Prospect 602

930001

CSR LIMITED - MINERALS DIVISION
EXPLORATION GROUP

PAST EXPLORATION
WITHIN THE AREA OF
EXPLORATION LICENCE 15/76
DUNDAS - TASMANIA

VOLUME I - Text EMR 188/82

HOBART
February 1983

P.D. ELLIS

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VOLUME I

		PAGE NO.
1.	INTRODUCTION	1
2.	SUMMARY	2
3.	LOCATION AND ACCESS	3
4.	MINING HISTORY	4
	4.1 General	4
	4.2 Dundas Field	4
	4.3 Cuni Field	8
	4.4 Mariposa Area	10
5.	EXPLORATION HISTORY	12
	5.1 Government Exploration	12
	5.2 Exploration Companies	16
	5.3 CSR Limited	40
6.	CONCLUSIONS	44
7.	REFERENCES AND BIBLIOGRAPHY	45

TABLE		FACING PAGE NO.
1	PREVIOUS LICENCES WITHIN E.L. 15/76 BOUNDARIES	16

930004

VOLUME II

FIGURES		REFERRED TO ON PAGE NO.
1	E.L. 15/76, LOCATION PLAN, DUNDAS	1
2	WEST COMET, 1930, TASMANIAN DEPARTMENT OF MINES DRILLING	12
3	COMET-MAESTRI, TASMANIAN DEPARTMENT OF MINES DRILLING	13
4	RAZORBACK, 1958-59, TASMANIAN DEPARTMENT OF MINES DRILLING	13
5	BMR RAZORBACK GRID - GEOLOGY AND GEOPHYSICS	13
6	BMR INTERMEDIATE GRID - GEOLOGY AND GEOPHYSICS	13
7	BMR GRAND PRIZE GRID - GEOLOGY AND GEOPHYSICS	13
8	RAZORBACK/GRAND PRIZE, 1962, TASMANIAN DEPARTMENT OF MINES DRILLING	13
9	BMR, NORTH CUNI, GEOPHYSICS AND DRILLING	14
10	BMR, DEVERAUX, GEOPHYSICS AND DRILLING	14
11	BMR, NICKEL REWARD, GEOPHYSICS AND DRILLING	14
12	NORTH CUNI, DRILLING CROSS-SECTIONS	15
13	NORTH CUNI, DRILLING CROSS-SECTIONS	15
14	NORTH CUNI, DRILLING CROSS-SECTIONS	15
15	MARIPOSA - SURFACE WORKINGS AND DRILLING	15
16	MARIPOSA - DRILL SECTIONS	15
17	MARIPOSA - MAGNETIC AND GRAVITY PROFILES	15
18	MARIPOSA - RESIDUAL GRAVITY PROFILES AND DRILLING	15
19	SUNNY CORNER - GEOPHYSICAL PROFILES	16
20	E.L. 5/63 - LOCATION PLAN (COMSTAFF)	17
21	A-Q : SOIL GEOCHEMISTRY AND IP RESULTS - E.L. 5/63 (DUNDAS)	17
22	E.L. 2/62 - LOCATION PLAN (E.Z.)	18
23	A-F : IP RESULTS - EAST MELBA GRID	18
24	LOCATION OF LEAD BLOCKS DRILLING	18
25	NORTH CUNI - SOIL GEOCHEMISTRY	19
26	I.P. RESULTS, LINE 14S, NORTH CUNI	19
27A+B	SOIL GEOCHEMISTRY - DEVERAUX PROSPECT	19
28	CUNI, BMR GRID - TURAM EM CONDUCTORS AND CU ANOMALIES	19
29A+B	CUNI, BMR GRID - EM PROFILES	19
30	NORTH CUNI, E.Z., 1972/73 DRILLING	
31	SPL's 127, 13, 28 AND E.L. 2/67, LOCATION PLAN	20
32	E.L. 12/65, LOCATION PLAN	21

/....

VOLUME II
(Continued)

FIGURES		REFERRED TO ON PAGE NO.
33	E.L. 6/69, LOCATION PLAN	22
34	E.L. 44/70, SPL 89, LOCATION PLAN	22
35	E.L. 44/70, AIRBORNE EM AND MAGNETIC SURVEY, BLACK JACKS AREA	23
36	E.L. 44/70, GROUND EM AND SP RESULTS - BLACK JACKS AREA	23
37	E.L. 44/70, GRAVITY EM, SP AND TOPOGRAPHIC PROFILES, BLACK JACKS AREA	23
38	SPL 46, SPL 113, LOCATION PLAN	23
39	SPL 46, MCINTYRE STREAM SEDIMENT RESAMPLING	24
40	SPL 46, GUN EM PROFILES - ANOMALY 1	24
41	SPL 46, I.P., PROFILES - ANOMALY 1	24
42	SPL 46, Pb/Zn SOIL GEOCHEMISTRY AND MAGNETICS - ANOMALY 1	24
43	SPL 46, Pb SOIL GEOCHEMISTRY - MARIPOSA	25
44	SPL 46 - I.P. SURVEY - MARIPOSA	25
45	A-D : DRILLING RESULTS - MARIPOSA	25
46	E.L. 7/68 - LOCATION PLAN	25
47	E.L. 7/68 - TURAIR EM CONDUCTORS	26
48	E.L. 7/68 - TURAIR EM CONDUCTORS	26
49	E.L. 7/68 - TURAIR EM CONDUCTORS	26
50	E.L. 7/68 - TURAIR EM CONDUCTORS	26
51	E.L. 7/68 - SAMPLE LOCATIONS, GEOPHOTO GRID	26
52	E.L. 7/68 - VLF-EM CONTOURS, GEOPHOTO GRID	27
53	E.L. 7/68 - Pb-Zn SOIL GEOCHEMISTRY PROFILES - HOWARD GRID	27
54	E.L. 7/68 - EM PROFILES, HOWARD GRID	27
55	E.L. 7/68 - SAMPLE LOCATIONS, WEST DUNDAS RECONNAISSANCE	28
56	E.L. 7/68 - Pb/Ag SOIL GEOCHEMISTRY, SILVER GRID	28
57	E.L. 7/68 - GEOPHOTO RESOURCES CONSULTANTS GRID LOCATIONS	29
58	E.L. 7/68 - SUMMARY OF EXPLORATION	
59	E.L. 7/68 - GEOPHYSICAL AND GEOCHEMICAL PROFILES, WEST COMET, 00	31
60	E.L. 7/68 - GEOPHYSICAL AND GEOCHEMICAL PROFILES, WEST COMET, 4N	31
61	E.L. 7/68 - GEOPHYSICAL AND GEOCHEMICAL PROFILES, WEST COMET, 8N	31

/....

VOLUME II
(Continued)

FIGURES		REFERRED TO ON PAGE NO.
62	E.L. 7/68 - GEOPHYSICAL AND GEOCHEMICAL PROFILES, BONANZA GRID, KHW 4S	31
63	E.L. 7/68 - GEOPHYSICAL AND GEOCHEMICAL PROFILES, BONANZA GRID, KHW 4N	31
64	E.L. 7/68 - WEST COMET DRILLING	31
65	E.L. 7/68 - COMET NO. 1 DRILL SECTION	32
66	E.L. 7/69 - COMET NO. 2 DRILL SECTION	32
67	E.L. 7/68 - KOSMINSKY-SOUTH COMET DRILL LOCATIONS	32
68	E.L. 7/68 - GEOPHYSICAL AND GEOCHEMICAL PROFILES AND KHW-1 DRILL HOLE	34
69	SPL 20 - LOCATION PLAN	35
70	SPL 20 - MAGNETIC CONTOURS	35
71	SPL 20 - TIN SOIL CONTOURS	35
72	SPL 20 - LEAD/SILVER SOIL CONTOURS	35
73	SPL 20 - ANOMALY "A", Cu, Sn, As MAGNETIC ANOMALIES	35
74	SPL 20 - ANOMALY "A", TIN ROCK CHIP CONTOURS	35
75	SPL 20 - ANOMALY "A", LEAD ROCK CHIP CONTOURS	35
76	SPL 20 - ANOMALY "A", COSTEAN GEOCHEMISTRY	35
77	SPL 20 - ANOMALY "A" EXTENSION, MAGNETICS	35
78	SPL 20 - ANOMALY "A" EXTENSION, TIN ROCK CHIP	35
79	SPL 20 - ANOMALY "A" EXTENSION, LEAD ROCK CHIP	35
80	SPL 20 - ANOMALY "A" EXTENSION, ARSENIC ROCK CHIP	35
81	SPL 120 - II, ANOMALY "A" COSTEAN RESULTS	36
82	SPL 120 - II, ANOMALY "A", I.P.	36
83	SPL 120 - II, ANOMALY "A", DRILLING	36
84	SPL 406, SPL 11, SPL 27, SPL 120 - I, LOCATION PLAN	38
85	SPL 27, MAGNETICS	38
86	SPL 27, SOIL TIN CONTOURS	38
87	SPL 27, IP AND S.P. ANOMALIES	39
88	SPL 27, SOIL COPPER CONTOURS	39
89	SPL 27, SOIL NICKEL CONTOURS	39
90	SPL 27, GEOPHYSICAL AND GEOCHEMICAL PROFILES	39
91	SPL 27, GEOPHYSICAL AND GEOCHEMICAL PROFILES	39
92	SPL 27, 1977/78 DRAINAGE ANOMALIES	40
93	E.L. 15/76, 1979 DRAINAGE ANOMALIES	41

930007

VOLUME III

APPENDICES

I TASMANIAN DEPARTMENT OF MINES DRILL LOGS FROM THE RAZORBACK MINE DRILLING, 1958-59.

II TASMANIAN DEPARTMENT OF MINES DRILL LOGS FROM THE RAZORBACK/GRAND PRIZE AREA DRILLING, 1962

III DIAMOND DRILL DETAILS FROM THE MARIPOSA MINE AREA (North Broken Hill Ltd. Records)

IV E.Z. CO. SUMMARY OF DRILLING PRIOR TO 1969, CUNI AREA

V GEOPHOTO RESOURCES CONSULTANTS, AMBER CREEK GRID, DEEP SOIL GEOCHEMISTRY

VI GEOPHOTO RESOURCES CONSULTANTS, AMBER CREEK GRID, DEEP SOIL GEOCHEMISTRY

VII GEOPHOTO RESOURCES CONSULTANTS, GEOPHOTO GRID, SOIL AND ROCK GEOCHEMISTRY

VIII GEOPHOTO RESOURCES CONSULTANTS, HOWARD GRID, SOIL GEOCHEMISTRY

IX GEOPHOTO RESOURCES CONSULTANTS, DUNDAS WEST, RECONNAISSANCE ROCK GEOCHEMISTRY

X GEOPHOTO RESOURCES CONSULTANTS, SILVER GRID, SOIL GEOCHEMISTRY

XI GEOPHOTO RESOURCES CONSULTANTS, MONTEZUMA GRID, SOIL GEOCHEMISTRY

XII GEOPHOTO RESOURCES CONSULTANTS, MONTEZUMA GRID, DRILLING GEOCHEMISTRY AND LOGS

930605

VOLUME IV

APPENDICES (Continued)

XIII GEOPHOTO RESOURCES CONSULTANTS, HASSETT GRAVEL PIT, SOIL GEOCHEMISTRY

XIV GEOPHOTO RESOURCES CONSULTANTS, RAZORBACK GRID, SOIL GEOCHEMISTRY

XV GEOPHOTO RESOURCES CONSULTANTS, PLATT GRID, SOIL GEOCHEMISTRY

XVI GEOPHOTO RESOURCES CONSULTANTS, WEST COMET AND PLATT GRIDS, DRILLING SUMMARY

XVII GEOPHOTO RESOURCES CONSULTANTS, COMET AND NORTH COMET GRIDS, DRILLING SUMMARY

XVIII GEOPHOTO RESOURCES CONSULTANTS, KOSMINSKY-SOUTH COMET PROSPECT, DRILLING SUMMARY

XIX GEOPHOTO RESOURCES CONSULTANTS, KOSMINSKY HILL WEST, DRILLING SUMMARY

XX GEOPHOTO RESOURCES CONSULTANTS, SOIL GEOCHEMISTRY, AINSLIE GRID

XXI GEOPHOTO RESOURCES CONSULTANTS, KOSMINSKY HILL EAST-AINSLIE GRIDS, DRILLING SUMMARY

XXII GEOPHOTO RESOURCES CONSULTANTS, CARBINE GRID, DRILLING SUMMARY

XXIII MINOPS SPL 120, ANOMALY "A", DRILL LOGS

XXIV ANALYSIS OF 1981/82 DIGHEM SURVEY

930009

VOLUME V

PLANS

DRG NO.		SCALE
K555-32	E.L. 15/76, DUNDAS, PAST EXPLORATION SUMMARY	1:20,000
K555-33	E.L. 15/76, CUNI GRID (BMR), SP SURVEY	
K555-34	E.L. 15/76, CUNI GRID, E.Z. MAGNETICS AND GEOCHEMISTRY	1:200
K555-35 (MISSING)	E.L. 15/76, MCINTYRE MINES, STREAM GEOCHEMISTRY	1:10,000
K555-36	E.L. 15/76, MONTEZUMA (FRAZER) GRID - GEOPHOTO Cu, Pb, Zn, Sb, Ag ANOMALIES	1:2,500
K555-37	E.L. 15/76, DUNDAS AREA - GEOPHOTO GEOPHYSICAL ANOMALIES	1:12,500
K555-8	E.L. 15/76, DUNDAS, DRAINAGE GEOCHEMISTRY (Sn, Cu, Zn, Pb, Bi, Ag -80 MESH AND ROCK CHIP SAMPLES) NORTH SHEET	1:10,000
K555-9	E.L. 15/76, DUNDAS, DRAINAGE GEOCHEMISTRY (Sn, Cu, Zn, Pb, Bi, Ag -80 MESH AND ROCK CHIP SAMPLES) SOUTH SHEET	1:10,000
K555-24	DDH CG1, MAGNETICS AND VLF-EM PROFILES, CUNI GRID	1:2,500
K555-26	DDH CG2, MAGNETICS AND VLF-EM PROFILES, CUNI GRID	1:2,500

Digital plans attached to TCR 02_4820

pdf file, pdf page no.	Scale	Decription
508	1:5000	Topo Base (30C)
509	1:5000	Topo Base (32B)
510	1:5000	Common Grid Base (Farrell)
511	1:5000	Common Grid Base (Misery)
512	1:5000	Common Grid Base (Dundas)
513	1:5000	Common Grid Base (Howards)
514	1:5000	Common Grid Base (Pine)
515	1:5000	Common Grid Base (Serpentine)
516	1:5000	Common Grid Base (Razorback)
517	1:5000	Common Grid Base (Carbine)
518	1:5000	Common Grid Base (Amber)
519	1:5000	Common Grid Base (Henty)
520	1:5000	Common Grid Base (Ewart)
521	1:5000	Common Grid Base (Professor)
522	1:5000	Base Plan (Serpentine)
523	1:5000	Stream Sediment Panned Concentrate Sample Locations (Serpentine)
524	1:5000	Stream Sediment Anom Locations Cu, Pb, Zn, Sn (Serpentine)
525	1:5000	Stream Sediment Anom Locations Ag, Au, As (Serpentine)
526	1:5000	Panned Concentrate Anom Locations Cu, Pb, Zn, Sn (Serpentine)
527	1:5000	Panned Concentrate Anom. Locations Ag, Au, As (Serpentine)
528	1:5000	Geological Fact (Serpentine)
529	1:5000	Geological Interpretation (Serpentine)

930011

Digital plans attached to TCR 02_4820

pdf file, pdf page no.	Scale	Decription
530	1:5000	I.P. (Serpentine)
531	1:5000	Magnetics (Serpentine)
532	1:5000	S.P. Contours (Serpentine)
533	1:5000	E.M. Contours (Serpentine)
534	1:5000	Drilling & Costeans (Serpentine)
535	1:5000	Soil Geochemistry - Ni (Serpentine)
536	1:5000	Soil Geochemistry - Zn (Serpentine)
537	1:5000	Soil Geochemistry - Pb (Serpentine)
538	1:5000	Soil Geochemistry - Sn (Serpentine)
539	1:5000	Soil Geochemistry - Cu (Serpentine)
540	1:5000	Base Plan (Misery)
541	1:5000	Stream Sediment & Panned Conc Sample Locations (Misery)
542	1:5000	Stream Sediment Anom Locations Cu, Pb, Zn, Sn (Misery)
543	1:5000	Stream Sediment Anom Locations Ag, Au, As (Misery)
544	1:5000	Panned Concentrate Anom Locations Cu, Pb, Zn, Sn (Misery)
545	1:5000	Panned Concentrate Anom Locations Ag, Au, As (Misery)
546	1:5000	Geological Fact (Misery)
547	1:5000	Geological Interpretation (Misery
548	1:5000	I.P. (Misery)
549	1:5000	S.P. Contours (Misery)
550	1:5000	E.M. (Misery)

Digital plans attached to TCR 02_4820

pdf file, pdf page no.	Scale	Decription
551	1:5000	Gravity (Misery)
552	1:5000	Costeans (Misery)
553	1:5000	Soil Geochemistry Zn (Misery)
554	1:5000	Soil Geochemistry Pb (Misery)
555	1:5000	Soil Geochemistry Ag (Misery)
556	1:5000	Base Plan (Farrell)
557	1:5000	Stream Sediment & Panned Cone. Locations (Farrell)
558	1:5000	Stream Sediment Anom Locations Cu, Pb, Zn, Sn (Farrell)
559	1:5000	Stream Sediment Anom Locations Ag, Au, As (Farrell)
560	1:5000	Panned Concentrate Anom Locations Cu, Pb, Zn, Sn (Farrell)
561	1:5000	Panned Concentrate Anom Locations Ag, Au, As (Farrell)
562	1:5000	Geological Fact (Farrell)
563	1:5000	Geological Interpretation (Farrell)
564	1:5000	I.P. (Farrell)
565	1:5000	S.P. (Farrell)
566	1:5000	E.M. (Farrell)
567	1:5000	Gravity (Farrell)
568	1:5000	Drilling (Farrell)
569	1:5000	Costeans (Farrell)
570	1:5000	Soil Geochemistry - Zn (Farrell)
571	1:5000	Soil Geochemistry - Pb (Farrell)
572	1:5000	Soil Geochemistry - Cu (Farrell)
573	1:5000	Soil Geochemistry - Ag (Farrell)
574	1:5000	Base Plan (Amber)
575	1:5000	Stream Sediment & Panned Cone Sample Locations (Amber)

930013

Digital plans attached to TCR 02_4820

pdf file, pdf page no.	Scale	Decription
576	1:5000	Stream Sediment Anom Locations Cu, Pb, Zn, Sn (Amber)
577	1:5000	Stream Sediment Anom Loc Ag, Au, As (Amber)
578	1:5000	Panned Cone Anom Locations Cu,Pb,Zn,Sn (Amber)
579	1:5000	Panned Cone Anom Locations Ag,Au,As (Amber)
580	1:5000	Geol Fact (Amber)
581	1:5000	Geol. Interpretation (Amber)
582	1:5000	E.M. (Amber)
583	1:5000	Base Plan (Professor)
584	1:5000	Stream Sediment & Panned Concentrate Sample Loc.-Cu,Pb,Zn,Sn,Ag,Au,As (Prof)
585	1:5000	Geological Fact (Professor)
586	1:5000	Geological Interpretation (Professor)
587	1:5000	Costeans (Professor)
588	1:5000	Soil Geochemistry Zn (Professor)
589	1:5000	Soil Geochemistry - Pb (Professor)
590	1:5000	Soil Geochem - Ag (Professor)
591	1:5000	Electromagnetics (Professor)
592	1:5000	Base Plan (Pine)
593	1:5000	Stream Sediment & Panned Concentrate Sample Locations (Pine)
594	1:5000	Stream Sediment Anom Locations Cu, Pb, Zn, Sn (Pine)
595	1:5000	1:5000 Stream Sediment Anom Locations Ag, Au, As (Pine)
596	1:5000	Panned Conc Anom Locations Cu, Pb, Zn, Sn
597	1:5000	Panned Conc Anom Locations Ag, Au, As (Pine)
598	1:5000	Geological Fact (Pine)
599	1:5000	Geological Interpretation (Pine)

930014

Digital plans attached to TCR 02_4820

pdf file, pdf page no.	Scale	Decription
600	1:5000	Electromagnetics (Pine)
601	1:5000	Magnetics (Pine)
602	1:5000	Drilling (Pine)
603	1:5000	Soil Geochemistry - Pb (Pine)
604	1:5000	Soil Geochemistry - Ag (Pine)
605	1:5000	Soil Geochemistry - Sn (Pine)
606	1:5000	Base Plan (Carbine)
607	1:5000	Stream Sediment & Panned Conc Sample Locations (Carbine)
608	1:5000	Stream Sediment Anom Locations Cu, Pb, Zn, Sn (Carbine)
609	1:5000	Stream Sediment Anom Locations Ag, Au, As (Carbine)
610	1:5000	Panned Cone Anom Locations Cu, Pb, Zn, Sn (Carbine)
611	1:5000	Panned Conc Anom Locations Ag, Au, As, (Carbine)
612	1:5000	Geological Fact (Carbine)
613	1:5000	Geological Interpretation (Carbine)
614	1:5000	I.P. (Carbine)
615	1:5000	S.P. (Carbine)
616	1:5000	Electromagnetics (Carbine)
617	1:5000	Magnetics (Carbine)
618	1:5000	Drilling & Costeans (Carbine)
619	1:5000	Soil Geochemistry - Zn (Carbine)
620	1:5000	Soil Geochemistry - Pb (Carbine)
621	1:5000	Soil Geochemistry - Cu (Carbine)
622	1:5000	Soil Geochemistry - Ag (Carbine)
623	1:5000	Soil Geochemistry - Sn (Carbine)
624	1:5000	Soil Geochemistry - As (Carbine)
625	1:5000	Base Plan (Dundas)

Digital plans attached to TCR 02_4820

pdf file, pdf page no.	Scale	Decription
626	1:5000	Stream Sediment & Panned Concentrate Sample Locations (Dundas)
627	1:5000	Stream Sediment Anom Locations Cu, Pb, Zn, Sn (Dundas)
628	1:5000	Stream Sediment Anom Locations Ag, Au, As (Dundas)
629	1:5000	Panned Concentrate Anom. Locations Cu, Ph, Zn, Sn (Dundas)
630	1:5000	Panned Concentrate Anom Locations Ag, Au, As (Dundas)
631	1:5000	Geological Fact (Dundas)
632	1:5000	Geological Interpretation (Dundas)
633	1:5000	I.P. (Dundas)
634	1:5000	S.P. (Dundas)
635	1:5000	Electromagnetics (Dundas)
636	1:5000	Magnetics (Dundas)
637	1:5000	Drilling (Dundas)
638	1:5000	Soil Geochem. - Zn (Dundas)
639	1:5000	Soil Geochem - Pb (Dundas)
640	1:5000	Base Plan (Howards)
641	1:5000	Stream Sediments & Panned Conc Sample Locations (Howards)
642	1:5000	Stream Sediments Anom Locations Cu, Pb, Zn, Sn (Howards)
643	1:5000	Stream Sediment Anom Locations Ag, Au, As (Howards)
644	1:5000	Panned Concentrate Anom Locations Cu, Pb, Zn, Sn (Howards)
645	1:5000	Panned Concentrate - Anom. Locations Ag, Au, As (Howards)
646	1:5000	Geological Fact (Howards)
647	1:5000	Geological Interpretation (Howards)
648	1:5000	Electromagnetics (Howards)
649	1:5000	Soil Geochemistry - Zn (Howards)

930016

Digital plans attached to TCR 02_4820

pdf file, pdf page no.	Scale	Decription
650	1:5000	Soil Geochemistry - Pb (Howards)
651	1:5000	Base Plan (Ewart)
652	1:5000	Stream Sediment Conc & Panned Sample Locations (Ewart)
653	1:5000	Stream Sediment Anom Locations Cu, Pb, Zn, Sn (Ewart)
654	1:5000	Stream Sediment Anom Locations Ag,Au,As - (Ewart)
655	1:5000	Panned Concentrate Anom Locations Cu, Pb, Zn & S
656	1:5000	Panned Concentrate Anom Locations Ag,Au,As (Ewart)
657	1:5000	Geological Fact (Ewart)
658	1:5000	Geological Interpretation (Ewart)
659	1:5000	Electromagnetics (Ewart)
660	1:5000	Magnetics (Ewart)
661	1:5000	Soil Geochemistry Zn (Ewart)
662	1:5000	Soil Geochemistry Ph (Ewart)
663	1:5000	Base Plan (Henty)
664	1:5000	Stream Sediment Location (Henty)
665	1:5000	Geological Fact (Henty)
666	1:5000	Geological Interpretation (Henty)
667	1:5000	VLF-ELM (Henty)
668	1:25000	Photo Geology
669	1:10000	Drainage Samples
670	1:25000	Geological Compilation
671	1:25000	Tenement Base Map
672	1:25000	Geological Compilation
673	1:25000	Tenement Base Map
674	1:5000	Razorback Base Map
675	1:5000	Geological Interpretation (Serpentine Razorback)

Digital plans attached to TCR 02_4820

pdf file, pdf page no.	Scale	Decription
676	1:10000	Magnetic & Flight Path Map
677	1:10000	Flight Path Map
678	1:10000	Magnetic Map
679	1:25000	Magnetic Map
680	1:5000	Serpentine Base Map
681	1:25000	Prospect Loc & Geology
682	1:25000	Photo geology
683	1:5000	Topography Sheet 2
684	1:5000	Carbine Track Traverse
685	1:5000	1984 Interpretation/Topography (30B)
686	1:25000	Drainage Sampling
687	1:25000	Geological Interpretations
688	1:25000	Superficial Deposits
689	1:25000	Past Exploration Summary
690	1:25000	Past Geophysics
691	1:5000	Soil Geochemistry Cu (Razorback)
692	1:5000	Soil Geochemistry Sn (Razorback)
693	1:5000	Soil Geochemistry Pb (Razorback)
694	1:5000	Soil Geochemistry Zn (Razorback)
695	1:5000	Soil Geochem Ni (Razorback)
696	1:5000	Drilling & Costeans (Razorback)
697	1:5000	E.M.Conductors
698	1:5000	S.P. Contours (Razorback)
699	1:5000	Magnetics (Razorback)

930018

Digital plans attached to TCR 02_4820

pdf file, pdf page no.	Scale	Decription
700	1:5000	I.P. (Razorback)
701	1:5000	Geological Interpretation (Razorback)
702	1:5000	Geological Fact (Razorback)
703	1:5000	Geological Fact (Razorback)
704	1:5000	Panned Concentrate Anom Loc Ag, Au, As (Razorback)
705	1:5000	Panned Concentrate Anom. Cu, Pb, Zn, Sn (Razorback)
706	1:5000	Stream Sediment Sediment Locations. Ag, Au, As and other (Razorback)
707	1:5000	Stream Sediment Anom Locations Cu, Pb, Zn, Sn (Razorback)
708	1:5000	Stream Sed & Panned Concentrate Sample Locations (Razorback)
709	1:5000	Base Plan
710	1:5000	Geological Interpretation (Razorback)

930019

KEYWORDS

TASMANIA
TIN
COPPER
ZINC
SILVER
EXPLORATION
MINERALISATION
GOLD
LEAD
ANTIMONY

1. INTRODUCTION

Exploration Licence 15/76 (E.L. 15/76) was granted to CSR Limited on 2nd August 1976. This Licence covers an area of 145 km^2 situated about 4 km east of Zeehan on the west coast of Tasmania (Figure 1). The Licence extends south from Melba Flats and Williamsford to the Henty River and west from Mt. Dundas to the Little Henty River.

This area contains small silver/lead/zinc deposits at Dundas (central), a small tin deposit at Mt. Razorback (central north), small copper/nickel shows at Cuni (northwest), small complex lead/antimony bearing sulphides (with Sn, Ag, Bi, W) at Montezuma (northeast) and several small lead/zinc/fluorite shows at Mariposa (southwest). There are also possibilities of the occurrence of silver/lead/zinc with tin sulphides in the upper units of the Oonah Formation (Oonah Mine type), copper/zinc/lead/silver/tin associations in the acid volcanics of the Dundas Group and Renison-type replacement tin deposits. Consequently the area has been intensely prospected.

Since 1976 CSR Limited has undertaken exploration to evaluate the Licence. Prior to 1976 the area was held by many companies and individuals as well as being investigated by government research.

This report summarises all previous exploration data from the area covered by E.L. 15/76.

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2. SUMMARY

A great quantity of exploration data is available for the area of E.L. 15/76.

Regional EM, magnetic, Afmag. and Turair EM surveys have been completed over most of the area. Some regional surveys had been completed on several occasions.

Local investigations of anomalous areas include ground EM, SP, Magnetic, IP, Gun EM, Turam EM, gravity and soil stream and rock chip geochemistry. Most of these investigations have concentrated on areas of previous mining although some surveys cover large areas away from all past activity. Many later surveys are repeats of the earlier surveys.

Results of past exploration are discouraging with no economic mineralisation suggested at or near the surface.

New exploration concepts are required if exploration of E.L. 15/76 is to continue. Such a technique could be trace element studies of drill core and rock outcrop to determine if geochemical haloes are present. These may outline a drill target for a deep-seated economic tin deposit.

3. LOCATION AND ACCESS

E.L. 15/76 is situated 4 km east of Zeehan (Figure 1) in the Land District of Montagu on the west coast of Tasmania. The sealed Murchison Highway diagonally bisects the Licence from the Cuni area (northwest) to the southeast corner. A series of unsealed roads, tracks and old tramways give reasonable access to most areas of the Licence.

All but the northeast of the Licence is drained by tributaries of the westerly flowing Little Henty River system. The northeastern corner is drained by the headwaters of the Ring River which flows into the westerly draining Pieman River system. Most of the streams are small and steep; typically "young" streams. On the flat areas of the easily eroded Gordon Limestone (southeast corner) the streams form swamps.

Apart from the Ordovician Gordon Limestone (10% of the Licence area) the southeast quarter of the Licence is underlain by Siluro-Devonian shales, siltstones, slates and quartzites of the Eldon Group. The remainder of the Licence is underlain by Upper Precambrian to Middle Cambrian mudstones, siltstones, sandstones, mud flow conglomerates, chert conglomerates and basic volcanics of the Success Creek and Dundas Groups and the Crimson Creek and Oonah Formations. In the north are minor occurrences (5%) of gabbros, dolerites, serpentinites and pyroxenites of the of the Serpentine Hill ultramafic complex.

The vegetation cover in areas of the Silurian, Devonian and Ordovician rocks is generally buttongrass with local areas of dense ti-tree/sword grass/Bowrah scrub. The remainder of the licence is covered by cool temperate rainforest with patches of dense "horizontal" scrub. Minor areas of open grasslands occur in the cleared areas at Dundas and Cuni.

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4. MINING HISTORY

4.1 General

Traces of tin and gold were found at Mt. Heemskirk in 1876. Several leases were pegged before the first discovery of small vein tin stringers at South Heemskirk in 1879. This field collapsed in 1884 after it was found that the ore bodies were small and widely scattered.

Meanwhile exploratory work from the Heemskirk area had located traces of gold and argentiferous galena and a siler/lead orebody at Zeehan in 1882. Development around Zeehan was slow until 1887 when galena was discovered at the Silver Queen Mine. Intense prospecting and development followed leading to the discovery of the Dundas field in 1889 (galena) and the Cuni/Melba field in 1893 (copper/nickel). Tin (1890) and gold (1891) were found in the Ring River. Tin-bearing sulphide ore was discovered at Renison Bell about 1899 during the construction of the Emu Bay Railway.

Most mining in the Dundas and Zeehan fields ceased at the start of World War I. The only major development this century was the exploitation of the Renison Bell tin sulphide deposit.

4.2 Dundas Field

4.2.1 Dundas

Within a year of the 1889 Dundas galena discovery the area was covered by leases. Dundas township had been built by 1900 following the formation of several exploration and mining syndicates. Most mining activity ceased by 1913. Minor mining occurred at the South Comet Mine between 1927 and 1949 and in recent years. Local prospectors still produce crocoite, cerussite and dundasite specimens from the Adelaide Mine area. The main mines in the area were :-

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(a) Comet-Maestri (1.6 km east of Dundas) - worked between 1889 and 1913 (1907 underground) by Maestri Broken Hill Silver Mining Company and Comet Silver Mining Company. The old dumps have been reworked. Argentiferous galena, cerussite with siderite, sphalerite, iron, manganese and dolomite occurred as lenses along a north-northeast trending shear zone in dark shales/siltstones of the Oonah Formation. Production totalled 183,000 tons of ore releasing 21,850 tons of lead and 1,510,000 ounces of silver.

(b) South Comet Mine Area (2 km south of the Comet-Maestri Mine) - worked between 1911 and 1949 by a multitude of interests. Separate bands of galena and sphalerite with minor jamesonite, pyrite, chalcopyrite and siderite occur as steeply dipping (65°W to 85°E) lenses along a north-northwest trending transcurrent fault in breccia conglomerates, sandstones and siltstones of the Dundas Group. At least 27,718 ounces of silver, 428 tons of lead and 618 tons of zinc were produced.

(c) Kosminsky Mine (between Comet Maestri and South Comet Mines) - worked between 1890 and 1940 by many groups and individuals. Mineralised lodes occur in two north-northwest trending faults in black graphitic slates of the Oonah Formation. To the south the lodes are terminated by a fault (along South Comet Creek). As the lodes have similar mineralogy to the South Comet Lodes they probably represent South Comet faulted extensions. Production was small, totalling only 20 tons of ore releasing 480 ounces of silver and 10 tons of lead.

(d) Adelaide Mine (1.6 km southeast of Dundas) including the Red Lead Mine and Anderson's Reward. Worked between 1890 and 1895, 1897 and 1915, 1917 and 1924, 1926 and 1930, and finally from 1957 (for crystal specimens). Three dipping lodes (60°E) occur along a surface gossan developed on the serpentinised

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contact of an ultrabasic intruding Oonah Formation. The gossans average 10 metres wide and extend for 130 metres along the north-northwest contact zone. At the surface the ferromanganese gossans contain crocoite, melanocroite, cerussite, dundasite and phosgenite changing at depth to galena, sphalerite, pyrite and jamesonite with mangano-siderite, dolomite and serpentinite. Production from the area totalled 8,561 tons of ore releasing 1,860 tons of lead and 186,000 ounces of silver.

(e) West Comet Mine (1.4 km east of Dundas) - worked between 1888 and 1909 with later minor activity. The ferromanganese gossan lodes containing crocoite and rich shoots of silver, chlorite and galena occur in a puggy clay along the silicified contact of serpentinite intrusion into black Oonah Formation shales. About 60,500 tons of ore produced 2,700 tons of lead and 270,000 ounces of silver.

4.2.2 Razorback

During exploration activity in 1909 alluvial cassiterite was located near Dundas. Its source was traced to a fissure replacement type lode along the faulted junction of serpentinised ultrabasic pyroxenite with the shales, greywackes and conglomerates of the Middle Cambrian Dundas Group at Mt. Razorback.

The lode contains fine cassiterite with pyrrhotite, pyrite, arsenopyrite and chalcopyrite in manganiferous siderite and quartz. This lode is similar in mineralogy and style to the Renison Mine orebodies.

Mining of the lode occurred intermittently with a total production of 46½ tons of metallic tin.

4.2.3 North Dundas

Exploration activity around Dundas in 1891 located complex sulphide occurrences in the Northeast

Dundas-Montezuma area. These sulphides occur in small fissure veins parallel to the north-northeast and north-northwest trend of tight folds and faulting in Cambrian shales, siltstones, greywackes and breccia conglomerates with interbedded andesitic/basaltic lavas and tuffs. Four vein types were noted :-

i) Tetrahedrite and chalcopyrite with pyrite and possibly arsenopyrite, jamesonite, galena, sphalerite and bismuthinite in a gangue of siderite, and quartz. This vein type occurs at the Ring Valley-Fahlore Mine, South West Curtin-Davis, Curtin-Davis, No. 1 Curtin-Davis, Black Boz, Bonnie Dundee and Ramsdale.

ii) Galena, sphalerite and pyrite possibly with jamesonite and tetrahedrite in a gangue of siderite, dolomite and quartz. This type occurs at the Kapi, Melba and Great Northern Creek mines.

iii) Chalcopyrite, bismuthinite and pyrite possibly with pyrrhotite, arsenopyrite and galena in a siderite gangue. This type occurs at the Hecla Mine.

iv) Pyrrhotite, arsenopyrite and cassiterite with chalcopyrite and pyrite occurs at the Frazer Mine.

