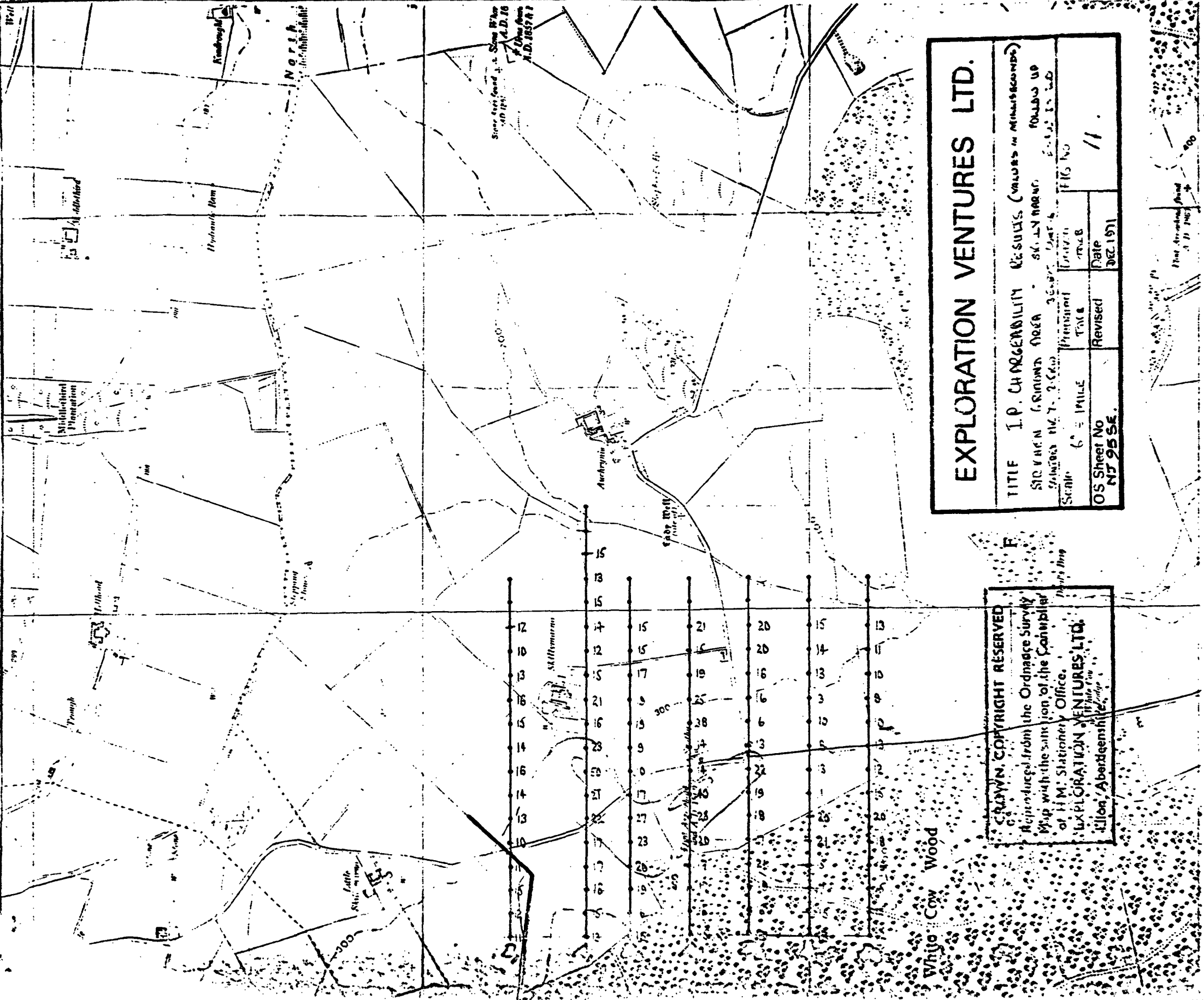
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TITLE: APPARENT RESISTIVITY RESOUNDS. (VALUES IN OHM METRES)
 STRITHEN - CONINGDALE AREA - CRAIGGLUE. REECC.
 SCHEMATIC No. 7-25-61 J. G. G. (CONINGDALE) 4-400' 5-700'

Scale 6" = 1 MILE	Prepared T.V.C.B.	Drawn T.G.B.	FIG No.
OS Sheet No. NK 05 NW AND 06 SW.	Revised	Date DEC 1961.	

