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Progress Report

EXPLORATION LICENCE 1/63

for

six months ending
February 11, 1976.

Report by: D.M. Ransom
Cominco Exploration Pty. Ltd.
for
Cleveland Tin N.L.

SUMMARY

Line cutting, soil sampling and geological mapping in the Washington Hey, South Magnet Dam and Wombat areas of E.L. 1/63 continued during the six monthly period to February 11, 1976. A total of 4,000m of line cutting and collection of 1,550 soil samples was completed. The Sn anomaly in the South Magnet Dam area described by Palmer (1975b) has been confirmed by re-analysis of the samples and extended, but appears to be underlain by granite.

540 samples from the Washington Hey area have been submitted for analysis. A further 1,010 samples from the South Magnet Dam and Wombat areas are currently being prepared for analysis. The soil sampling programme will be completed within the 6 month period to August 11, 1976. A limited I.P. programme is planned for the Washington Hey area.

INTRODUCTION

Exploration Licence 1/63 lies 98 km south-west of Burnie in north-west Tasmania. It is 58 square kilometres in area and surrounds the Cleveland Tin Mine. Exploration activities within the licence are carried out by Cominco Exploration Pty. Ltd. on behalf of the titleholders, Cleveland Tin N.L. The expiry date of the licence is February 11, 1976 and application has been made for renewal for the six month period ending August 11, 1976.

This report describes exploration within E.L. 1/63 for the six months period ending February 11, 1976.

PREVIOUS EXPLORATION

Previous exploration activities in the E.L. have been reported by Ransom and Hunt (1972); Ransom and Simpson (1973); Sale (1974); Stuart-Smith (1974); Palmer (1975a) and Palmer (1975b).

These programmes have included geological mapping, line cutting, soil and stream sediment geochemistry, and self potential and aeromagnetic surveys.

CURRENT PROGRAMME

The programme for the six months to February 11, 1976 was a continuation of the soil geochemical follow-up of the weak stream geochemical anomalies found in 1974, (Palmer, 1975a). The programme consists of soil sampling and geological mapping of cut lines in three areas within the E.L. designated the Wombat, South Magnet Dam and Washington Hey areas by Palmer (1975b).

At February 11, 1976, all line cutting and the majority of soil sampling and mapping had been completed. Approximately 540 of the samples collected have been submitted for analysis and the analytical results of the programme to August 11, 1975 have been plotted. The remaining sampling and analysis will be completed in the current renewal period to August 11, 1976.

RESULTSa) Geological Mapping

Routine geological mapping of all geochemical lines has been carried out concurrent with the soil sampling. New facts on lines cut west of Bett's Track in the South Magnet Dam area indicate the presence of a previously unrecorded mafic volcanic sequence. Check mapping of the area round Whyte Hill suggests that some modification of the current interpretation of the regional geology of the licence may ensue. This mapping and further compilation of known geology in the area north of Whyte Hill will be completed in the six months to August 11, 1976, and a review of the regional geology will be presented in the next six monthly report.

b) Geochemical work

The geochemical programme consists of line cutting, auger sampling of "C" horizon soils at 12.5m intervals, and sample analysis by emission spectograph for Sn, Cu, Pb, Zn on the lines designated in Plate CT 33. The progress is summarised below:

Area	Line	Cutting	Sampling	Analysis	Results
Washington Hey	RA4	Completed* 800m	Completed 80 samples	Completed	Plotted
	RA6	Completed* 1100m	Completed 109 samples	Submitted	Not received
	RA8 Extension	Completed* 1100m	Completed*	Completed*	Plotted
	RA10	Completed* 250m	Completed 53 samples	Submitted	Not received
	RA11	Completed* 650m	Completed 53 samples	Submitted	Not received
	RA12	Completed 1250m	Completed 113 samples	Submitted	Not received
	RA17	Completed 1200m	Completed 79 samples	Submitted	Not received
	RA21	Completed 1150m	Completed 87 samples	Submitted	Not received
	RA25	Completed 950m	Completed 73 samples	Submitted	Not received
	South Magnet Dam	3075N	Completed 1200m	Completed 130 samples	Submitted
3000N		Completed* 3500m	Completed* 220 samples	Completed*	Plotted
2925N		Completed 1100m	Completed 88 samples	In preparation	
2850N		Completed* 1300m	Completed 104 samples	Completed	Plotted
2700N		Completed* 1000m	Completed* 80 samples	Completed*	Plotted
2550N		Completed* 1100m	Completed* 88 samples	Completed*	Plotted
2100N		Completed* 4000m	Completed 320 samples	In preparation	
1800N		Completed* 1300m	Completed 104 samples	In preparation	
1500N		Completed* 1100m	Completed 88 samples	In preparation	
1200N		Completed 3000m	Completed east of Bett's Track. 92 samples.	In preparation	

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Geochemical results continued.