These veins were worked intermittently between 1891 and 1920 at many small mines and prospects. The main mines within E.L. 15/76 were :-

(a) Curtin Davis - worked between 1893 and 1903 to produce 922 tones of ore with 32 tons of copper, 10 tons of lead and 27,000 ounces of silver.

(b) South West Curtin Davis - worked between 1893 and 1902 to extract 600 tons of ore with 65 tons of copper and 90,000 ounces of silver.

(c) South Curtin Davis - worked between 1893 and 1898 and from 1899 until 1902. 216 tons of fahl ore and galena were extracted to produce 35,000 ounces of silver, 35 tons of copper and 8 tons of lead during the latter period.

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(d) No. 1 Curtin Davis - worked between 1896 and 1900 to produce 37 tons of ore with 4,255 ounces of silver and 3.7 tons of copper.

(e) Block 302/Block 291 - very poor grades with only 26 tons of ore being extracted to produce 2,211 ounces of silver and 1 ton of copper.

(f) Ramsdale Prospect - studied briefly in 1925 and 1931 but not worked due to the small irregular low grade nature of the veins.

(g) Evenden Prospect - studied briefly in 1925 and found to be very low grade.

(h) Hecla Mine - worked by adit but abandoned prior to 1898. No production records are available but the deposit appears very low grade.

(i) Frazer Mine - worked between 1895 and 1922. About 1,000 tons of ore was extracted to produce 25 tons of copper and 170 tons of arsenic with minor silver and tin.

4.3 Cuni Field

Copper and nickel rewards were awarded to prospectors of the Cuni field in 1893. Further investigations also located the McKimmie lead/zinc mineralisation in 1893. Little development occurred until 1909 when mining of the copper/nickel deposits commenced and lead veins were located at Lead Blocks and Allen's Prospect.

4.3.1 Copper/Nickel Deposits

Mining ceased at Cuni in 1914 when the war closed European markets. Between 1909 and 1914 about 3,476 tons of ore with 8-17% nickel and 4-14% copper was produced. Small scale mining between 1928 and 1932 at North Cuni produced a further 204 tons of nickel ore. The Vaudeau workings were re-opened in 1938 and 1948 for short periods.

The area contains Lower/Middle Cambrian Crimson Creek Formation shales, siltstones and greywackes which have been intruded by serpentinised gabbros and pryoxenites. The mineralisation occurs as shoots in, or adjacent to, the basic sills (metasomatised fine to medium grained dolerite). Two ore types have been recognised :-

i) nickel as pentlandite and violarite with pyrrhotite and up to 20% pyrite and chalcopyrite - occur at North and South Cuni.

ii) nickel as millerite intergrown with chalcopyrite and pyrite - occurs as a high grade deposit and Nickel Reward and Devereaux's and as a low grade deposit at North Cuni.

The main mines and prospects in the area are as follows :-

(a) Genet's Winze - only worked to a depth of 3 metres in 1929-31. Drilling suggested about 15,000 tons of ore with 4-6% nickel and 2-3% copper, occurring to a depth of 30 metres.

(b) North Cuni - worked to a depth of 24 metres in 1912-14 and 1929-32. A maximum of 3,500 tons of ore with 17% nickel and 6% copper could still exist.

(c) South Cuni - worked to a depth of 22 metres in 1909-14 with only minor ore still existing.

(d) Blowfly - worked out 20 metre long ore zone by 1914.

(e) Mosquito - worked out by 1914.

(f) Vaudeau - worked in 1912-14 and for short periods in 1938 and 1948. The ore extended to a depth of 37 metres. All known lode was extracted.

(g) Nickel Reward - small lodes of sub-economic ore were extracted until 1914. Drilling showed no economic ore even though S.P. surveys (see below) showed 7 or 3 ore bodies extending to 30 metres along strike and at unknown depth.

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(h) Devereaux Prospect - no production from a low grade orebody of limited extent.

Apart from the above mining activity, this area has been studied intermittently in detail by various government bodies (see Section 5.1).

4.3.2 Lead/Zinc Deposits

Lead/zinc mineralisation is parallel to but east of the copper/nickel mineralisation. Host rocks for the lead/zinc ore are black, grey, green and purple shales of the Cambrian Crimson Creek Formation. The galena and sphalerite veins are parallel to the north-south strike of the host rocks are of Devonian age.

The main mines and prospects are :-

(a) Lead Blocks - five galena and sphalerite veins in a siderite and quartz gangue were worked in 1911-14. 2,136 tons of ore from depths to 44 metres were extracted for a loss of £13,000. Small amounts of ore were extracted in 1915-16, 1935-36 and 1947. Total production was 2,180 tons of ore with 120,000 ounces of silver and 1,420 tons of lead.

(b) Allen Prospect - south of Lead Blocks. Small galena veins petered out at a very shallow depth.

(c) McKinnie - around 1896 two galena veins were worked by open trenching to a depth of 2 metres and over a strike length of 3 metres. A shaft was sunk but production ceased by 1902 due to small low grade ore shoot occurrences.

4.4 Mariposa Area

In 1890 a line of silver/lead/zinc mineralisation in the Black Jacks-Mariposa area was located. Several small mines (Mariposa, Alameda, Martini, South Nevada and Black Jacks) were opened. All but the Mariposa closed by 1893. The Mariposa closed in 1901 but re-opened for short periods in 1905-11, 1923-24 and 1927-31.

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The ore shoots were fissure lodes in the Ordovician Gordon Limestone near the contact with the Silurian Grotty Quartzite. East of the main mineralised zone is a quartz/ pyrite line along the faulted contact of the Cambrian Dundas Group.

The Mariposa line mineralisation is dominantly galena with siderite and calcite. Limonite gossans with cerussite and galena occur on the surface.

Similar fault-controlled galena mineralisation occurs to the southeast at Sunny Corner and Bannockburn. Although small mines and workings existed in this area no production records are available.

5. EXPLORATION HISTORY

Major mining and exploration companies became interested in the E.L. 15/76 area in 1959 when Rio Tinto obtained a large exploration licence covering most of northwest Tasmania. Between the period of active mining around 1900 and the start of large scale exploration in 1959, small miners and government bodies conducted small localised exploration. Most of this small scale exploration concentrated on increasing the ore reserves at old mines and prospects.

5.1 Government Exploration (incl. small localised company expl.)

5.1.1 Dundas Field

(a) **Dundas.**

In 1930 the Tasmanian Department of Mines drilled three holes designed to intersect the West Comet lode beneath the main workings (Patterson, 1970). The holes (sited in the western mine flank) were between 100-130 m long. Core recovery was poor but each hole appeared to intersect gossanous horizons. The drill logs (Figure 2) showed lode horizons dipping west at 60-70°. No assays are available.

The Australian Mining and Smelting Company undertook a study of the Comet-Maestri mine in 1949 in order to negotiate an option over M.L. 75M/46. Finucane (1947) suggested five drill holes were required to test ore extensions at depth. However, this study also indicated many possible mining problems with the deposit. The option was not exercised.

North Broken Hill Pty. Ltd. followed Finucane's recommendations and attempted to drill three holes in 1952 (Discala, 1974). Two holes were abandoned after caving-in. The third hole reached 200 m but no results are available.

In 1961 the Tasmanian Department of Mines further evaluated the Comet-Maestri mine and recommended three holes to test the northern extension of the Comet Lode in the Maestri siding area (MacLeod, 1962). These holes were drilled in 1962 (MacLeod, 1962). Core recovery was poor but assays agreed with Finucane's surface sampling showing less than 1 ounce of Ag and little or no Pb (Figure 3).

The Great South Comet mine was examined and evaluated by the Tasmanian Department of Mines (on behalf of the Lead and Nickel Company N.L.) in 1950. After surveying mapping and sampling the underground workings Taylor (1950) estimated reserves of 60,000 tons of ore containing 8% Pb, 7.4% Zn and 8 ounces/ton Ag.

(b) **Razorback.**

The Tasmanian Department of Mines investigated and evaluated the Razorback/Grand Prize mine area (Taylor, 1951). Three drill holes were recommended near the Razorback Mine. These holes were drilled in 1958-59 by the Department of Mines (Blissett and Gulline, 1960). Although core recovery was poor, assays showed irregular fissure replacement mineralisation containing fine cassiterite with pyrrhotite, pyrite, arsenopyrite and chalcopyrite in quartz and manganiferous siderite (Figure 4, Appendix I).

Early in 1960 the Bureau of Mineral Resources located several anomalies (Figures 5, 6 and 7) during detailed electromagnetic, S.P. and magnetic surveys of the Mt. Razorback-Grand Prize mines area (Langron and Horvath, 1962). Several of these anomalies were drilled by the Mines Department (MacLeod and Jack, 1962). The magnetic anomalies were caused by magnetite veins but no mineralisation to explain the Turam EM or SP anomalies was intersected (Figure 8, Appendix II).

5.1.2 Cuni Area

The first recorded systematic exploration of the Cuni Cu/Ni or Pb/Zn fields was in 1928 when the Imperial Geophysical Experimental Survey made electrical (equipotential line, A.C. potential ratio and high frequency EM methods) and magnetic surveys over the northern section (Broughton-Edge and Laby, 1931). Resultant anomalies were tested by boreholes and trenches sunk by the Tasmanian Department of Mines in 1930 and 1939-40. Holes 2, 3 and 4 were to the northeast of Genet's Winze, holes 1, 5, 6, 7, and 8 were near the South Cuni Shelf, holes 9 and 19 were east of Genet's Winze and holes 11 to 17 were near Vaudeau's shaft (Taylor and Burger, 1952). This drilling showed the Cu/Ni ore occurred as shoots along the footwall (western) of the eastern basic intrusion. These shoots were 20 to 50 metres long, up to 2 metres wide but less than 60 metres in depth (Blake, 1952).

This increased potential for the area resulted in the BMR conducting self potential and electromagnetic surveys in 1952-53 around the Cuni North and Cuni South shafts. Five strong SP anomalies were located and recommended for further investigation (Keunecke, 1952). Eagle Metals and Industrial Products drilled four of these anomalies (EM1 to EM4) in 1953 (Figure 9) with inconclusive results due to poor core and sludge recovery. EM5 was abandoned and the option over the Montana Silver Lead N.L. leases was allowed to lapse.

Montana Silver Lead continued the evaluation of the geophysical anomalies by drilling 18 holes (M6 to M23 drilled by the Tasmanian Mines Department) and digging numerous trenches in 1955-57. Holes M6-M9 were drilled at North Cuni (Figure 9), M10-M12 at Deveraux Prospect (Figure 10), M13-M22 at Nickel Prospect (Figure 11) and M23 in the serpentinite belt south of Nickel Reward (DRG No. K555-33). This drilling and

costeaning included the evaluation of several small to medium anomalies located by the BMR in a concurrent SP and EM survey over the southern Cuni area (Horvath and O'Connor, 1958).

The results of this geophysical and drilling evaluation of the North Cuni to Deveraux Prospect area (Figures 12, 13 and 14) confirmed earlier investigations. Only small high grade ore shoots occurred to a depth of 30 metres along the footwall of a metasomatised dolerite dyke. Further drilling of geophysical targets was recommended (Horvath, 1957).

5.1.3 Mariposa Area

The first recorded systematic exploration of the Mariposa Mine area was by North Broken Hill in 1946-51. Records of this work are sketchy. After review of the old mine workings North Broken Hill drilled 3 holes beneath the Mariposa Mine in 1947. A further 8 holes were drilled in the vicinity of the mine in 1950. This drilling (Figure 15 and Appendix III) showed the existence of a near vertical orebody (Figure 16) 460 feet long and 5.6 feet wide containing 9.2% Pb, 1.7% Zn and 4.7 ounces of silver. To the east of the southern part of this ore lens was a second narrow ore zone (Garretty, 1951).

Concurrent with the drilling was a BMR magnetic and gravity survey in the vicinity of the Mariposa Mine (Loh, 1950). No definite magnetic anomalies were evident (Figure 17) although disturbances near the shafts and along the inferred mineralised zone were noted. These disturbances may have been cultural. The gravity survey (Figures 17 and 18) showed 7 anomalous zones (Loh, 1950). Zone 1 reflected the line of known mineralised lenses with Zone 2 being parallel but about 30 m to the east and also representing a mineralised zone (drill hole 10) Anomalies 3, 4 and 5 appeared to relate to terrain correction problems while anomaly 6 could have represented

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TABLE 1 : PREVIOUS LICENCES WITHIN E.L. 15/76 BOUNDARIES

Licence No.	Licence Holder	Position of Licence Relative to E.L. 15/76	Period of Licence
E.L. 4/59	Rio Tinto	All northwest Tasmania	3/4/59 to 3/4/63
E.L. 5/63	Costigan Mines then to Comstaff	Southern part covered, central and northern part of E.L. 15/76. Reduced in area gradually.	1963 to 1964 → Comstaff 30/6/64 to 30/12/67→ E.L. 7/68
SPL 406	Clutha then R.P.J. Weedon	Southern part covered, central northern part of E.L. 15/76	21/5/64 to 21/6/65 → SPL 11
SPL 11	R.P.J. Weedon worked by Placer	As above.	21/6/65 to 21/12/66→ SPL 27
SPL 27	Renison	As above.	19/1/67 to 19/7/73→ part of SPL 120
SPL 120(I)	Minops	As above.	July 1973 to 15/6/75→ reduced to Mining Lease
SPL 13	Placer	The far eastern section covered a small western part of E.L. 15/76	21/7/64 to 21/12/66→ SPL 28.
SPL 28	Renison	As above	19/1/67 to 19/7/67→ included in E.L. 6/69
E.L. 2/67*	Utah	The northeastern corner covered a a small part of the south of E.L. 15/76	24/1/68
E.L. 12/65*	Pickhands Mather	The northwestern corner covered a small part of the south of E.L. 15/76	21/12/68 → part E.L. 6/69
E.L. 6/69	A.R. Dobson	The eastern part covered the western and southern parts of E.L. 15/76	13/3/69 to 13/9/69→ part to E.L. 44/70 and part to SPL 89.
E.L. 44/70	A.R. Dobson	The eastern part covered the western edge of E.L. 15/76	3/11/70 to 3/11/72.
SPL 89	Texins	Covered the southern part of E.L. 15/76.	15/7/70? to 15/1/71→ E.L. 7/68.
SPL 46	McIntyre Mines	Covered the central part of E.L.	13/10/68 to 30/4/72→ SPL 113
SPL 113	Texins	As above.	22/6/72 to 22/12/72→ E.L. 7/68
E.L. 7/68	Texins	Initially the western part covered the central part of E.L. 15/76. Then took in SPL 89 and SPL 113.	23/8/68 to 23/2/74
SPL 20	Renison/Mt. Lyell	Covered the northeast corner of E.L. 15/76	19/8/66 to 16/2/71→ SPL 99
SPL 99	I.M. Tucker	As above.	28/10/71 to 28/10/72→ part of SPL 120.
SPL 120(II)	Minops	As above.	15/12/61 to 15/6/75→ reduced to Mining Lease
E.L. 2/62	E.Z.	Southern part. Covered the north-west corner of E.L. 15/76	12/9/62 to 12/9/73→ southern part to SPL 127
SPL 127	L.J.C. Say	Covered the northwest corner of E.L. 15/76	30/10/73 to 30/4/74
SPL 133	Minops	Covered the central northern part E.L. 15/76 (south of SPL 120 I)	28/6/74 to 28/6/75→ reduced to part of Mining Lease

mineralisation at a depth of 60-80 m on the sandstone/ limestone contact. The negative Anomaly 7 possibly represented a cavity in the limestone.

5.2 Exploration Companies

Between 1958 and 1976 (when E.L. 15/76 was pegged) a total of 22 Exploration Licences and Special Purpose Licences were held within the boundaries of E.L. 15/76 (Table 1). A summary of the work completed (DRG No. K555-32) on each Licence and the results follow.

5.2.1 Rio Tinto Australia (E.L. 4/59)

E.L. 4/59 held by Rio Tinto Australia Pty. Ltd. covered most of northwest Tasmania (including E.L. 15/76). This area was traversed by airborne magnetic and electromagnetic surveys (McCarthy, 1957). Follow-up work of resultant anomalies led to the investigation (mapping) of the Comet, South Comet and Kosminsky mines (McKenna, 1958) and the southwest Mariposa mine area (Boniwell, 1959).

The Dundas/Comet investigations concluded that the only significant mineralisation was the 7,000 tons of 8.6% Pb, 19.1% Zn, 0.09% Cu and 5.7 ounce/ton Ag at the South Comet mine (Gregory, 1959). This was considerable smaller than the 60,000 tons of 8% Pb, 7.4% Zn and 8 ounce/ton Ag ore estimated by the Tasmanian Department of Mines in 1950.

Investigations in the Mariposa area consisted of gridding the Sunny Corner mine area and traversing with ground magnetics, gravity and E.M. Several weak to very weak anomalies were located (Figure 19). One coincident EM and magnetic anomaly (line 20N in the north of the grid) was recommended for follow-up geochemical investigation. No records of such an investigation are available.

The only other recorded investigation within E.L. 15/76 boundaries by Rio Tinto was the production of a geological map. This map was produced by an air photograph interpretation (King, 1961) confirmed by some field examination of outcrops.

Rio Tinto allowed E.L. 4/59 to expire in April 1963 due to a lack of encouraging results.

5.2.2 Costigan Mines/Comstaff (E.L. 5/63)

The central and northern part of E.L. 15/76 was obtained by Costigan Mines as E.L. 5/63 in 1963 (Figure 20). This licence covered most of the area from Dundas to Waratah. In 1964 this Licence passed to Comstaff in a joint venture agreement. It was gradually reduced in area until it no longer covered any part of E.L. 15/76 in 1967. Five small portions of the licence were still held by Comstaff.

The only investigations on E.L. 5/63 within the boundaries of E.L. 15/76 was an I.P. and soil geochemistry (Sn, Cu, Pb, Zn, Co) survey over 13 lines in the Dundas/South Comet area in 1965 and an Afmag survey covering E.L. 5/63 in 1966. Major Cu, Pb and Zn anomalies were located along the northern extension of the South Comet/Comet-Maestri line of mineralisation. This mineralised line also showed minor Sn and I.P. anomalies. Other minor Sn and I.P. anomalies were noted in the area west of the Razorback Mine (Figures 21A-Q).

Fifteen Afmag anomalies were shown in the vicinity of Mt. Dundas during the 1966 survey (Sutherland, 1966). Navigation problems during the survey resulted in insufficient details being obtained to accurately locate these anomalies. Furthermore the reliability of the results was greatly reduced due to excessive air turbulence during the survey.

No follow-up work was completed and reported on any of the I.P., Afmag or soil geochemical anomalies prior to the area within the area of E.L. 15/76 being reqlinquished from E.L. 5/63 in 1967. Reasons for the lack of anomaly follow-up and relinquishment were not given.

Most of the part of E.L. 5/63 within the boundaries of E.L. 15/76 was then pegged by Geophoto Resources Consultants as E.L. 7/68 (see below).

5.2.3 Electrolytic Zinc Company (E.L. 2/62)

E.L. 5/63 (Costigan Mines/Comstaff) covered most of the central and northern part of E.L. 15/76. The northwestern corner was excluded from E.L. 5/63 as it had been pegged by E.Z. Co. as E.L. 2/62 in early 1962 (Figure 22). E.L. 2/62 extended several km's north of the E.L. 15/76 boundary.

From 1962 until 1967 E.Z. Co. concentrated most of their exploration of E.L. 2/62 in the area to the north of the E.L. 15/76 boundary. Only lines 135, 145, 155 and 165 of the North Melba grid and lines 30N, 33N, 36N, 39N, 42N and 45N of the East Melba grid were within the boundaries of E.L. 15/76 and investigated until 1967.

The East Melba lines covered the lead/zinc zone around the McKimmie mine area. These lines were traversed with an I.P. survey the results of which (Figure 23A-F) were never interpreted. No follow-up work has been reported. The only reported investigation of this area by E.Z. Co. also showed the Lead Blocks area had been drilled with a series of 9 vertical holes (L1-L9). No record of the logs of these holes except for the locations (Figure 24) are available. Records on the Lead Blocks grid and area are included in Goudie (1970) as loose pages.

The four North Melba lines covered the area to the north of the North Cuni/Genet's Winze mineralisation. These lines (and those to the north outside E.L. 15/76 boundaries) were traversed with magnetics, I.P. and soil geochemistry for Cu, Pb, Zn, Ni and Sn (Hackett, 1968). Resultant anomalies (Figures 25 and 26) around the North Cuni/Genet's Winze area were investigated by 7 drill holes (Figure 9). This drilling showed the Cu/Ni mineralisation occurred as shallow, sporadic high grade lenses adjacent to, and in, a simple metadolerite intrusive sill (Griffith, 1968).

The lack of economic mineralisation intersections in this drilling resulted in E.Z. Co. reviewing previous drill data in 1969. This showed (Anon, 1969) the Cuni area to be extensively drilled with a total of 47 holes (Appendix IV) in the following areas :-

North Cuni/Genet's Winze	-	22 holes	- 4 separate companies
South Cuni	-	7 holes	- 2 companies
Blowfly	-	2 holes	- 1 company
Mosquito	-	2 holes	- 1 company
Vaudeau	-	3 holes	- 1 company
Nickel Reward	-	8 holes	- 1 company
Devereaux	-	3 holes	- 1 company

However, E.Z. Co. continued exploring the area (Burt, 1971) traversing the BMR's geophysical grid (see above) with magnetics and soil geochemistry (Cu, Pb, Zn, Ni, Co and some As). A Turam EM survey was also conducted over all but the Deveraux Prospect portion of the grid (Howland-Rose, 1971).

No anomalies were located in the Deveraux Prospect area (Figure 27). The Turam survey (Figures 28, 29A, 29B) located 25 anomalies within 30 metres of the surface on the Melba Grid. The soil geochemistry (DRG No. K555-34) showed significant copper anomalies over known sulphide bodies. Nickel and zinc gave coincident

but wider anomalies. Several small localised previously unknown Cu/Ni anomalies were also delineated. Lead with coincident zinc gave anomalous values in areas of known Pb/Zn veins.

The area of strongest coincident E.M. and geochemical anomalies was the South Cuni-Cuni Rise-North Cuni-Genet's Winze area. This anomalous zone, parallel to a doleritic intrusion, was drilled. All other anomalous (E.M. and geochemical) were at very limited strike length and were of no economic interest.

The strong coincident Cu, Zn, Ni and E.M. anomaly at Genet's Winze was drilled in 1972/73 (Burton, 1973). All holes intersected dolerite but with only minor mineralisation. One intersection of 9 feet of 0.76% Cu and 0.94% Ni was located (Figure 27). Burton (1973) concluded further drilling of weaker anomalies was not justified.

On completion of the 5 drill holes at Genet's Winze. E.Z. Co. re-examined all data within E.Z. 2/62 (Lillicrap, 1973) and concluded there was no possibility of the existence of an economic mineral deposit in the southern part of the Licence. Minor work was required in the northern area (to the north of E.L. 15/76).

E.L. 2/62 was dropped by E.Z. Co. in 1973 and partially re-pegged by L.J.C. Say as SPL 127.

5.2.4 L.J.C. Say (SPL 127)

SPL 127 covered the portion of E.L. 2/62 that was inside the present boundaries of E.L. 15/76 (Figure 31).

The only recorded investigation of SPL 127 was a brief historical review (excluding E.Z. Co. work) by Bell (1974). No field work was initiated. SPL 127

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was forfeited on 30th April 1974 and remained vacant until 1976 when it was included in E.L. 15/76.

5.2.5 Placer Prospecting Pty. Ltd. (SPL 13)

SPL 13 covered the strip to the east of Zeehan extending from Zeehan to the Little Henty River. Most of this strip was to the west of E.L. 15/76 (Figure 31).

During the term of this Licence from July 1964 to December 1966 no work was completed within the area of E.L. 15/76. Almost all of Placer Prospecting Pty. Ltd.'s work was around the Oonah and Oceania Mine.

5.2.6 Renison Ltd. (SPL 28)

Renison Ltd. repegged the area of SPL 13 as SPL 28 in January 1967 (Figure 31). No work was completed within E.L. 15/76 boundaries during the term of SPL 28. Again most of the investigations were concentrated around the Oonah and Oceania Mines.

Renison Ltd. relinquished the area in July 1967. The area was included as part of E.L. 6/69 when it was repegged by A.R. Dobson in March 1969 (see below).

5.2.7 Utah Development (E.L. 2/67)

E.L. 2/67 covered the area of E.L. 15/76 south of the Little Henty River (Figure 31). The only recorded investigation of this Licence was a geological review (Banks, 1968). This showed Utah were exploring for possible phosphate deposits.

Utah relinquished the area on 24th January 1968 when it was shown (Banks, 1968) there were no possibilities for the existence of economic phosphate deposits within the Licence.

5.2.8 Pickands Mather (E.L. 12/65)

E.L. 12/65 covered a similar area to Utah's E.L. 2/67 phosphate licence although extending further west (Figure 32).

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Initial drainage geochemistry by Pickhands Mather showed several anomalies in the Basin Lake area to the south of E.L. 15/76. All work was thus concentrated in the anomalous area (Wuerch, 1971). No further work was recorded within the area of E.L. 15/76 prior to the relinquishment of E.L. 12/65 in late 1968.

A.R. Dobson repegged this relinquished portion of E.L. 12/65 (within E.L. 15/76) as part of E.L. 6/69. The remainder of E.L. 12/65 was relinquished in December 1971

5.2.9 A.R. Dobson (E.L. 6/69)

E.L. 6/69 covered the southern (south of the Little Henty River) and western (west of the Mariposa Mine) portions of E.L. 15/76 (Figure 33). Most of this area is underlain by the Ordovician Gordon Limestone and Siluro-Devonian sediments.

No exploration was initiated within the present E.L. 15/76 boundaries. Most of the work within E.L. 6/69 was concentrated around the Oonah, Spray and Oceania Mines area.

This Licence expired in late 1969 and was replaced in early 1970 by two separate licences. The eastern part of E.L. 6/69 (southern portion of E.L. 15/76) was pegged by Texins (Geophoto Resources Consultants) as SPL 89 (Figure 34) which was later amalgamated with E.L. 7/68 (Geophoto). The western portion of E.L. 6/69 (covering the western edge and areas west of E.L. 15/76) was repegged by A.R. Dobson as E.L. 44/70 (Figure 34).

5.2.10 A.R. Dobson (E.L. 44/70)

As with E.L. 6/69 most of the work initiated by Dobson within E.L. 44/70 was around the Oonah, Spray and Oceania Mine and thus outside the boundaries of E.L. 15/76. However, part of the Licence was optioned to Tenneco.

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Initial Tenneco interest was confined to the known mineralisation at the Spray, Oonah and Oceania Mines (Besley, 1971a, b). Interest gradually extended to the study of dumps at all zones of known mineralisation (Besley. 1971c) and finally to regional studies of all limestone areas. This regional study consisted of an airborne (helicopter) electromagnetic and magnetic survey and covered the Black Jack's to Bannockburn area of E.L. 15/76 (Besley, 1972). Significant but weak conductor axes were were noted in the Black Jacks area (Figure 35).

These E.M. anomalies were followed-up by ground EM and SP surveys along cut grids. Results of these surveys (Figures 35 and 36) showed four north to north-northwest trending shallow but weak conductors. SP and EM anomaly correlations were poor.

A follow-up gravity traverse on Line 8S (Rugg, 1972) showed no anomalies coincident with the SP or EM anomalies (Figure 37). Tenneco concluded that there was no economic mineralisation in that portion of E.L. 44/70 now within E.L. 15/76 boundaries.

Dobson allowed E.L. 44/70 to expire on 3rd November 1972.

5.2.11 McIntyre Mines (SPL 46)

In October 1968 McIntyre Mines (Australia) Pty. Ltd. pegged the central part of the present E.L. 15/76 as SPL 46. This covered the area to the east of (and included) the Mariposa Mine and between the South Comet mine and the Little Henty River. Most of the Farrell River drainage was included in this area (Figure 38).

Initial work by McIntyre involved sampling most of the drainage within the licence at 200 feet intervals

(Sharwood, 1969). Each stream sediment sample was analysed for Cu, Pb, Zn and Sn (DRG No. K555-35). No anomalous tin values were observed although two separate anomalous areas (with associated Cu/Pb/Zn) were noted:-

.. Anomaly 1 - in the northeast of the area immediately south of the South Comet mine zone. This was a dominantly Pb anomaly.

.. Anomaly 2 - in the southeast, to the south of Howards Road about 3 km east of the Murchison Highway was a dominantly Cu anomaly.

The weak and scattered nature of Anomaly 2 resulted in the southeast corner of the Licence being resampled. Analyses of this stream sediment resampling (Figure 39) showed unrepeatable weak and localised Cu, Pb and Zn anomalies. McIntyre Mines initiated no further work on this area (Bates, 1972).

The strong Anomaly 1 area was covered with a grid soil geochemistry (Cu, Pb, Zn) sampling, magnetics, Gun EM (Figure 10), I.P. (Figure 41) and S.P. programmes (Pollock, 1970 and Darling, 1971). The soil geochemistry showed a significant Pb anomaly (to 600 ppm Pb) extending about 400 feet along strike (north-south) in the north-eastern part of the grid (Figure 42). This was paralleled by a slightly offset magnetic anomaly. Field examination of the anomalous zone showed the geochemical and magnetic fluctuations were related to a narrow zone of thin Pb-rich veins.

The S.P. survey showed no anomalies. However, it is doubted whether the S.P. technique worked as there were no anomalies indicated over the known deposits at the Mariposa Mine (2,600 x 1,800 feet grid) during a simultaneous S.P. survey (Omnes, 1971).

Further work on the Mariposa grid was a soil geochemistry programme which confirmed the Cu/Pb/Zn anomaly

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in the vicinity of, and to the south of, the mine (Figure 43). The southern anomaly extension was traversed with I.P. Results (Figure 44) showed a strong anomaly extending south from the mine area. This was tested by four drill holes which intersected only minor mineralisation (Figure 45).

SPL 46 was allowed to expire on 30th April 1972 after McIntyre re-evaluated the area and concluded there was no economic potential (Bates, 1972). Both Anomaly 1 and the Mariposa area showed only small tonnage low grade deposits.

The area of SPL 46 was repegged as SPL 113 by Texins (Geophoto Resources Consultants). This was later incorporated in Geophoto's E.L. 7/68.

5.2.12 Geophoto Resources Consultants (E.L. 7/68 incorporating SPL's 113 and 89)

E.L. 7/68 covered most of E.L. 15/76 south of the Razorback mine. The only part of E.L. 15/76 not held by Geophoto was the western edge (west of the Mariposa Mine) and the northwestern corner (Cuni area). E.L. 7/68 also included the area to the northeast of Mt. Dundas held by E.Z. Co. as SPL 132 and subsequently included into EL 1/62 (Figure 46).

Geophoto considered E.L. 7/68 in three major zones :-

(a) Amber Creek - the southern area initially held as SPL 89 by Geophoto;
(b) McIntyre - the central area held by McIntyre Mines as SPL 46 and then as SPL 113 by Geophoto.
(c) Dundas - the area of E.L. 7/68 north of the South Comet mine.

(a) **Amber Creek.**

The buttongrass swamp covered Gordon Limestone is the dominant rock type in this area. It was traversed

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with VLF-EM, magnetics and soil geochemistry (samples from shallow depths analysed for Cu, Pb, Zn, Co, Ni and Ag) along 14,000 feet of surveyed grid lines. A pit orientation survey (Discala, 1972) showed the 3 feet sample depth gave the best geochemical responses. The entire area of E.L. 7/68 was also traversed with Turair EM (Howland Rose, 1973; Figures 47, 48, 49 and 50).

Several VLF-EM anomalies, 2 low contrast lead (Appendix V) anomalies (not associated with the VLF-EM anomalies) and 2 Turair EM anomalies (Nos. 21 and 26) were located (DRG No. K555-32). The area of these geochemical and geophysical anomalies were then geochemically resampled at 50 ft. depths using a selective down-hole sampler on an air-trax type drilling rig to obtain weathered bedrock samples (Discala, 1973). The analyses of these samples (Appendix VI) showed several Cu/Pb/Zn anomalies.

Follow-up grain size distribution and chemistry (Johnston, 1974) suggested the coincident deep-seated Cu/Pb/Zn anomalies were related to alluvial outwash fans rather than in-situ anomalies related to the Gordon Limestone.

No further work was considered warranted in a review (Johnston, 1974). The area was relinquished in 1974 before being re-pegged by CSR as E.L. 15/76 in 1976.

(b) **McIntyre.**

Geophoto pegged SPL 113 (McIntyre) in order to study the intersection of the Montezuma fault with an air photograph interpreted extension of the South Comet/Kosminsky fracture (Johnston, 1973).

This fault/fracture intersection (adjacent to the McIntyre Anomaly 1 grid) was gridded (Geophoto Grid) and traversed with rock and soil (Figure 51) geochemistry

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(Cu, Ni, Co, Pb, Zn and Ag), VLF-EM (Figure 52) and geological mapping. The VLF-EM survey was also extended to cover the Anomaly 1 grid.

The regional Turair EM survey (Figure 48) showed two primary anomalies (7 and 8) within the Geophoto Grid area. These anomalies showed no supporting VLF-EM or soil geochemistry anomalies (Figure 52). The soil geochemistry (Appendix VII) defined a very broad lead anomaly along the Comet-Kosminsky fracture and parallel to the lithology. However, the strongest geochemical anomaly was in the northeast of the McIntyre Anomaly 1 Grid. Mapping of a costean across the peak of this anomaly showed a series of small mineralised veins caused the anomaly.

A review of the above work (Johnston, 1973) concluded the Geophoto/Anomaly 1 grids area contained no possibility for economic mineralisation. No further work was completed on these grids.

Three other primary Turair EM anomalies (32A, B and C) occurred within the McIntyre area. A grid was cut (Howards Grid) over these anomalies and traversed with EM and soil geochemistry for Cu, Pb, Zn and Ni (Appendix VIII). No significant geochemical anomaly (Figure 54) was observed.

The review of this work (Johnston, 1973) concluded the McIntyre area contained no economic mineralisation. Geophoto relinquished the area in 1974 with no further work being initiated. The area was vacant until it was repegged by CSR as E.L. 15/76.

(c) **Dundas.** The Dundas area was obtained by Geophoto (along with the Heemskirk area to the west of Zeehan) in 1968 as E.L. 7/68. Geophoto's interest in this area was the presence of significant lead/zinc/

silver mineralisation along the Comet-Kominsky line of mines.

For exploration purposes the area was subdivided into three zones :-

(i) West Dundas - the area west of the Dundas mine. During reconnaissance mapping (Rattigan 1969) of this area all old mine dumps, gossan zones and sulphide zones were rock-chip sampled (Figure 55). The samples were analysed for Pb, Zn and Ag (Appendix IX) with one Ag anomaly being delineated. This anomaly was gridded (Silver Grid, Figure 56) and traversed with soil geochemistry analysed for Ag, Pb and Zn. All mine dumps, gossan and sulphides were also sampled and analysed.

This work (Appendix X) showed the Ag anomaly reflected cerargyrite and secondary silver minerals associated with Fe-Mn gossans. These narrow discontinuous gossans were inferred to be southern extensions of minor mineralisation trends in the Red Lead grid area. Large tonnages of Ag-rich gossans near surface were discounted (Discala, 1974).

No further work was initiated in the West Dundas area before Geophoto relinquished it in 1974 or prior to CSR repegging it as part of E.L. 15/76.

(ii) Northeast Dundas - north and east of Mt. Dundas. Reconnaissance mapping of the area with associated stream sediment sampling, selective rock chip sampling and a routine regional Turair EM survey failed to give any indication of mineralisation. No further work was thus undertaken.

Most of this area was to the east of E.L. 15/76.

(iii) Central Dundas - between Mt. Dundas and the Adelaide Mine. This was the area of concentrated Geophoto

exploration. Within this area all work except the investigations of the North and South Montezuma grids was around the Comet-Kosminsky-Maestri mineralised zone (Figure 57).

The Montezuma area was gridded, mapped in detail and traversed with VLF-EM and soil geochemistry (Appendix XI, Turner, 1971). All mine dumps, sulphide and/or gossan zones and rock outcrops were selectively rock-chip sampled. All soil and rock chip samples were analysed for Cu, Pb, Zn, Ag and Ni with some being analysed for Co, As, Sb and Sn. Several significant Cu/Pb/Zn/Ag anomalies adjacent to the Montezuma Fault zone and several other separate minor Sb/Ag anomalies were defined (DRG No. K555-36). In the north of the grid several north-westerly trending VLF-EM anomalies (DRG No. K555-37) were outlined (Turner, 1971).