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*All the low resistivity readings
 are probably due to this area.*



EXPLORATION VENTURES LTD.

TITLE		I.P. CHARGIBILITY RESULTS (VALUES IN MINISECONDS)	
STATION	CRINOID NO. 2	SK. IN HAND	FOLLOW UP
SCALE	6" = 1 MILE	PREPARED BY	FIG. NO.
OS Sheet No	NY 95 SE	REVISED	DATE
			DEC 1911

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12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

White Cow Wood

11

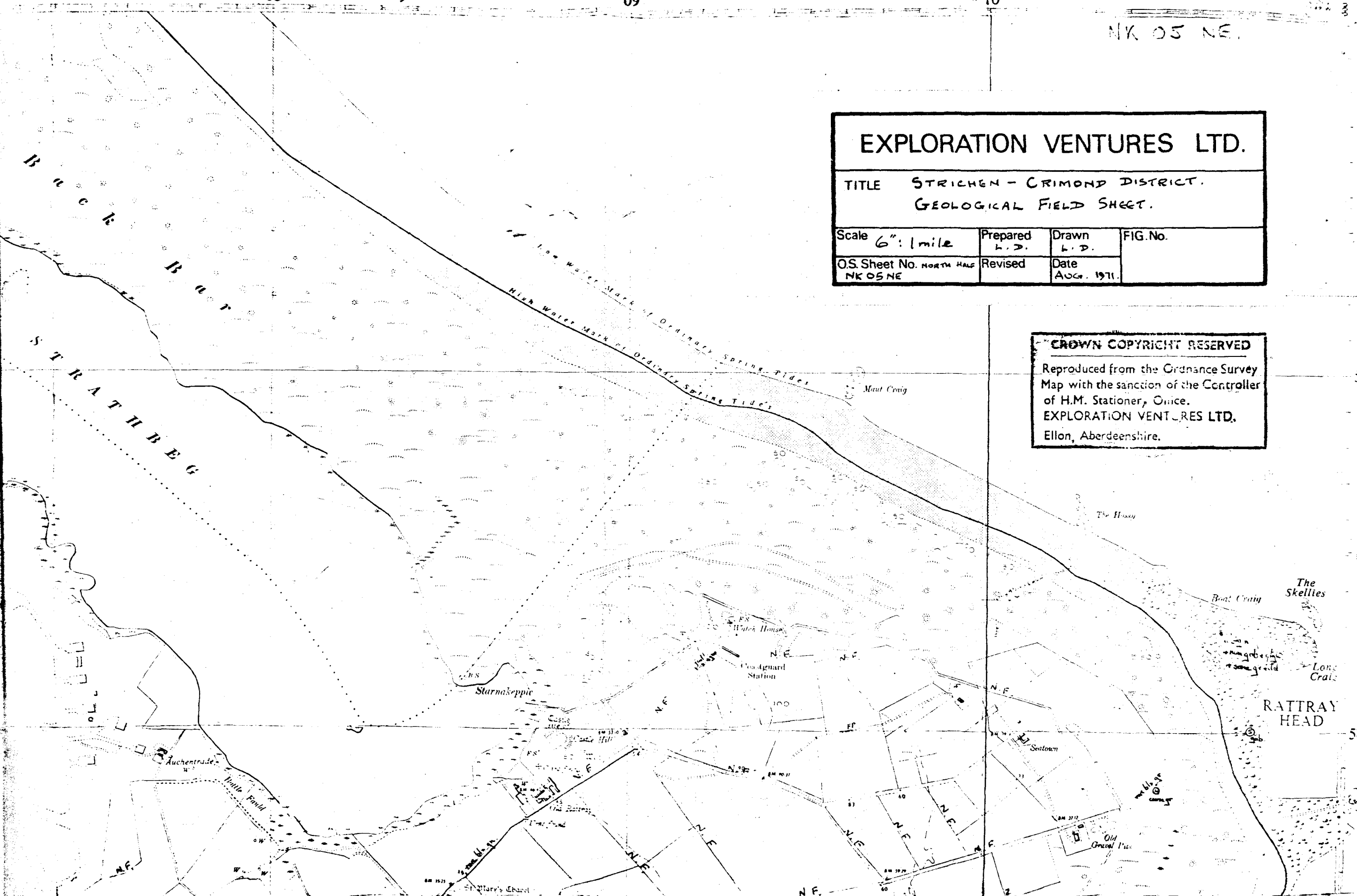
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TITLE STRICHEN - CRIMOND DISTRICT.
GEOLOGICAL FIELD SHEET.

