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COMINCO EXPLORATION PTY. LTD.

75-1125

Progress Report

MACKINTOSH RIVER

Exploration Licence 2/70

for six months ended June 30, 1975

16/9/75

E.H. Skey

1. INTRODUCTION

This report deals with activities in EL 2/70 other than those at the Que River Prospect within Mineral Lease applications 2M, 3M and 4M/75. A separate report will be compiled on those leases.

Details of location, tenure and exploration history were previously reported, CEPL staff (1974). Further information is to be given in the Que River report.

2. WORK PROGRAMME

Geophysics

During February and March 1975, a detailed airborne EM survey was flown over the western portion of the licence by Geoex Pty. Ltd. with a nominal 500 ft line spacing. This survey was scheduled to commence in October 1974 but equipment failures and the winding up of the original contractor - McPhar Geophysics Pty. Ltd. resulted in substantial delay. Further hold-ups were caused by a forced landing of the aircraft, the cause of which necessitated design changes to equipment.

The summer programme of ground follow-up initially proposed was thus deferred 12 months.

The aircraft used was a Bell Jet Ranger 206B. The McPhar H-500 EM system, an updated version of that used in the successful 1972 reconnaissance programme, was chosen. It was found not to be convertible to helicopter usage and the old system had to be re-employed.

Test flights over the Que River mineralisation at various altitudes showed the optimum terrain clearance to be between 400 feet and 700 feet. This aircraft performance proved difficult to maintain in most of the area and impossible to maintain in twenty percent of the area.

The data for the EM and magnetic systems are recorded in analog chart form whilst the magnetic data are also in digital format.

The latter are currently being processed by computer to assist in definition of statigraphy.

The electromagnetic data which have been available only since May are being analysed for the presence of anomalies similar to those related to mineralised zones and to assist in geological mapping of lithologic units.

In addition to redefining the Que River ore zone the following are apparent, within the survey area.

- i) a linear anomalous zone of considerable extent which is generally coincident with a black (graphitic pyritic) shale horizon (Que River Beds), (within Hatfield EL 15/73.
- ii) several anomalies of a similar character to the anomaly over the Que River ore zone.
- iii) numerous lesser anomalies of unknown significance.

Further data analysis will be undertaken before a decision is made on priority of ground follow-up.

In the eastern segment of the licence - Mackintosh East, (or upper Vale River) limited IP was conducted by contractor Geoquest Pty. Ltd. over areas of weakly anomalous soil geochemical responses. These were detailed in a previous report. (Skey, 1974 - ref Plate Mac 37). Annotated IP profiles are appended. On two lines, 2100N and 7300N deep, weak frequency effect anomalies apparently within Cambrian Volcanics or high level intrusions marginal to the pre Cambrian quartzites, occur beneath soil geochemical anomalies. On 2900N a shallow very weak PFE anomaly is marginally offset from a geochemical anomaly.

A decision of future work has not been taken, however, reconnaissance drilling is regarded as the most reliable and definitive way of testing the available data.

Survey

Approximately 7.5 km of reconnaissance cross lines have been cut and pegged within the western part of the licence. Five lines varying from 1 km to 2 km apart were designed as an aid to mapping and reconnaissance sampling.

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Geology

Mapping was limited outside the Que River Prospect area. Examination of one creek section to the east of the QR leases showed the presence of basaltic to andesitic lavas (in part amygdaloidal) and pyroclastics. This data will be incorporated in next seasons mapping programme results.

Geochemistry

All reconnaissance lines with the exception of the most northerly have been sampled at 10m spacing. "C" horizon material from depths to 1.5m was collected from approximately 750 sites. Analyses for copper, lead, and zinc were conducted by AAS on 0.5 mg of -40# material dissolved in hot perchloric acid. The following detection limits are quoted:

Cu 2 ppm; Pb 20 ppm; Zn 2 ppm.

Encouraging results were achieved for two localities in line 8400N north east of the Que River ore zone. At one, values of 1400ppm Zn and 1000 ppm Pb with supporting values extending over 5 samples (50) are now being investigated by parallel sample lines 200 m to north and south.

At the second locality copper values up to 700 ppm will be investigated at a later date.

3. PROPOSED WORK

Proposed work includes follow-up soil sampling, geological traversing and ground geophysics, (initially VHEM) as an integral part of the investigation of the strike extent of the Que River stratigraphy or possible repetitions within the volcanic pile. Drilling will be undertaken if targets become available and weather permits.

4. FINANCE

Geology	4,208
Survey	1,557
Geophysics	13,611
Geochemistry	1,987
Sundries	276
Tenure	716
Legal	1,802
	<hr/>
	\$24,157
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5. REFERENCES

CEPL Staff (1974) Progress Report on EL 2/70 Mackintosh River,
Tasmania. Que River Prospect.
(Company Report 3/12/74)

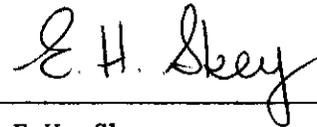
Skey, E.H. (1974) Report on Surface Activities on Mackintosh EL 2/70
and Hatfield River EL 15/73.
(Company Report 74/9 dated 10/6/74)

6. ATTACHMENTS

2) Induced Polarisation Profiles for Mackintosh East. Lines 2100N;
7300N; 2900N; 8100N.

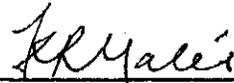
Plate 45 in 3 parts)	Copper Geochemistry	1:2500
Plate 46 in 3 parts)	Lead Geochemistry	1:2500
Plate 47 in 3 parts)	Zinc Geochemistry	1:2500

Submitted:



per E.H. Skey,
Project Geologist.

Endorsed:

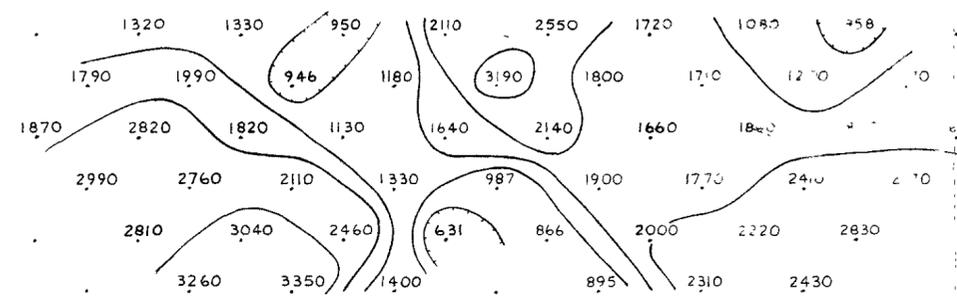


L.V. Gentle, for.
Chief Geologist.

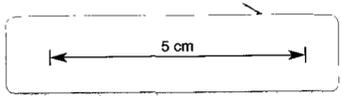
September 16, 1975.

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n = 3
n = 4
n = 5
n = 6



APPARENT RESISTIVITY
OHM METRES
(LOGARITHMIC CONTOURING)



I.P. PSEUDO SECTION

CLIENT: COMINCO

JOB NUMBER: MACINTOSH EAST 7502

TRAVERSE: 2100 N

SPACING (a): 200 METRES (feet?)

FREQUENCIES: 2.5 - 0.3 Hz

DATE SURVEYED: 5 FEBRUARY 1975

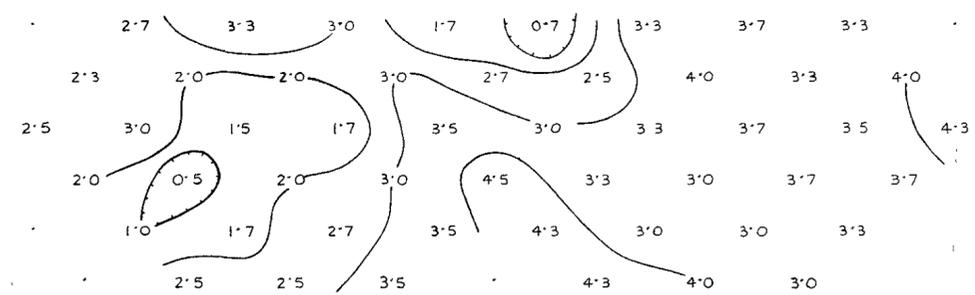
COMMENT: _____

PARTY LEADER: N.G.H.