These anomalies were tested by a programme of 6 diamond drill holes. MzN1 and MzN3 tested VLF-EM anomalies; MzN2 tested a larger quartz/limonite gossan-ouse zone; MzN4, MzN5 and MzN6 tested VLF-EM anomalies associated with the mineralisation in the Montezuma Adit Nos. 5 and 6. Only minor mineralisation was intersected in any of these holes (Appendix XII).

Geophoto concluded (Discala, 1974) that the previously mined high grade tetrahedrite lodes and the jamesonite/pyrite veins in the Montezuma area were narrow and discontinuous both along strike and down dip. Also there was considered to be no evidence for the existence of massive tin-rich pyrite/pyrrhotite ore-bodies. Rather the anomalous tin geochemistry represented disseminated cassiterite in pyrite veins intruding black shales.

No further work was initiated by Geophoto in the Montezuma area.

Initial investigation of the Dundas area by Geophoto was an examination and sampling of all known workings and dumps (Rattigan, 1968). This investigation showed many of the Dundas lead/zinc deposits had significant silver contents. Further work was initiated on seven prospect areas :-

.. West Comet - Hassett Gravel Pit, Razorback, West Comet, Platt and Bonanza Grids
.. Comet - North Comet and Comet-Kosminsky Grids
.. Kosminsky-South Comet - Comet-Kosminsky, East South Comet, East South Comet, Mariposa and Mt. Dundas Grids
.. Kosminsky Hill West - part of Comet and Platt Grids
.. Kosminsky Hill East - Ainslie and part of Comet-Kosminsky Grids
.. Adelaide - Adelaide and Red Lead Grids
.. Carbine - Carbine East and Carbine West Grids.

West Comet Prospect. Targets in the West Comet prospect were West Comet type lead/zinc lodes and nickel/chromium mineralisation within serpentinite (Rattigan & Paterson, 1969). Detailed geology over 118,300 feet of grid lines was compiled. Soil and rock sampling was completed as follows :-

(a) Hassett Gravel Pit grid - 728 soil samples were analysed for Cu, Pb, Zn, Ni, Co, Ag and Cr and of these 443 were analysed for Pt (Appendix XIII).
(b) Razorback Grid - 309 samples from lines 6N, 8N, 10N and 12N were analysed for Cu, Pb, Zn, Ni and Ag (Appendix XIV).
(c) West Comet Grid - 317 rock and soil samples from a traverse between 6E/13.5S and 10W/8.0S were analysed for Cu, Pb, Zn, Ni, Co, Ag and Cr with some analysed for Pt, Sn and As.
150 rock and soil samples from a traverse between 2E/20.0S and 10W/13.45 were analysed for Cu, Pb, Zn, Ni, Co, Ag and Cr.
50 rock and soil samples from Broken Hill line

28S and 170 samples from line 00 (Figure 59) were analysed for Cu, Pb, Zn, Ni, Co, Ag and Cr. 230 soil samples from lines 4N, 8N and 10N were analysed for Cu, Pb, Zn, Ni, Co, Ag and Cr (Figures 60 and 61).

(d) Platt Grid - 192 soil samples from lines 2S and 4S were analysed for Pb, Zn, Ni, Ag, Cr and Sn (Appendix XV).

(e) Bonanza Grid - 400 rock and soil samples from lines KHW-4S and KHW-4N were analysed for Cu, Pb, Zn, Ni, Co, Ag and Cr (Figures 62 and 63).

Self-potential surveys were completed over the West Comet, Platt, Hassett Gravel Pit, Razorback and Bonanza grids. Magnetic and VLF-EM surveys, covered the West Comet prospect.

Anomalies in these geological, geochemical and geophysical surveys (DRG No. K555-37) resulted in the drilling of 7 diamond holes (WC1-7) in the West Comet grid and 1 hole (P1) in the Platt Grid (Figure 64, Appendix XVI). Drilling results were disappointing. A minor intersection of low grade mineralisation in one hole from each grid led to a low priority recommendation for possible further drilling. This was not initiated.

No further work was considered to be warranted on the West Comet Prospect.

Comet Prospect. The target in the Comet Prospect was lead/zinc lodes similar to the Comet mineralisation (Rattigan & Paterson, 1969). Detailed geology was completed over 32,800 feet of grid lines. Outcrop on these lines and at old dumps around North Comet were sampled (66 rock samples) and analysed for Cu, Pb, Zn, Ni, Co, Ag, Cr and Sn. A further 100 rock samples from the Comet-Kosminsky mine area were collected and analysed for Cu, Pb, Zn, Co, Ag, Sn and Mn. No soil samples were collected due to the significant zone of contamination around the old workings.

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Self-potential, magnetic and VLF-EM surveys were completed over all grids in this prospect (DRG No. K555-37). The results of the South Broken Hill I.P. survey were also studied and plotted.

Anomalies in these geological, geochemical and more particularly, geophysical surveys resulted in the drilling of two holes adjacent to the Comet mine (C1-2) and two holes in the North Comet Grid (NC1-2). The North Comet drilling was very disappointing with no significant mineralisation being intersected (Appendix XVII). Although the results of the Comet mine drilling were disappointing the loss of core in dolomitic (possibly mineralised) zones caused the drilling to be inconclusive (Figures 65 and 66). Further drilling to test the dolomitic horizons around the Comet mine was recommended.

No further work was considered warranted on the Comet Prospect.

Kosminsky-South Comet Prospect. The target in the Kosminsky-South Comet Prospect was a continuation and enlargement of the Kosminsky-South Comet lead/zinc mineralisation (Figure 67). This prospect was the area of Geophoto's initial and most concentrated interest during the term of E.L. 7/68 (Rattigan & Paterson, 1969).

Initial work comprised detailed mapping along 177,500 feet of grid lines during the collection of 190 soil samples from line 20S and 196 samples from line 26S of the Comet-Kosminsky grid. These were analysed for Cu, Pb, Zn, Ni, Co, Ag and Sn. Rock samples from old dumps and outcrops in the Comet-Kosminsky (80) and South Comet (200) areas were analysed for Cu, Pb, Zn, Ni, Co and Ag with selected samples analysed for Cr.

Later 36 soil samples from a traverse along the surface projection of DDH-SC2 were analysed for Cu,

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Pb, Zn, Ni, Co, Ag, Cr and Sn and 100 soil samples from South Comet lines 34S, 36S, 38S, 40S, 42S, 44S, 48S, 50S and 52S were analysed for Zn and Hg. This latter group were in preparation for a mercury sniffer survey of lines 40S, 44S and 50S in the East South Comet area. Only minor Hg was observed requiring no further investigations.

The South Comet mine was channel sampled at 5 feet intervals. 367 samples (342 from the adit and 25 from the cross-cut) were analysed for Pb and Zn with selected Ag and Cd analyses (Discala, 1974).

246 samples collected by S. Gatehouse (Honours thesis) from trenches and auger holes along lines from DDH-SC10 and DDH-KH7 were analysed for Cu, Pb, Zn, Ag, Fe and Mn.

Self-potential, magnetic and R.E.M. surveys were completed over the Comet-Kosminsky and South Comet grids. A VLF-EM survey was run over the Comet-Kosminsky South Comet, Mariposa East, Mt. Dundas and part of the East South Comet grids (DRG No. K555-37). Line 26S on the Comet-Kosminsky grid was traversed with a brief I.P. survey.

Anomalies in these geological, geochemical and geophysical surveys resulted in the drilling of 20 holes at South Comet (SC1-19 and SC21) and 23 holes at Kosminsky Hill (KH1-23). SC14 and SC15 were logged with down-hole I.P. and resistivity. Drilling results (Appendix XVIII) were promising although reducing reserves to only 45,800 short tons of 10% Zn or 13% combined Pb/Zn ore along the old known mineralised zone of the South Comet-Kosminsky mine.

Kosminsky Hill West Prospect. The target in the Kosminsky Hill West Prospect was the northwest trending inferred offset south branch of the West Comet lead/zinc mineralisation. This mineralisation was

300 m west of the Kosminsky-South Comet line. This prospect developed as a sub-project from the geochemical evaluation of the West Comet Prospect.

The geochemical and geophysical evaluation of the area (Figure 68) resulted in the drilling of eight holes. These showed (Thigpen, 1972) only minor erratic lead/zinc with Fe gossans related to serpentinites (Appendix XIX).

Kosminsky Hill East-Ainslie Prospect. The target in the Kosminsky Hill East-Ainslie prospect was a series of lead/zinc anomalies to the east of the Kosminsky-South Comet zone and inferred to be the offset south extension of the Comet zone. This prospect developed as a sub-project from the geological, geochemical and geophysical evaluation of the Kosminsky-South Comet prospect.

79,290 feet of extension gridding (Ainslie) was mapped with 615 soil samples being taken from lines 2S, 4S, 6S, 12S, 14S, 16S, 22S, 24S and 28S. These were analysed for Cu, Pb, Zn, Ni and Ag (Appendix XX) while 40 gossan samples were analysed for Cu, Pn, Zn, Ni, Co, Ag, Mo, Cd and selectively for Sb.

The earlier VLF-EM survey was extended over the Ainslie grid.

Evaluation of the geological, geochemical and geophysical surveys resulted in the drilling of 7 holes on Kosminsky Hill East (DDH KHE1-7) and 1 hole in the Ainslie grid (DDH-A1). These holes were inconclusive but tended to favour further investigation (Appendix XXI).

No further work was completed due to the overall small tonnages of ore in the whole Licence area.

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Adelaide Prospect. Extensions of the north-northwest trending Adelaide mine lodes were the targets in the Adelaide Prospect. These were marked by jasper-limonite gossans at surface.

During preliminary mapping (no detailed mapping) of 67,000 feet of grids, 126 rock samples were collected from the Red Lead area. These were analysed for Cu, Pb, Zn, Ni, Co and Si.

Self-potential, magnetic and VLF-EM were extended over the prospect. Minor VLF-EM anomalies were followed-up by extending the Adelaide grid to the north. Results were discouraging (Discala, 1972).

Carbine Prospect. The target in the Carbine Prospect was a series of lead/zinc trends.

115,000 feet of grids were mapped in detail while an orientation soil sampling survey of 48 samples was being conducted. These soil samples were sized and analysed for Cu, Pb, Zn, Ni, Co and Ag. 1,816 soil samples and 71 rock samples of dumps and outcrops were then obtained from the Carbine East and West grids. All were analysed for Cu, Pb, Zn, Ni, Co and Ag.

Anomalous lead and zinc values were observed in the west of the grid (DRG No. K555-38).

Magnetic and VLF-EM surveys were completed (DRG No. K555-37).

A VLF-EM anomaly on line 52N and 13W and the geochemical anomaly on line 46N at 13-17W were tested by two diamond drill holes (CW1-2). Results were disappointing with no significant mineralisation intersected (Appendix XXII).

Geophoto Resources Consultants concluded that the area covered by E.L. 7/68 contained only the

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Kosminsky-South Comet zone of mineralisation. Extractable ore was only 45,800 short tons of 10% Zn or 13% combined Pb/Zn. The Licence was allowed to expire.

5.2.13 Renison Ltd./Mt. Lyell [CGFA], (SPL 20)

Renison and Mt. Lyell (as CGFA) pegged the area to the north of Geophoto's Montezuma grid (BE E.L. 15/76) in August 1966 as SPL 20 (Figure 69). The area was gridded, mapped and traversed with magnetics and deep soil geochemistry for Cu, Pb, Zn, Ag, Sn, Ni, As and Sb (Elders, 1969, and Forsythe, 1968 & 1969).

Ten magnetic (Figure 70) and/or tin (Figure 71) anomalies were defined as well as several weaker lead/silver anomalies (Figure 72). The largest and strongest tin anomaly (Anomaly A) had coincident Cu and As anomalies and a high magnetic response (Figure 73). This area was resampled (soil) in much finer detail (Figures 74 and 75) prior to being trenched, mapped in detail and rock-chip sampled. Tin values up to 1200 ppm Sn were obtained in zones of sulphide-rich joints adjacent to a mineralised shear (Figure 76).

Infill grid lines were cut across possible extensions of the shear zone. These lines were mapped in detail and traversed with magnetics (Figure 77) and auger soil geochemistry for Cu, Pb, Zn, Sn and As (Figures 78, 79 and 80).

A 9-12 cm thick vein of arsenopyrite, pyrrhotite, quartz and chalcopyrite was found paralleling the Frazer Mine ore lens (Ferguson, 1970). This mineralised shear extended from Line 3 to 1600N. A strongly mineralised extensive shear zone had no tin association. The tin mineralisation suggested was a weak disseminated type.

This work concluded that there was little possibility for the existence of an economic tin deposit

in the Licence. SPL 20 was allowed to expire in February 1971.

5.2.14 I.M. Tucker (SPL 99)

In November 1971 the area of SPL 20 was re-pegged by I.M. Tucker as SPL 99. Longreach Metals N.L. concentrated costeaning, mapping and sampling on CGFA's Anomaly A on Line 1.

The mapping showed the main structure to be a south-plunging syncline in the Brewary Junction Formation. High Sn values were related to dolomitic shales (Clare, 1972) with shears and faults controlling tin introduction. The highest tin value was a 3 m section of disseminated mineralisation averaging 0.33% Sn. Ten other 3 m sections contained +1,000 ppm Sn.

The Licence was forfeited in November 1972.

5.2.15 Minops (SPL 120 - II)

The area of SPL 20 and SPL 99 was repegged by Minops and included as part of SPL-120. Minops concentrated exploration around CGFA's Anomaly A.

Costeaning (Figure 81) and an I.P. survey (Figure 82) over the Anomaly A mineralised zone defined two drill targets (Layden, 1974). This drilling (Figure 83) was inconclusive due to core recovery problems. (Appendix XXIII). However, the area of greatest interest is a north-northwest trending shear zone containing tin in quartz veins.

This area (to the north of Frazer Mine) was repegged as a Mining Lease by Minops. The remainder of SPL 120 - II was relinquished to be repegged by CSR as part of E.L.15/76.

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5.2.16 Clutha (SPL 406)/R.P.J. Weedon (SPL 11)

The only other area of exploration within the present boundaries of E.L. 15/76 was the central northern zone around the Razorback mine. Clutha pegged this area as SPL 406 in June 1966 Figure 84). Although it is believed that Clutha completed a drilling programme in the 12 month period of the Licence, this has not been recorded.

The area of SPL 406 then passed to R.P.J. Weedon as SPL 11 for a period of 18 months. Most of the exploration was completed by Placer Exploration through a joint venture agreement.

Placer's main interests were the Razorback and Grand Prize mines. These mines were mapped and then drilled with generally disappointing results. Most of this work was confined to the area still held as an independent (although Joint Ventured to CRA) Mining Lease and is thus excluded from E.L. 15/76.

5.2.17 Renison Ltd. (SPL 27)

On relinquishment, the area of SPL 11 was repegged by Renison Ltd. as SPL 127.

Renison gridded the area and traversed the grid with geological mapping, magnetics, I.P., S.P. and soil geochemistry for Sn, Cu, Pb, Ni and As (Ferguson, 1970 and Webb, 1971). The following anomalies were identified :-

(a) A series of magnetic anomalies along the serpentinite contacts (Figure 85) were found to be caused by a concentration of magnetite adjacent to shears (Webb, 1971).

(b) A tin anomaly adjacent to the Razorback mine (Figure 86) was expected after a review of Placer's SPL 11 exploration.

(c) A series of coincident S.P. and I.P. anomalies (Figure 87) associated with high copper and nickel values (Figures 88 and 89) were drilled. This drilling showed these geochemical and geophysical anomalies were caused by the alteration of subhorizontal layers within the serpentinite bodies (Figures 90 and 91).

During this geochemical evaluation of the Licence some asbestos fibres were observed in parts of the serpentinite intrusion. Renison became interested in SPL 27 as an asbestos prospect. An initial asbestos investigation showed significant quantities of serpentinite containing asbestos (Newnham, 1971). A detailed study of the fibres showed that unless high quality fibres could be located there was little prospect of a viable asbestos industry in the Pine Hill/Razorback area (Newnham, 1972). CSR Limited had a pilot mill operating in the area in 1943-45.

In 1973 after attempting to locate high quality fibres Renison concluded no economic mineral deposit existed in the area south of the Grand Prize mine. The southern portion of SPL 27 (inside E.L. 15/76 present boundaries) was relinquished in 1973.

5.2.18 Minops (SPL 120- I)

The area of SPL 27 was repegged by Minops as part of SPL 120. The past work was reviewed briefly before the Licence was reduced then repegged as a Mining Lease. The retained area was the zone around the Razorback.

No exploratory work was completed and reported for the area of SPL 120 - I.

5.2.19 Minops (SPL 133)

The only other Licence within the boundaries of E.L. 15/76 was Minop's SPL 133 adjacent to the

southern boundary of SPL 120 - I (Figure 84). Again no exploration was reported on this Licence prior to the Licence being reduced in area and repegged as part of the Razorback Mine Mining Lease.

The only piece of valuable information reported was that Minops held at least some of Geophoto's diamond drill core.

5.3 CSR Limited

Initial work by CSR Limited in 1977-78 was a wide spaced drainage sampling programme (Macnamara, 1979). Over 600 active stream sediment samples were analysed for Sn, Cu, Pb, Zn, Bi, Ni, Co, Au, Cr and Ag with selected analyses for Mn, Mo, W, As and Fe (DRG No. K555-8 and K555-9). These analyses outlined seven main anomalous areas (Figure 92).

Area 1 in the northeast of the Licence showed strong anomalous tin (to 4,000 ppm) in some sediment samples and anomalous tin, tungsten and antimony in some heavy mineral concentrates (+10,000 ppm Sn, +10,000 ppm Sb, 2,000 ppm W).

Area 2 in the northwest of the Licence showed anomalous tin in the sediment samples. This tin may be derived from the Grand Prize mine area.

Area 3 in the central north of E.L. 15/76 showed anomalous lead (to 1,800 ppm) and zinc (to 450 ppm). Anomalous Sn-Sb-W values occurred in some heavy mineral samples from areas adjacent to the carbonate rocks of the Dundas Group. This area was investigated as the Carbine Prospect by Geophoto Resources Consultants.

Anomalous Ag and Sb in the panned concentrates defined Area 4. This area was to the south of Areas 1 and 3 and to the north of Geophoto's Dundas area.

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Area 5 adjacent to the Mining Leases over the Comet-Kosminsky line of mines showed anomalous Pb-Zn sediment and heavy concentrate samples. Geophoto had investigated this area thoroughly during their Dundas exploration.

Area 6 along a tributary of Climie Creek showed anomalous Sn (to 500 ppm), Sb (to 2,000 ppm) and W (to 200 ppm) in panned concentrate samples.

Area 7 covering the area of SPL 46 east of the Murchison Highway showed anomalous Sn (to 300 ppm), Sb (to 3,000 ppm), W (to 1,000 ppm), Ag (to 20 ppm) and Cr (+1,000 ppm). McIntyre Mines sediment sampled all streams in this area at 200 feet intervals. Analyses for Cu, Pb, Zn and Sn showed only minor weak Pb-Zn-Cu anomalies. Further work by McIntyre Mines in these anomalous areas failed to locate any significant mineralisation.

Further drainage sampling was completed by CSR in 1979 (Macnamara, 1980). The analyses of these samples for Sn, Cu, Zn, Pb, Bi, Ag, Au, Ni, Co and Cr and selected Mn, Mo, W, As and Fe showed anomalous Ag in the Cuni area (Area 2), Sn and Pb anomalies around the Razorback mine area and Au anomalies in the Howards Road (Area 7) area (Figure 93).

Drainage sampling of E.L. 15/76 was completed in 1981/82. Several tin and low order gold anomalies were defined. Most anomalies were either isolated samples or in areas of anomalous geochemistry defined in 1977-79. Analyses of these samples for base metals were not available at the time of writing but it is expected that these will confirm earlier work by other exploration companies.

Access problems during the attempted detailed evaluation of the Area 1 anomaly in 1978/79 resulted in only one of the CGFA lines being re-cleared, soil augered and traversed with magnetics (Frazer Grid). Soil geochemistry on this line (Line 13 of CGFA and Line 4493N of CSR) confirmed the CGFA tin and lead anomaly (Macnamara, 1979).

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This area has now been joint ventured to E.Z.I./ Getty.

Follow-up investigations of anomalous Area 2 (Macnamara, 1980) consisted of 16 lines (DRG No. K555-32) being traversed with magnetics, VLF-EM and about 1,850 auger soil samples (DRG No's. K555-28, K555-29 and K555-30). Several localised anomalous zones were defined :-

(a) Line 8221N between 6630 and 8900E had anomalous Cu (to 2,300 ppm), Zn (to 2,400 ppm), Pb (to 2,300 ppm), Ag (to 16 ppm), Ni (to 430 ppm) and Co (to 770 ppm).

(b) Lead Blocks area with anomalous Sn, Cu, Zn, Pb, Ag, Ni and Co. These anomalies were tested by diamond drilling (CG1-2) in 1980 (Macnamara, 1981). Only several small (less than 1 metre) zones of Pb/ Zn/Ag were intersected (DRG No. K555-24 and K555-26).

(c) The Nevada grid had several areas of anomalous Cu (to 670 ppm), Zn (to 2,800 ppm), Pb (to 1,240 ppm), Au (to 1,500 ppb), Ni (to 6,200 ppm), Co (to 560 ppm) and Cr (to 15.3%). These were associated with ultramafics along the Razorback Conglomerate/Hodge Slate contact.

Further grid soil geochemistry, magnetics and VLF-EM was completed on the Cuni, Nevada and Howards Road grids in 1981/82 (DRG No. K555-32). These geochemical results showed several anomalous zones most of which are in areas of intense previous investigations.

In 1978 four airborne input/magnetic test lines were flown over the Licence (DRG No. K555-32). Six magnetic or EM anomalies were located. Three of these on Line 1 SE over the Cuni area (MG 181.85, MH 183.45 and EM 183.15) related to stratigraphic or cultural features (Macnamara, 1981). These were examined during the Cuni soil sampling programme with negative results. MH 193.10 on line 3S and

MH208.20 on line 4NE were thought to represent gabbro/ dolerite dykes. The area of EM 196.69 on line 3SW in the Amber Creek area was investigated in detail by geophoto Resources Consultants with negative results.

The only other investigation of E.L. 15/76 to date by CSR was a Dighem survey in 1981/82. This located 35 initial anomalies. Examination of previous investigations of the areas of these anomalies resulted in only 5 anomalies requiring further investigation (Appendix XXIV).

The southwestern portion of the Licence (southwest of the Murchison Highway) has been joint ventured to Amoco Minerals Australia Ltd. Amoco are gridding all surface exposures of the Gordon Limestone and traversing these grids with auger soil geochemistry, magnetics and gravity.

6. CONCLUSIONS

A great quantity of exploration data is available for the area covered by, and adjacent to, E.L. 15/76. The results of this exploration have been summarised in this report. Details of all investigations are in easily retrievable form in reports held by the Tasmanian Department of Mines.

The surface evaluation of E.L. 15/76 has been completed with very discouraging results. Regional investigations have included EM, magnetic Agmag and Turair EM surveys. Some of these have been repeats of earlier surveys. Almost all anomalies defined by these regional surveys have been investigated with ground techniques. These include EM, S.P., magnetic, I.P., Gun EM, Turam EM gravity and soil, drainage and rock chip geochemistry.

These investigations (many repeats of older investigations) failed to give any indication of the presence of a near surface economic tin and/or base metal deposit. Further investigations should not be directed at locating near surface deposits.

A new exploration technique is required for further investigation of the area of E.L. 15/76. Such a technique could be an analysis of trends visible in past geological, geochemical and geophysical surveys to determine any concentration of trends. This would define areas of highest potential for further detailed investigation. Another technique is a trace element study of all available drill core and rock outcrop to determine the presence of any halo effects. These haloes may define deep-seated drill targets for economic tin deposits. These targets could be at depths to 1,000 metres.

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Prospect 602

930074

CSR LIMITED - MINERALS DIVISION
EXPLORATION GROUP

PAST EXPLORATION WITHIN THE AREA OF EXPLORATION LICENCE 15/76 DUNDAS - TASMANIA

VOLUME II - Figures EMR 188/82

HOBART
February 1983

P.D. ELLIS

930075

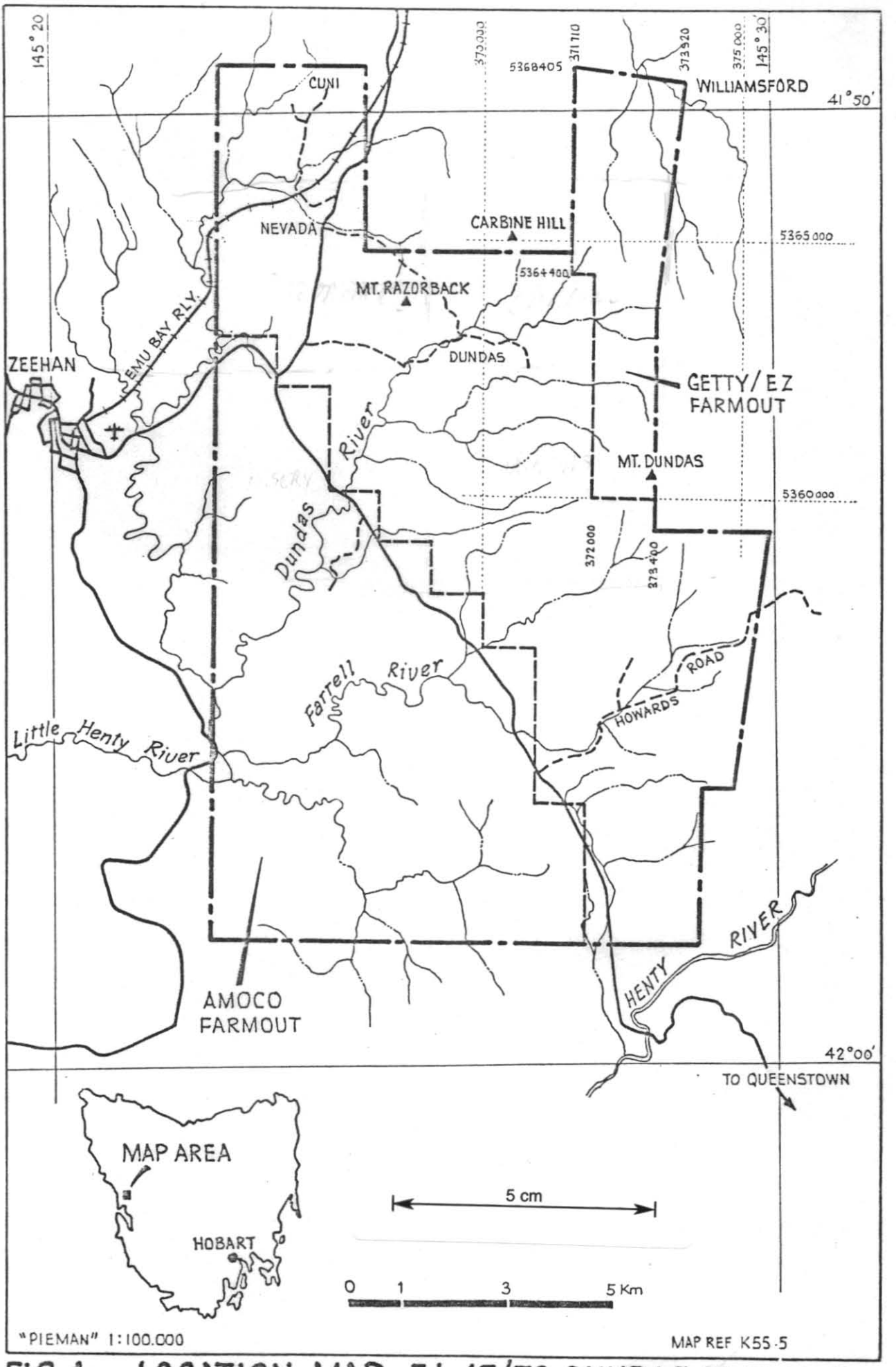
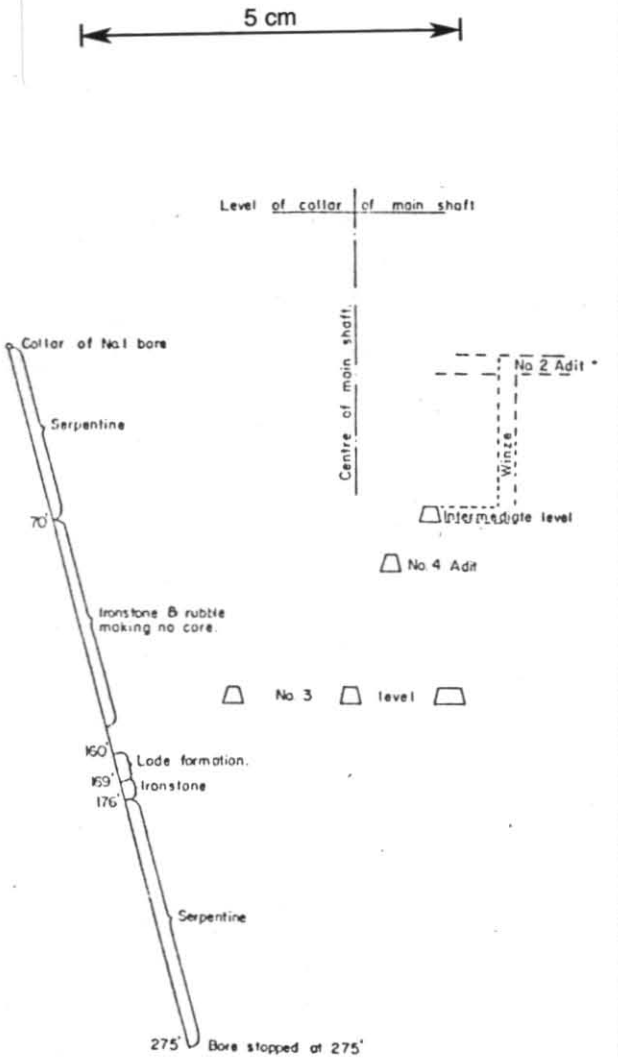
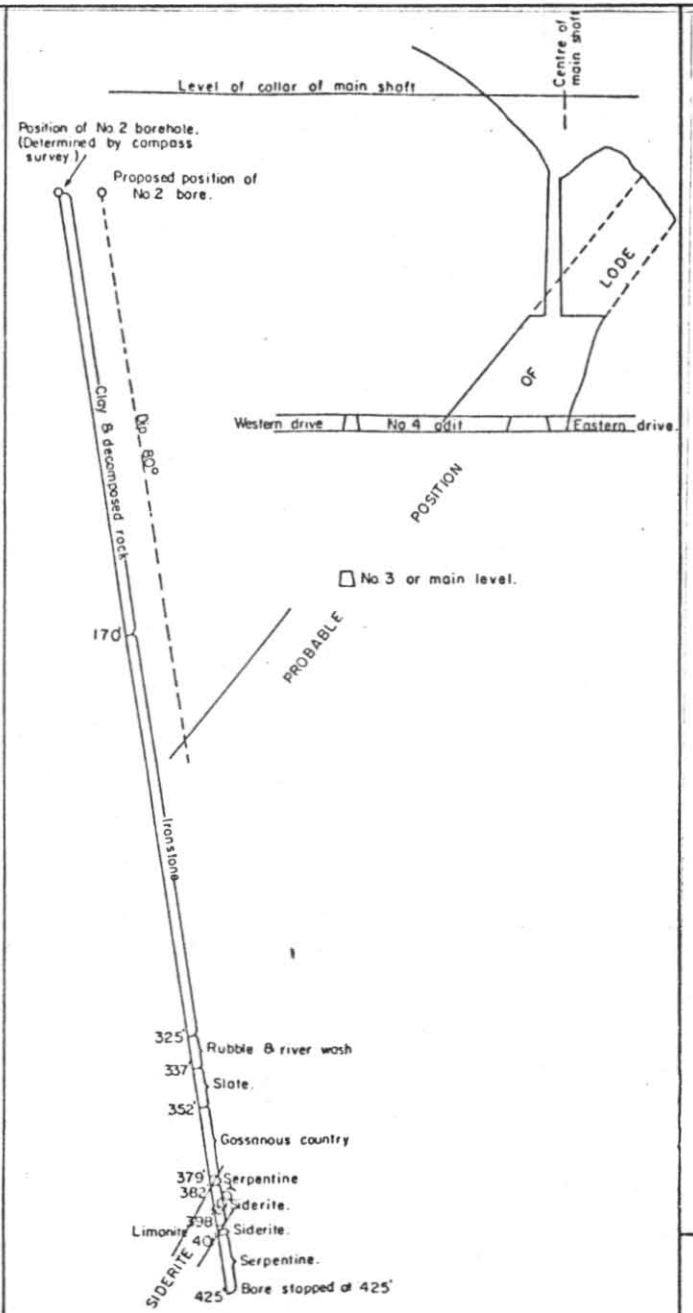


FIG. 1. LOCATION MAP E.L. 15/76 DUNDAS, TASMANIA

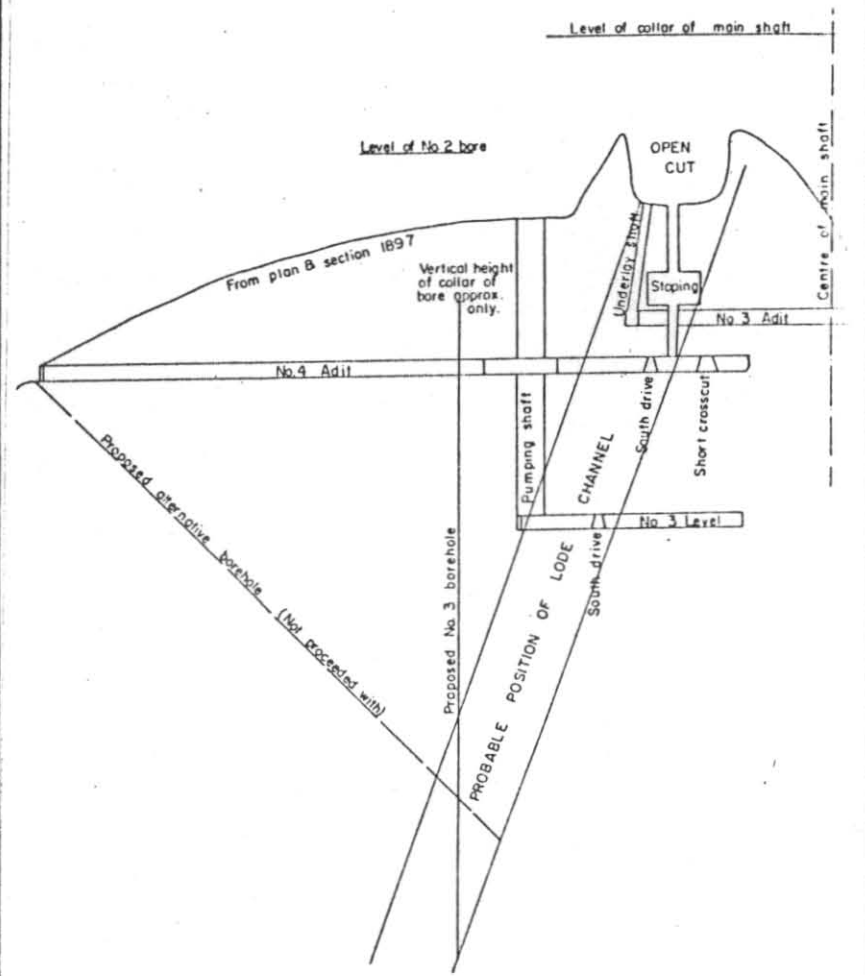
9306.C



ROSS SECTION IN VICINITY OF MINES DEPARTMENT No. 1 BORE



CROSS SECTION IN VICINITY OF. MINES DEPARTMENT No 2 BORE



MINES DEPARTMENT PROPOSED No.3 BORE

CROSS SECTION ON LINE N. 50° E.