Area	Line	Cutting	Sampling	Analysis	Results
Wombat	2400N	Completed 3000m	Continuing 136 samples		
	1800N	Completed* 1700m	Completed 136 samples	In preparation	
	1200N	Completed* 1300m	Completed 104 samples	In preparation	
* Indicates work done in previous programmes.					

Analytical data presently available confirms and extends the Sn anomaly on line 3000N reported by Palmer (1975b) in the South Magnet Dam area. Preliminary geological mapping in this area suggests that the anomaly is underlain by granite. Re-analysis by XRF of some of these samples has confirmed the anomalous Sn values, but reduced their threshold value and extent.

Although no new analyses are presently available, anomalous Sn values have been previously recorded in the Washington Hey area between lines RA3 and RA12 (Plate CT33C), disposed approximately parallel to strike. No obvious explanation for these anomalies is evident from the geological mapping, but the area is extensively pitted and contains three small Ag-Pb prospects, the Washington Hey, Washington and Confidence mines, described by Mackintosh Reid (1923) and Twelvetrees (1900). Pending confirmation of these anomalous values from sampling in the current programme, an I.P. survey is proposed on lines RA4, RA6, RA8, RA10, and RA12 in the six month period to August 11, 1976.

Cu, Pb, Zn values in any of the areas presently available have not been evaluated as yet.

d) Geophysics - Nothing to report.

FINANCE

The following amounts were expended on the Exploration Licence during the six month period to February 11, 1976:

Geology	8,024
Survey	596
Geochemistry	16,786
Geophysics	137
Miscellaneous	1,290
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	\$26,833
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REFERENCES

MacIntosh Reid, A., (1923) "The Mt. Bischoff Tin Field". Bull. Geol. Sur. Tas. No. 23.

Ransom, D.M. and Hunt, F.L. (1972) Cleveland Tin N.L. Year End Report. CEPL unpublished report to Tas. Mines Dept.

Ranson, D.M. and Simpson, D.C. (1973) "Progress Report - Cleveland Tin N.L. for 6 months ending June 30, 1973". CEPL report (unpublished) to Tas. Mines Dept.

Sale, R.V. (1974) "Progress Report - Cleveland Tin N.L. 6 months ending December 31, 1973." CEPL unpublished report to Tas. Mines Dept.

Stuart-Smith, P.G. (1974) "Progress Report - Cleveland Tin N.L. 6 months ending June 30, 1974!" CEPL unpublished report to Tas. Mines Dept.

Twelvetrees, W.G. (1900) Report on the mineral fields between Waratah and Corinna. Dept. of Mines Tas. Publ. Report 158 (unpublished).

Palmer, K.G. (1975a) Progress Report - Exploration Licence 1/63 Cleveland Tin N.L., period ending February 11, 1975. CEPL unpublished report to Tas. Mines Dept.

Palmer, K.G. (1975b) Progress Report - Exploration Licence 1/63 for six months ending August 11, 1975. CEPL unpublished report to Tas Mines Dept.