CULTURAL AND PHYSIOGRAPHIC
FEATURES

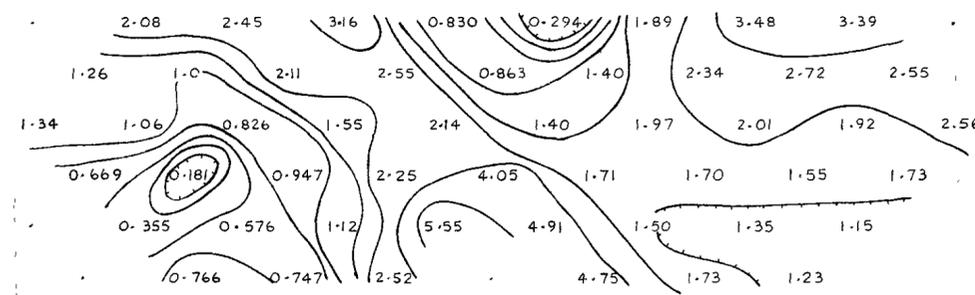
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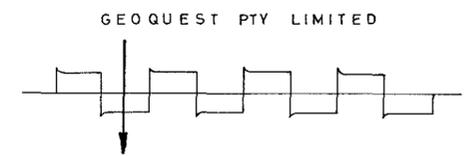


PERCENTAGE FREQUENCY EFFECT
(LINEAR CONTOURING)

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METALLIC CONDUCTION FACTOR
MHOS METRES⁻¹
(LOGARITHMIC CONTOURING)

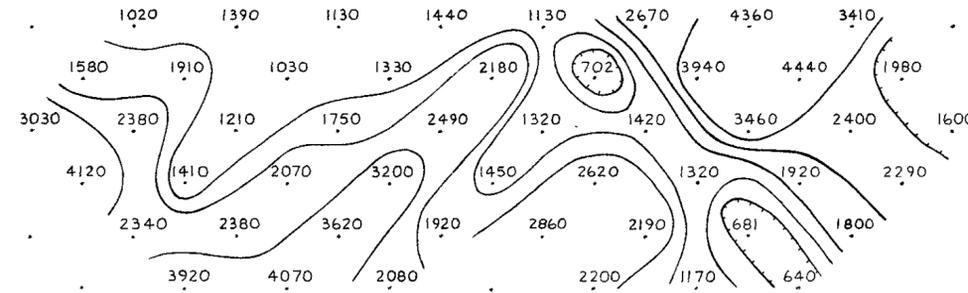


4400E 4600E 4800E 5000E 5200E 5400E 5600E 5800E 6000E 6200E 6400E 6600E 6800E 7000E 7200E

I.P. PSEUDO SECTION



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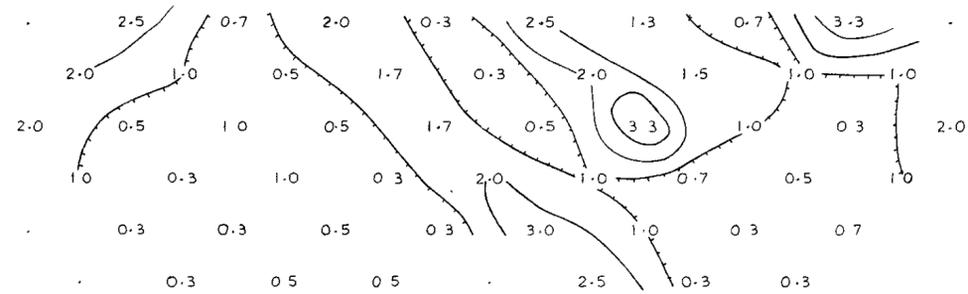


APPARENT RESISTIVITY
OHM METRES
(LOGARITHMIC CONTOURING)

CULTURAL AND PHYSIOGRAPHIC
FEATURES
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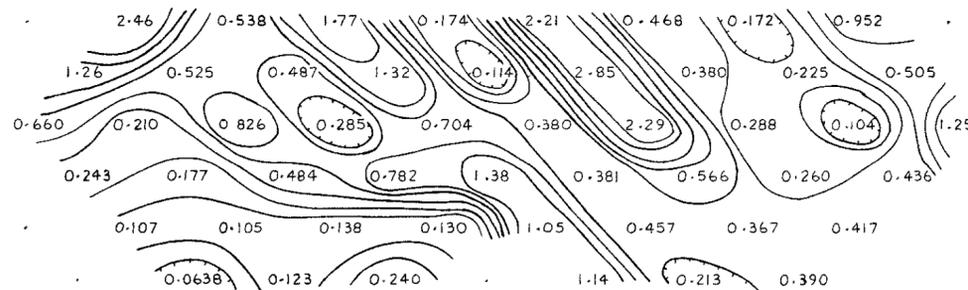
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TRAVERSE 2900 N
SPACING (a) 200 METRES
FREQUENCIES 2.5 - 0.3 Hz
DATE SURVEYED 5 FEBRUARY 1975
COMMENT
PARTY LEADER NGH

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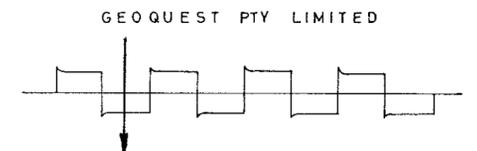


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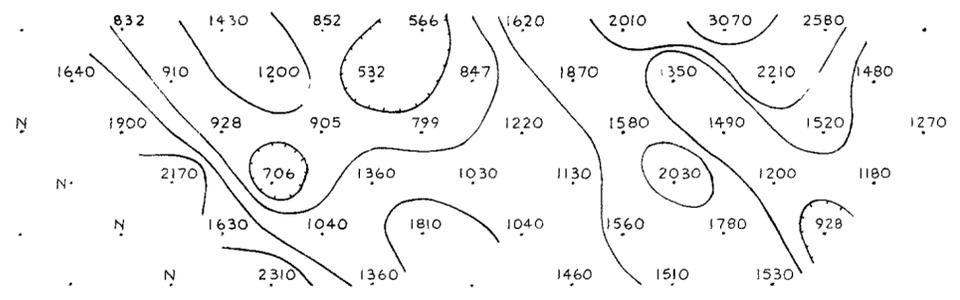
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MHOS METRES⁻¹
(LOGARITHMIC CONTOURING)



1600W 1400W 1200W 1000W 800W 600W 400W 200W 0 200E 400E 600E 800E 1000E

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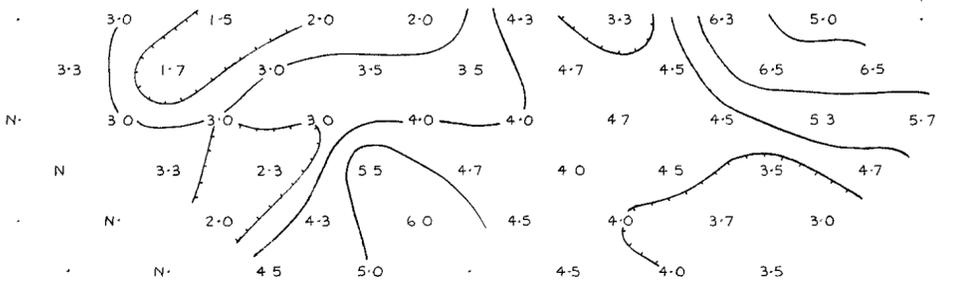


