

(1)

LOCH FYNE PROJECT AE4

Geological Report: 2 August 1971-30 June 1972

During the period, geological mapping and geophysical surveys were carried out in the vicinity of the disused mines at Coille Bhraghad and Craignure, and systematic reconnaissance geochemical and geophysical surveys were completed over the intervening ground. Follow-up stream sediment sampling was initiated over the Garbh Achadh anomaly which had been located by reconnaissance stream sediment sampling.

1. Geological mapping: Tape and compass surveys were undertaken at the disused Coille Bhraghad and Craignure Mines, and plans of the surface workings at 1 : 250 scale were prepared. Geological mapping at a scale of 1 : 2500 was carried out in the vicinity of both the disused mines.

2. Geochemistry: Reconnaissance soil sampling at 200 ft. intervals on lines 1000 ft. apart was carried out over the area between the two old mines. The samples were collected from the 'B' soil horizon and the -80 mesh fraction was determined for copper and nickel by atomic absorption spectrophotometry.

Follow-up stream sediment sampling (500 ft. intervals) was undertaken in the Garbh Achadh area and these samples were analysed for copper, nickel and zinc.

3. Geophysics:

3.1. Electromagnetic surveys (E.M.): 5 line miles of E.M. surveys using Scintrex SE600 equipment was completed in the vicinity of the disused Craignure Mine. The survey was abandoned because of breakdowns and interference from National Grid powerlines in the area.

3.2. Induced Polarisation surveys (I.P.): A total of 53 line miles of reconnaissance (1000 ft. line spacing) I.P. surveys were completed at Coille Bhraghad, Craignure and the intervening zone. A Scintrex 25 watt time domain unit with a dipole-dipole array was used throughout the survey.

3.3. Magnetic surveys: The vertical magnetic intensity was read on stations 100 feet apart along all reconnaissance I.P. lines (53 line miles). Also 18 line miles of detailed magnetometry was undertaken at Craignure; here grid lines were 200 ft. apart with a 50 ft. station spacing. A Scintrex vertical component fluxgate magnetometer was used in both instances.

Enclosures.

Certain items of detailed information (pointed out lightly in pencil) on Plans 5, 8 and 9 relate to results of work undertaken subsequent to June 1972, but which it was impractical to erase. A report for the subsequent period will follow in due course.

- ✓✓1. Plan of surface workings at Craignure, 1 : 250 scale.
- ✓✓2. Plan of surface workings at Coille Bhraghad, 1 : 250 scale.
- ✓✓3. Geological mapping in Craignure area, 1 : 2500 scale.
- ✓✓4. Geological mapping in Coille Bhraghad area, 1 : 2500 scale.
- ✓✓5. Copper/nickel soil sampling results, Coille Bhraghad to Craignure, 6 inches to 1 mile.
- ✓✓6. Copper/nickel/zinc stream sediment sampling results, Garbh Achadh, 6 inches to 1 mile.
- ✓ → 7. Eight E.M. profiles in the Craignure Area, P.1 to 8.
- ✓ → 8. Chargeability values, Coille Bhraghad to Craignure, 6 inches to 1 mile.
- ✓✓9. Resistivity values, Coille Bhraghad to Craignure, 6 inches to 1 mile.
- ✓✓10. Vertical magnetic intensity values, Coille Bhraghad to Craignure, 6 inches to 1 mile.
- ✓ → 11. Vertical magnetic intensity values, detailed magnetic survey at Craignure, 1 : 2500 scale.

The 6 inch to 1 mile county series maps were used as base maps.