THROUGH PUMPING SHAFT

FIG.2. MINES DEPT. 1930 DRILLING AT WEST COMET MINE (After Patterson 1970)

FOR LOCATIONS REFER Drg. No. K555-37

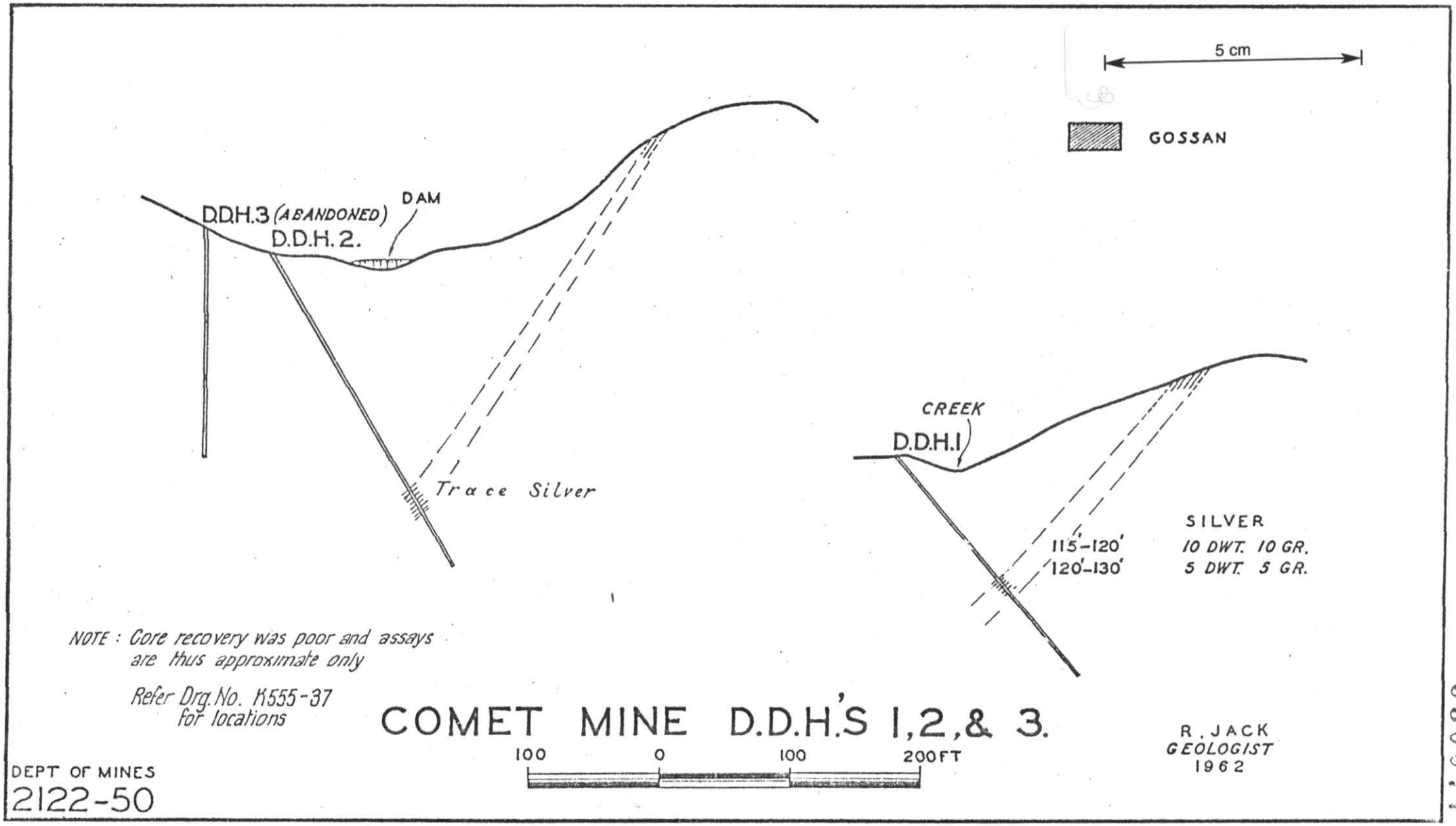
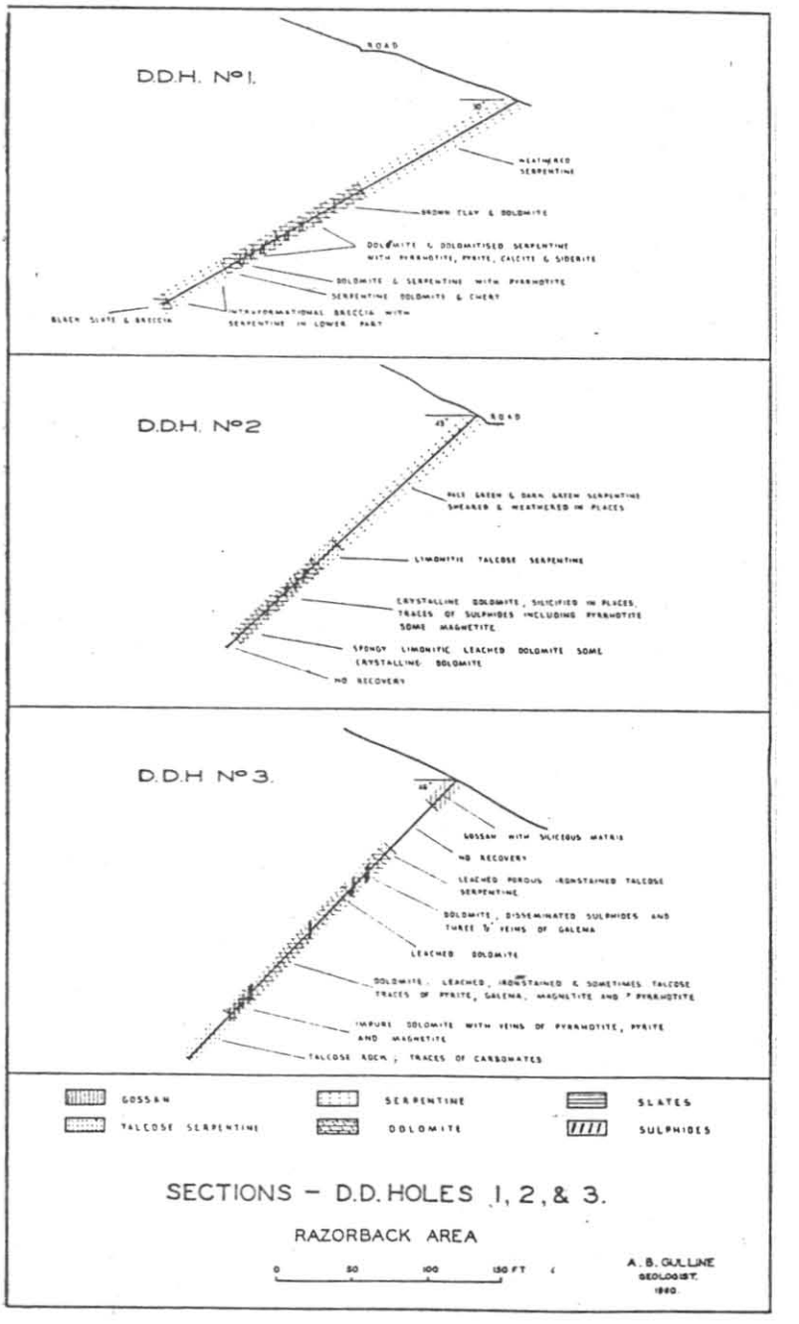


FIG.3. MINES DEPT. 1961 DRILLING AT THE COMET-MAESTRI MINE (After Mac.Leod.1962)

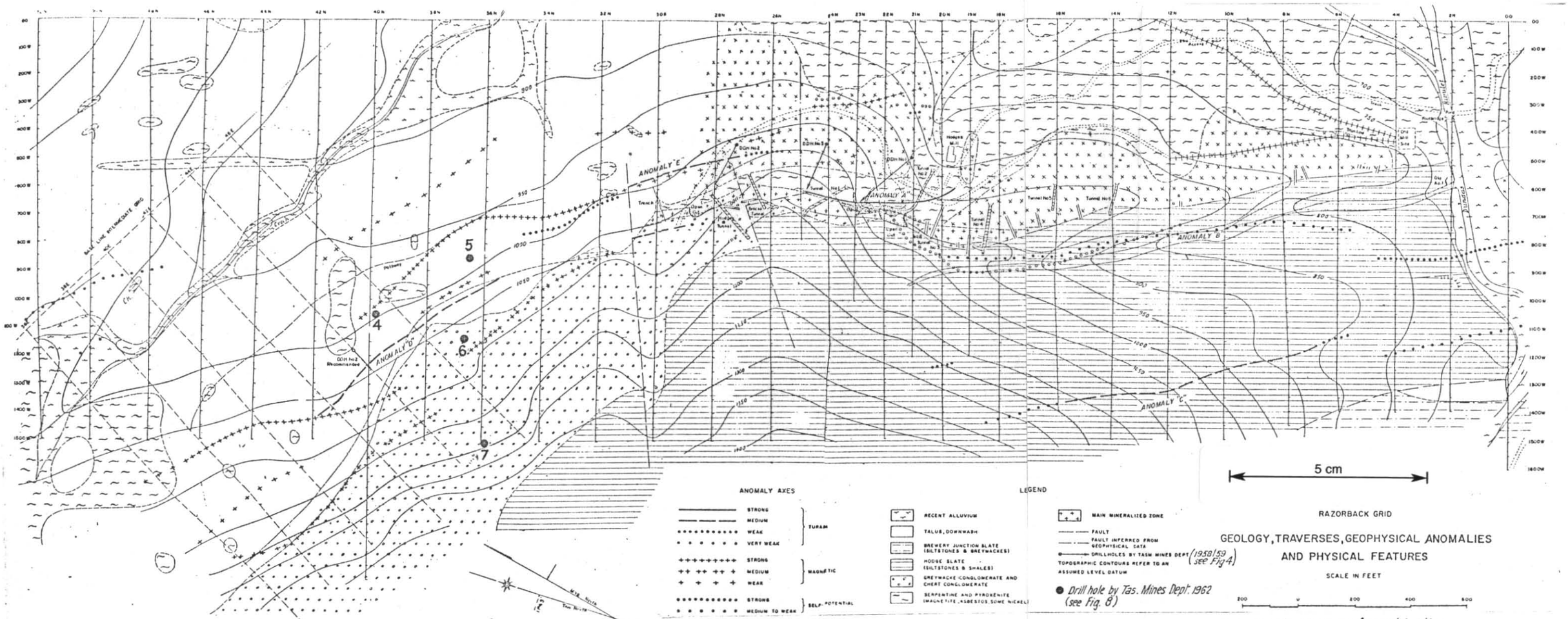


Refer Fig. 5 for drill hole locations

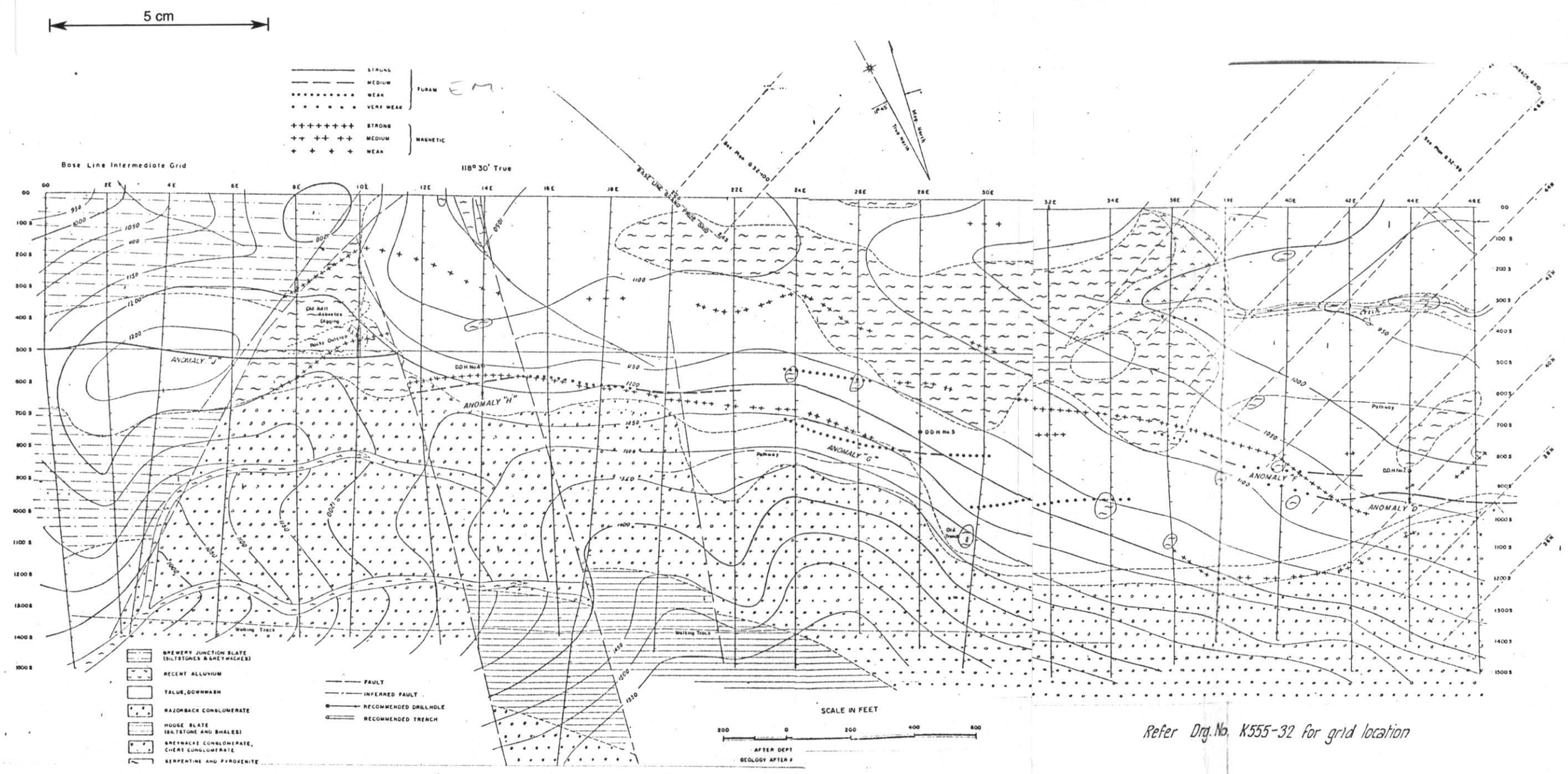
5 cm

FIG. 4. MINES DEPT. 1958/59 DRILLING AT RAZORBACK MINE (After Blissett & Gilline 1960)

930079


ANOMALY 'E'
ANOMALY 'A'
ANOMALY 'B'
ANOMALY 'C'
ANOMALY 'D'
BASE LINE INTERMEDIATE GRID
Trench
Tunnel No.1
Tunnel No.2
Tunnel No.3
Tunnel No.4
Tunnel No.5
Tunnel No.6
Upper Adit
Lower Adit
Hodges Mill
Railway
Road
Creek
DDH No.1
DDH No.2 Recommended
DDH No.3
DDH No.4
DDH No.5
DDH No.6
DDH No.7
DDH No.8
DDH No.9
DDH No.10
DDH No.11
DDH No.12
DDH No.13
DDH No.14
DDH No.15
DDH No.16
DDH No.17
DDH No.18
DDH No.19
DDH No.20
DDH No.21
DDH No.22
DDH

930080



Refer Drg. No. K555-32 for grid location

FIG. 6. GEOLOGY & GEOPHYSICAL ANOMALIES - INTERMEDIATE GRID (After Langron & Horvath 1962)

930081

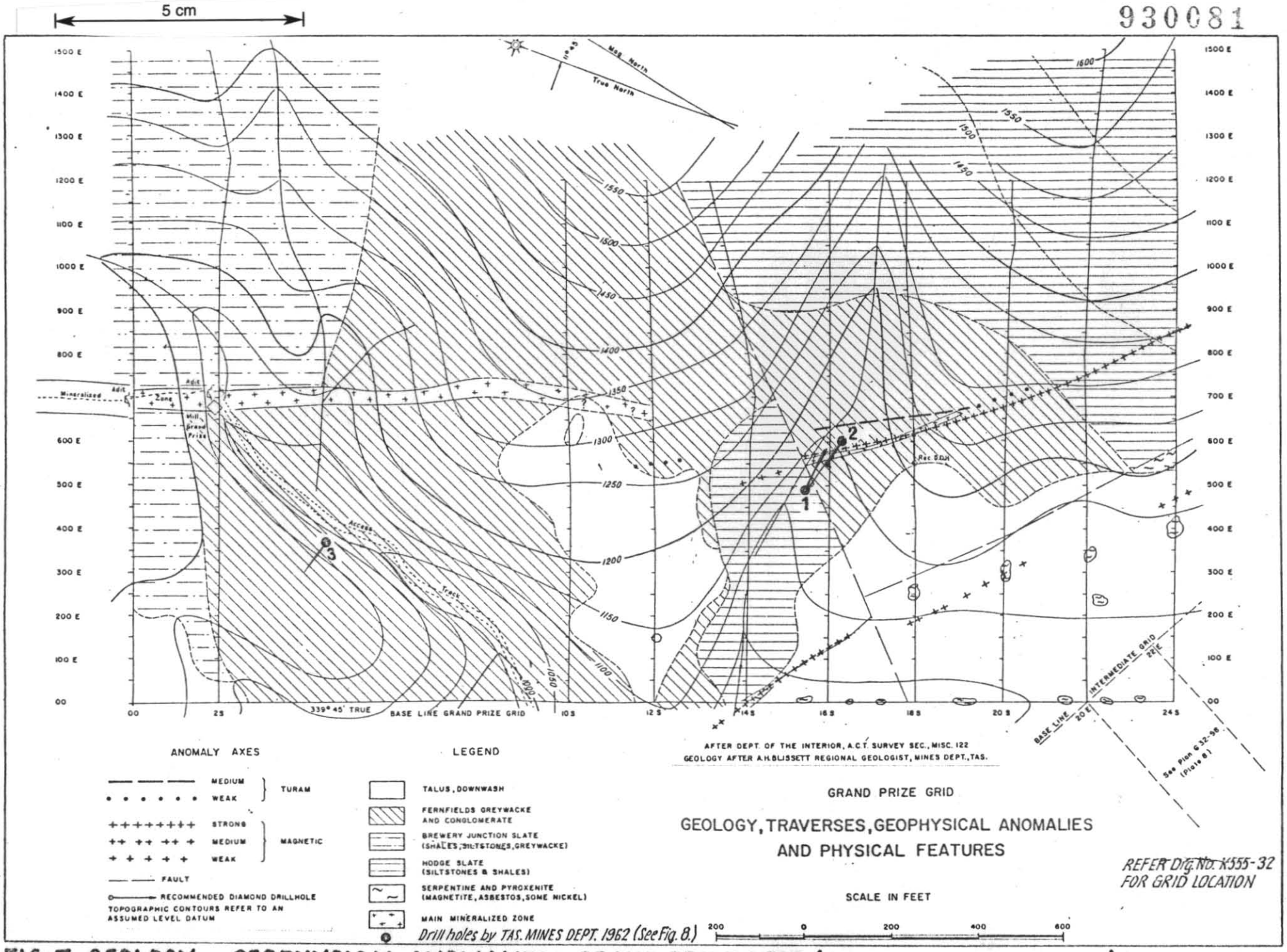
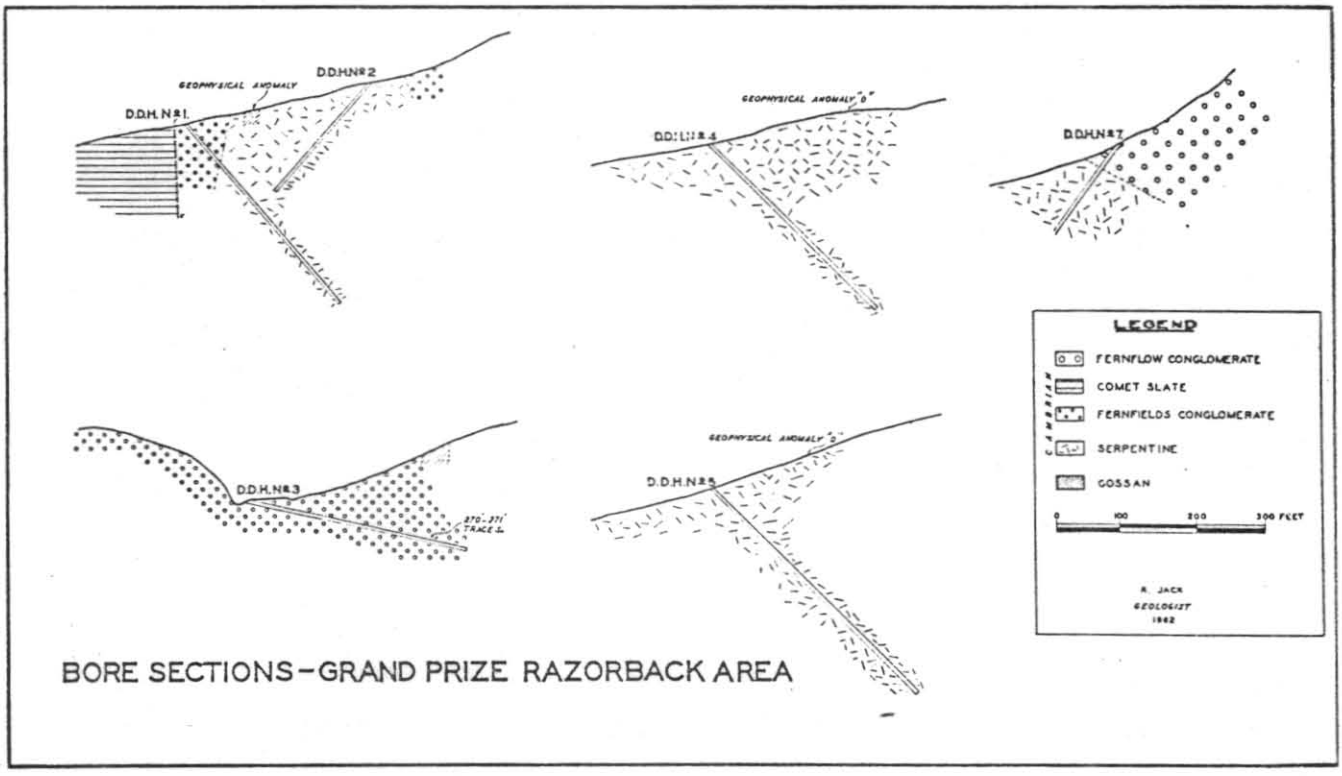


FIG. 7. GEOLOGY & GEOPHYSICAL ANOMALIES - GRAND PRIZE GRID (After Langron & Horvath 1962)

930082

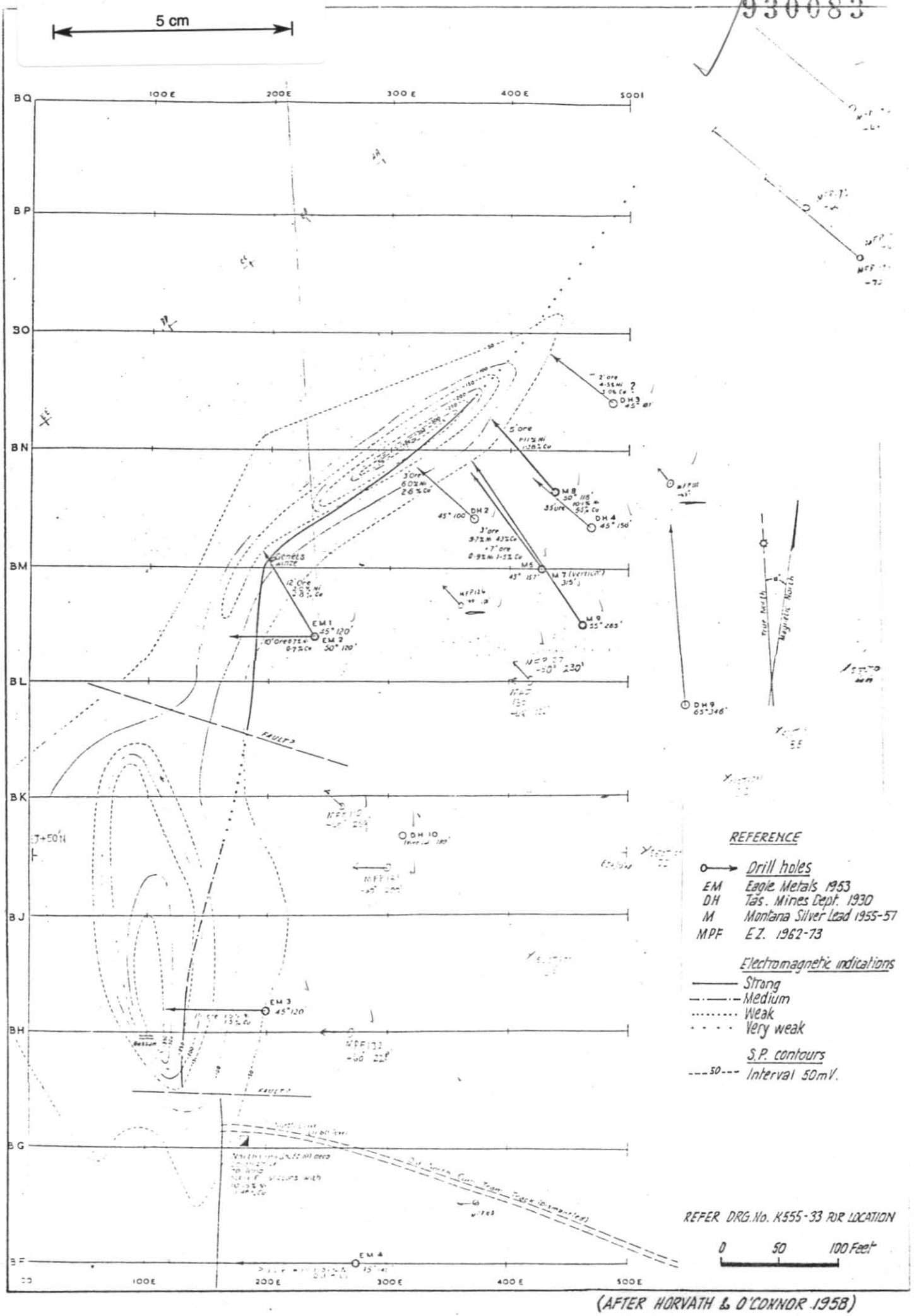


Refer Figs. 5 & 7 for drill hole locations

5 cm

FIG. 8. MINES DEPT. 1962 DRILLING AT RAZORBACK-GRAND PRIZE MINES (After Mac Leod & Jack, 1962)

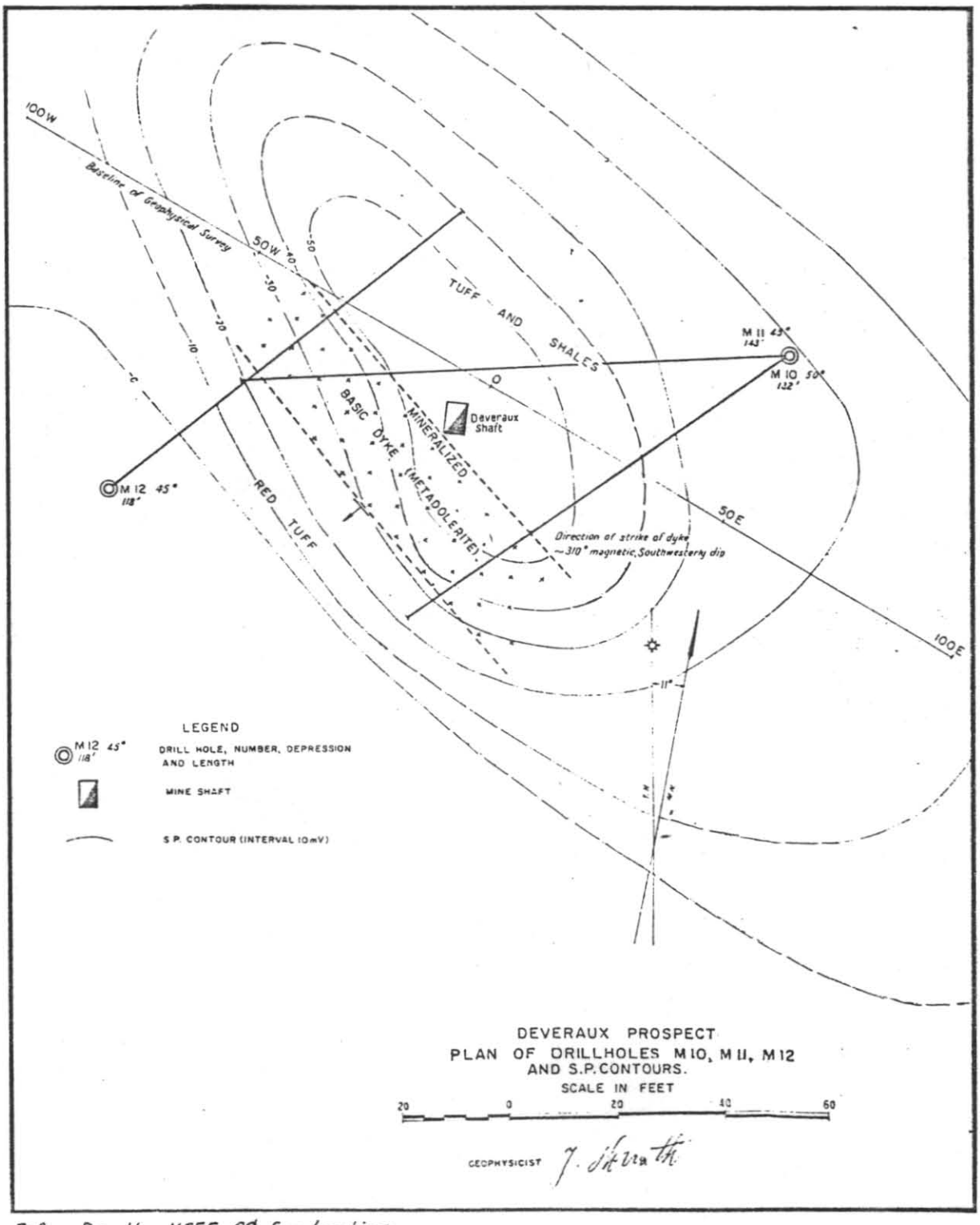
930083



(AFTER HORVATH & O'CONNOR 1958)

FIG.9. GEOPHYSICAL & DRILLING RESULTS - NORTH CUNI

930084



Refer Drg. No. K555-33/4 for location

5 cm

FIG. 10. DEVERAUX PROSPECT - DRILL HOLES & S.P. CONTOURS

930085

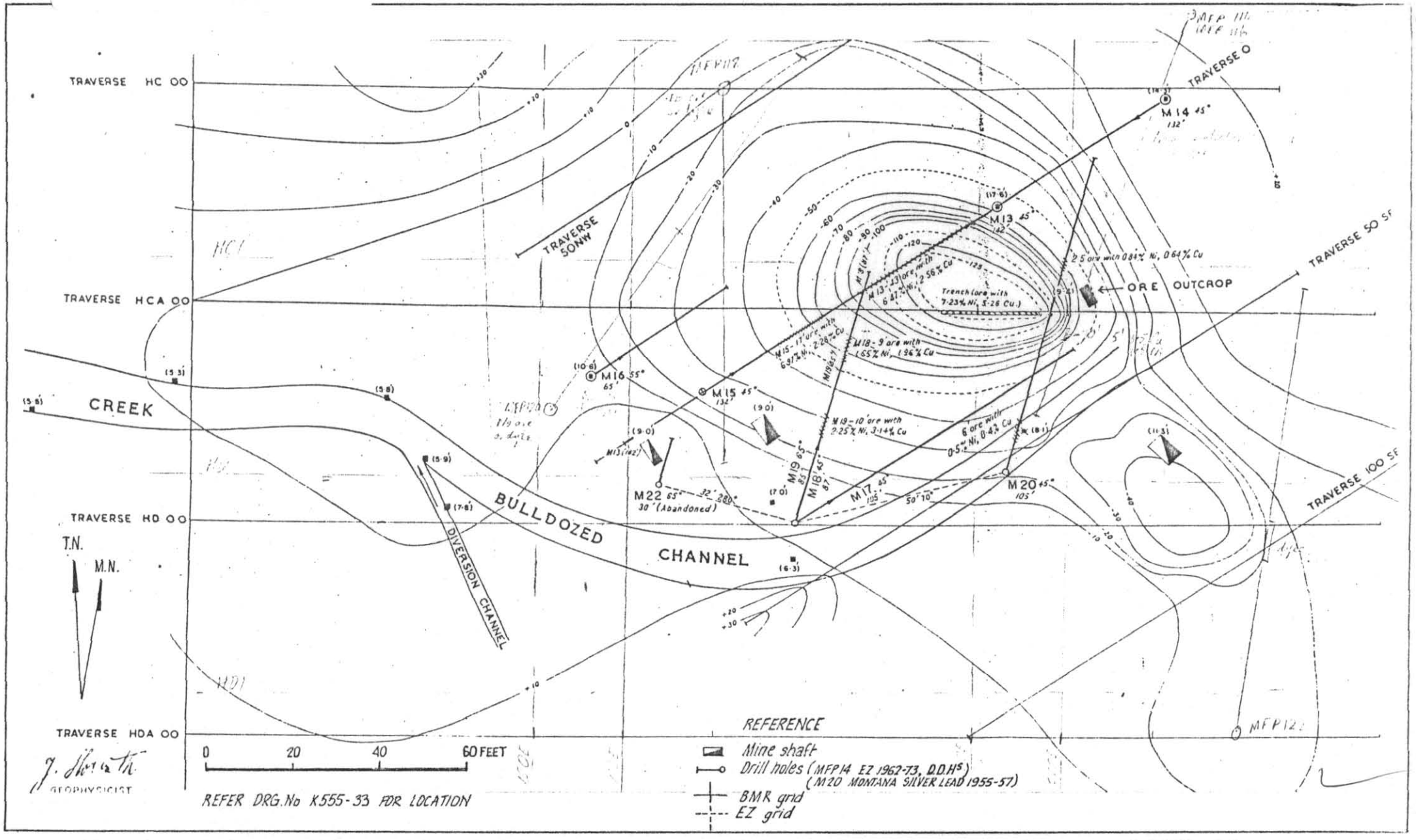
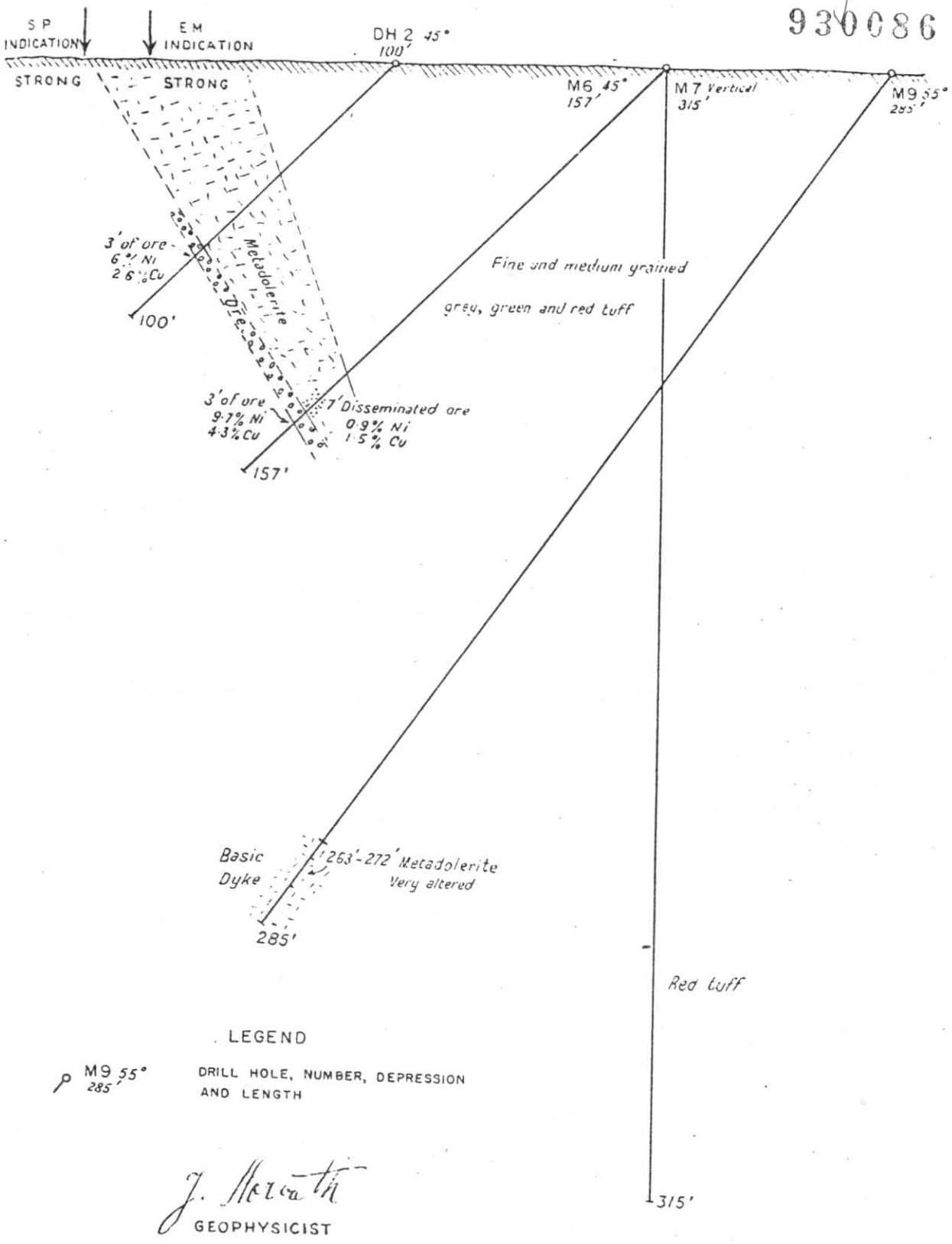


FIG. 11. NICKEL REWARD PROSPECT - DRILL HOLE LOCATIONS M13-22, DRILLING RESULTS & S.P. CONTOURS

930086



LEGEND

M9 55° 285' DRILL HOLE, NUMBER, DEPRESSION AND LENGTH

J. Heath
GEOPHYSICIST

Refer Fig. 9. for location

NORTH CUNI AREA

CROSS - SECTION THROUGH DRILLHOLES M6, M7, M9 AND DH2

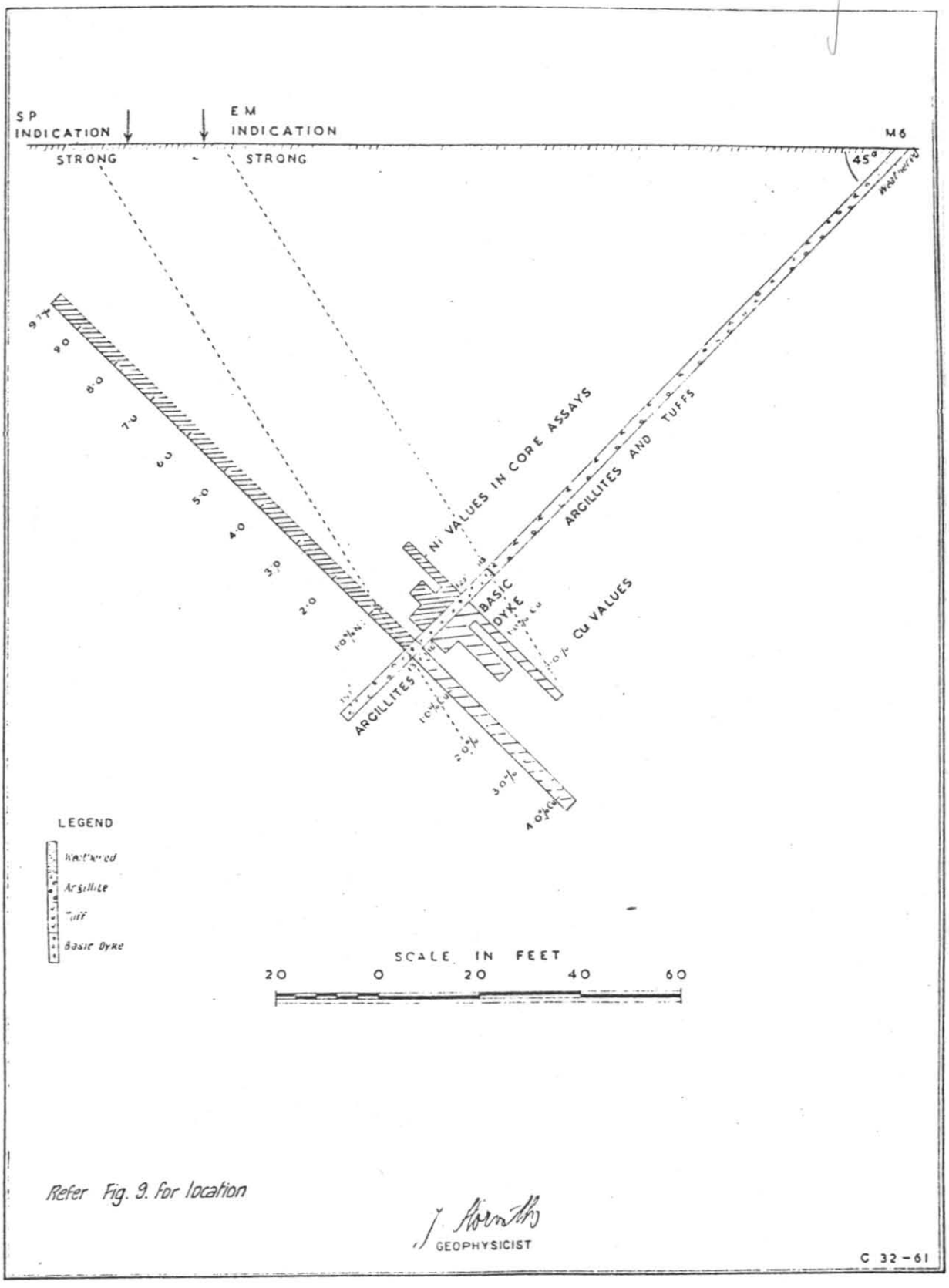
SCALE IN FEET

40 0 40 80 120

5 cm

FIG. 12.