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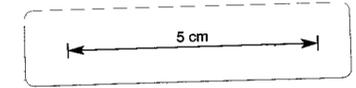
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JOB NUMBER MACINTOSH EAST 7502
TRAVERSE 7300 N
SPACING (a) 200 METRES
FREQUENCIES 2.5 - 0.3 Hz
DATE SURVEYED 4 FEBRUARY 1975
COMMENT _____
PARTY LEADER NGH

CULTURAL AND PHYSIOGRAPHIC
FEATURES
TRAVERSE BEARING °

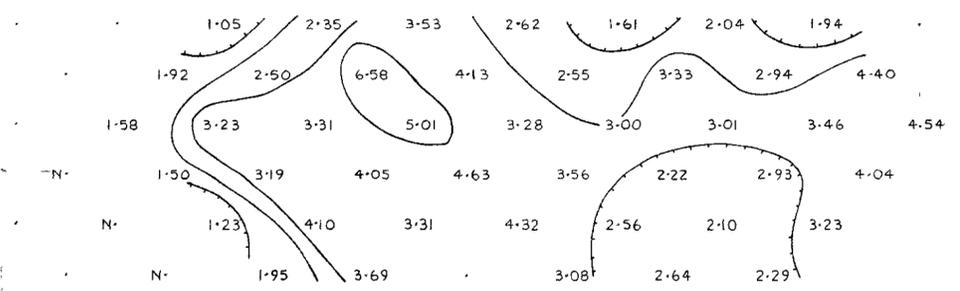
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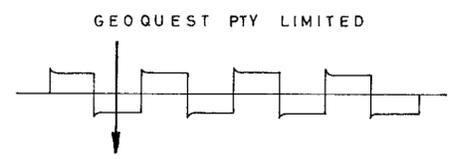
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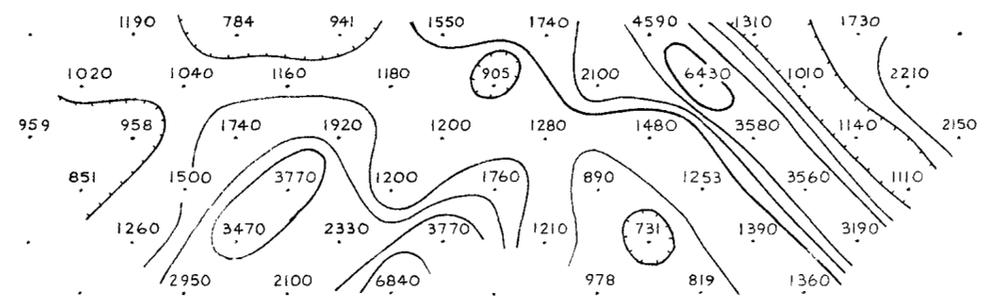


METALLIC CONDUCTION FACTOR
MHOS METRES⁻¹
(LOGARITHMIC CONTOURING)



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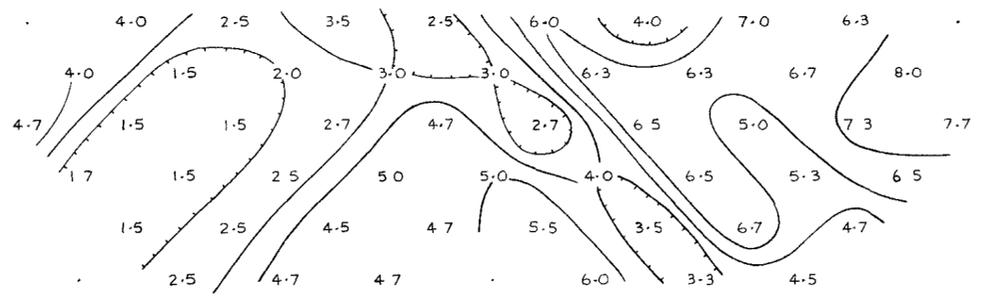


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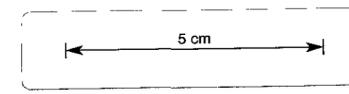
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JOB NUMBER MACINTOSH EAST 7502
TRAVERSE 8100 N
SPACING (a) 200 METRES (Set??)
FREQUENCIES 2.5 - 0.3 Hz
DATE SURVEYED 3 FEBRUARY 1975
COMMENT
PARTY LEADER N.G.H

CULTURAL AND PHYSIOGRAPHIC
FEATURES
TRAVERSE BEARING °

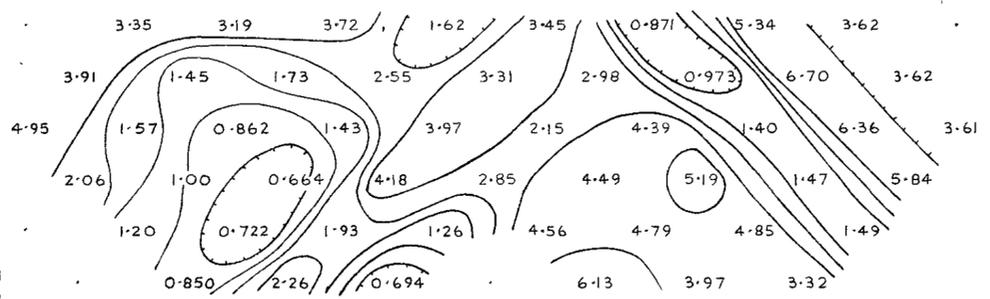
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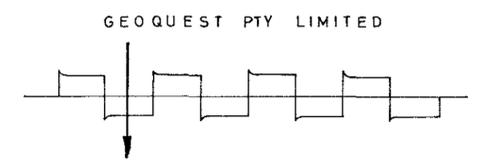
PERCENTAGE FREQUENCY EFFECT
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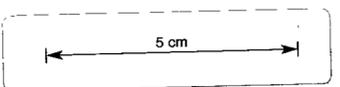
METALLIC CONDUCTION FACTOR
MHOS METRES⁻¹
(LOGARITHMIC CONTOURING)



— 8100 N

COMINCO EXPLORATION PTY LIMITED

— 7300 N



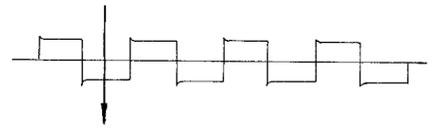
LAYOUT OF MACINTOSH EAST PROSPECT
GRID SHOWING EXTENT OF RESISTIVITY
AND INDUCED POLARISATION COVERAGE