Scale 6" : 1 mile	Prepared L.D.	Drawn L.D.	FIG.No.
O.S. Sheet No. NORTH HALF NK 05 NE	Revised	Date AUG. 1971.	

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60000

10 Metres

06

07

08



DEER DISTRICT

58

59

The Heugh

Airfield
(Disused)

LOCH OF STRATHBEG

Auchentrae

Windmill
(Disused)

Boat House

Tie Craft

Lays

Mosses

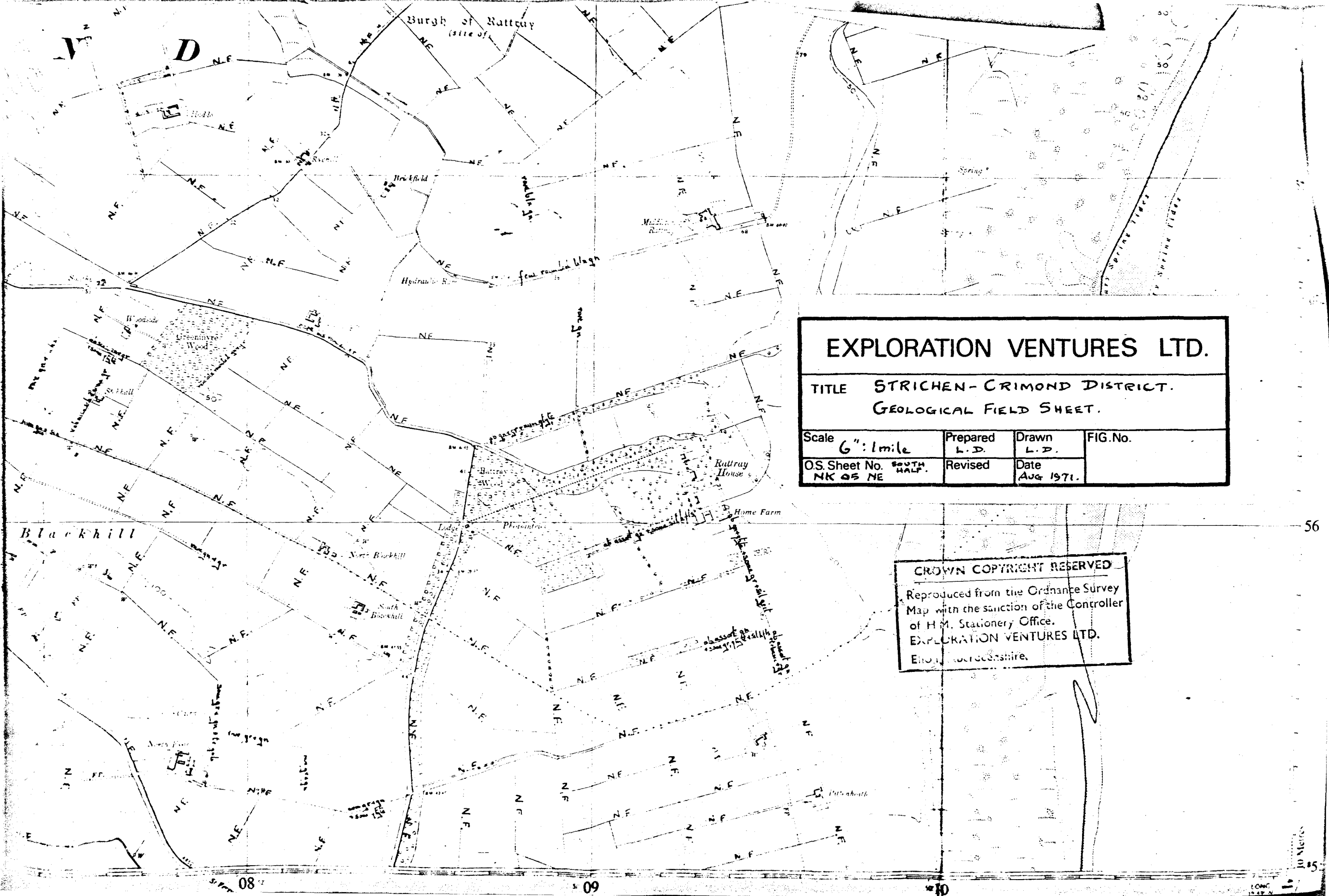
Church
(remains of)