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LIST OF ATTACHMENTS

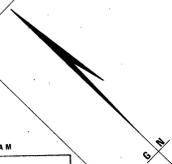
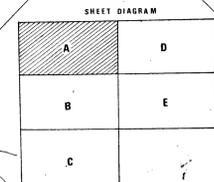
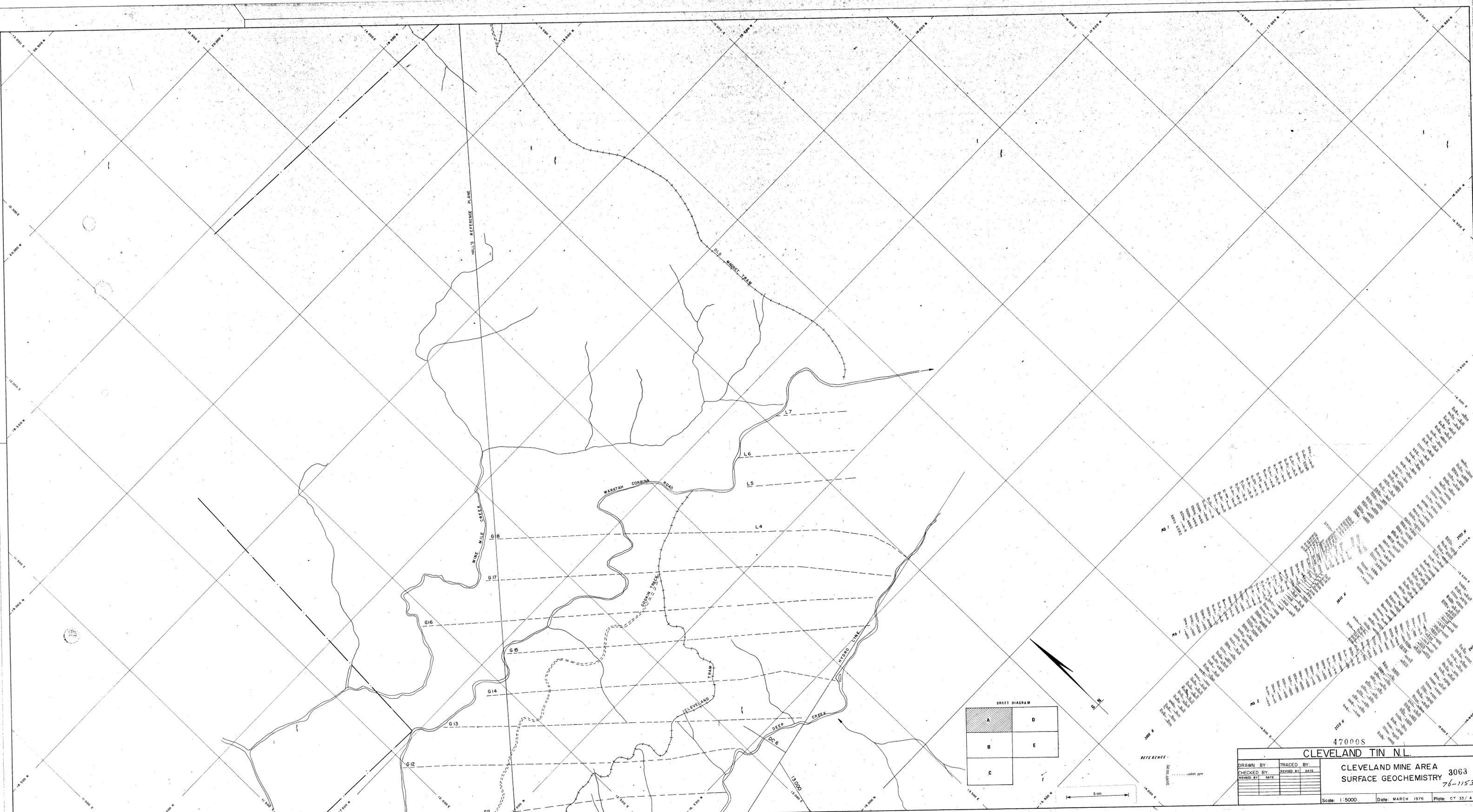
Plate CT33 C, D, E
A, B

Surface Geochemistry 1:5,000 Cleveland E.L. 1/63

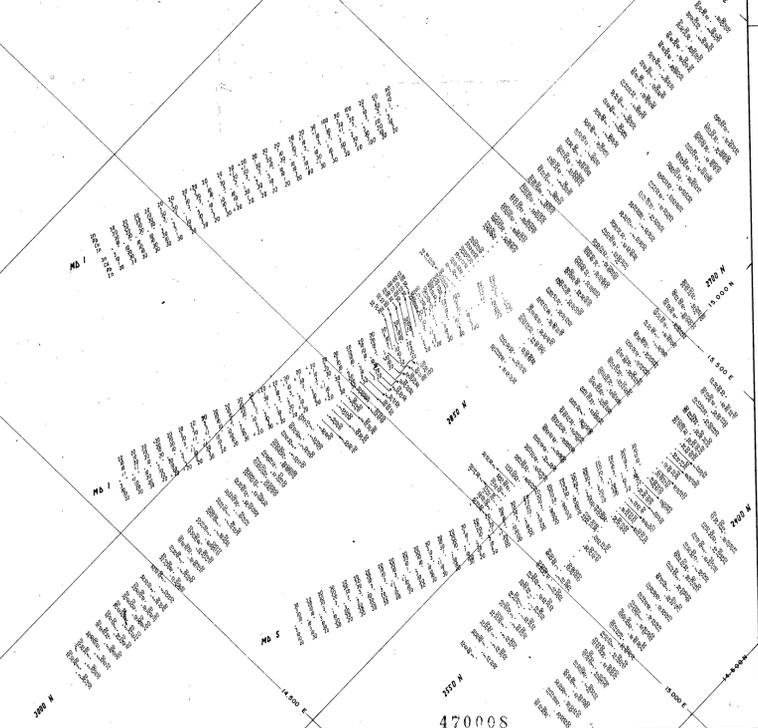
Submitted: D.M. Ransom
D.M. Ransom
Senior Geologist.