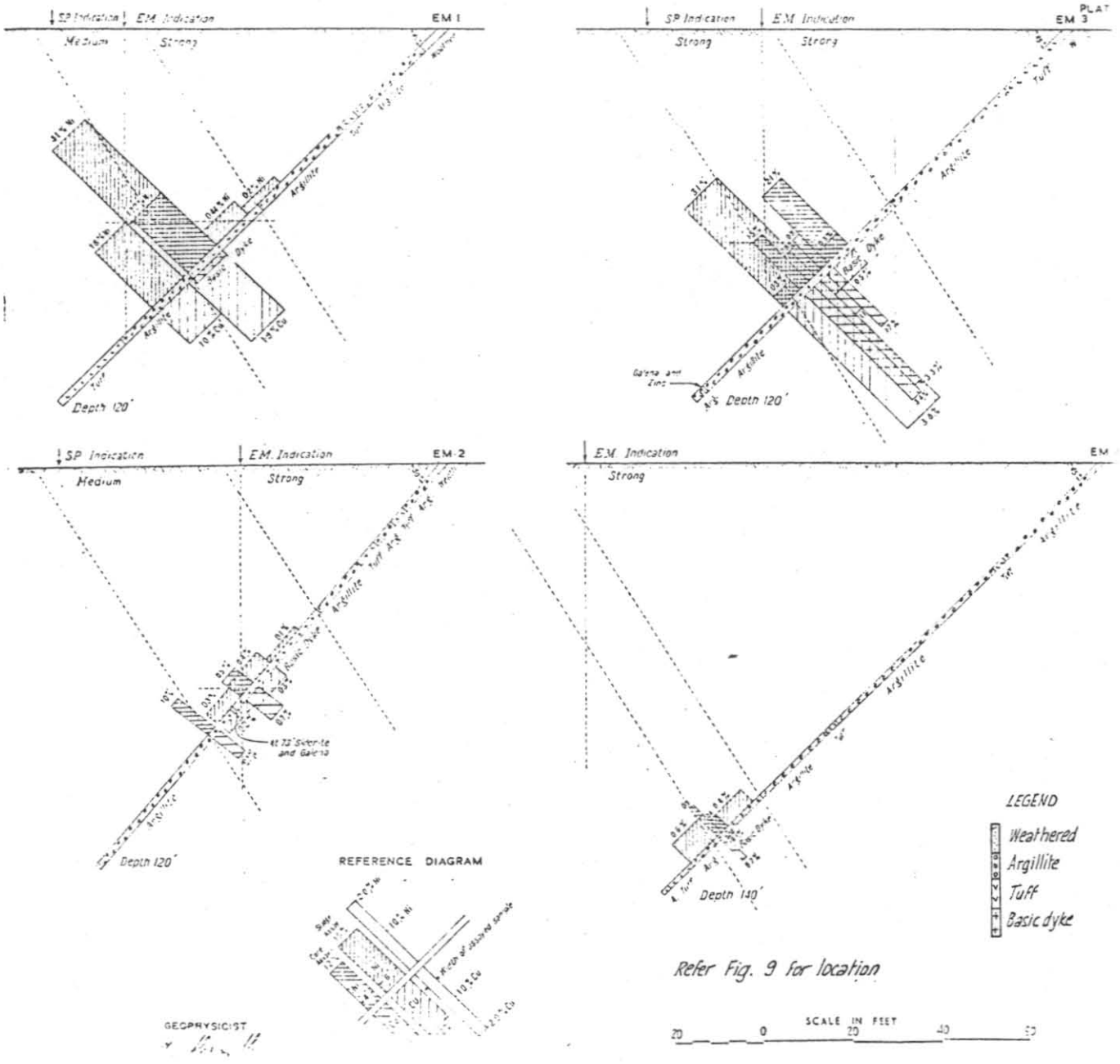
930087



5 cm

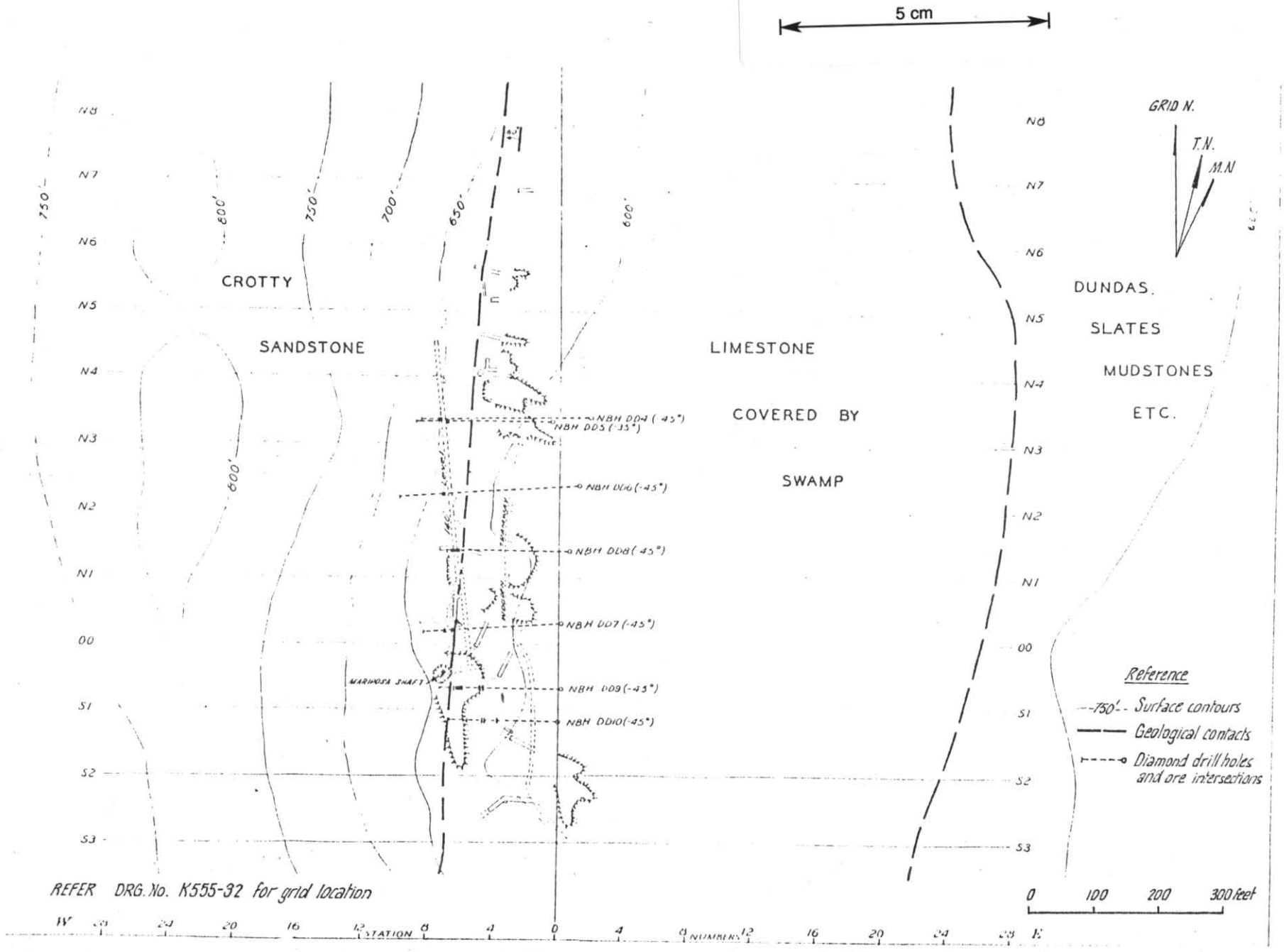
FIG. 13. NORTH CUNI AREA - CROSS SECTION THROUGH DRILL HOLE M6 SHOWING COPPER & NICKEL PROFILES

930088



5 cm

FIG. 14. NORTH CUNI AREA - CROSS SECTIONS THROUGH DRILL HOLES EM 1 - 4 SHOWING COPPER & NICKEL PROFILES



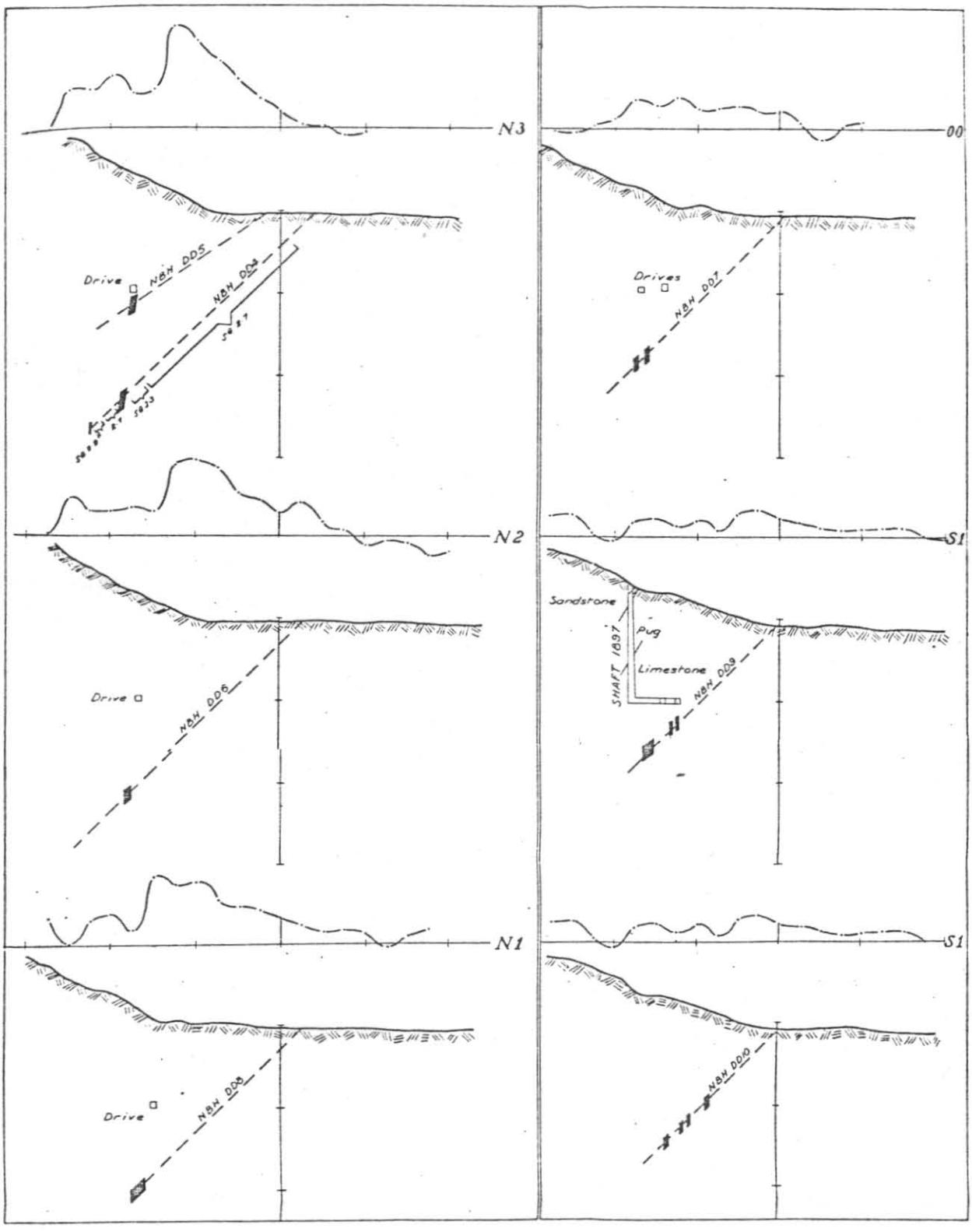
(AFTER LOK 1950)

FIG. 15. MARIPOSA AREA SURFACE PLAN, MINE WORKINGS & DIAMOND DRILLING

93089

930090

5 cm



LEGEND

Observed residual gravity anomaly

Surface

Drill hole with ore intersections

R. Okely Lok.
Geophysicist

Refer Fig. 15 for drill hole locations

MARIPOSA AREA

VERTICAL SECTIONS THROUGH DIAMOND DRILL HOLES

SHOWING
RELATIONS TO GRAVITY ANOMALIES.
(After Lok 1950)

SCALES

FIG. 16.

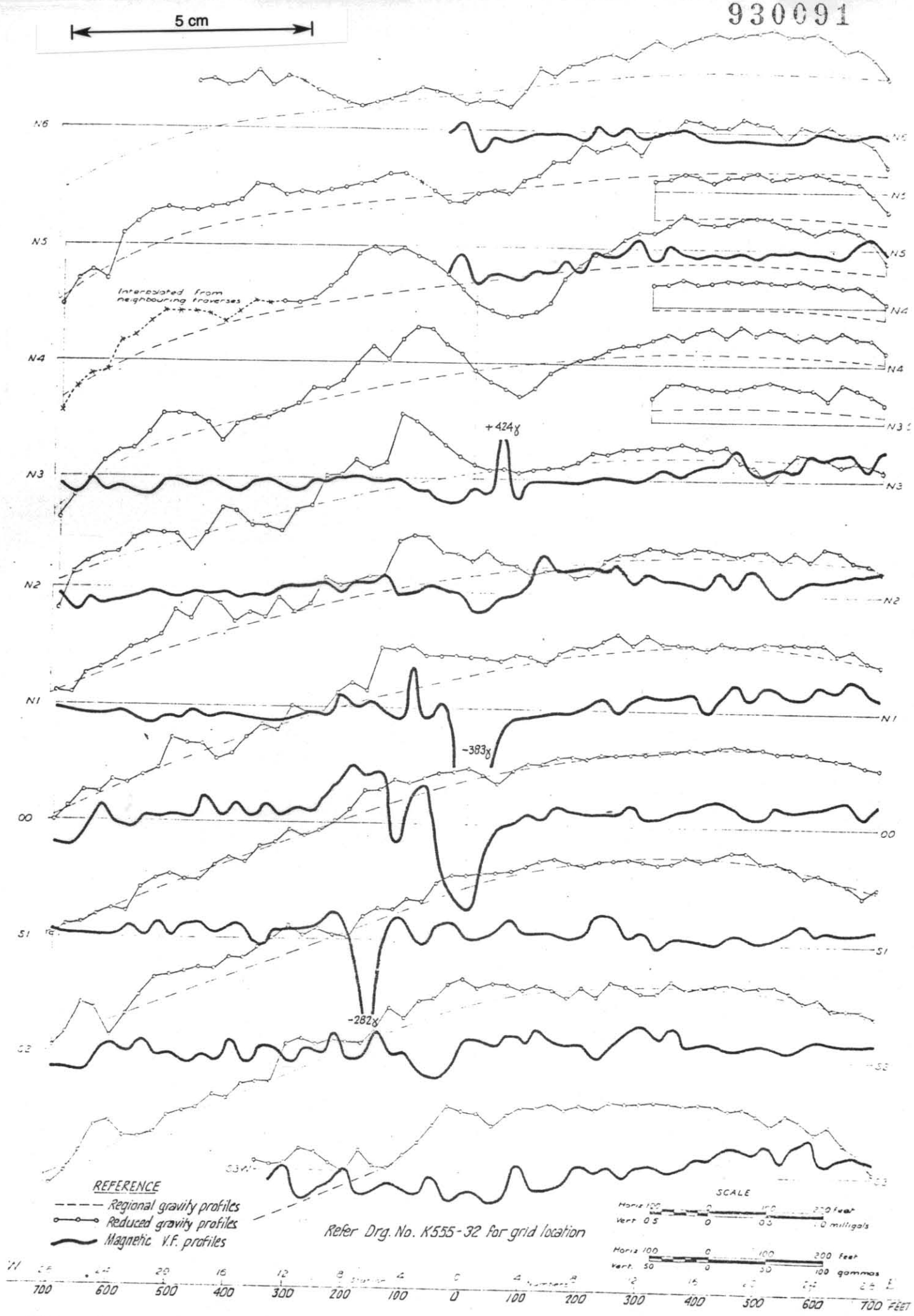
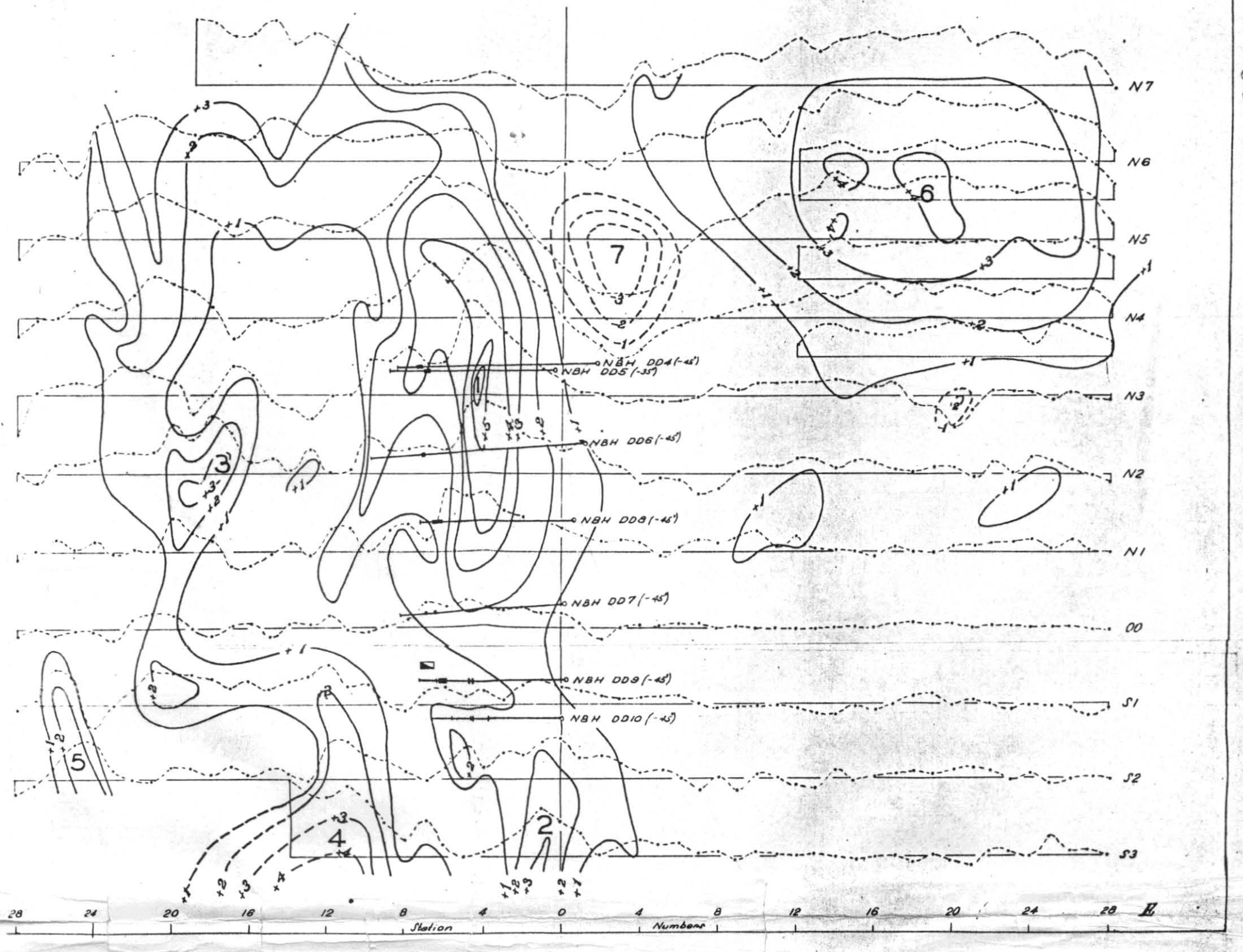


FIG. 17. MARIPOSA AREA - MAGNETIC V.F., REDUCED & REGIONAL GRAVITY PROFILES

260096



ASSAYS OF DIAMOND DRILL HOLE INTERSECTIONS

DDH	INTERSECTION HOR Ft	INTERSECTION VERT Ft	INTERSECTION TRUE WTH Ft	ASSAY LEAD Per cent	ASSAY ZINC Per cent	ASSAY SILVER Ozs per ton
4 (45°)	185	230	3·5	5·3	1·6	1·7
5 (35°)	175	113	5·5	9·4	2·3	2·5
6	175	205	4·0	5·5	2·2	0·75
8	160	170-180	11·3	8·3	2·5	1·8
7 A	162	167	2·6	13·8	3·4	1·5
B	175	180	2·9	0·8	0·3	0·6
9 A	113	117	1·1	5·5	1·5	8·7
B	117	121	1·8	0·4	0·4	3·2
C	150	153	7·6	4·3	1·2	0·9
D	158	161	2·1	2·4	1·2	3·3
10 A	95	95	0·9	12·3	3·7	14·4
B	110	110-115	4·5	8·3	1·5	3·0
C	115					
D	140	140	0·7	16·1	2·4	0·7

5 cm

MARIPOSA AREA

PLAN SHOWING

RESIDUAL GRAVITY PROFILES AND CONTOURS, RESULTS OF DIAMOND DRILLING

SCALES

HORIZONTAL 0 100 200 300 400 500 FEET

VERTICAL 0·5 0 0·5 1 1·5 2 2·5 MILLIGALS

Contour interval 0·1 milligal

R. Phillips
Geophysicist.

REFER DRG. No. K555-32 for grid location

G32-54

Geophysical Section, Bureau of Mineral Resources Geology & Geophysics. 6.10.50

FIG. 18.

930093

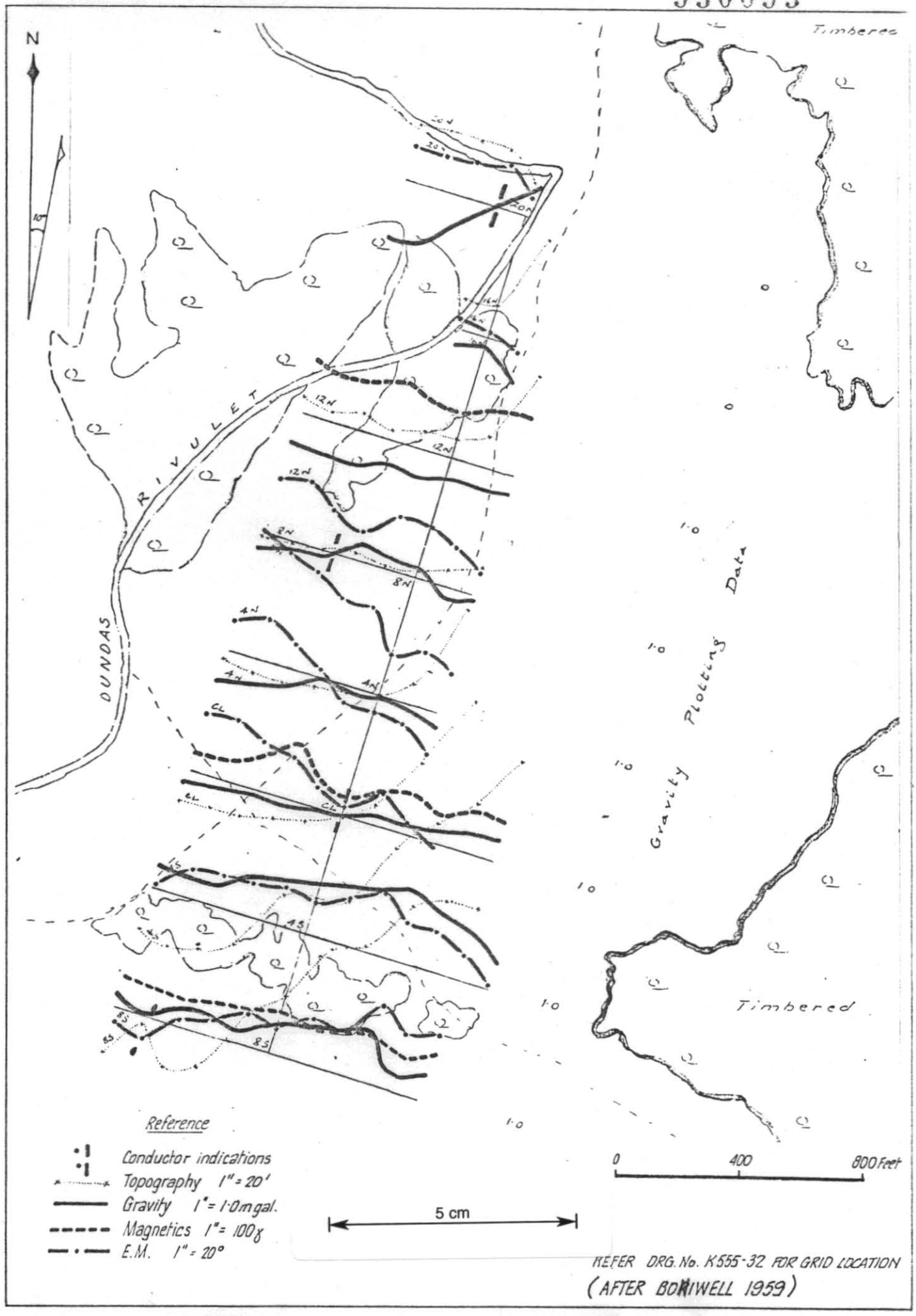


FIG. 19. MARIPOSA AREA - SUNNY CORNER MINE GRAVITY, MAGNETIC & E.M. PROFILES

930094

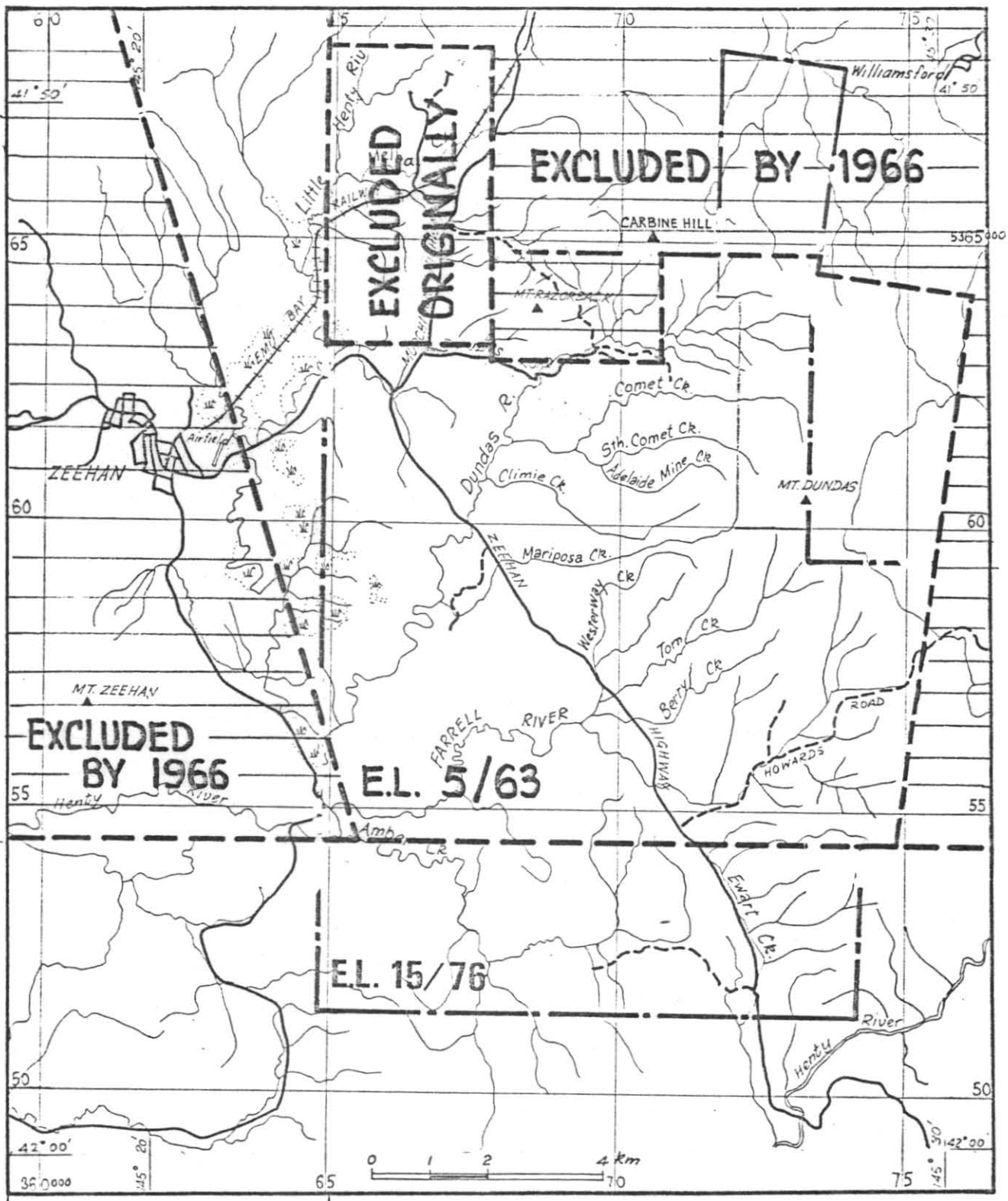


FIG. 20 LOCATION MAP - E.L. 5/63

5 cm

E.L. 15/76 DUNDAS, TASMANIA

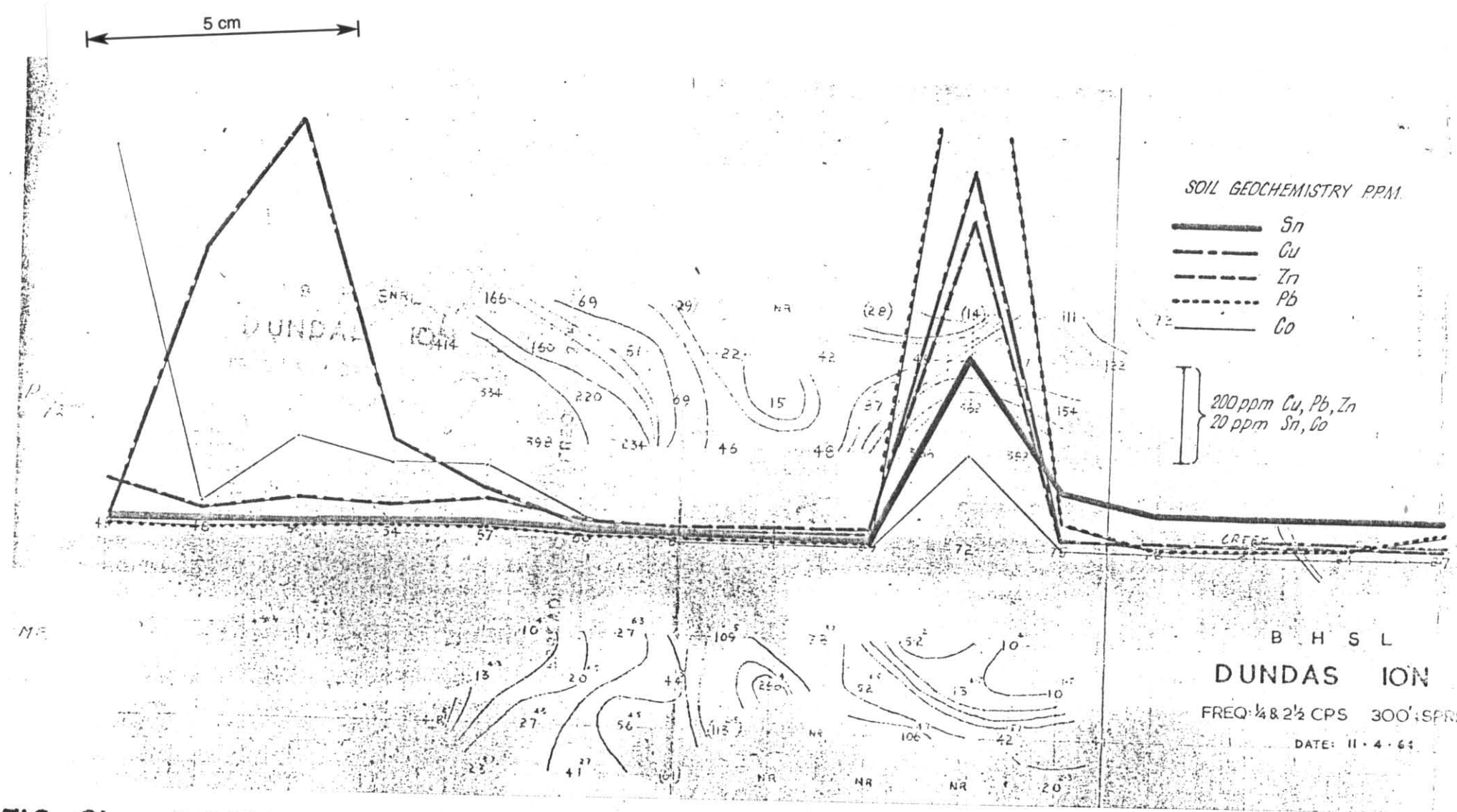


FIG. 21(a) DUNDAS Cu, Pb, Zn, Sn & Co SOIL GEOCHEMISTRY PROFILES WITH I.P. RESULTS
(Comstaff 1965)