Motte

Crucifix Place

Crimond Bells

Butte Point



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TITLE **STRICHEN-CRIMOND DISTRICT.**
GEOLOGICAL FIELD SHEET.

Scale 6" : 1 mile	Prepared L.D.	Drawn L.D.	FIG.No.
OS Sheet No. SOUTH HALF. NK 05 NE	Revised	Date AUG 1971.	

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 Enniscorthy, Wexfordshire.

W D

Blackhill

08

09

10

56

55

10 Metres

LONG 12 47 N

C R I M O N D

57

Crimond

56

Blackhill

10 Metres

10 Metres

06

07

08



GEOLOGICAL NOTES ON O.S. SHEET NK 05 NE

STRICHEN-CRIMOND DISTRICT

Hardly any float was found in this region. In many fields, especially round the coast, there was no float at all. In a few walls beside Crimond Airfield there was an abundance of biotite gneiss with numerous occurrences of gabbroic basics in the same vicinity. Other areas with float were around Rattray House, where assorted gneisses and some coarse grained granite were found. To the west of this, some blocks of mica schists were found in walls. The only other rocks found were quartzite - usually in rounded boulders - and a siliceous hornfels, which were sparsely distributed.

Bonnie Downe

White Spot

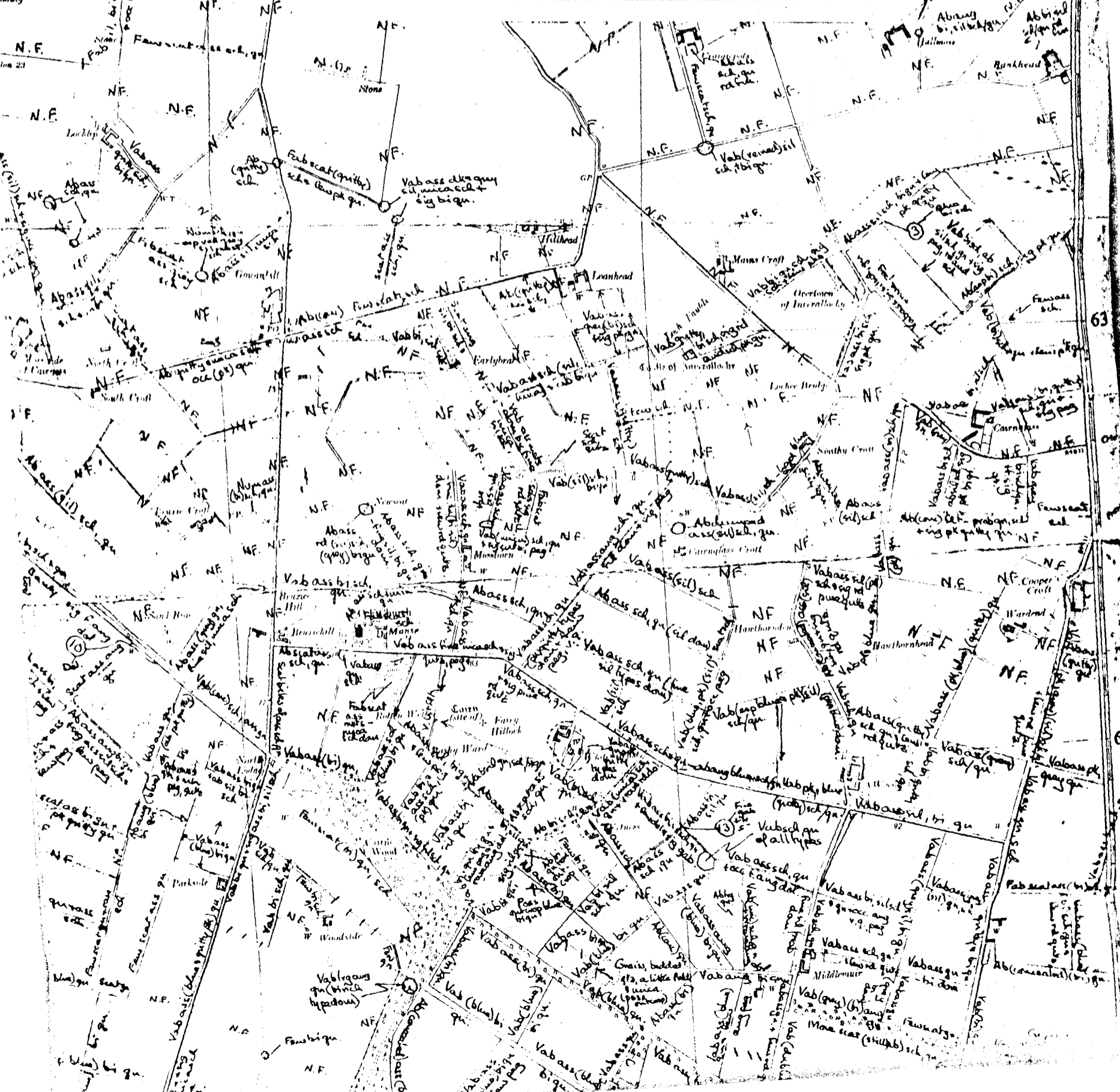
Area has F. ab. dumped
not like of all types
offici, oil, oil, ign.

Airfield
(Disused)

EXPLORATION VENTURES LTD.

TITLE STRICHEN - CRIMOND DISTRICT.
GEOLOGICAL FIELD SHEET.

Scale 6" : 1 mile	Prepared D.S.	Drawn D.B.	FIG. No.
O.S. Sheet No. NK 06 SW	Revised	Date AUG 1971.	



GEOLOGICAL NOTES ON O.S. SHEET NK 06 SW

STRICHEN-CRIMOND DISTRICT

As the most cursory examination of the map indicates, there are very few concentrations of basic float in this area of Dalradian metamorphics.

Due to the presence of a thick overburden, mainly of sand, a large (disused) air field and golf course, there is very little float north of grid line 63. In this area, according to some farmers, most of the rocks present at all are 'imported' - further indicated by the very rounded shape of most of the blocks. Hence the only interesting sample here is provided by a weathered calcareous schist (1) with traces of sulphide.

In the rest of the area float is generally plentiful, corresponding locally to the gneissic outcrop nearest. Most of the old manuscript outcrops are still visible and appear to be accurate in petrological terms.

Fundamentally, there is a good exposure of assorted usually coarse biotite gneisses in the centre, grading eastwards into more compacted, occasionally crystalline blue gneisses which also appear to the extreme south, (18). Westwards from this, the quarry of 011608 (9) exposes a very pure siliceous schist - virtually a quartzite. This siliceous float is more abundant towards the west, but rounded blocks extend across to the eastern areas as well. Vein quartz - invariably barren - is present as fairly angular blocks in most walls, but never in appreciable concentrations. Pegmatite has a similar light distribution.