SCALE - 1 20,000

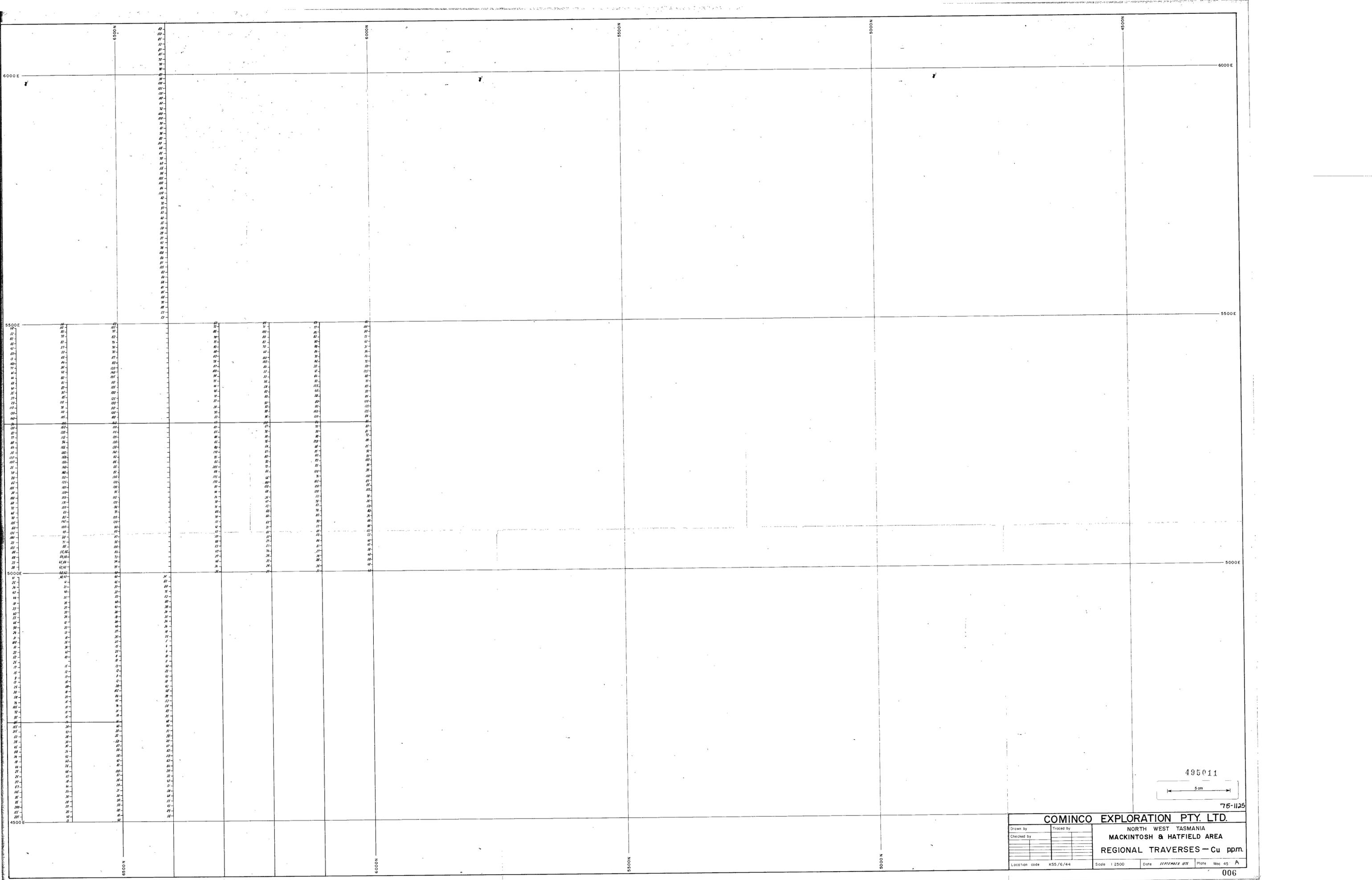
— 2900 N

GEOQUEST PTY LIMITED



— 2100 N



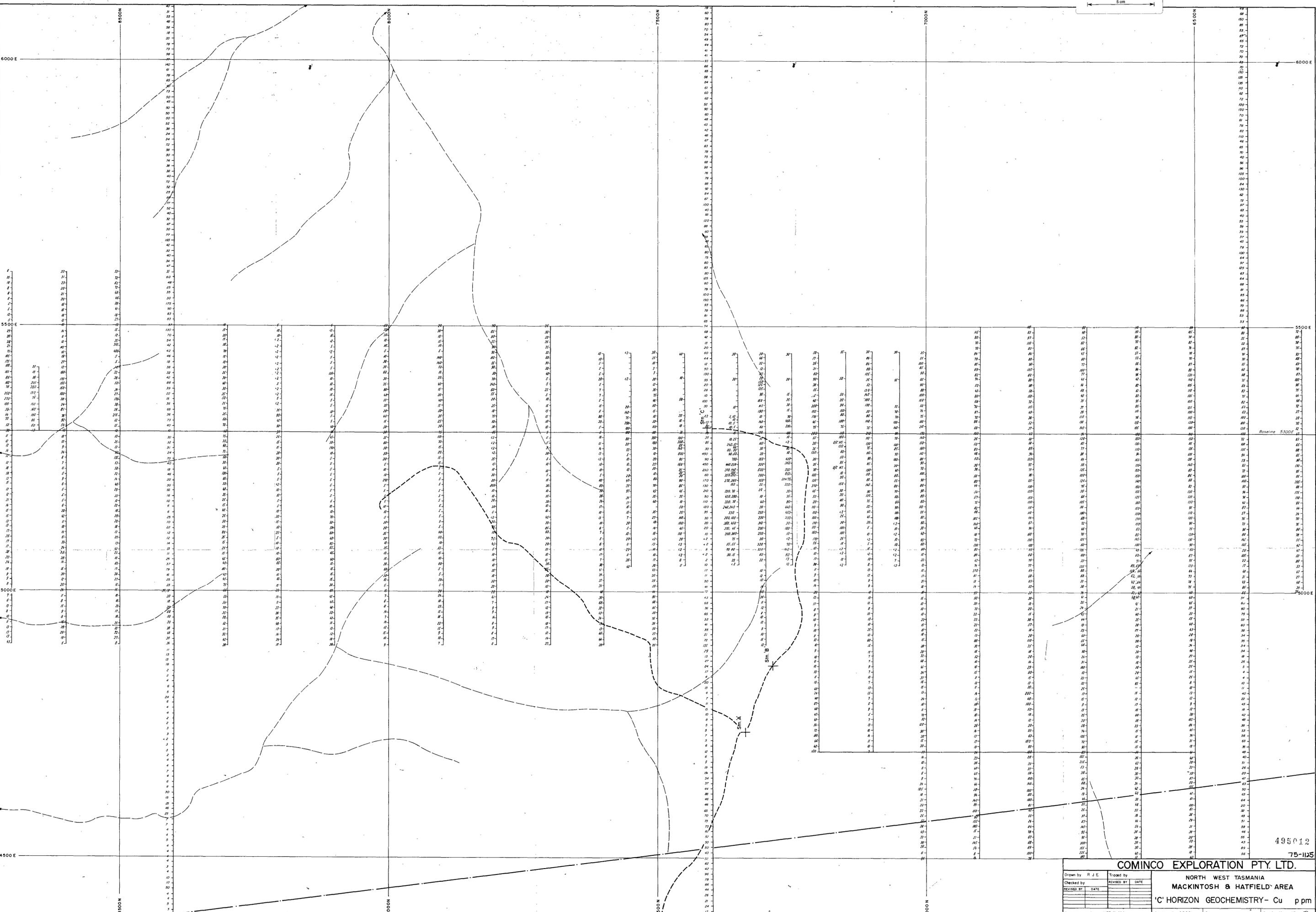


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Plate	Mac 45 A