K.B

0		0		0		0		0		0		0		0		0		0		
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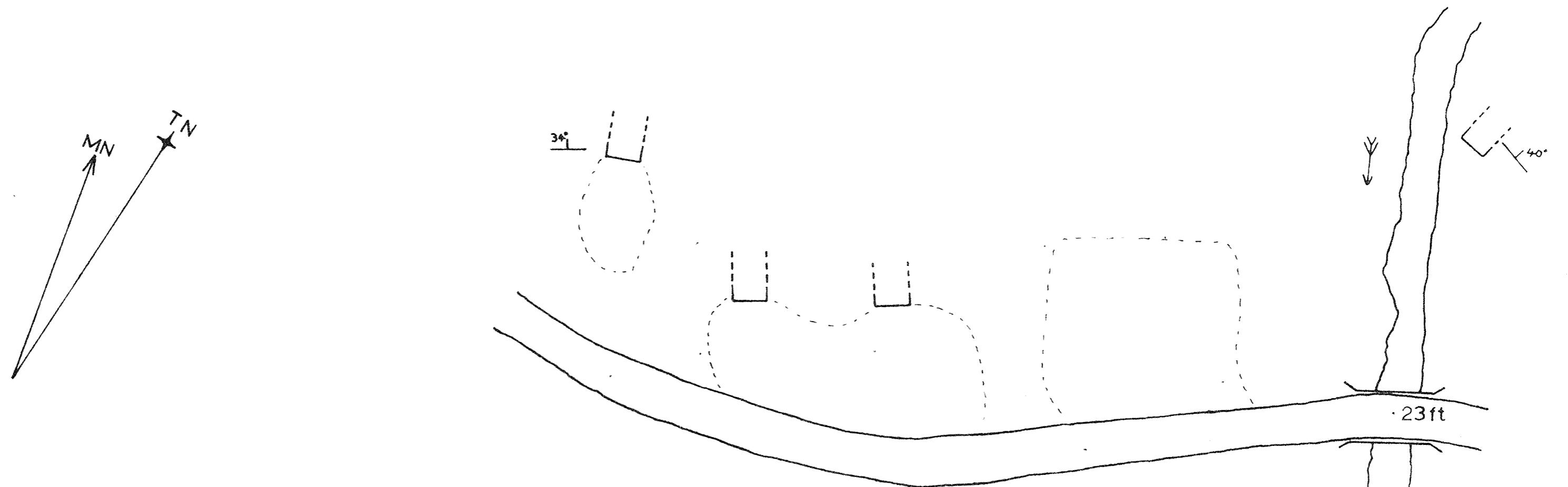
Project: C.G.F

Area: LOCH FYNE

Title: DETAILED MAGNETIC SURVEY VALUES

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	Date: JULY 1972	Drawn by:	D.H.
Revisions:			