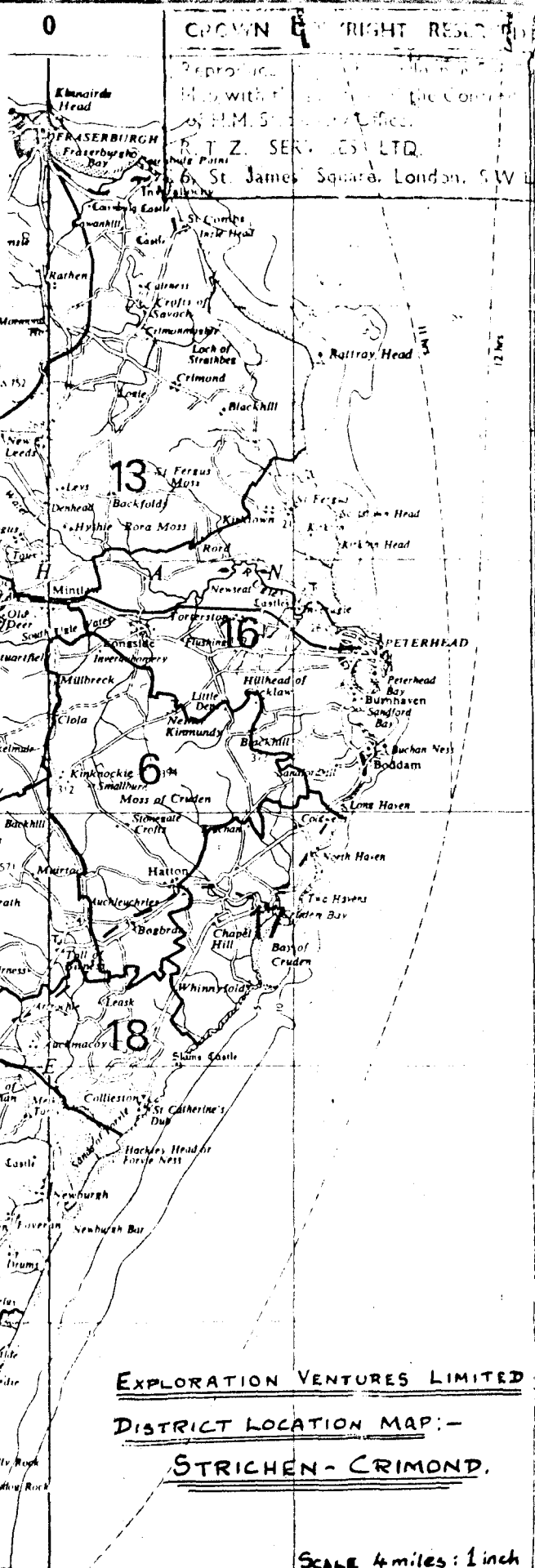
A fine biotite schist (19) outcrops in the extreme south, but float is fairly localised with no extensive distribution.

Throughout the area rounded gabbro and doleritic blocks occasionally occur, no basic outcrop noted. The only significant concentrations occur in the east-south centre.

Very little noticeable sulphides occur in the area as a whole, although a minor concentration - pyrites in a few blocks of very rusty weathered quartzite and contaminated basic - appears in the vicinity of 010603.

ADMINISTRATIVE AREAS IN RIOFINEXS SECTOR

- | | |
|-----------------------|-------------------------|
| 1 Arthraeth - Dudwick | 10 Udny |
| 2 Kinharrachin | 11 Quilquox |
| 3 Balquhindachin | 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: -
 STRICHEN-CRIMOND.