Endorsed: L.V. Gentle
L.V. Gentle
Chief Geologist.

DMR:KMW
19/2/76.



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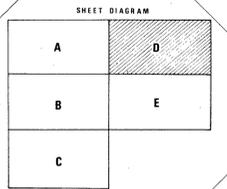
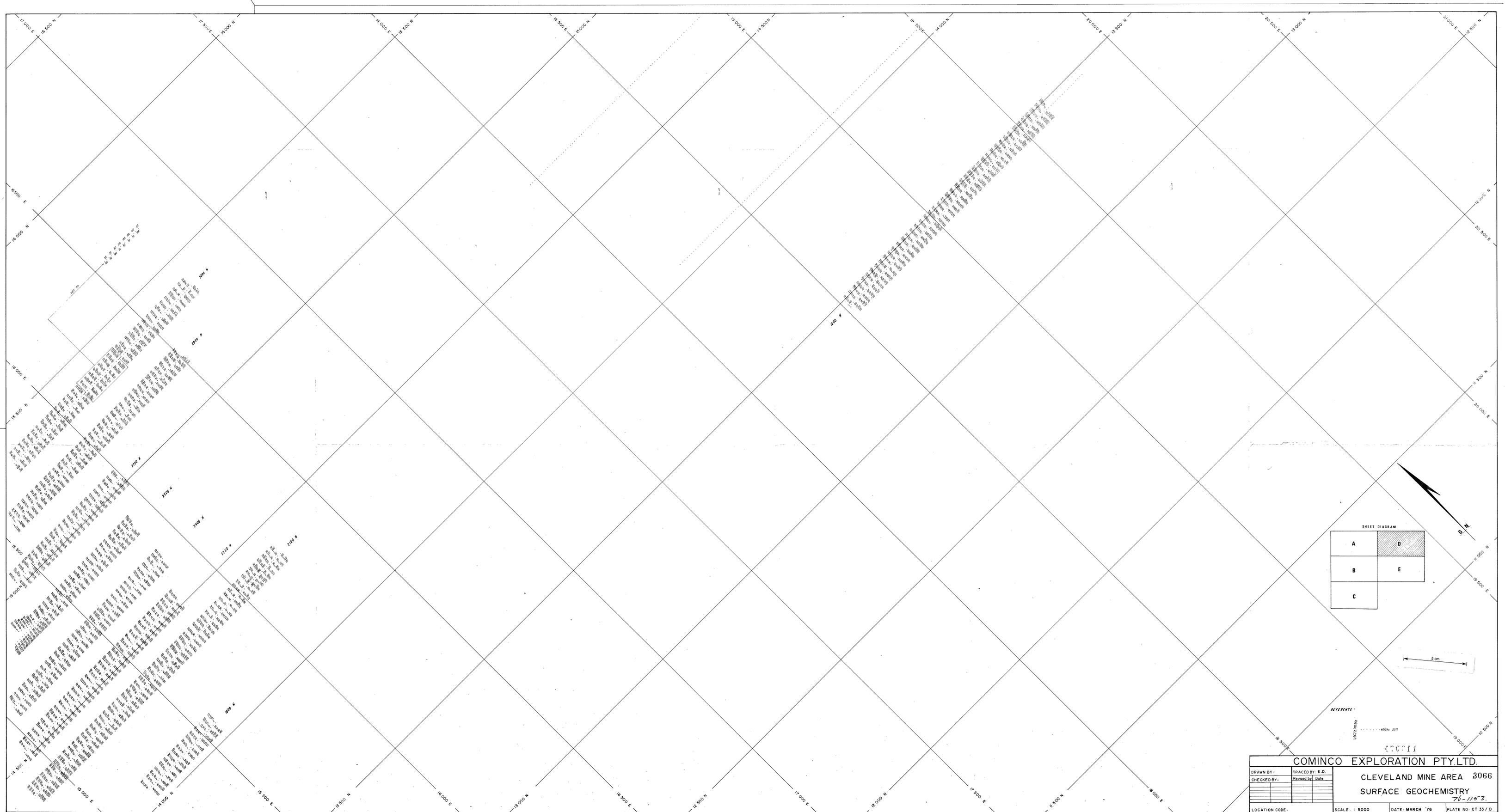


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CLEVELAND TIN N.L.