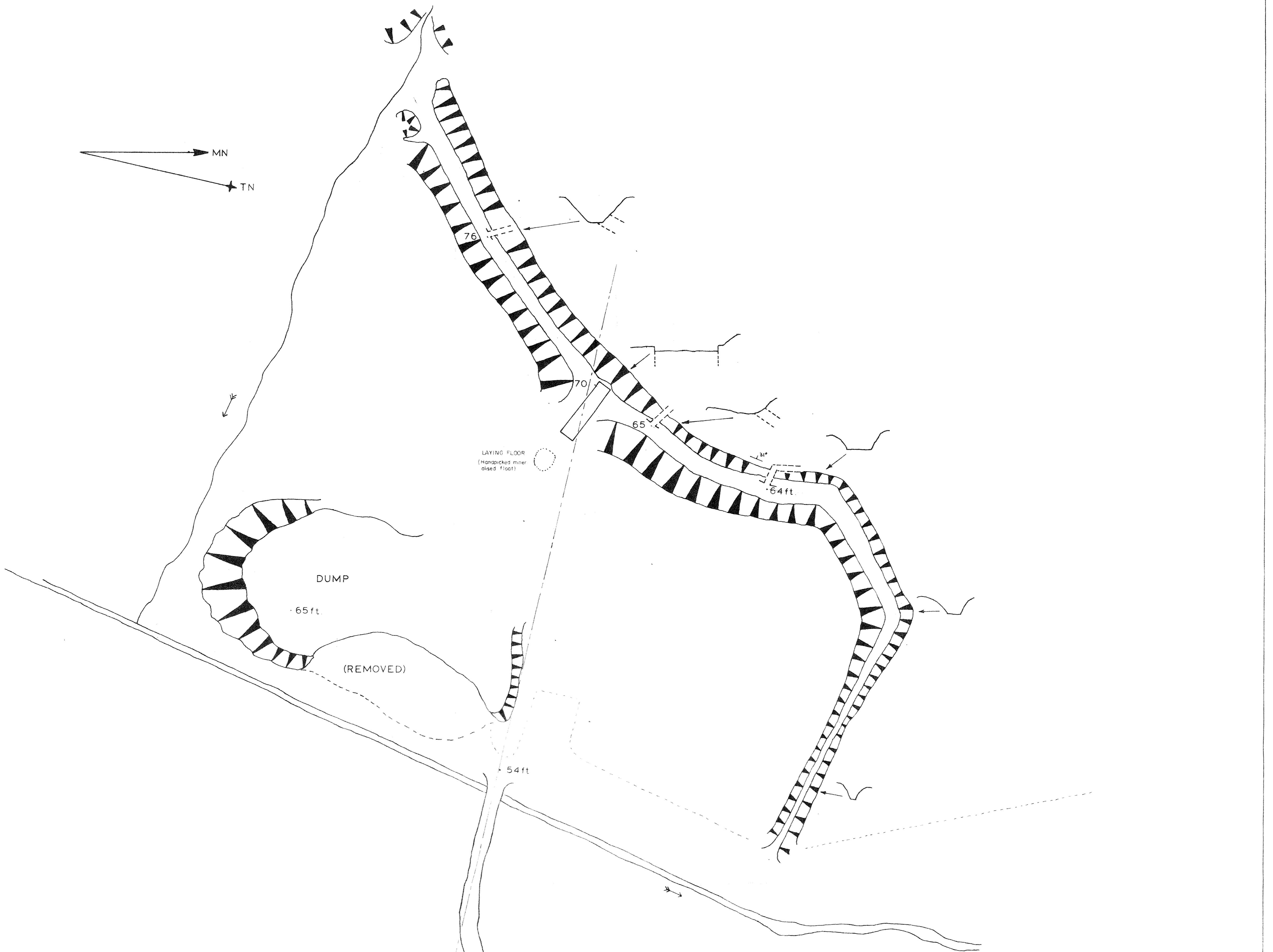
AE 4



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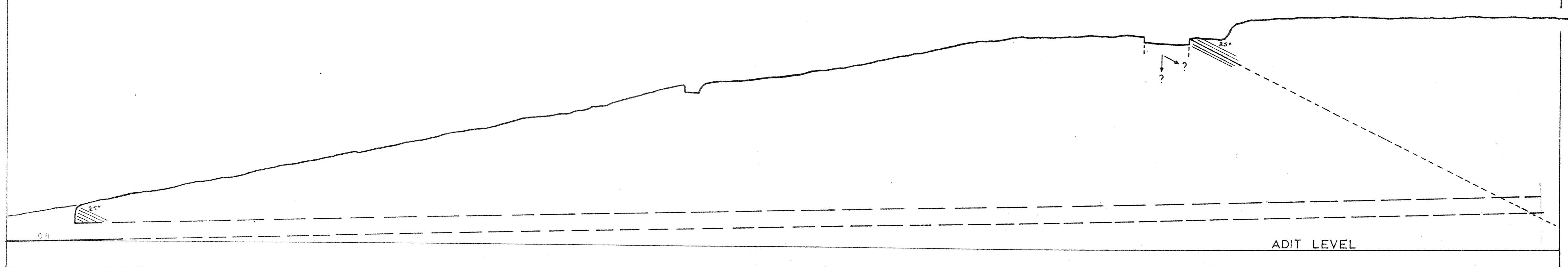
EXPLORATION


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Drg. No	O.S. MAP NO —	Prepared by E.R. R.M.
	Geological Map No —	Drawn by R.W.M.
	Scale 1:250	Date 2 - 8 1971
Revisions		