930096

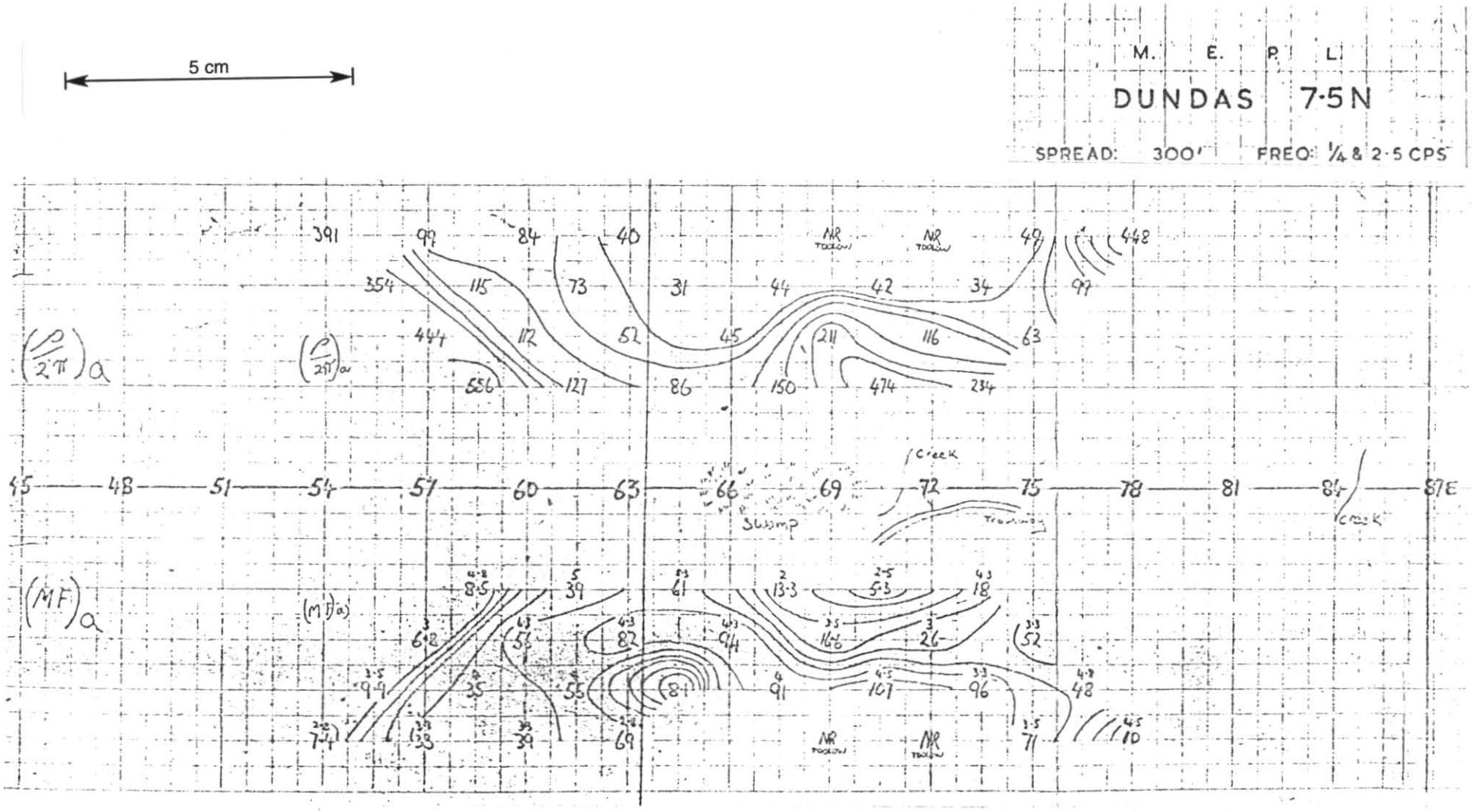


FIG. 21(b).

930097

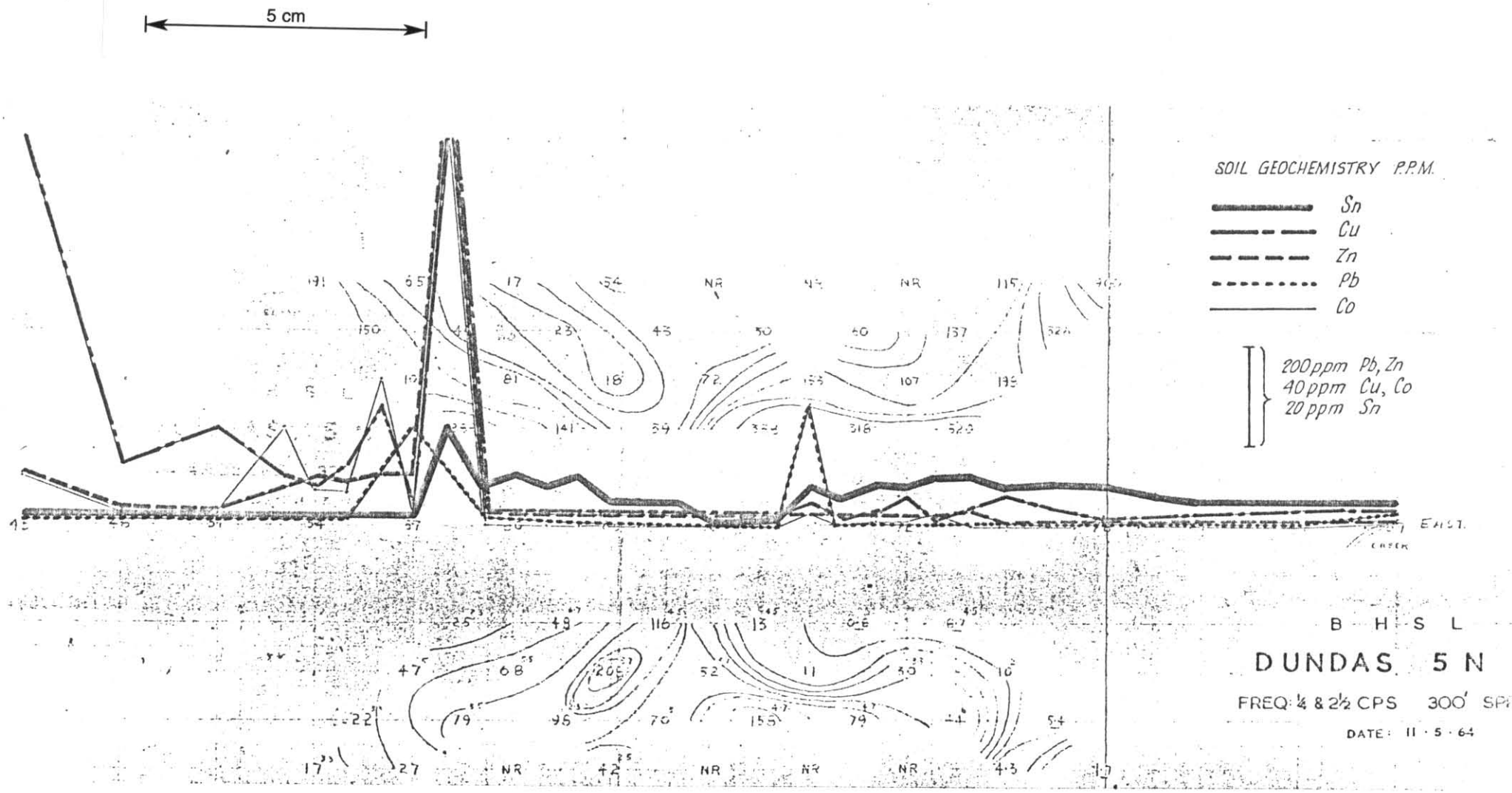


FIG 21(c)

930098

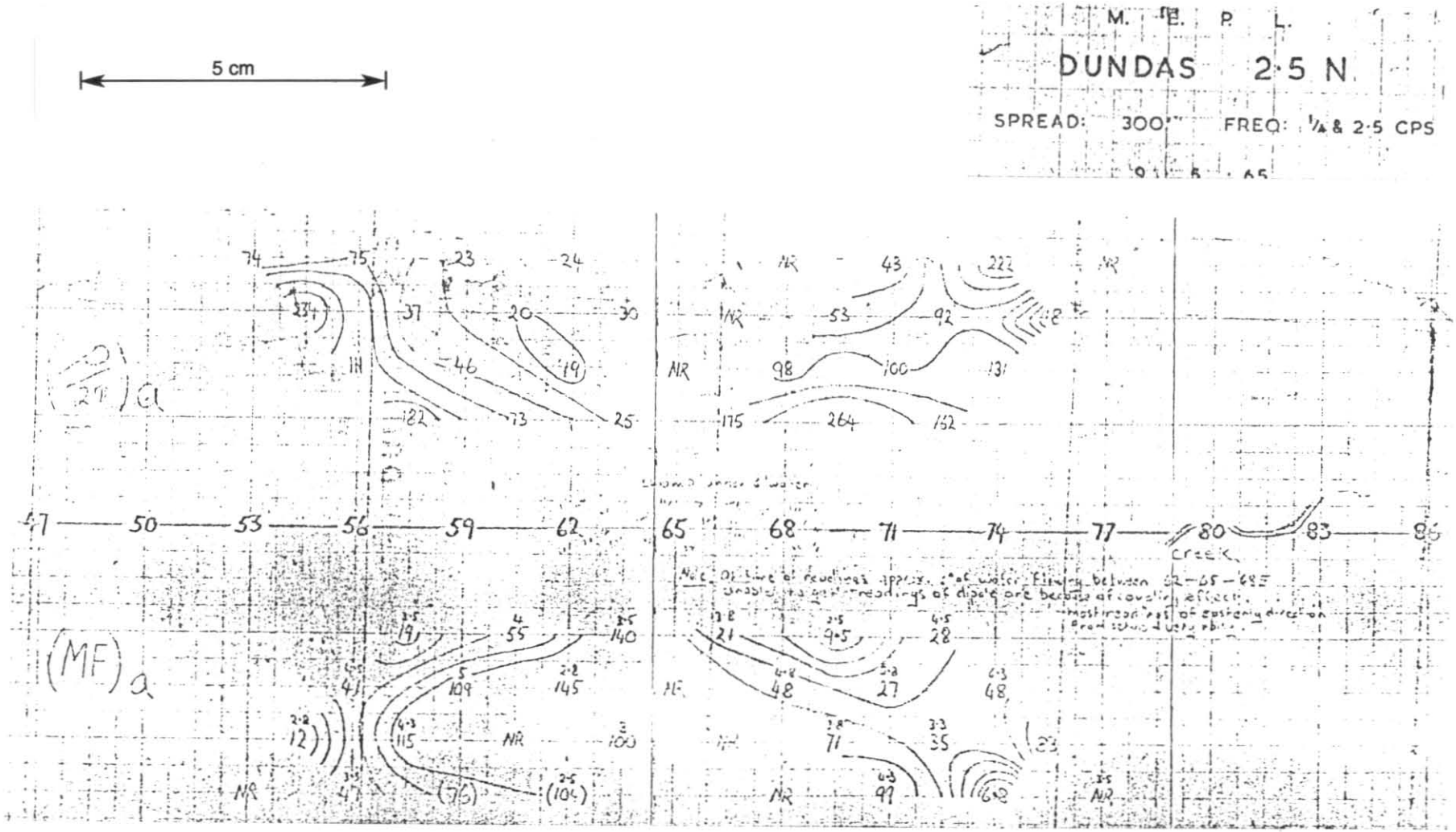


FIG. 21(d)

930099

5 cm

M. E. P. L.

DUNDAS 2·5 N

SPREAD: 300' FREQ: ¼ & 2·5 CPS

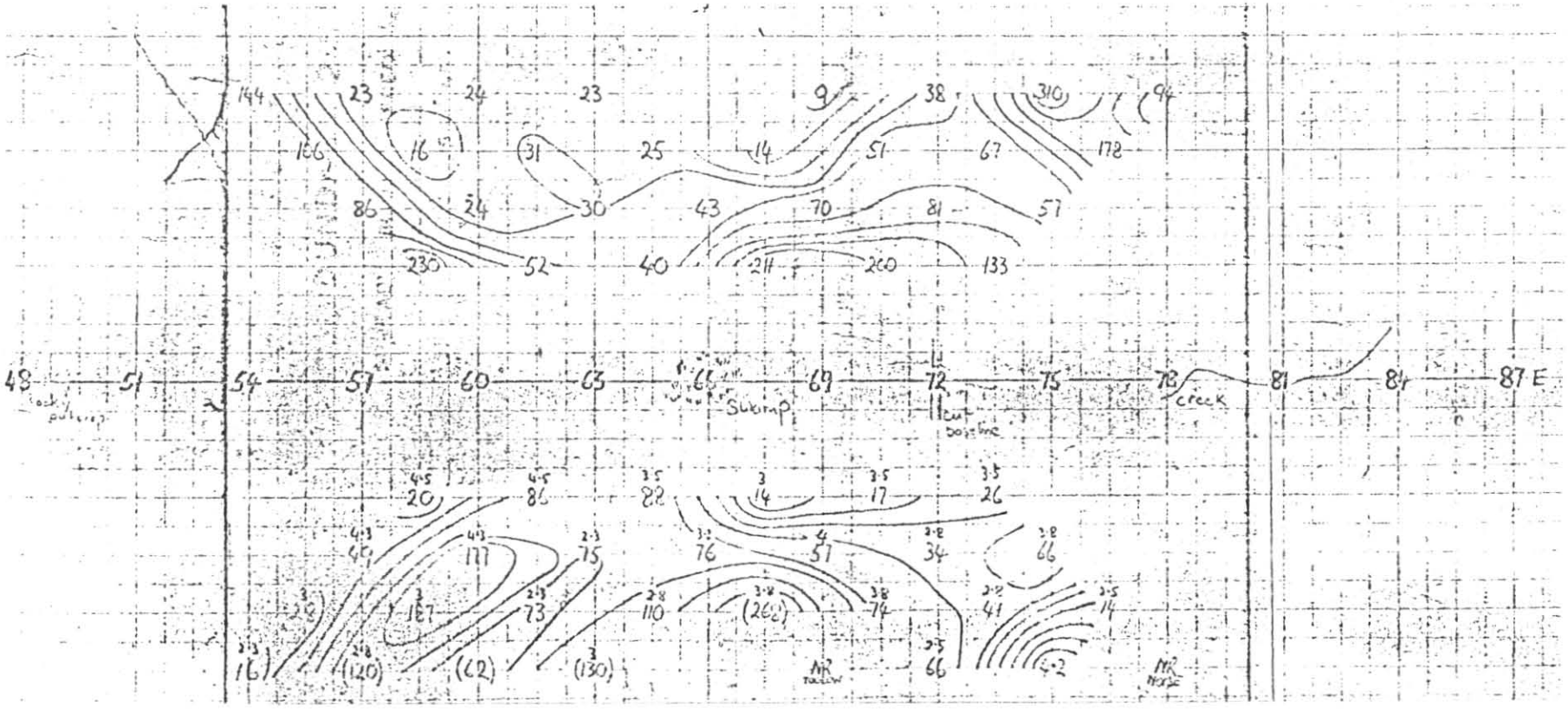


FIG. 21(e)

930100

5 cm

M. E. P. L.

DUNDAS OO

SPREAD: 200' FREQ: ¼ X2·5 CPS

15 · 1 · 65

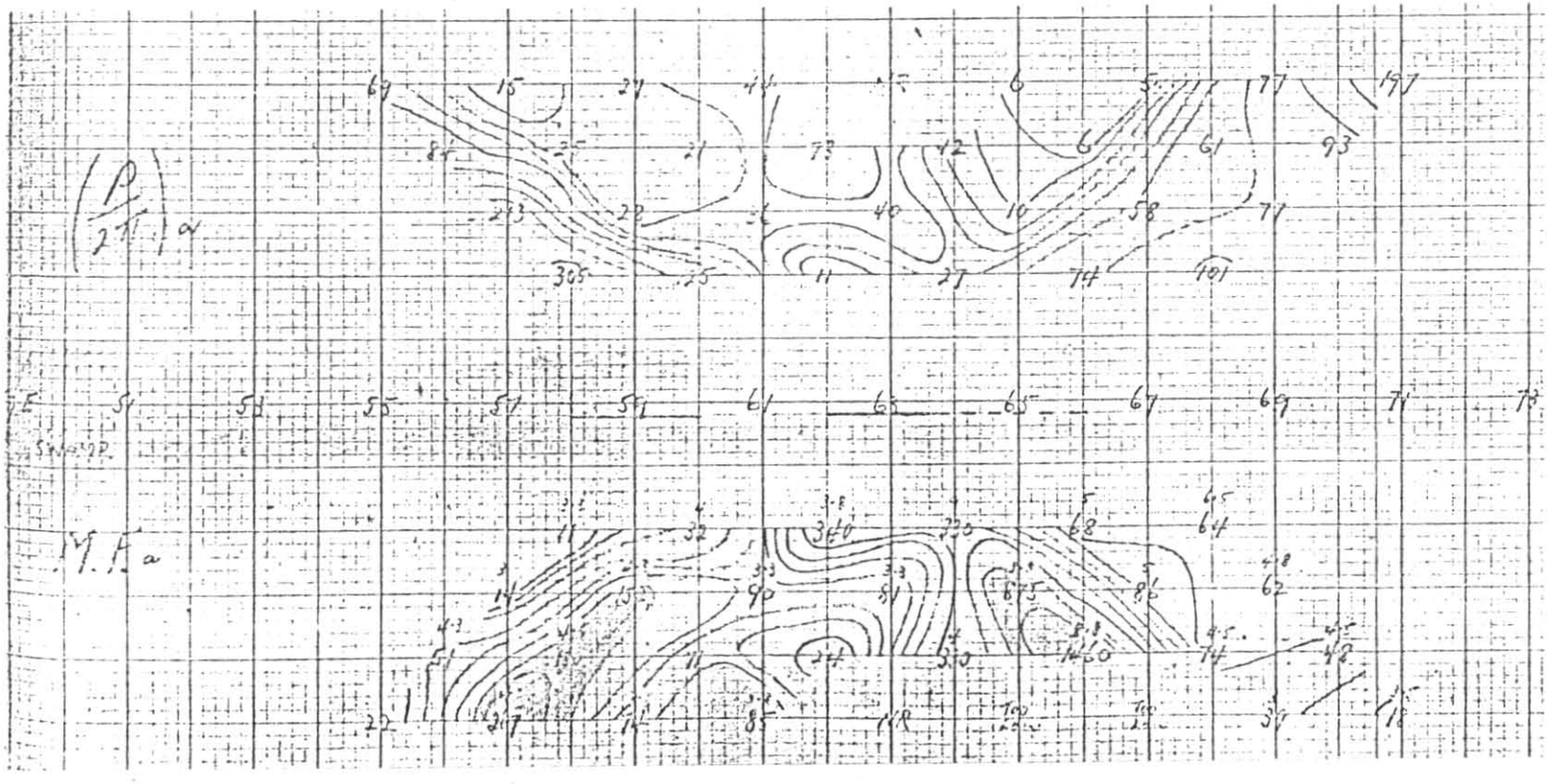


FIG. 21(f)

930101

5 cm

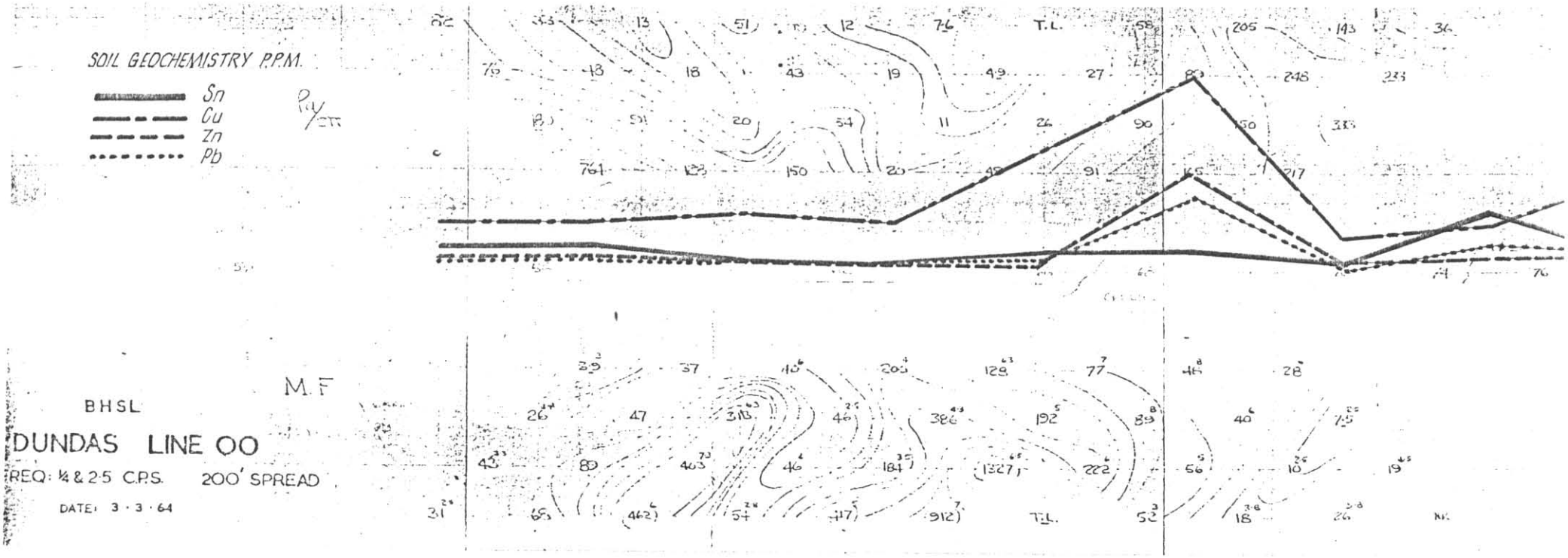


FIG. 21(g)

930102

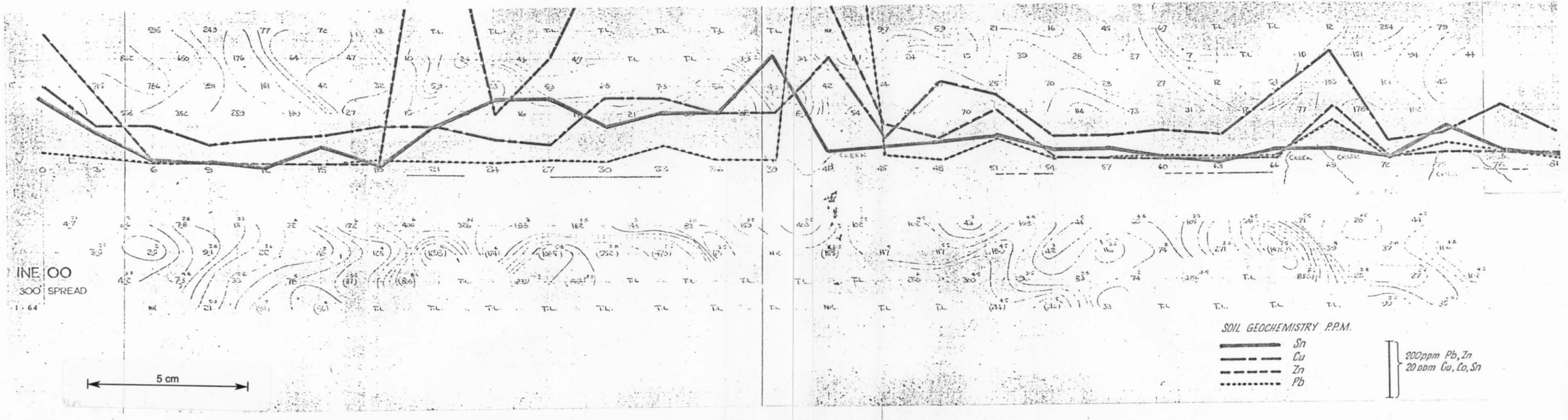


FIG 21(b)

930103

5 cm

M. E. P. L.

DUNDAS 2·5 S

SPREAD: 300' FREQ: ¼ & 2·5 CPS

CO. 3 5 '65

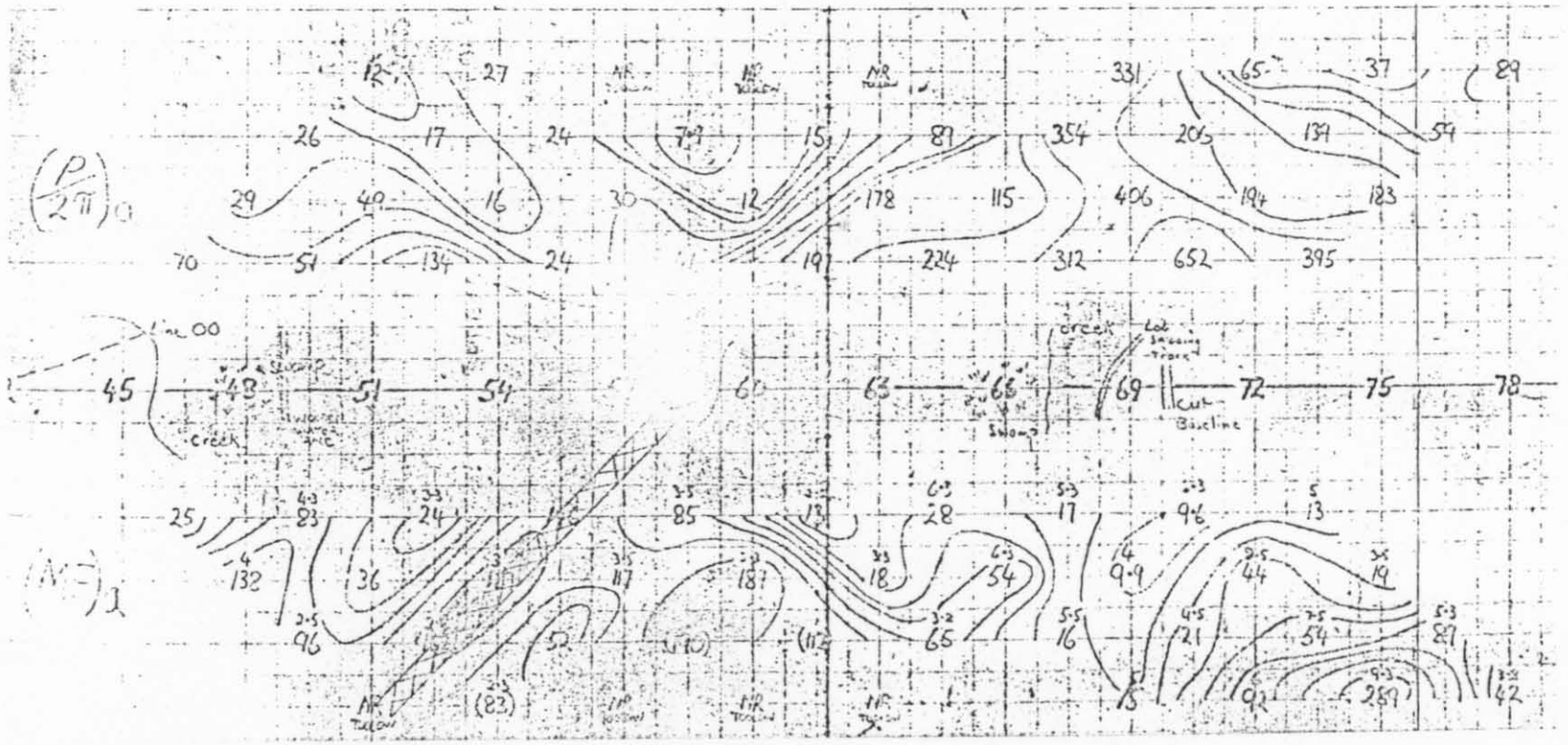


FIG 21(i).

930104

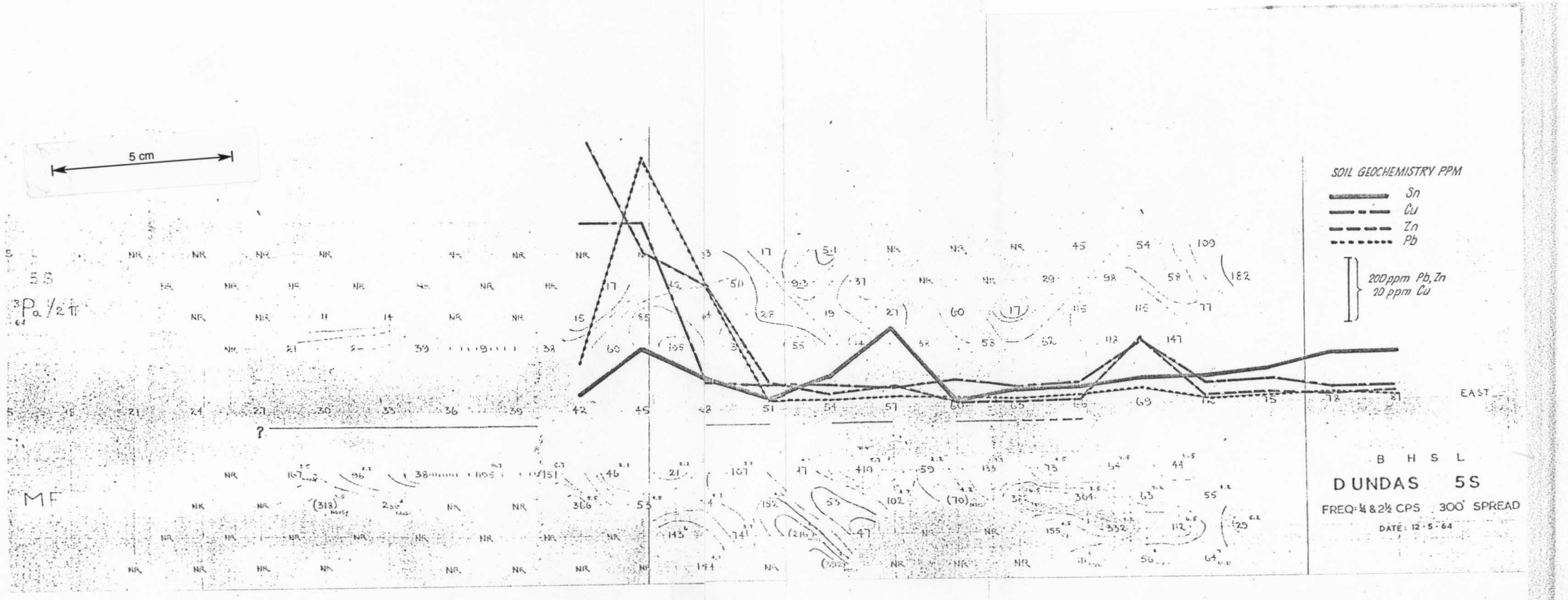


FIG 21(j)

930105

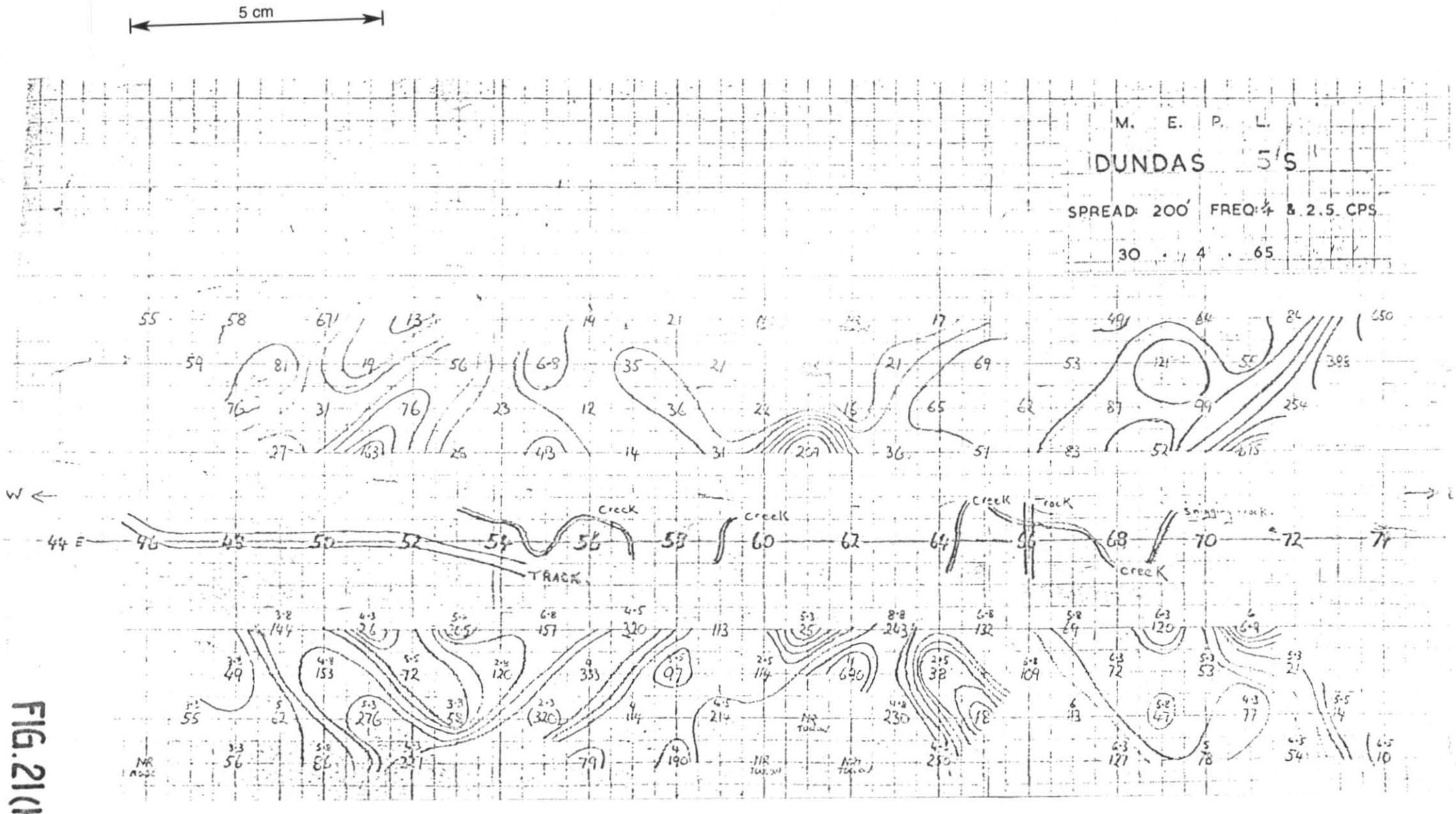


FIG. 21(K)