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CHECKED BY:	DESIGNED BY:	SURFACE GEOCHEMISTRY 3063
REVISED BY:	DATE:	76-1153

Scale: 1:5000 Date: MARCH 1976 Plate: CT 33 / A

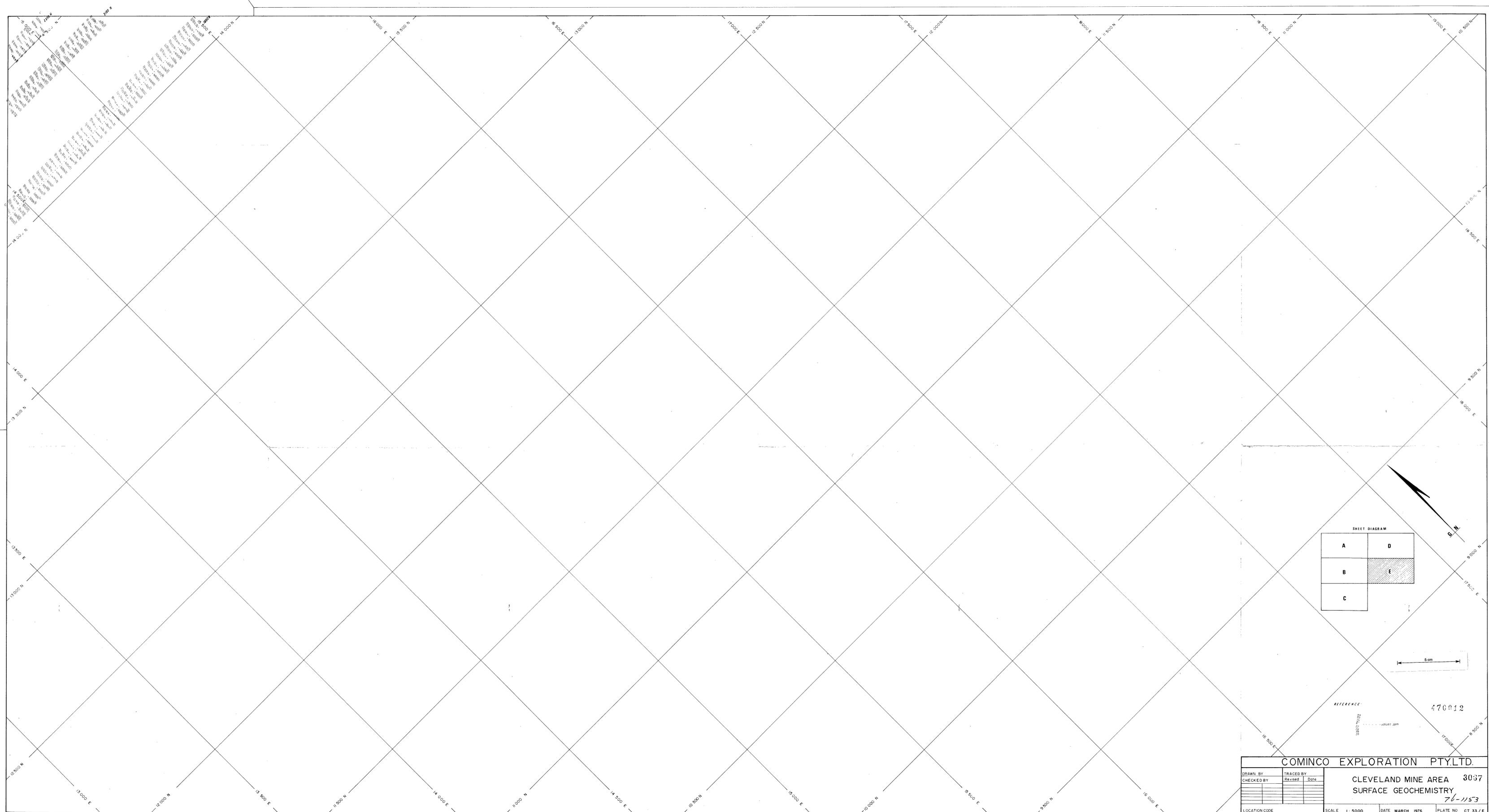


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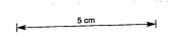
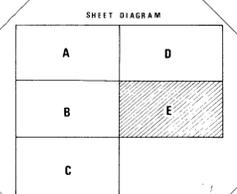
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CHECKED BY:		Revised by:		CLEVELAND MINE AREA 3066	
		Date:		SURFACE GEOCHEMISTRY	
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LOCATION CODE:		SCALE: 1:5000		DATE: MARCH '76	
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COMINCO EXPLORATION PTY.LTD.			
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