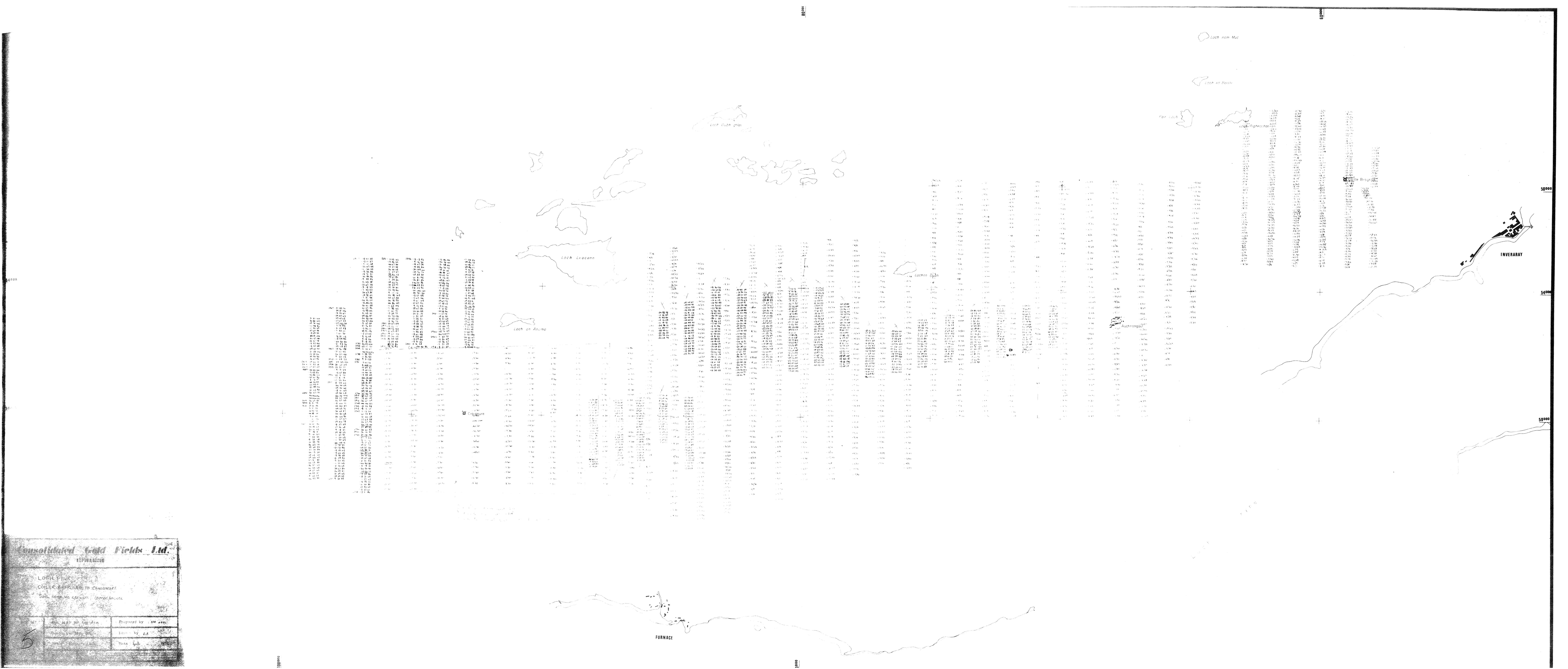
Consolidated Gold Fields Ltd.		
EXPLORATION		
Title Coiste Broghad Mine		
Spot heights relative to adit level		
Drg. No.	O.S. MAP NO. —	Prepared by E.R.R. B. Rie M.
2	Geological Map NO. —	Drawn by Rie M.
Scale 1:250	2	Date 2 - II 1971
Revisions		