SCALE 4 miles: 1 inch

CGF
 RTZ

TURR

12

OR

15

12

8

9

0

1

2

12 hrs

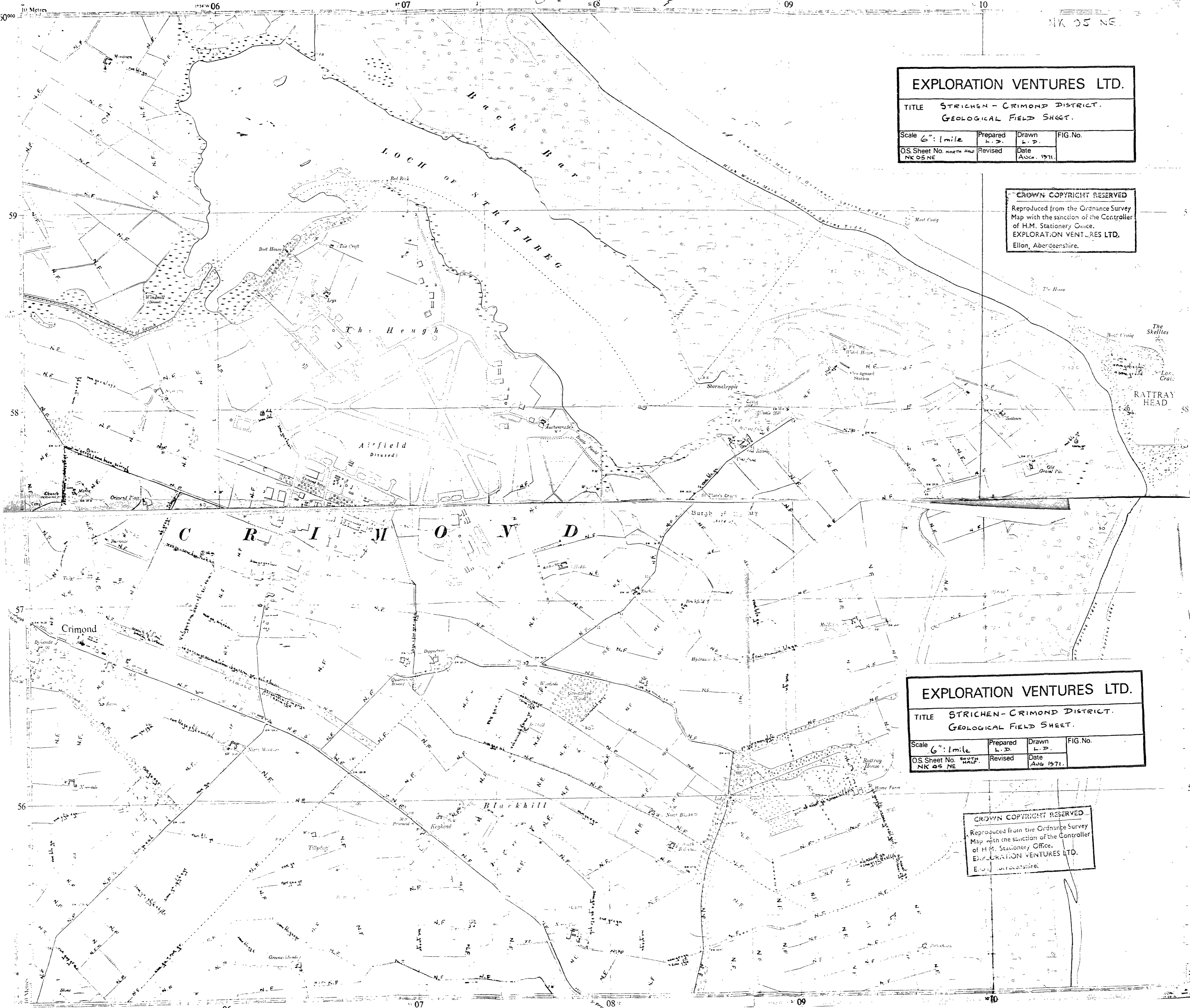
5

4

3

2

1



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TITLE STRICHEN - CRIMOND DISTRICT.
GEOLOGICAL FIELD SHEET.

Scale 6" : 1 mile	Prepared L.D.	Drawn L.D.	FIG.No.
O.S. Sheet No. NORTH HALF NK 05 NE	Revised	Date AUG. 1971.	

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O.S. Sheet No. NK 06 SW	Revised	Date	Aug. 1971.

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TITLE STRICHEN - CRIMOND DISTRICT.
GEOLOGICAL FIELD SHEET.

Scale 6" : 1 mile.	Prepared D. B.	Drawn D. B.	FIG. No.
O.S. Sheet No. NK 06 SW	Revised	Date	Aug. 1971.