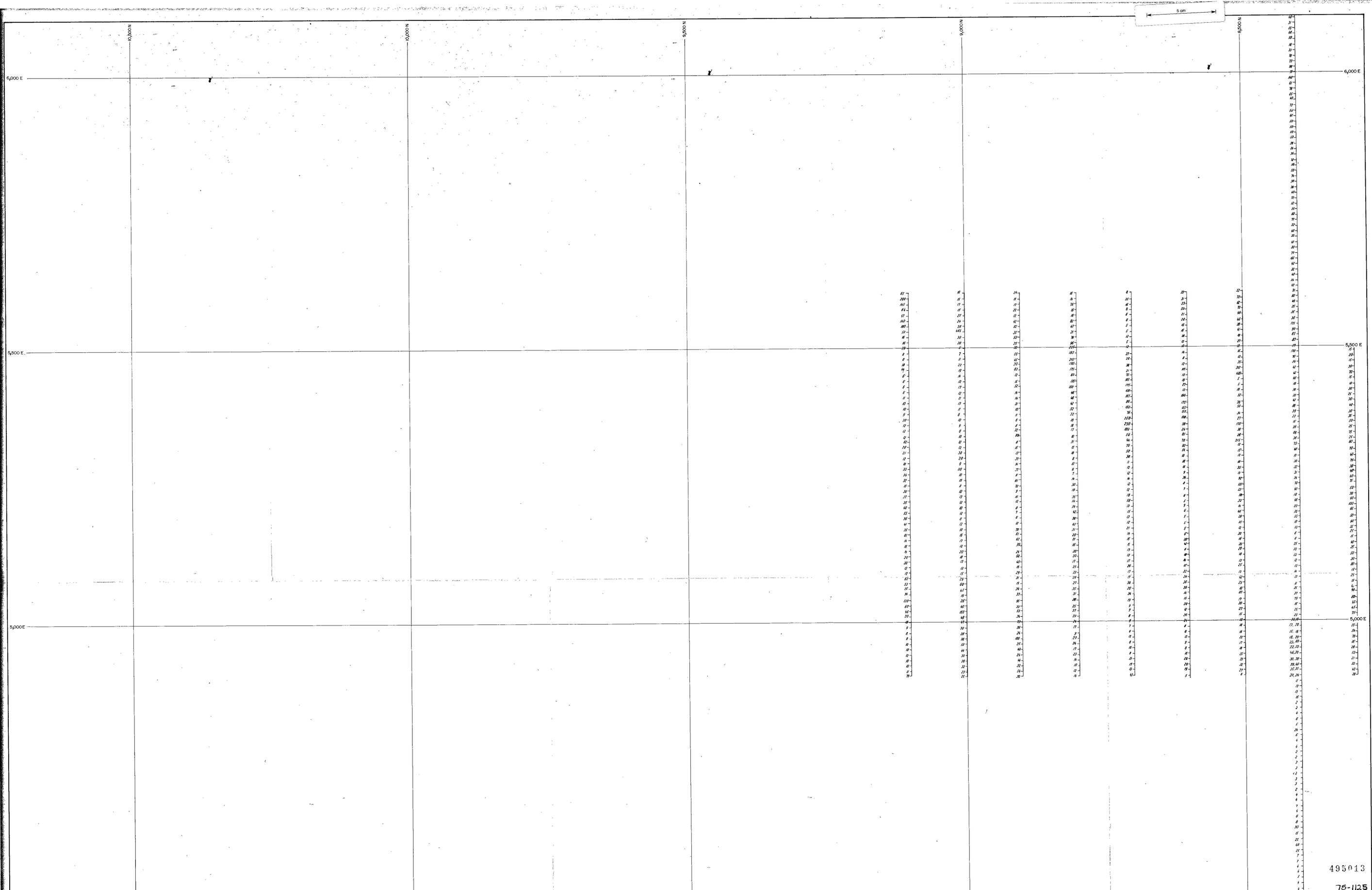
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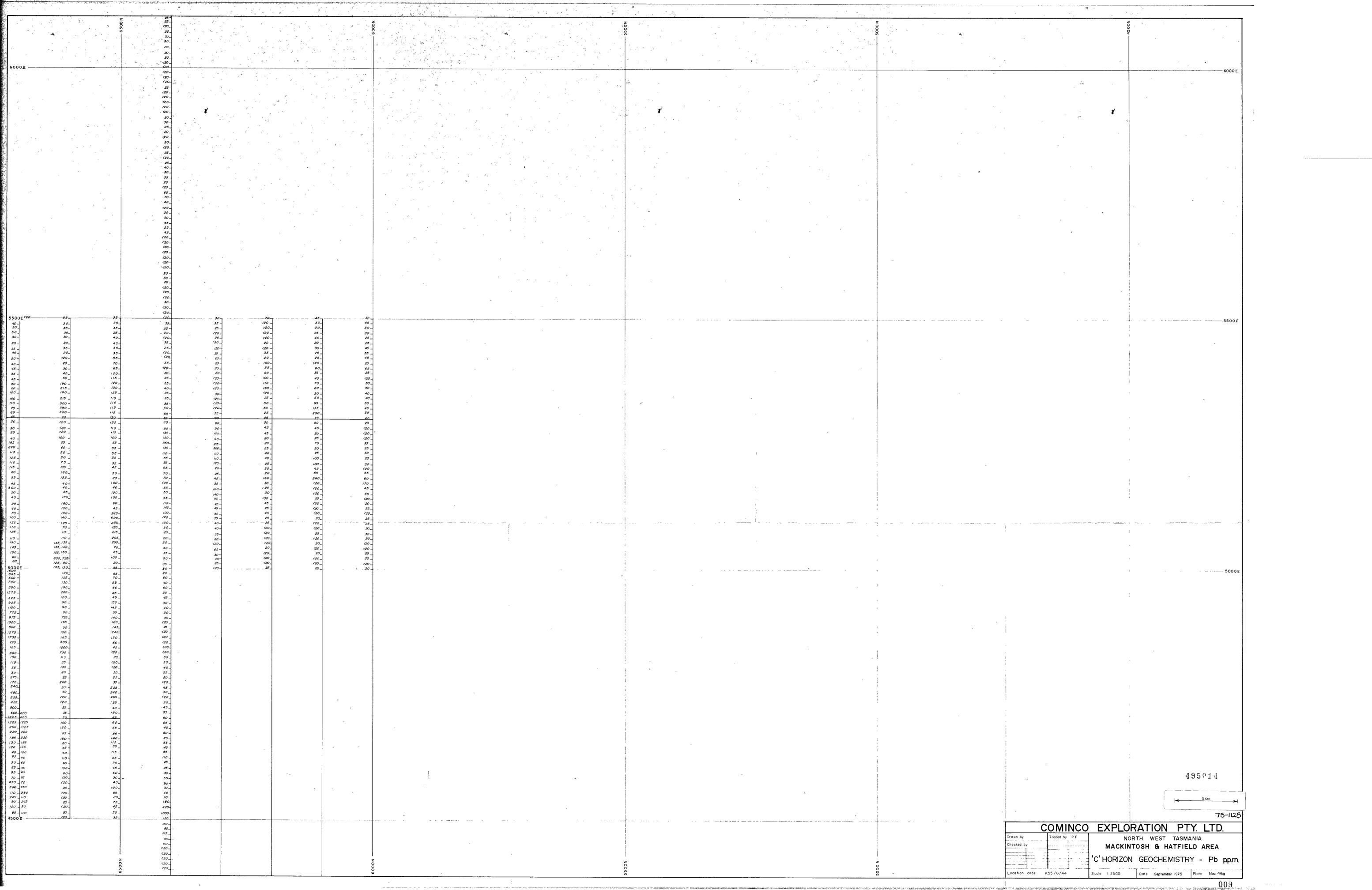
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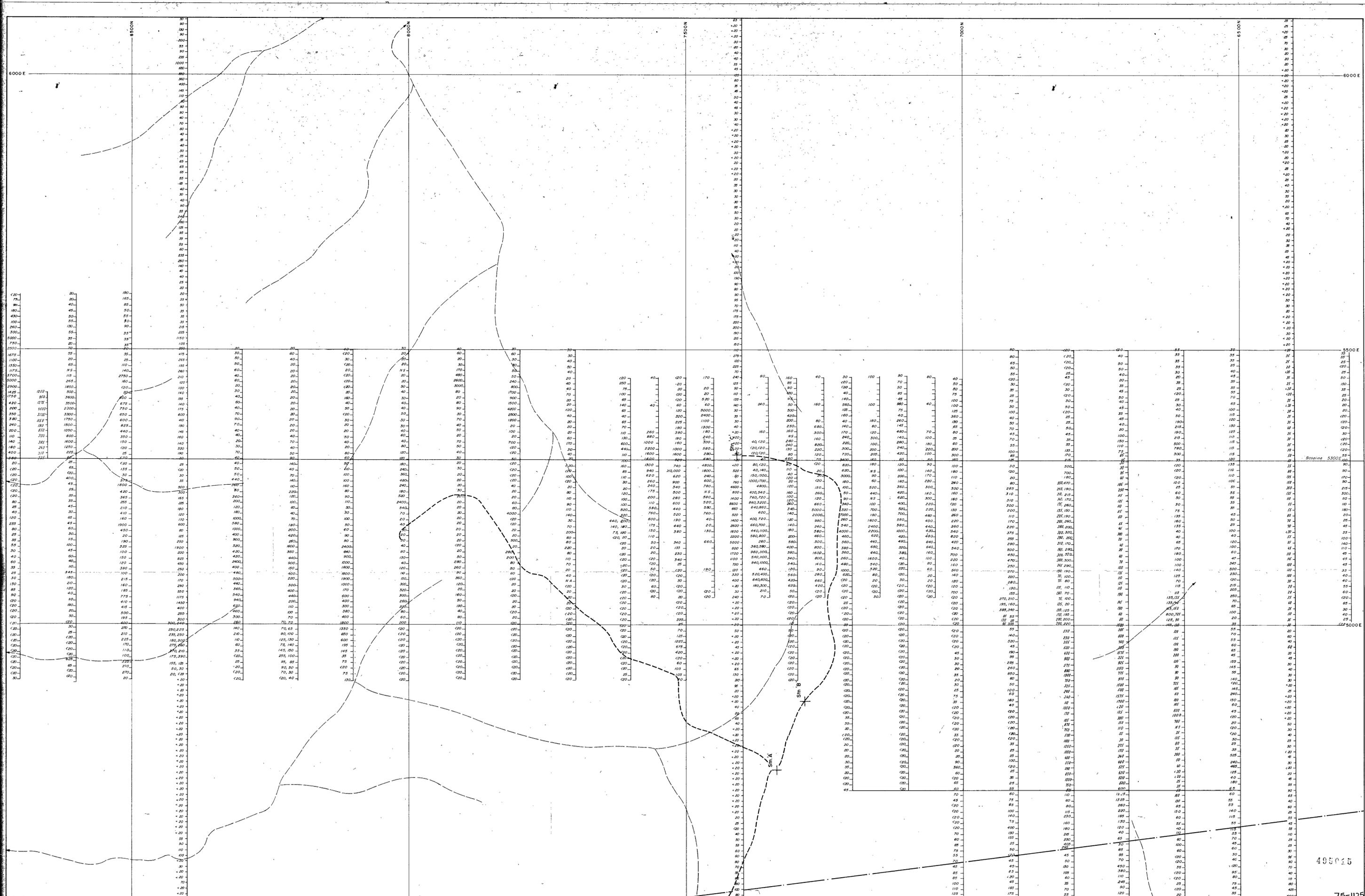