930106

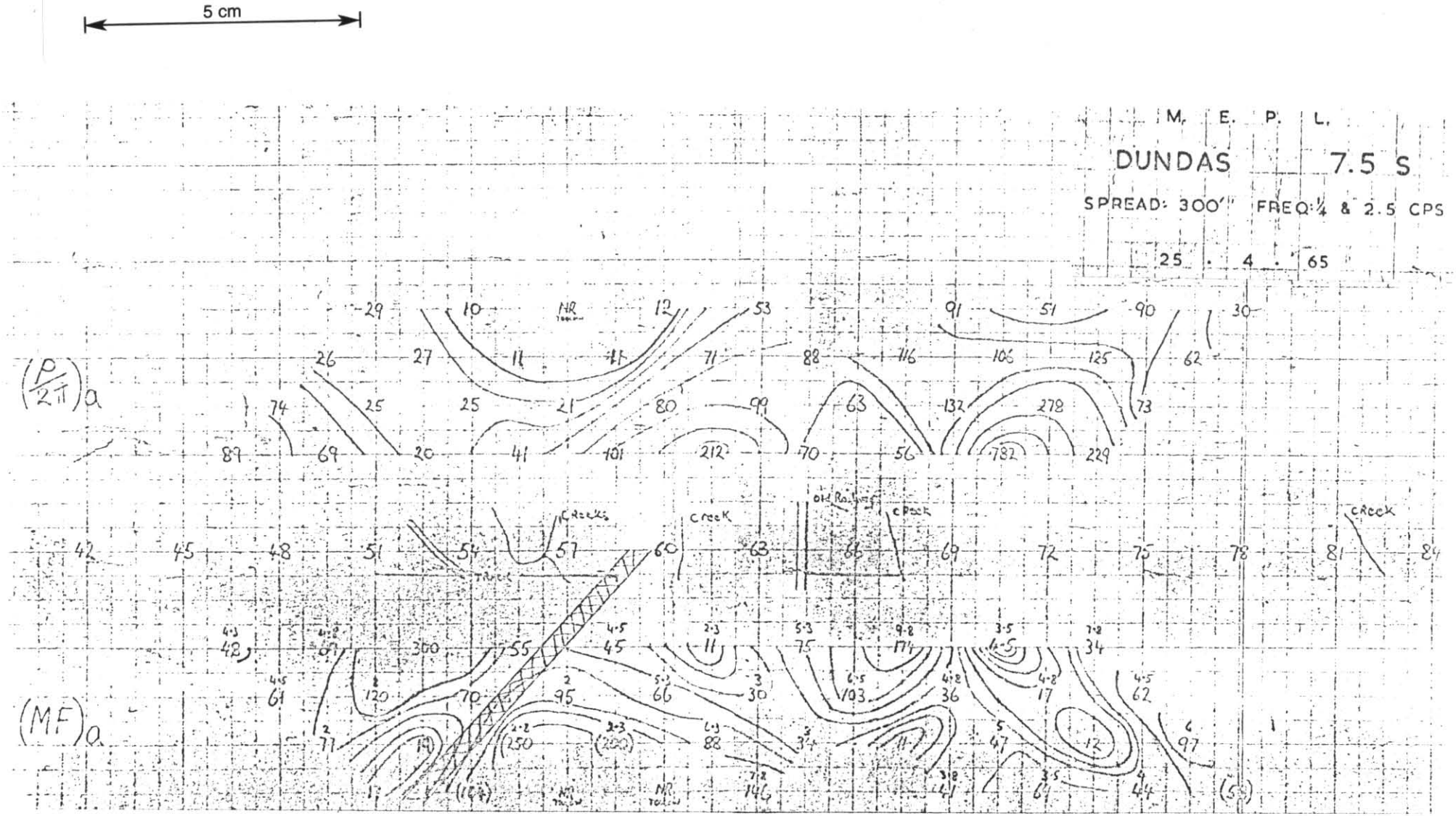


FIG. 21(b)

930107

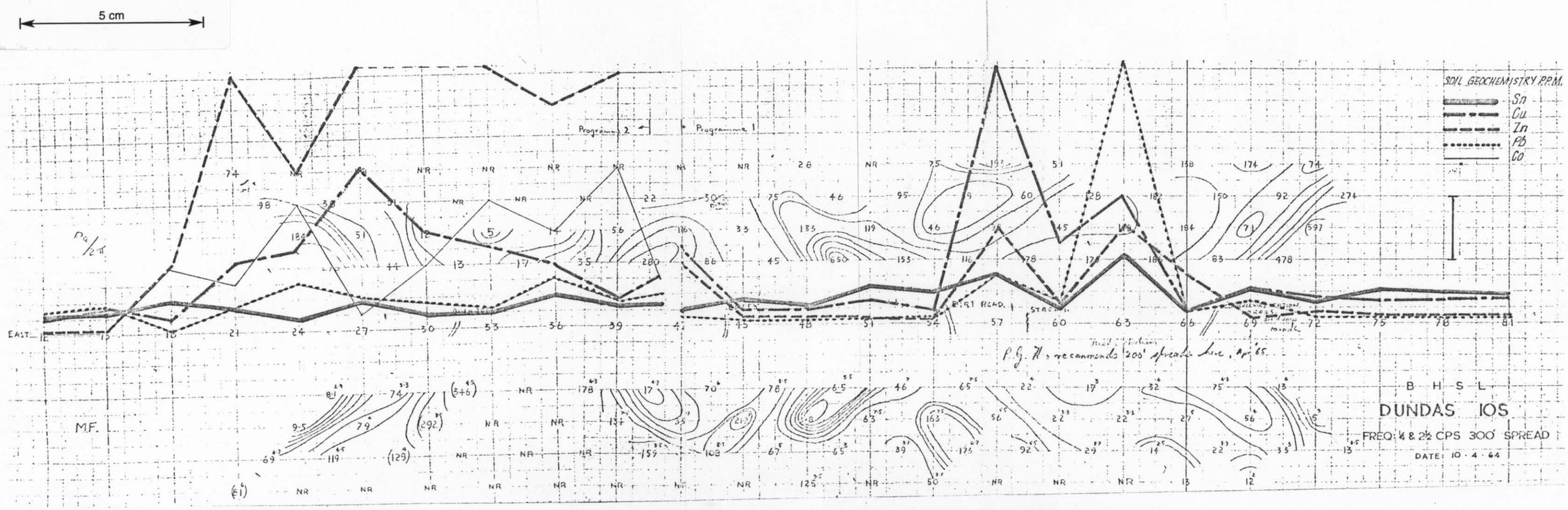


FIG 21(m)

930108

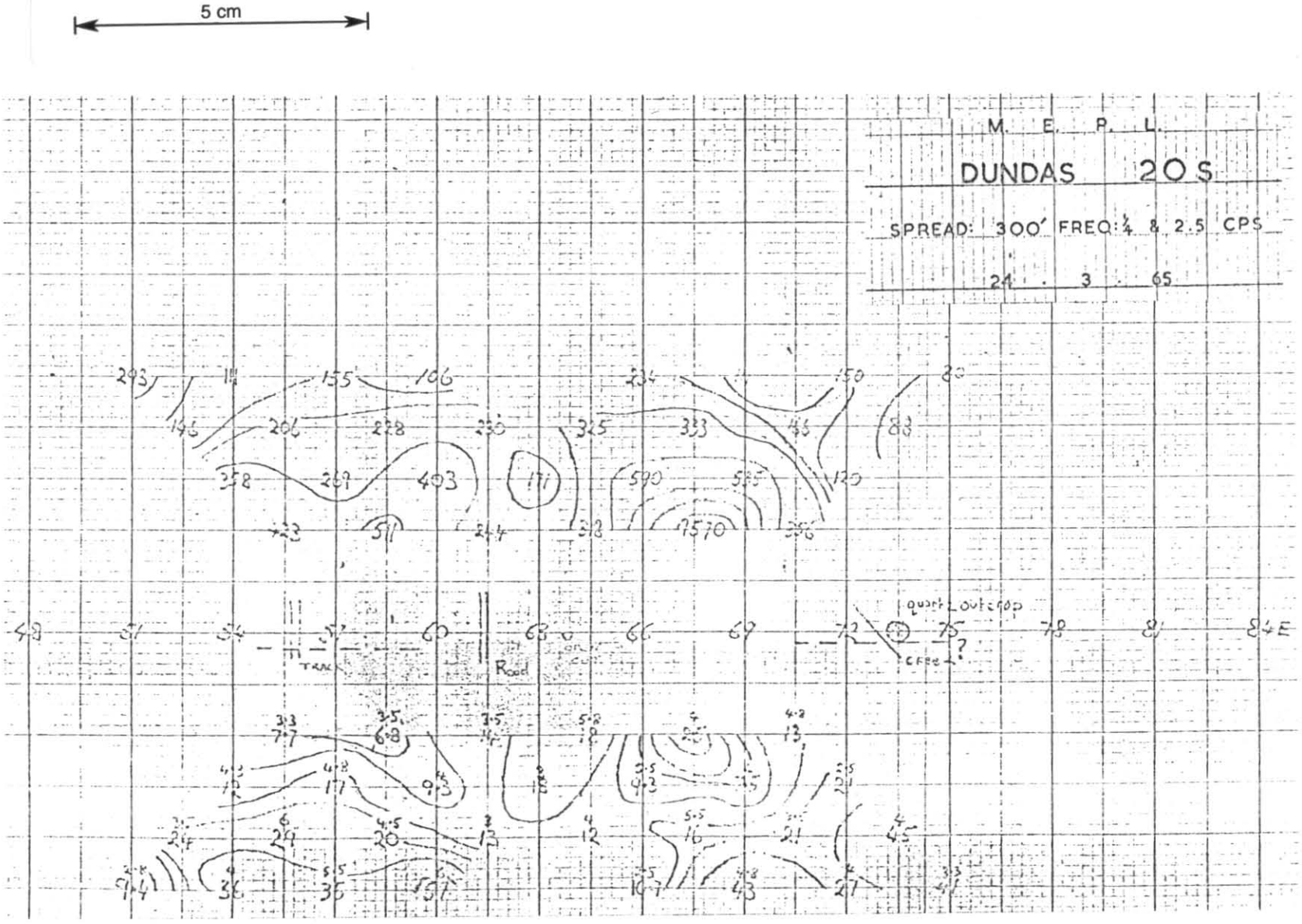


FIG. 21(n)

930109

5 cm

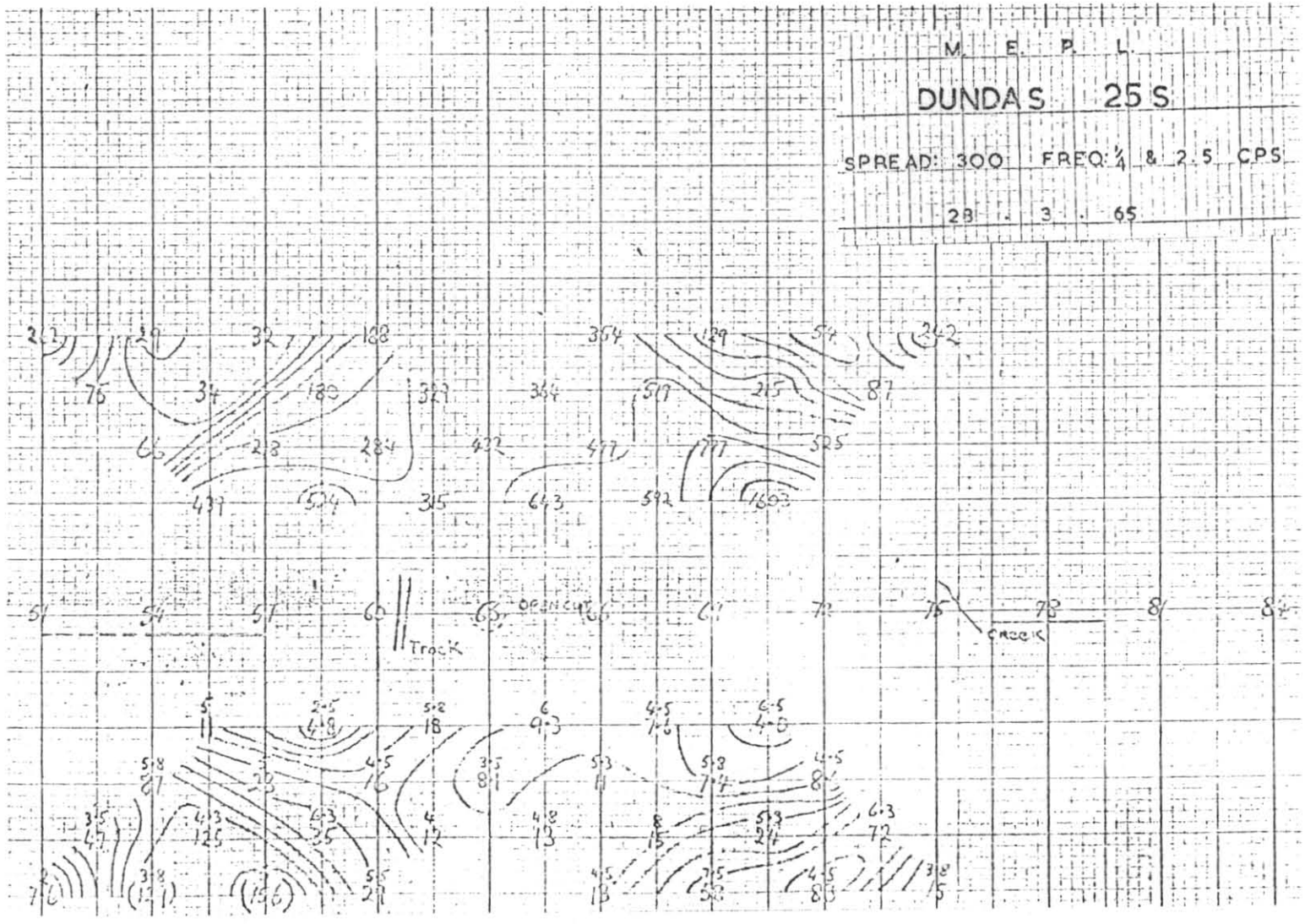


FIG. 21(o)

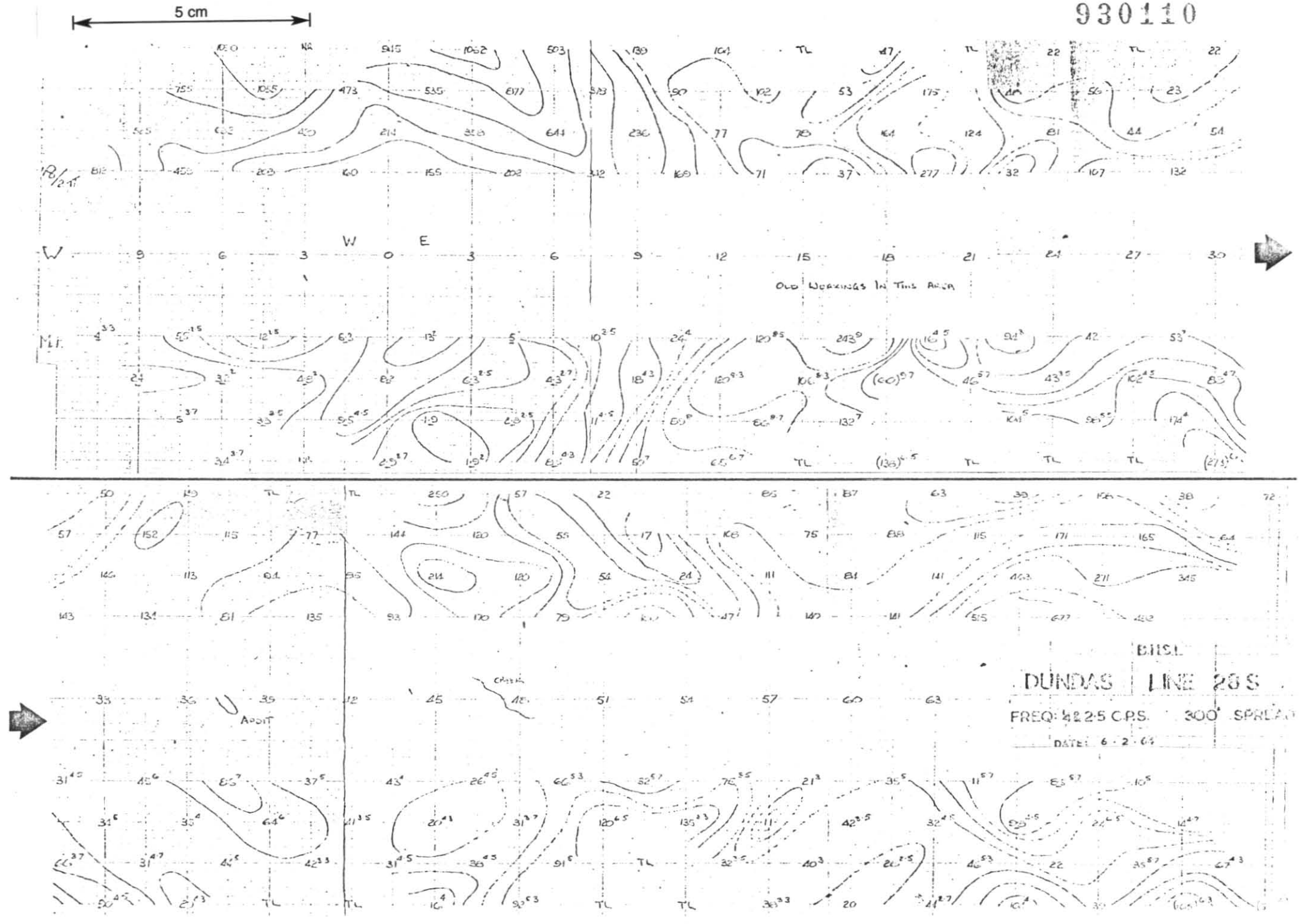

5 cm
930110
W
E
OLD WORKINGS IN THIS AREA
B.H.S.L.
DUNDAS LINE 28 S
FREQ: 4 & 2·5 C.P.S. 300' SPREAD
DATE: 6 · 2 · 64
APDIT

FIG. 21(p)

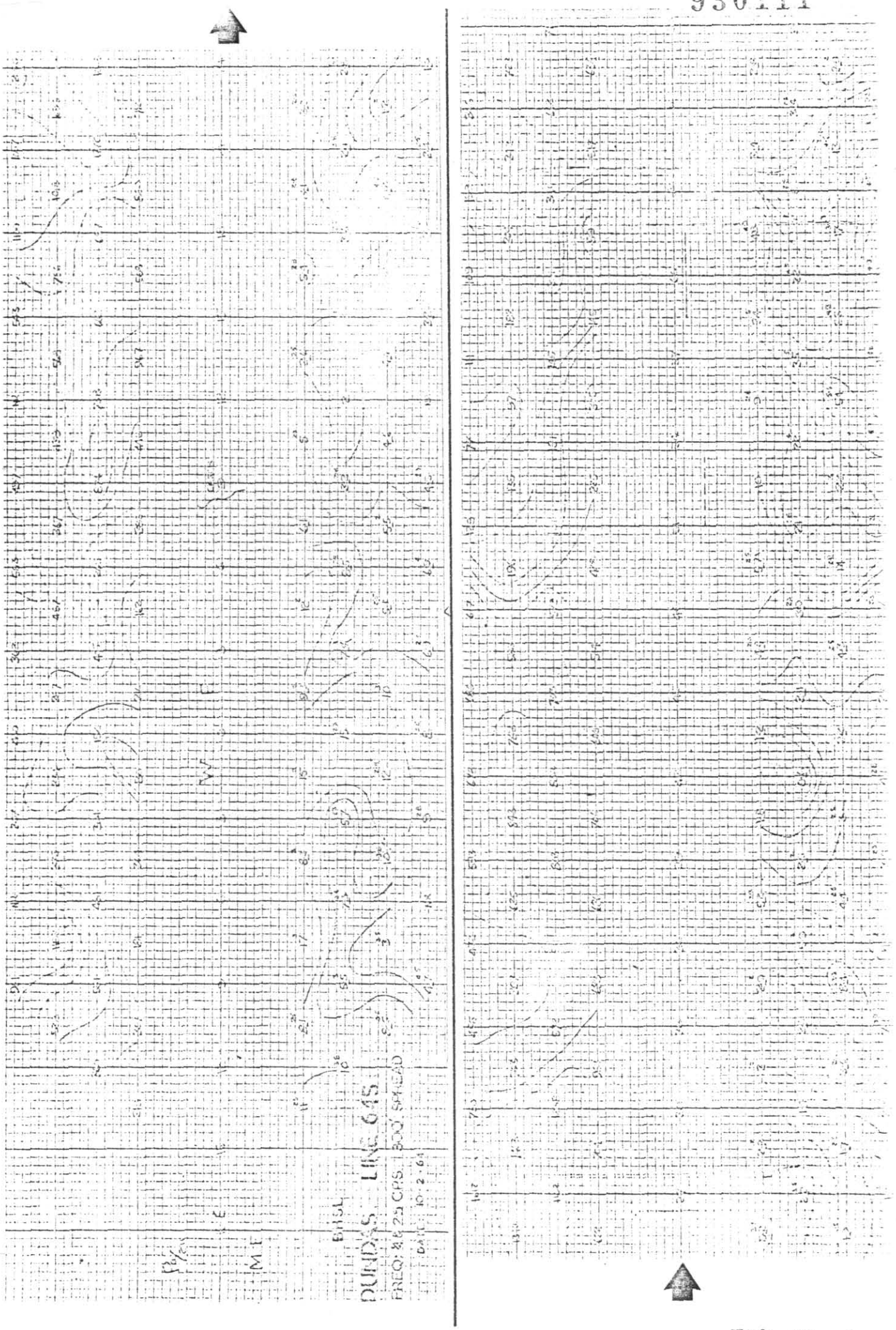


FIG. 21(q)

930112

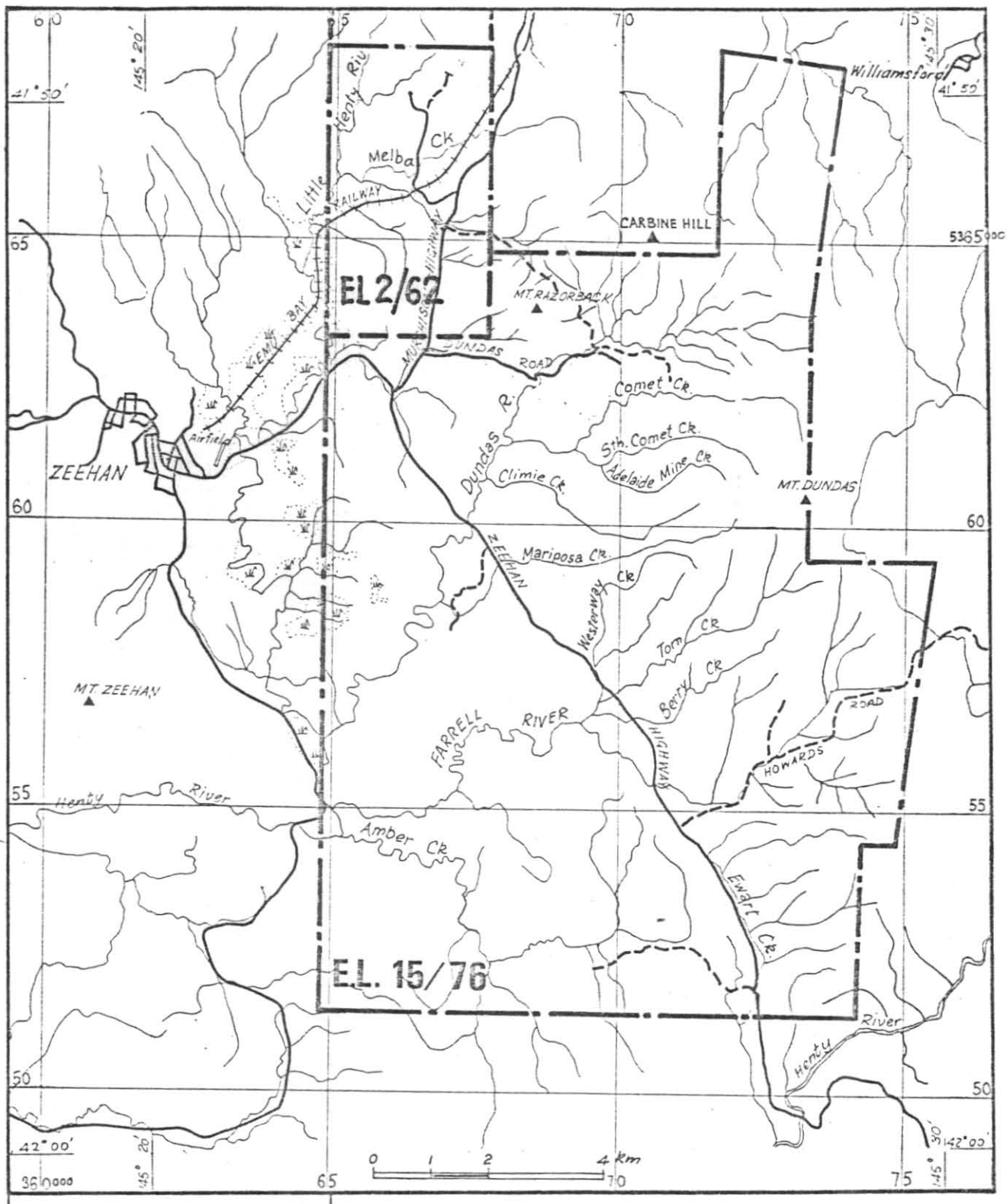


FIG. 22 LOCATION MAP -

E.L. 2/62 (E.Z.)
E.L 15/76 (CSR)