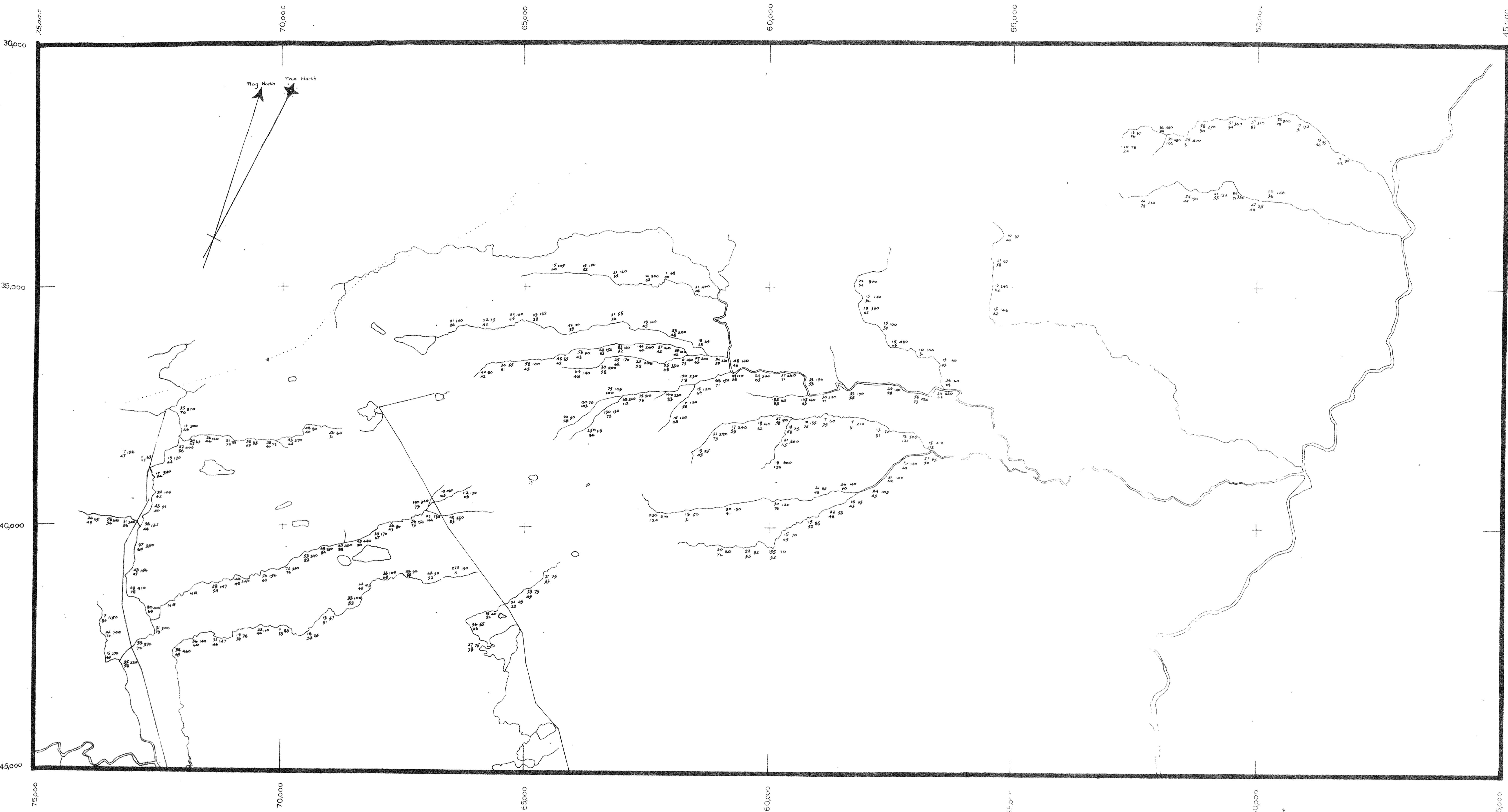
SECTION











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EXPLORATION

Project:	LOCH FYNE
Area:	GARBH ACHADH
Title:	Stream Sediment Sample Results
Cu Zn Ni	
Drawing No.	O.S. Map No. ARGYLLSHIRE CXXXII NE CXXXII SE CXCVI SE CXCV SW
Scale:	6" to 1 mile
Date:	11.8.72.
Prepared by:	A. W.
Drawn by:	A. T. W.
Revisions:	