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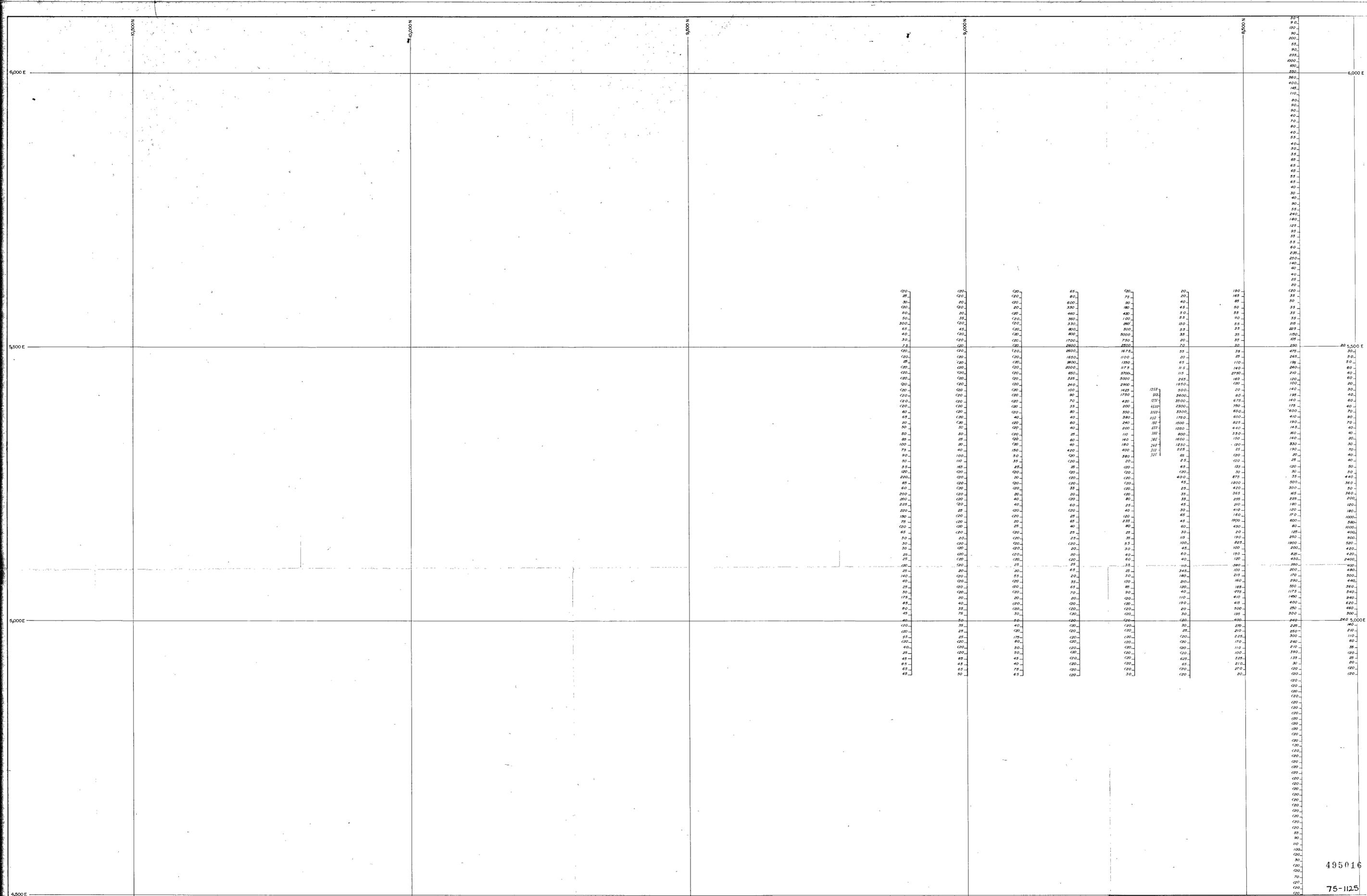
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 MACKINTOSH & HATFIELD AREA
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REVISOR DATE	

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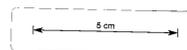


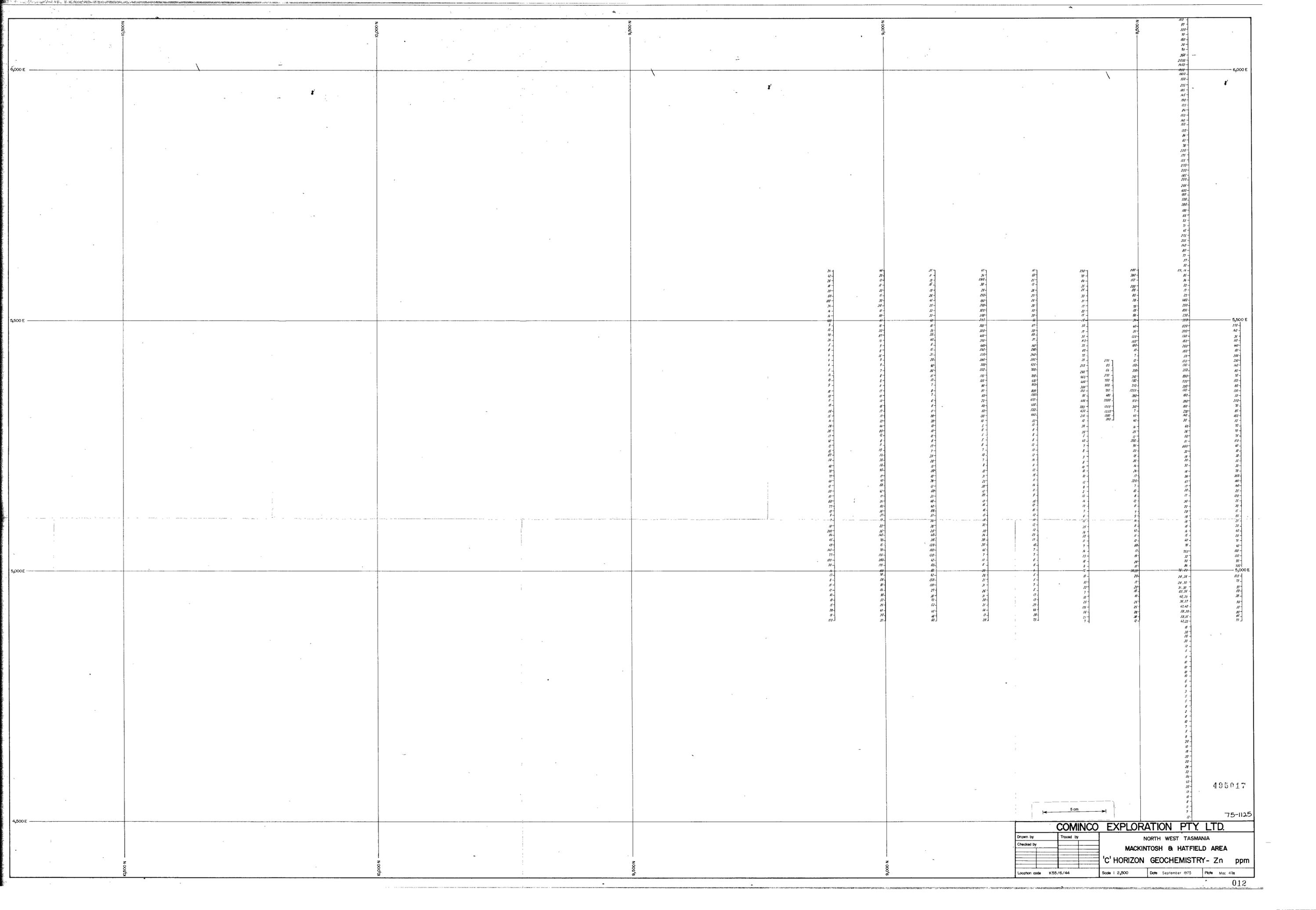
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COMINCO EXPLORATION PTY. LTD.

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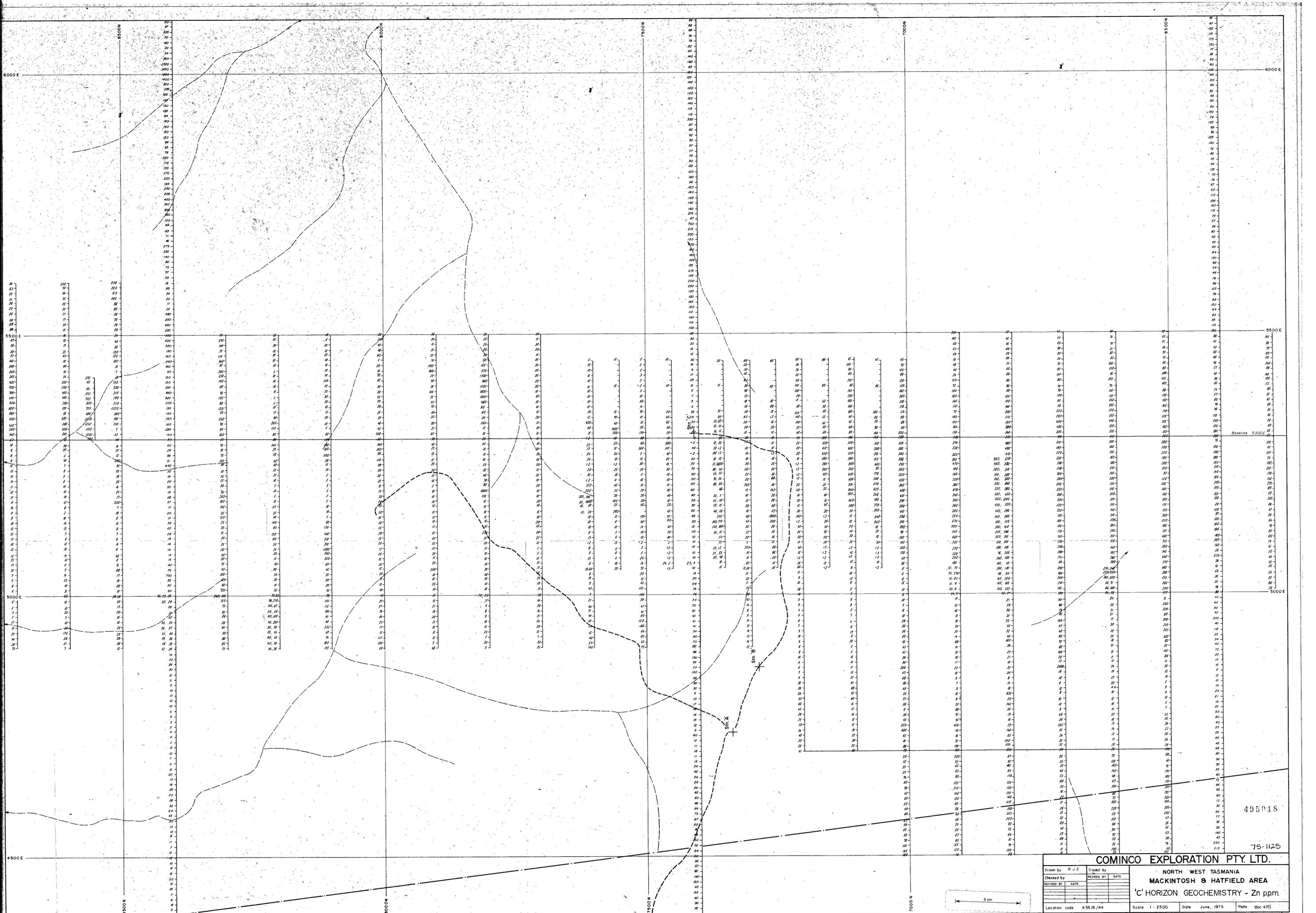
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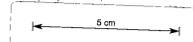
495018