6. Ac 4

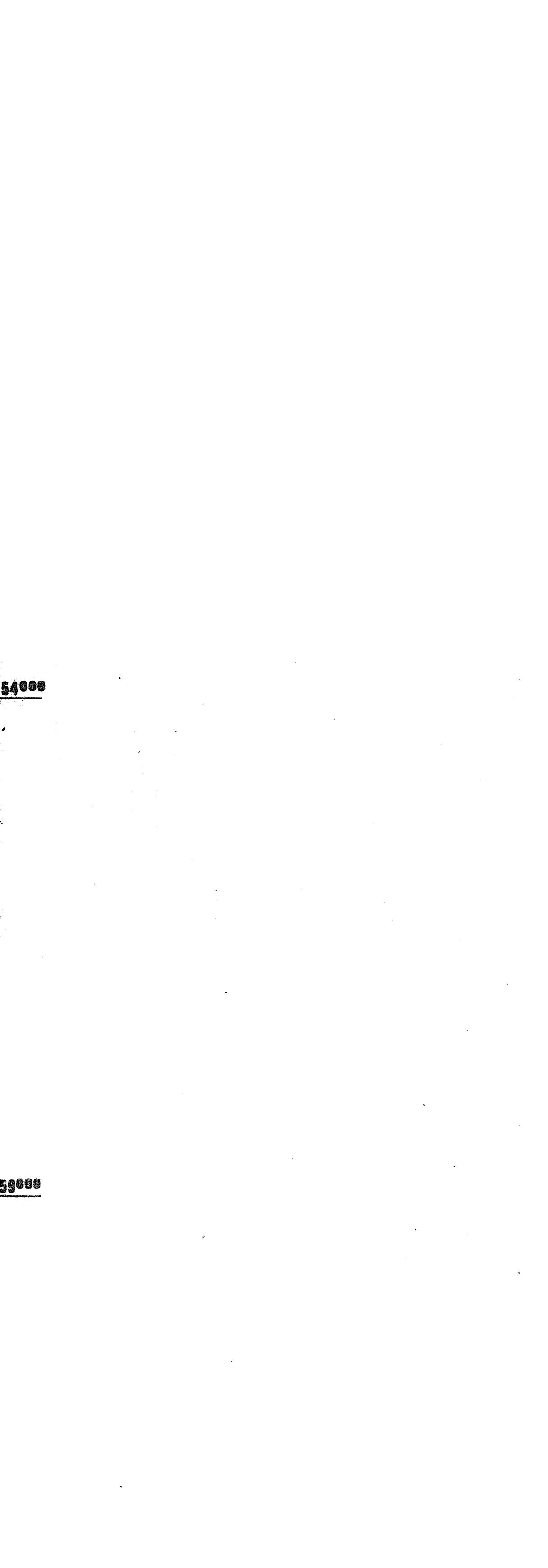
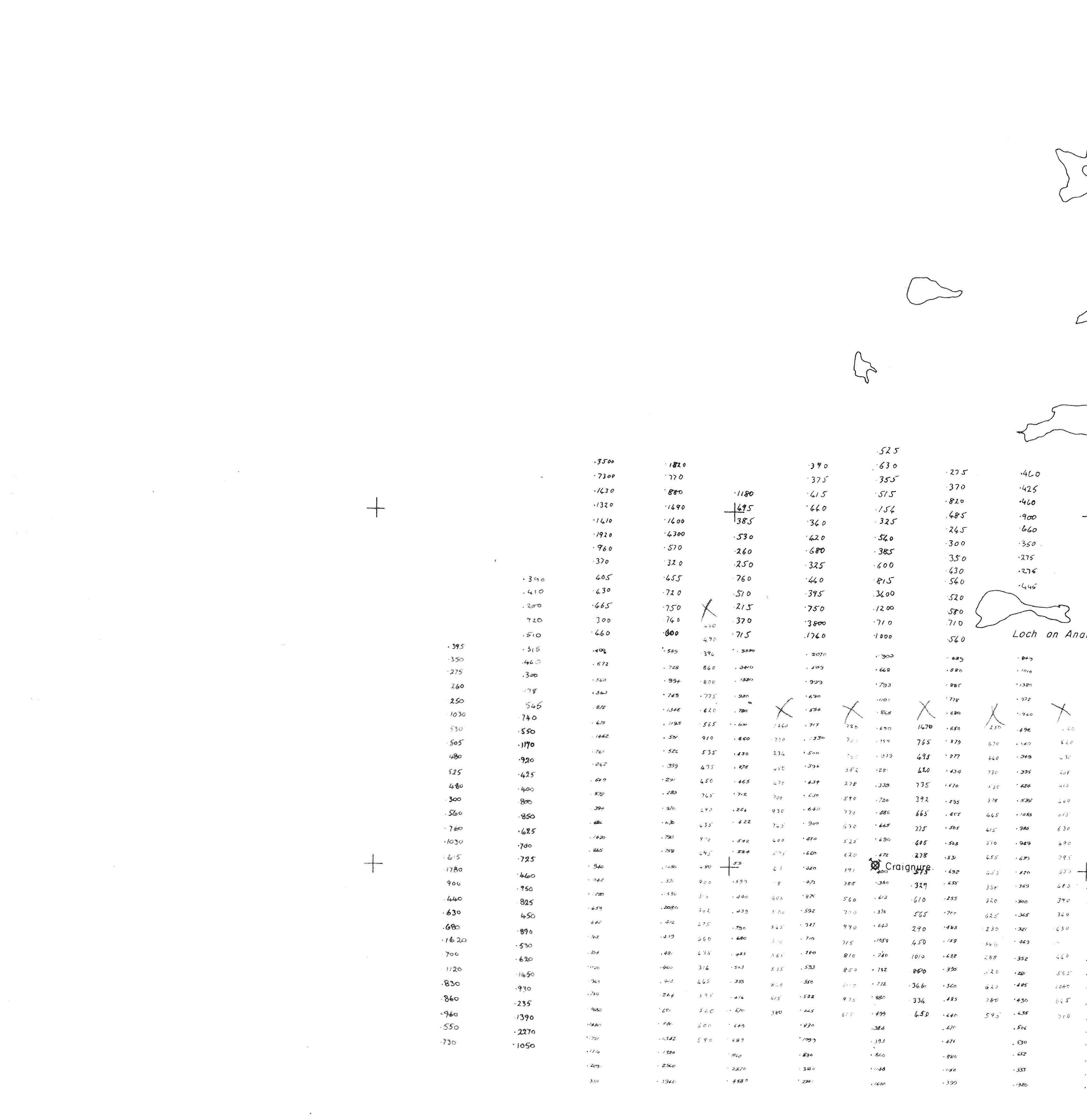
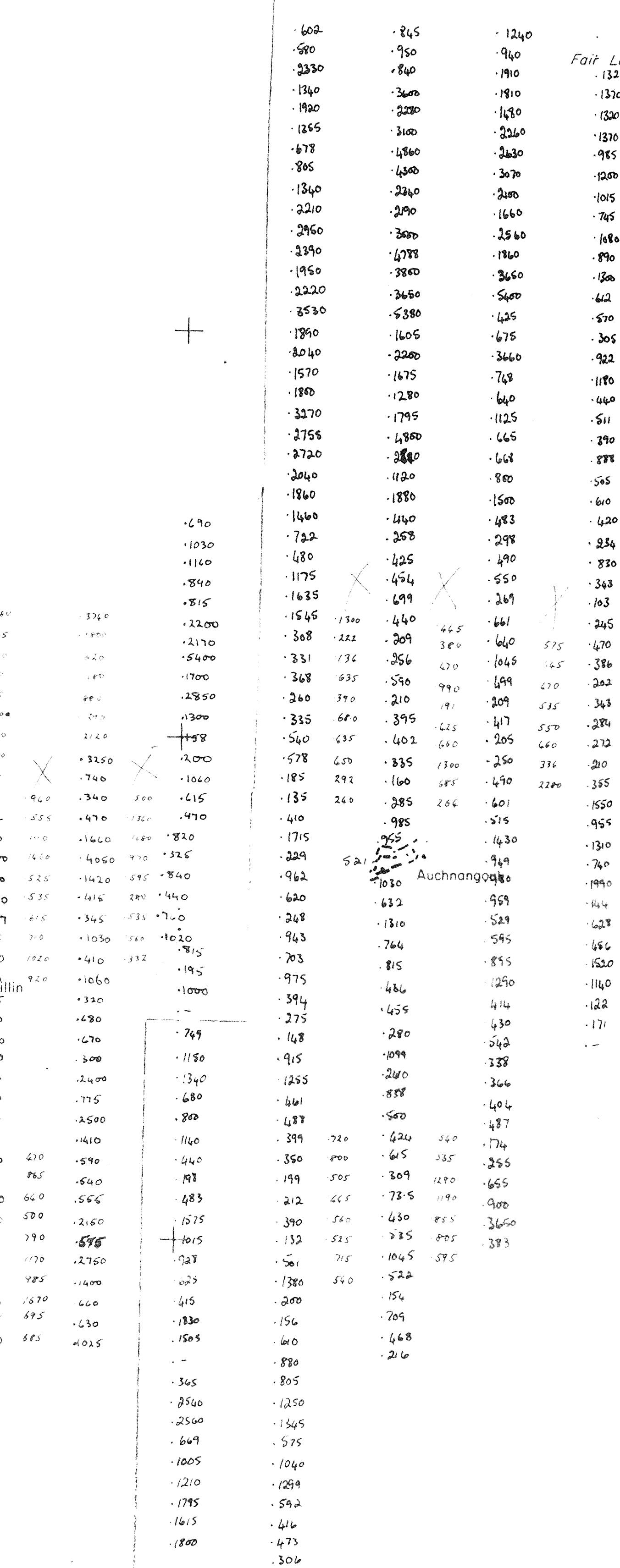
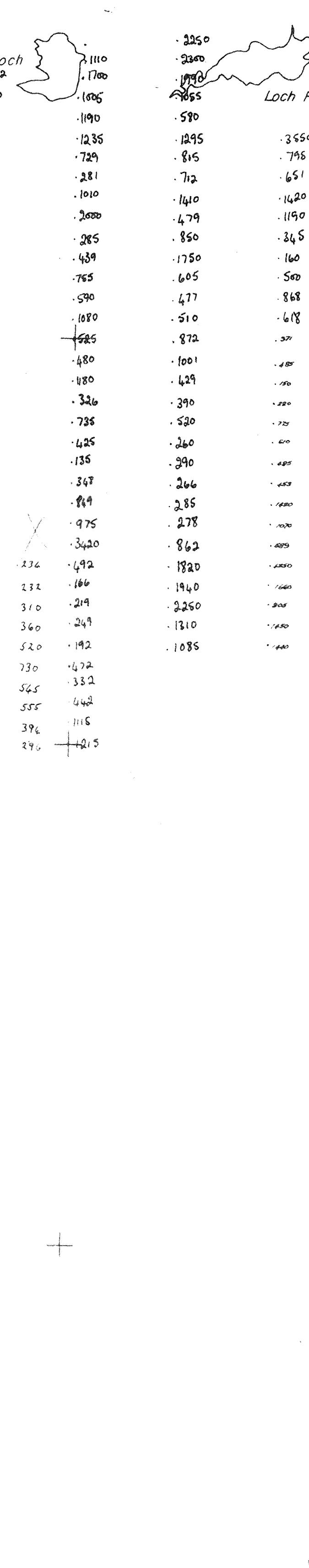
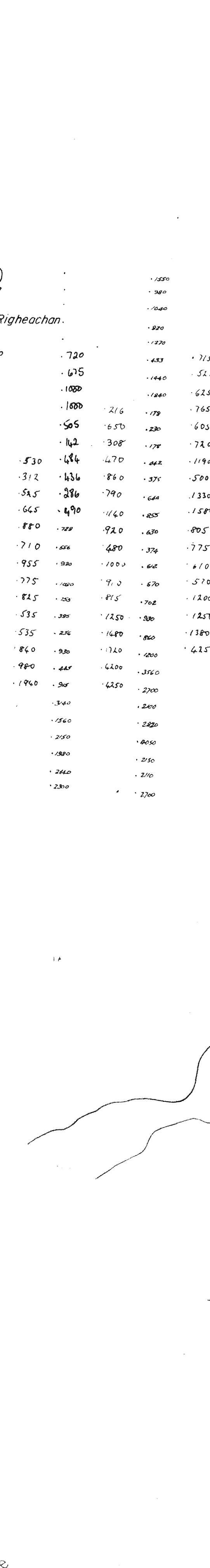
Loch nam Muc

Loch na Beiste



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EXPLORATION		
LOCH FYNE - CHARGEABILITY		
Conical ERASHER TO CONVEXIVE		
Date:	Argyllshire O.S.	Prepared by E.R.P.
Geological Map No.:	B.P.	
Scale: 6" to 1-mile.	Apr. 1952	
Revisions:	Sheet 18 and 52-10 Aug. 1952, due to 88 from 1951, due to 74-10	

LOCH FYNE - CONDUCTANCE SURVEY



Consolidated Gold Fields Ltd.		
EXPLORATION		
Title		
LOCH FYNE - RESISTIVITY COILLE BRAGHAD TO CRAGNURE		
Drg. N°	O.S. MAP N° Argyllshire O.S.	Prepared by E.R.P.
Geological Map N° -	Drawn by B.P.	
Scale 6" to 1 mile	Date Apr - 1972	
Revisions	Map 77-78 and 78-79 May (1972) June 78 (1972)	