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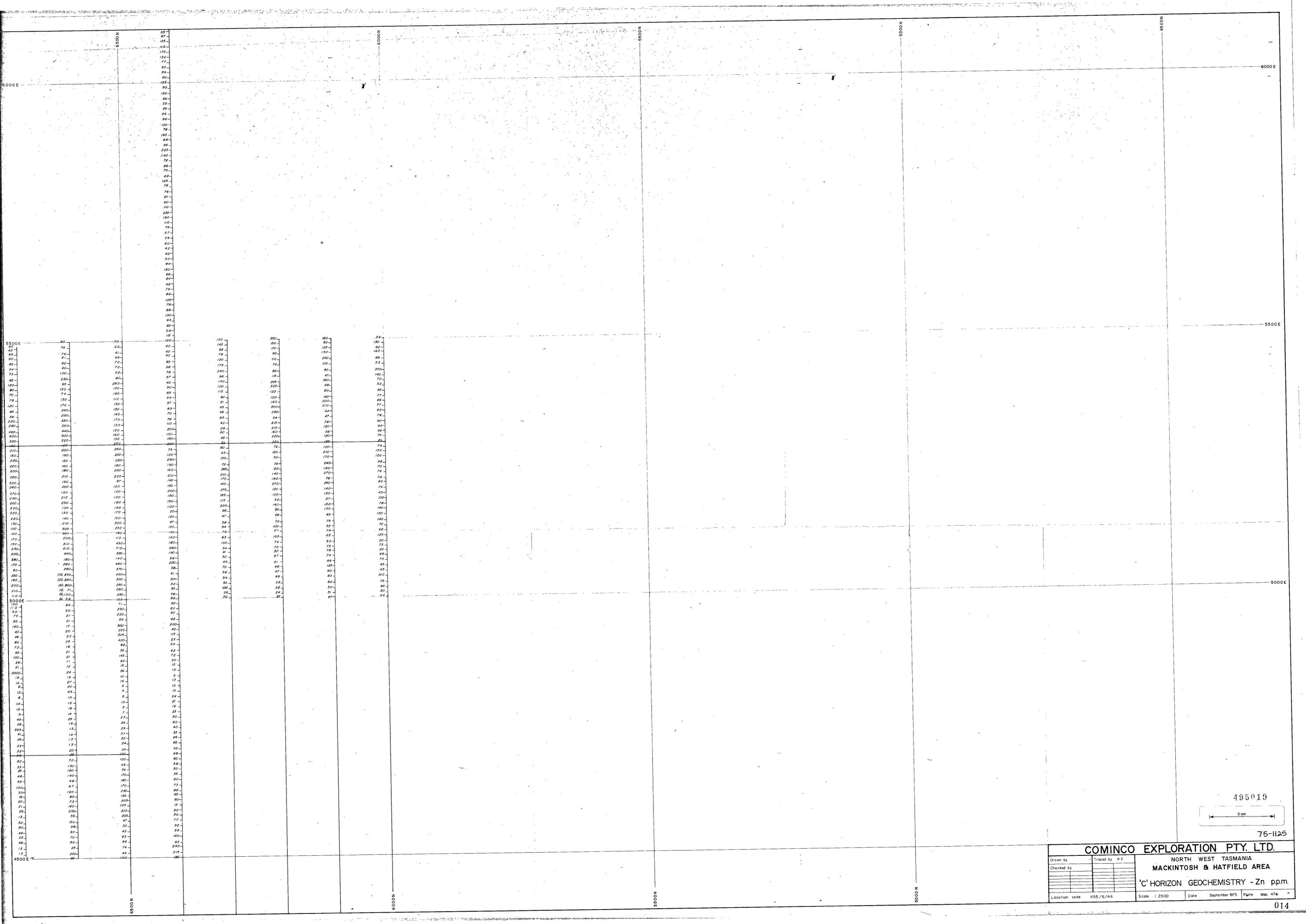
COMINCO EXPLORATION PTY. LTD.

NORTH WEST TASMANIA
MACKINTOSH & HATFIELD AREA
 'C' HORIZON GEOCHEMISTRY - Zn ppm

Drawn by	R J E	Traced by	
Checked by		Revised by	
Revised by	DATE	Revised by	DATE



Location code K 55/6/44 Scale 1:2500 Date June, 1975 Plate Mcc 471



5500 E	90	70	120	130	350	180	230
45	74	62	90	145	90	125	92
69	76	61	42	79	90	150	140
90	67	64	42	64	100	200	68
85	62	70	83	72	72	100	55
54	60	72	68	75	66	80	200
73	100	62	78	96	115	47	140
85	230	80	57	140	245	160	70
120	65	280	40	100	325	96	52
80	150	180	60	115	125	80	95
70	74	150	57	90	100	180	77
120	170	130	57	61	160	200	68
85	240	150	89	45	500	210	77
56	290	140	70	65	290	44	92
220	330	170	78	54	34	47	78
280	350	130	42	215	78	90	92
460	150	200	28	160	60	56	86
400	500	180	150	220	180	45	74
380	320	190	48	200	200	88	65
180	180	250	50	79	120	79	79
210	200	260	75	45	180	210	150
180	180	200	170	150	100	170	100
220	150	220	230	90	90	94	94
200	180	190	180	74	74	70	76
220	180	200	160	74	245	76	76
200	210	230	210	140	265	52	270
260	190	97	140	180	78	78	60
370	130	100	150	200	200	140	74
290	200	180	150	115	100	180	40
200	250	180	100	100	52	37	100
320	130	190	100	220	60	150	78
520	130	170	120	47	83	130	140
230	140	150	20	60	20	65	150
130	210	300	97	38	70	75	140
100	200	250	150	64	100	93	66
100	280	180	190	79	79	74	125
170	310	110	200	100	65	65	50
150	490	160	100	74	52	74	50
230	610	710	380	70	73	73	95
200	380	480	41	140	70	74	86
380	140	50	56	57	74	74	72
170	280	440	220	49	61	129	45
60	280	370	38	70	48	48	43
230	210	490	41	56	47	70	100
180	110	300	50	34	89	90	75
200	110	250	30	30	29	88	64
210	16	290	100	100	35	24	80
110	11	280	78	39	24	51	80
5000 E	84	71	90	30	27	67	54
110	84	71	90	30	27	67	54
40	84	71	90	30	27	67	54
21	84	71	90	30	27	67	54
35	21	88	42	200	200	40	42
180	17	300	200	235	40	115	23
45	20	325	23	34	34	42	20
80	25	420	34	36	185	72	21
72	18	82	42	87	15	10	10
60	21	56	42	24	10	5	5
100	21	185	72	16	13	13	13
26	11	87	20	5	10	9	9
91	12	15	15	10	24	8	8
2000	24	36	10	12	10	12	12
18	19	10	5	12	10	12	12
16	27	13	13	14	7	23	23
9	20	5	10	23	23	50	50
12	9	10	10	16	16	40	40
8	10	24	24	23	23	26	26
10	12	10	21	13	13	33	33
12	18	14	16	14	14	26	26
49	28	23	50	13	13	30	30
26	16	26	80	13	13	24	24
559	13	29	40	29	29	43	43
60	60	57	33	29	29	43	43
44	13	30	86	29	29	43	43
33	13	24	68	29	29	43	43
32	20	48	100	29	29	43	43
82	72	100	80	29	29	43	43
33	130	46	50	29	29	43	43
29	140	74	50	29	29	43	43
46	140	70	35	29	29	43	43
83	48	60	60	29	29	43	43
100	67	70	73	29	29	43	43
30	100	280	66	29	29	43	43
18	67	185	55	29	29	43	43
20	73	60	60	29	29	43	43
27	160	100	30	29	29	43	43
29	29	200	30	29	29	43	43
13	26	50	50	29	29	43	43
32	150	47	77	29	29	43	43
80	98	30	92	29	29	43	43
46	90	45	56	29	29	43	43
23	70	63	160	29	29	43	43
69	50	96	83	29	29	43	43
12	12	74	290	29	29	43	43
12	12	215	44	29	29	43	43
4500 E	28	100	186	29	29	43	43

495019
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COMINCO EXPLORATION PTY. LTD.	
NORTH WEST TASMANIA MACKINTOSH & HATFIELD AREA	
'C' HORIZON GEOCHEMISTRY - Zn p.p.m.	
Drawn by	Traced by P.F.
Checked by	
Location code	R55/6/44
Scale	1:2500
Date	September 1975
Plate	Mac 47c