E.L. 15/76 DUNDAS, TASMANIA

5 cm

930113

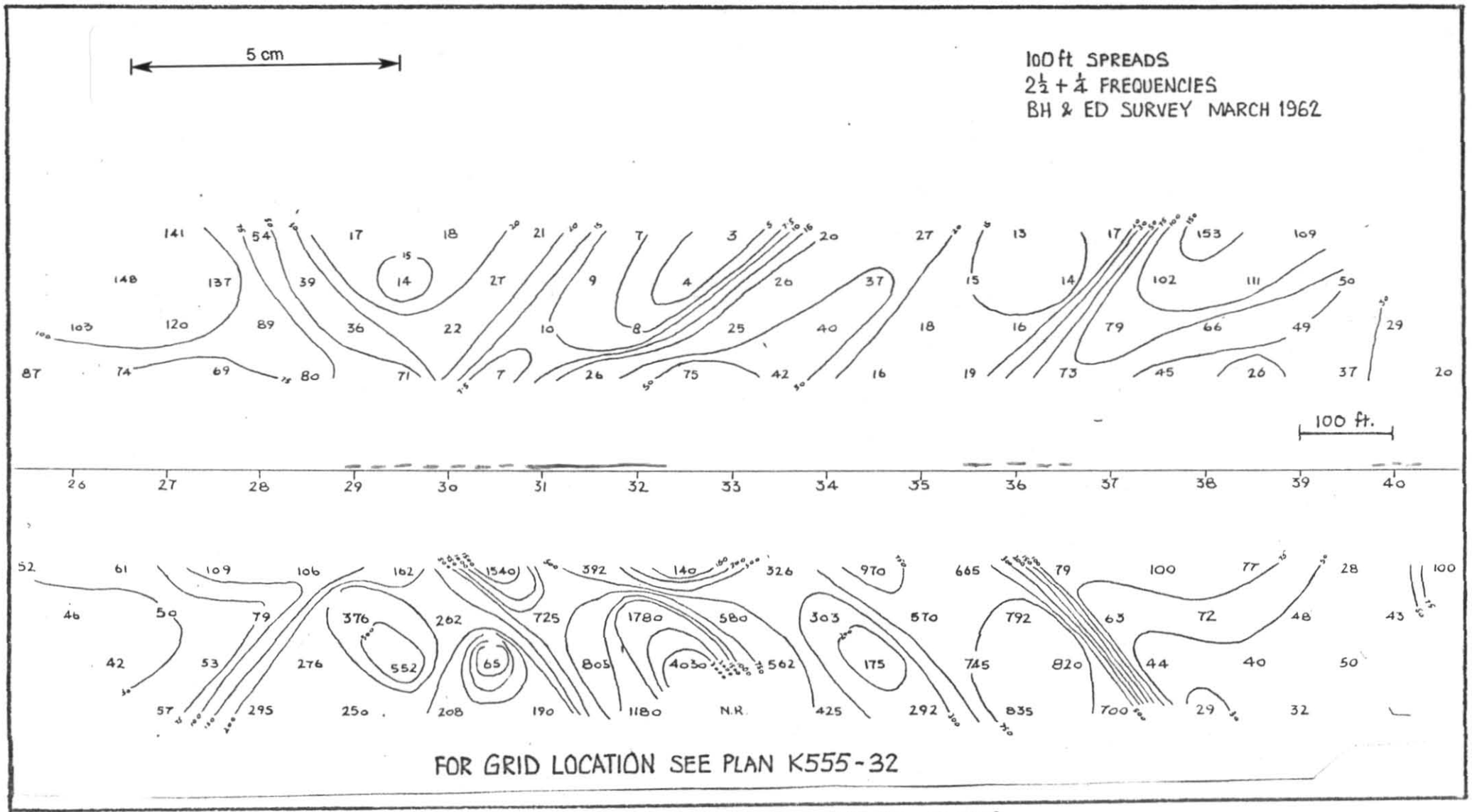


FIG. 23A E.Z. I.P. SURVEY EAST MELBA GRID LINE 30N

930114

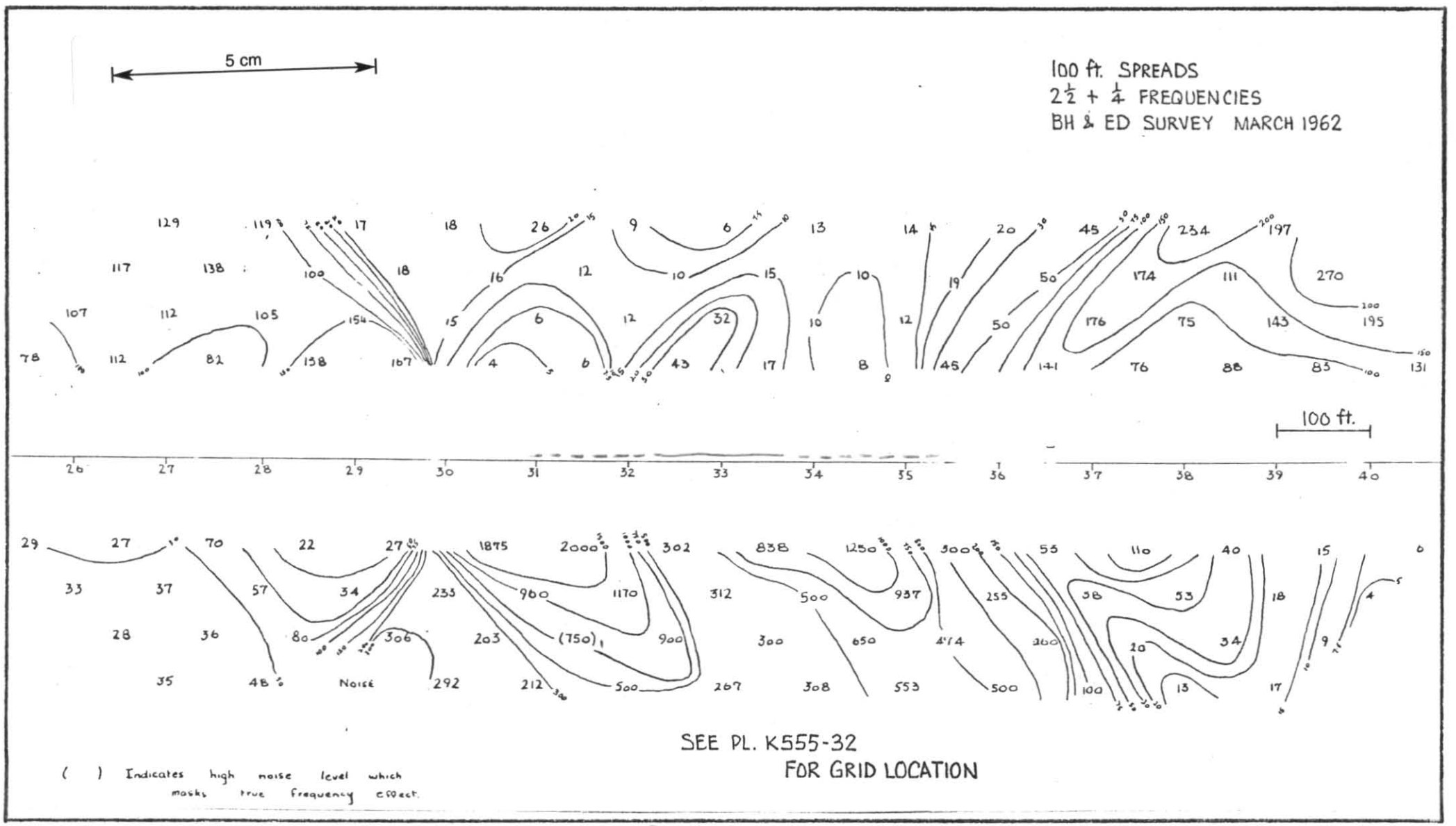


FIG. 23B E.Z. I.P. SURVEY EAST MELBA GRID LINE 33 N

930115

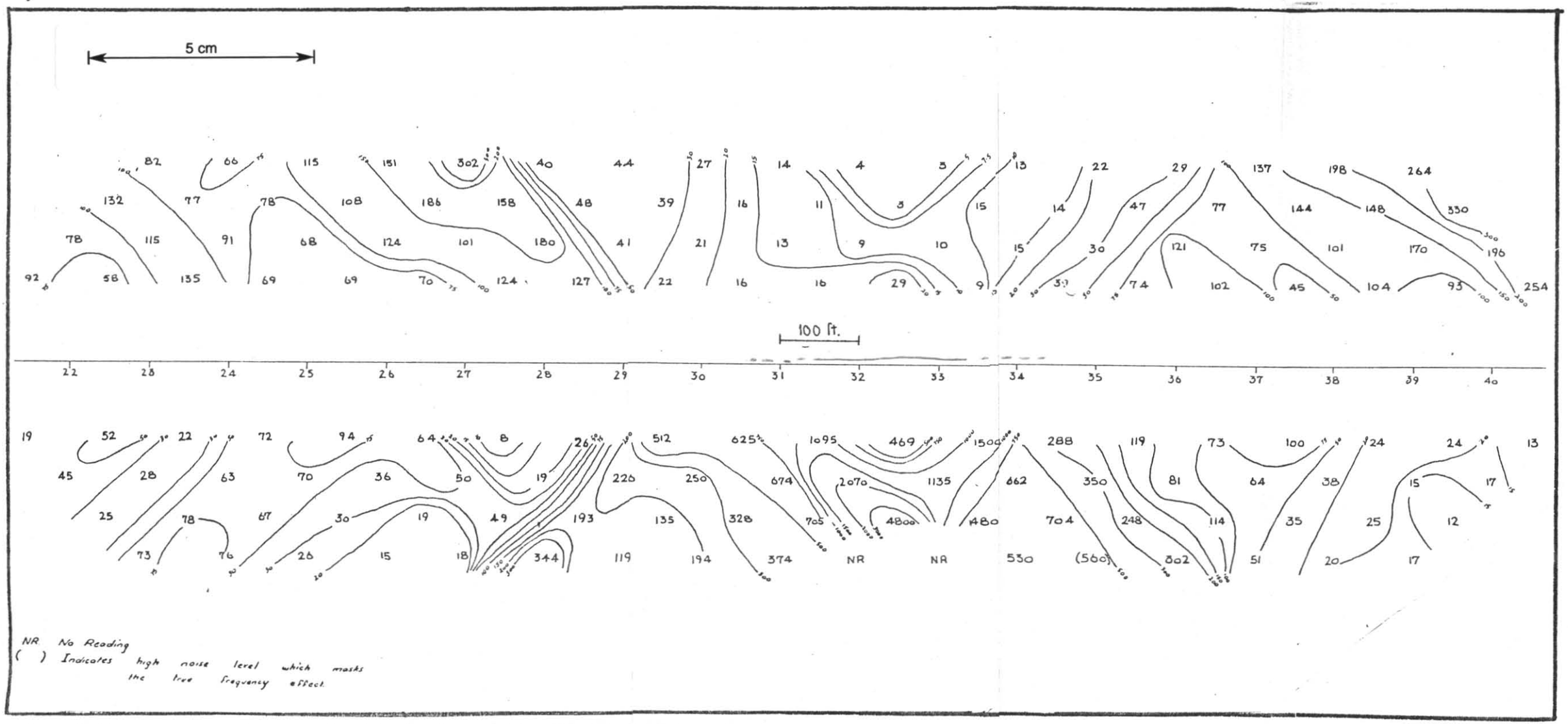


FIG. 23C E.Z. I.P. SURVEY EAST MELBA GRID LINE 36 N

930116

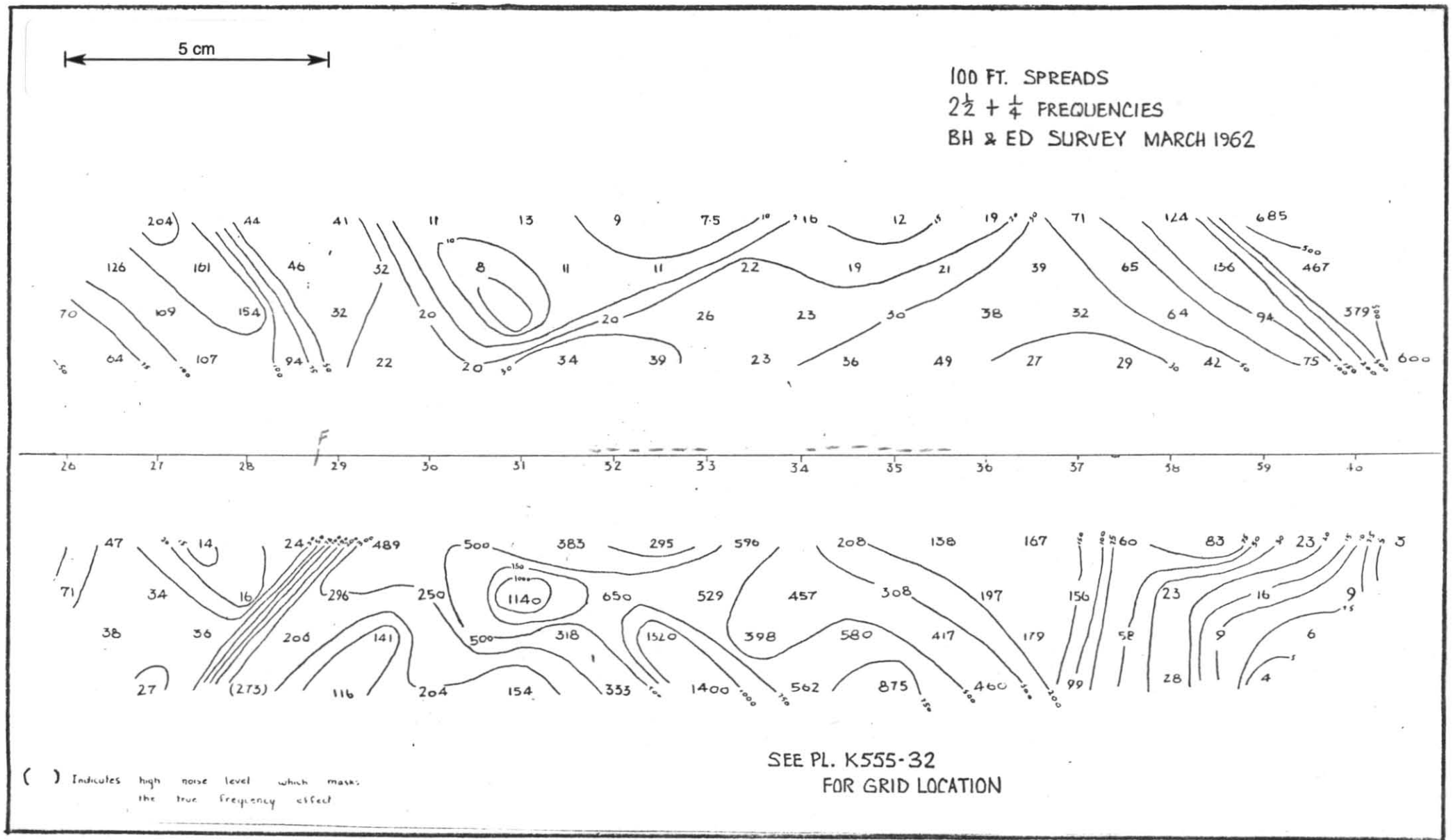
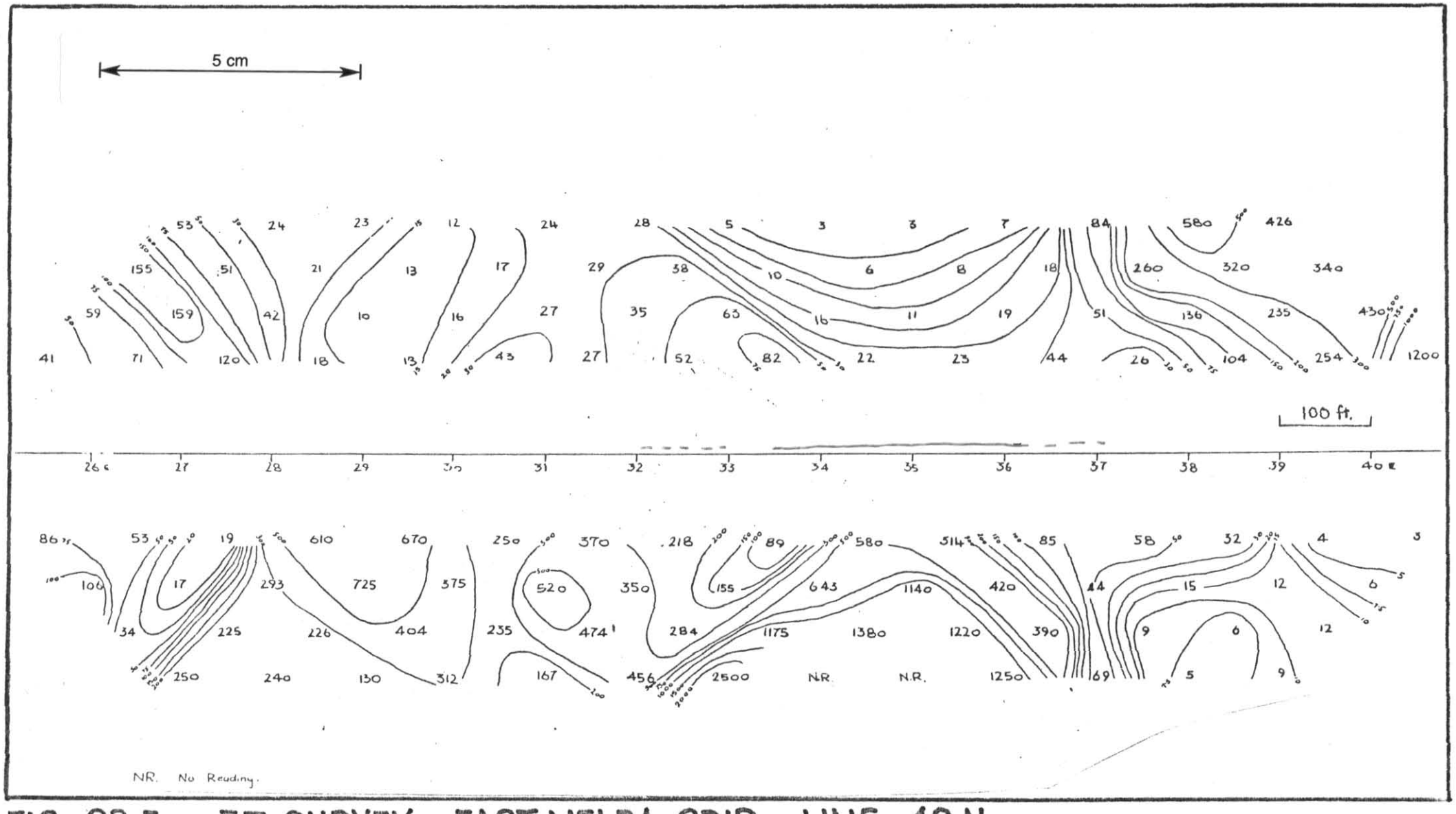


FIG 23 D E.Z. I.P. SURVEY EAST MELBA GRID LINE 39 N

930117



NR. No Reading.

FIG. 23 E EZ. SURVEY EAST MELBA GRID LINE 42 N

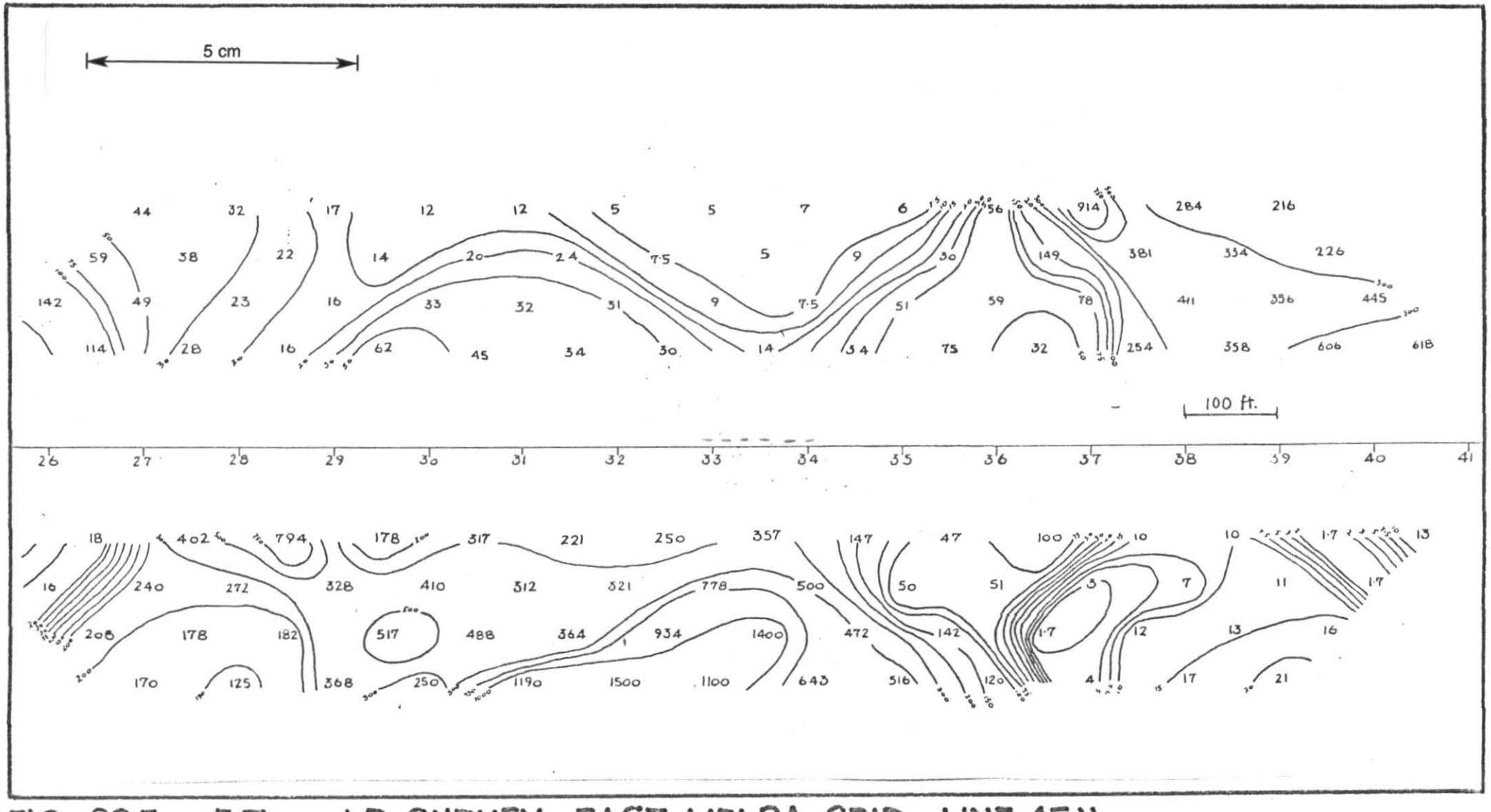


FIG. 23F E.Z. I.P. SURVEY EAST MELBA GRID LINE 45N

930119

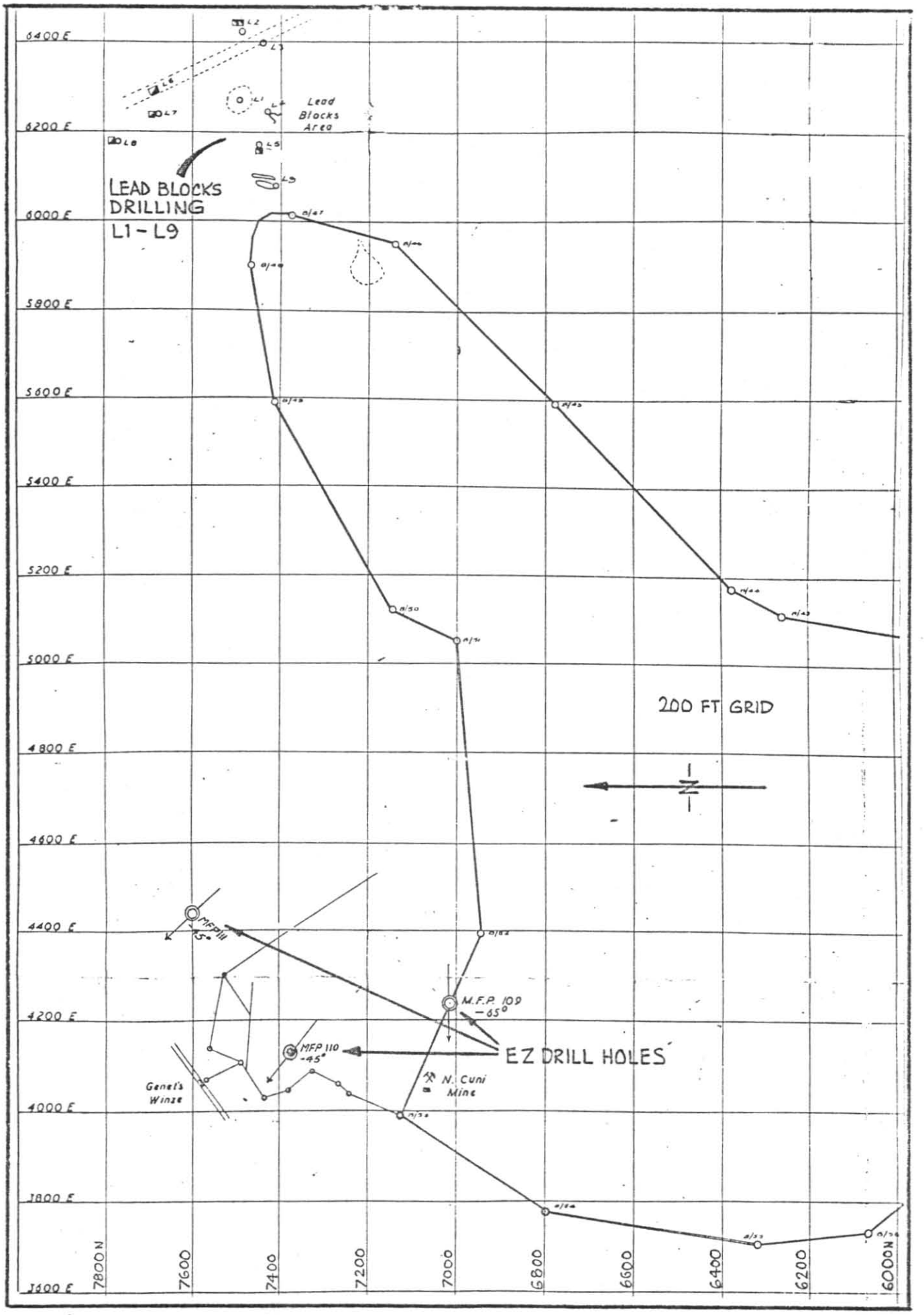


FIG. 24 DRILLING AT LEAD BLOCKS AREA

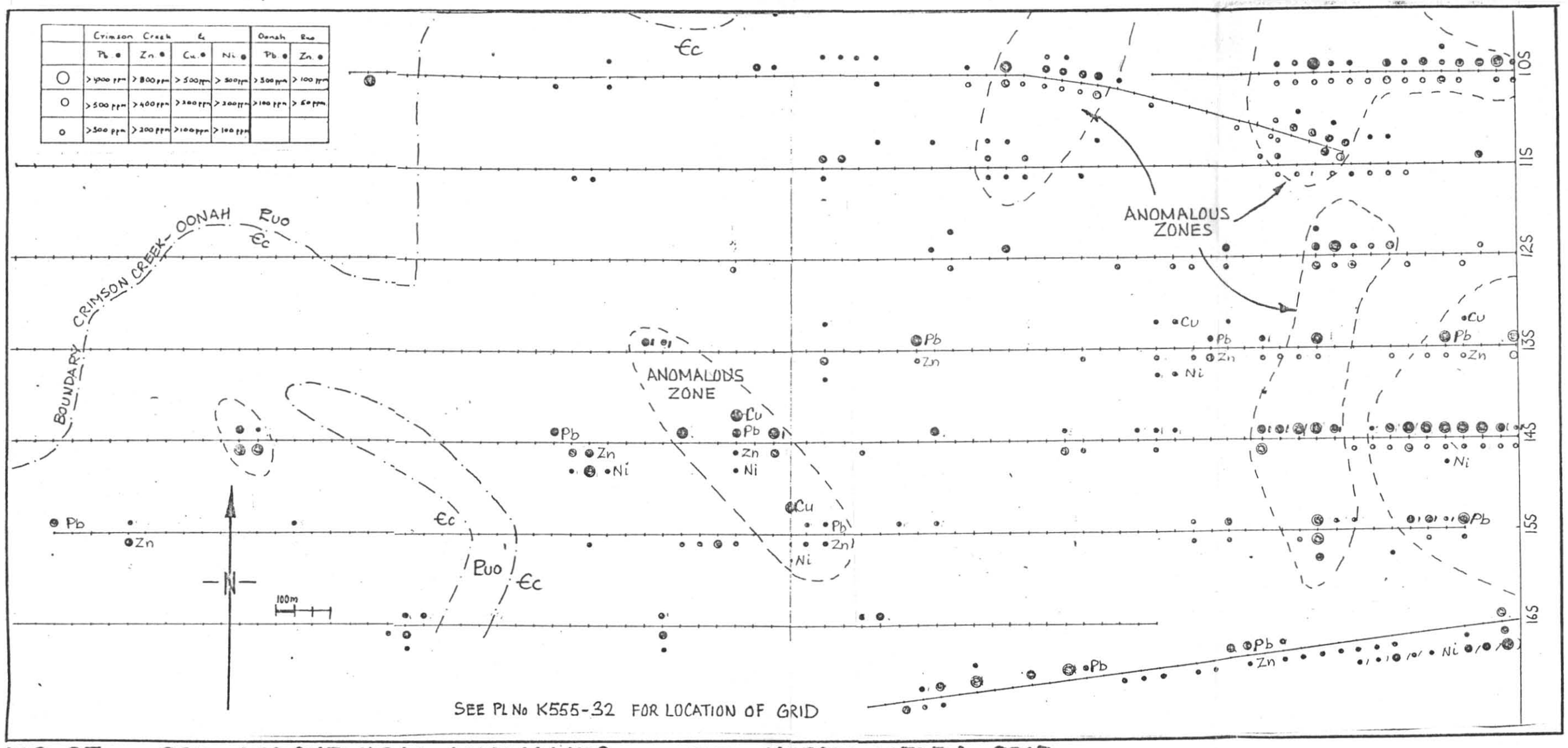
FOR LOCATION SEE PL. K555-34

5 cm

930120

5 cm

	Crimson Creek Ec				Oonah Puo	
	Pb ●	Zn ●	Cu ●	Ni ●	Pb ●	Zn ●
○	>400 ppm	>800 ppm	>500 ppm	>500 ppm	>300 ppm	>100 ppm
○	>300 ppm	>400 ppm	>300 ppm	>300 ppm	>100 ppm	>60 ppm
○	>300 ppm	>200 ppm	>100 ppm	>100 ppm		

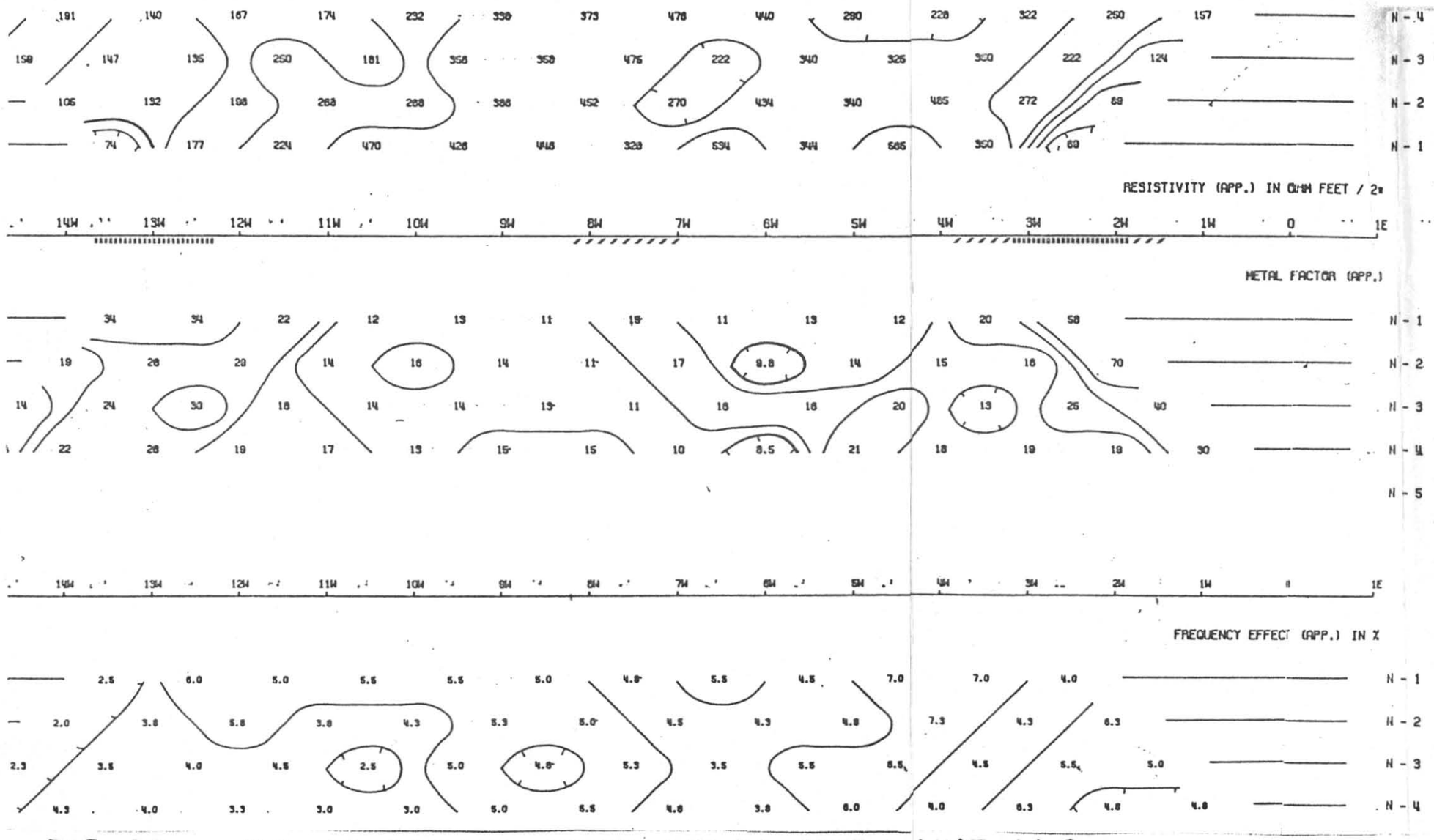


SEE PL No K555-32 FOR LOCATION OF GRID

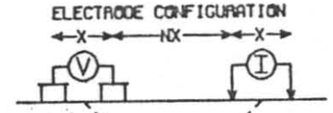
FIG. 25 SOIL GEOCHEMICAL ANOMALIES EZ. NORTH MELBA GRID

5 cm

930121



ELECTRODE CONFIGURATION



PLOTTING POINT → X X = 100'

SURFACE PROJECTION, OF ANOMALOUS ZONES

DEFINITE
PROBABLE
POSSIBLE

FREQUENCIES: 0.31-2.5 CPS

NOTE: CONTOURS AT LOGARITHMIC INTERVALS 1.-1.5-2.-3.-5.-7.5-10

DATE SURVEYED: JAN 1970

APPROVED:

DATE: 6/28/70

SEE PL. No. K555-32 FOR GRID LOCATION

FIG. 26 EZ. I.P. SURVEY NORTH MELBA GRID LINE 14 S

930122

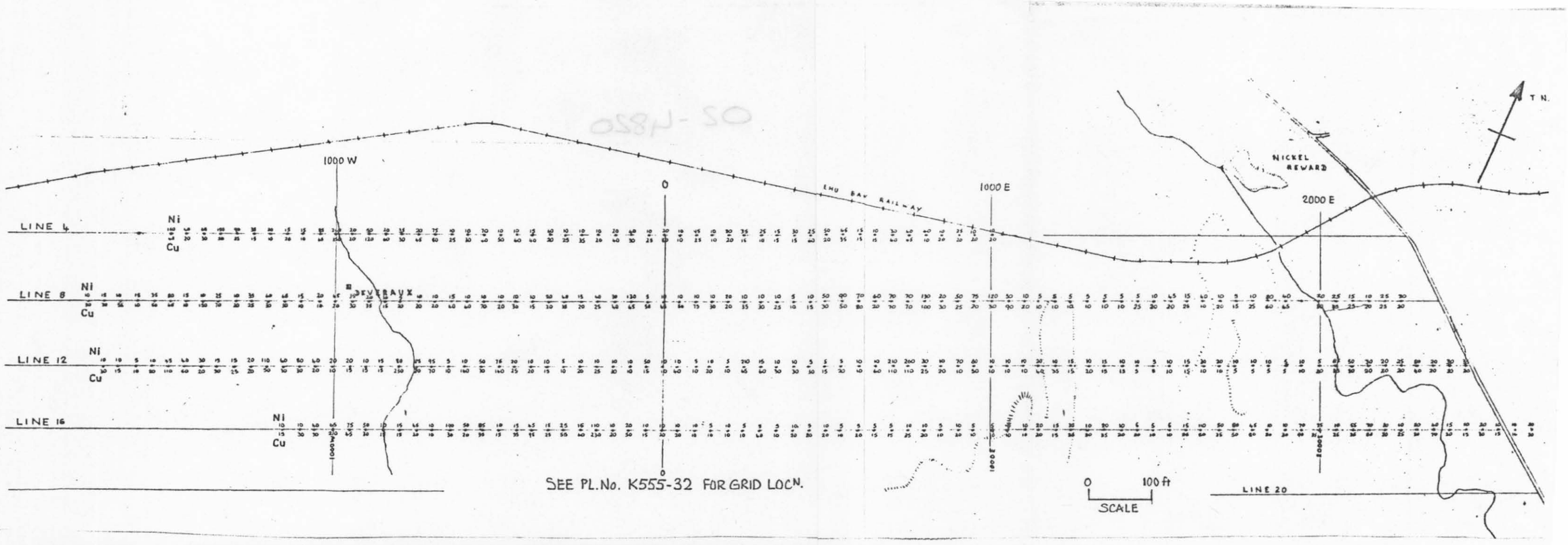


FIG. 27B DEVERAUX GRID MELBA FLAT GEOCHEMICAL SOIL SAMPLING
VALUES COPPER & NICKEL P.P.M.

5 cm

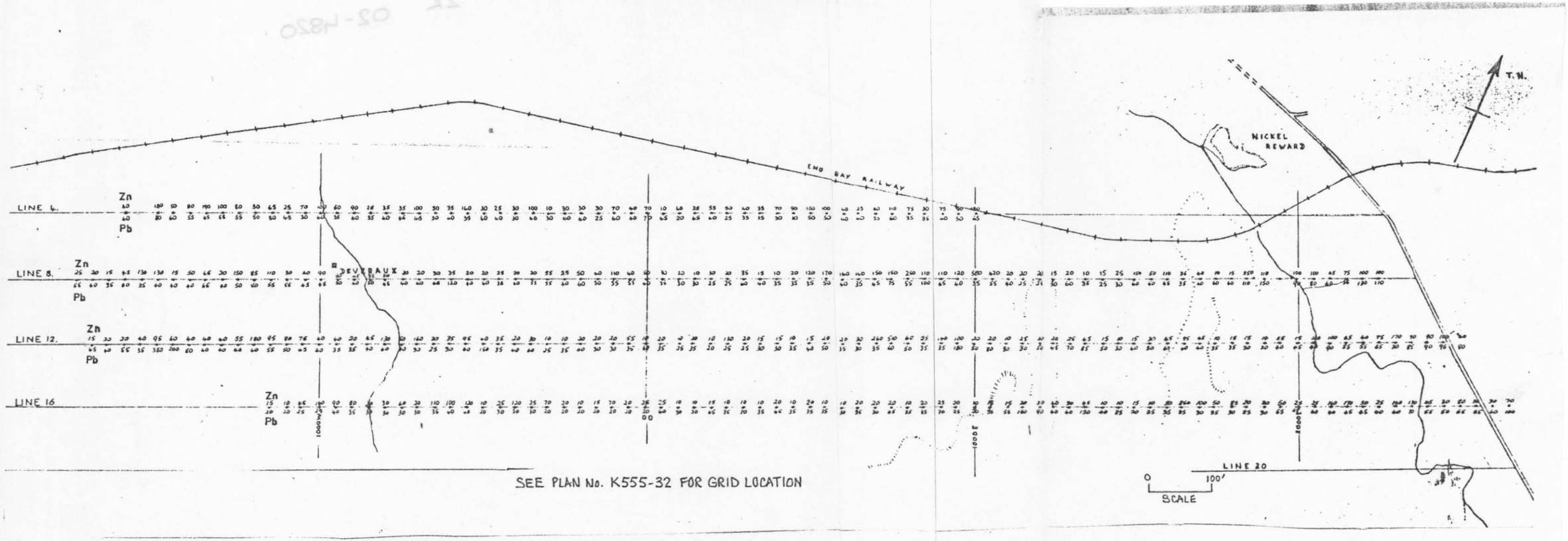


FIG. 27 A DEVERAUX GRID MELBA FLAT GEOCHEMICAL SOIL SAMPLING
VALUES LEAD & ZINC P.P.M.

5 cm

930123

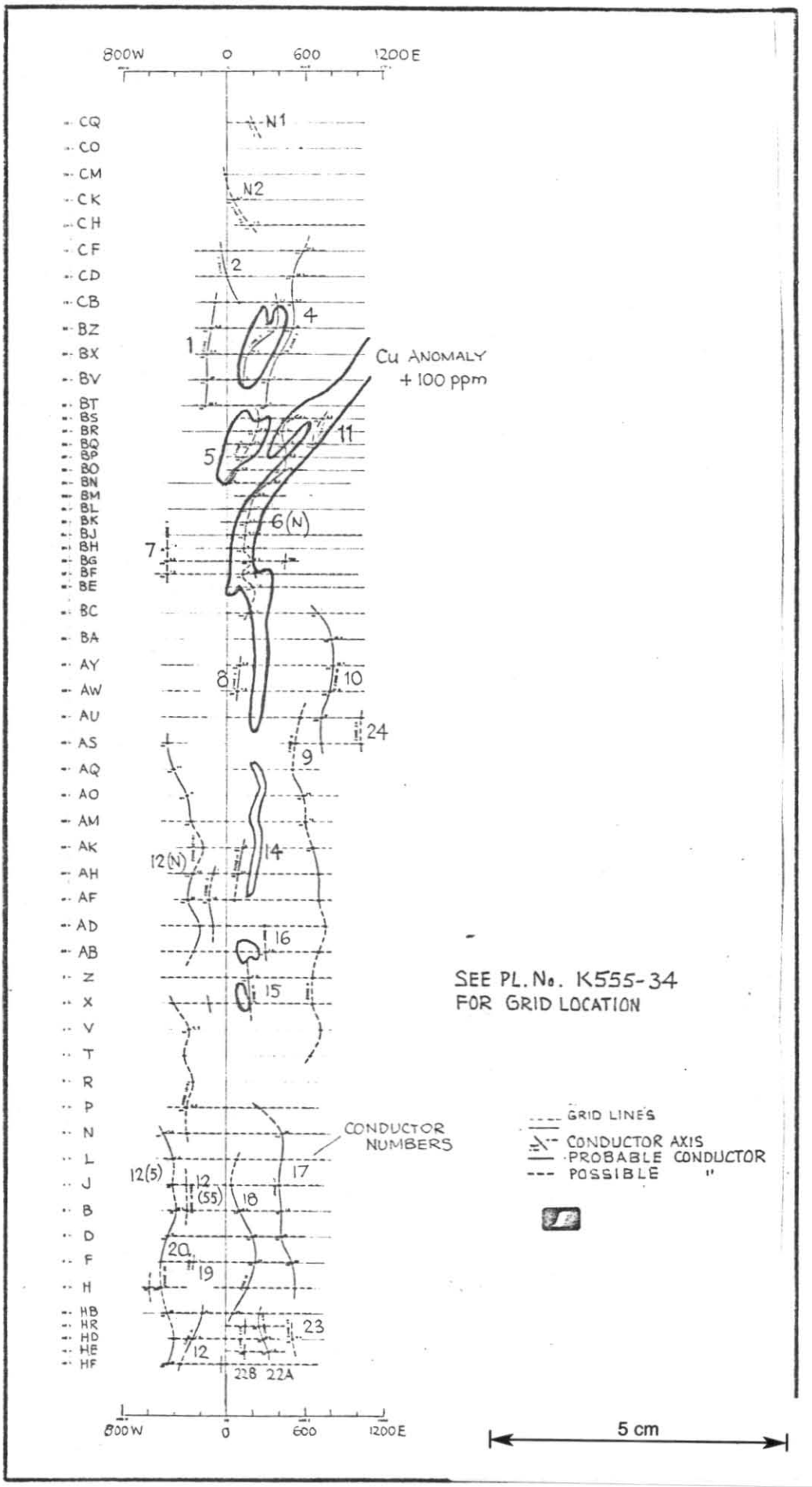
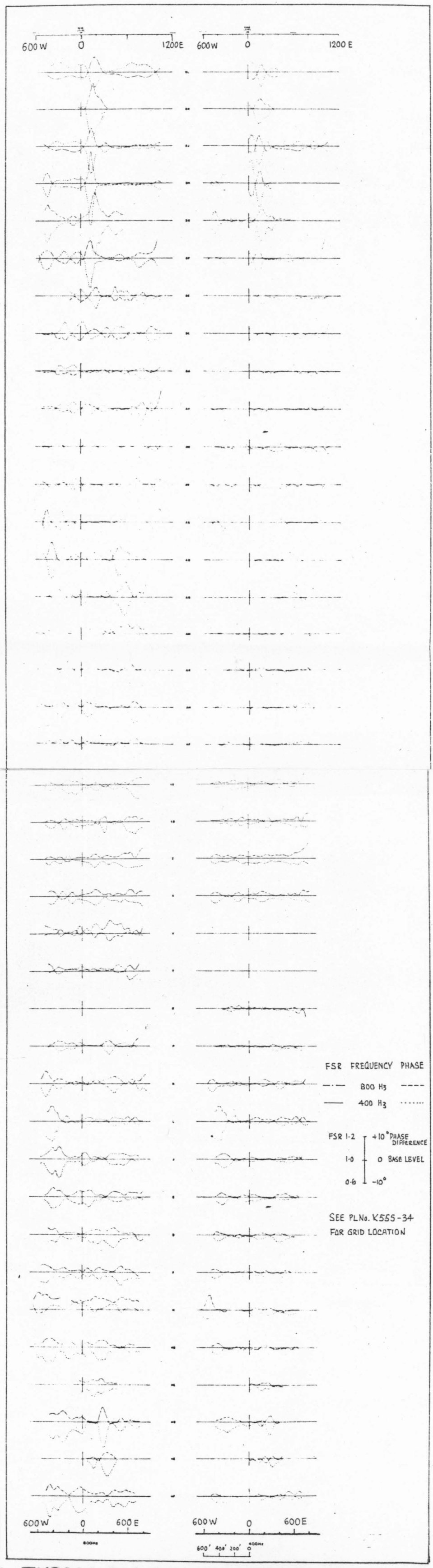


FIG. 28 TURAM EM SURVEY - CONDUCTOR AXIS AND Cu ANOMALIES BMR GRID

930124



5 cm

FIG. 29A TURAM EM SURVEY DATA PROFILES
SOUTHERN LINES BMR GRID

930125

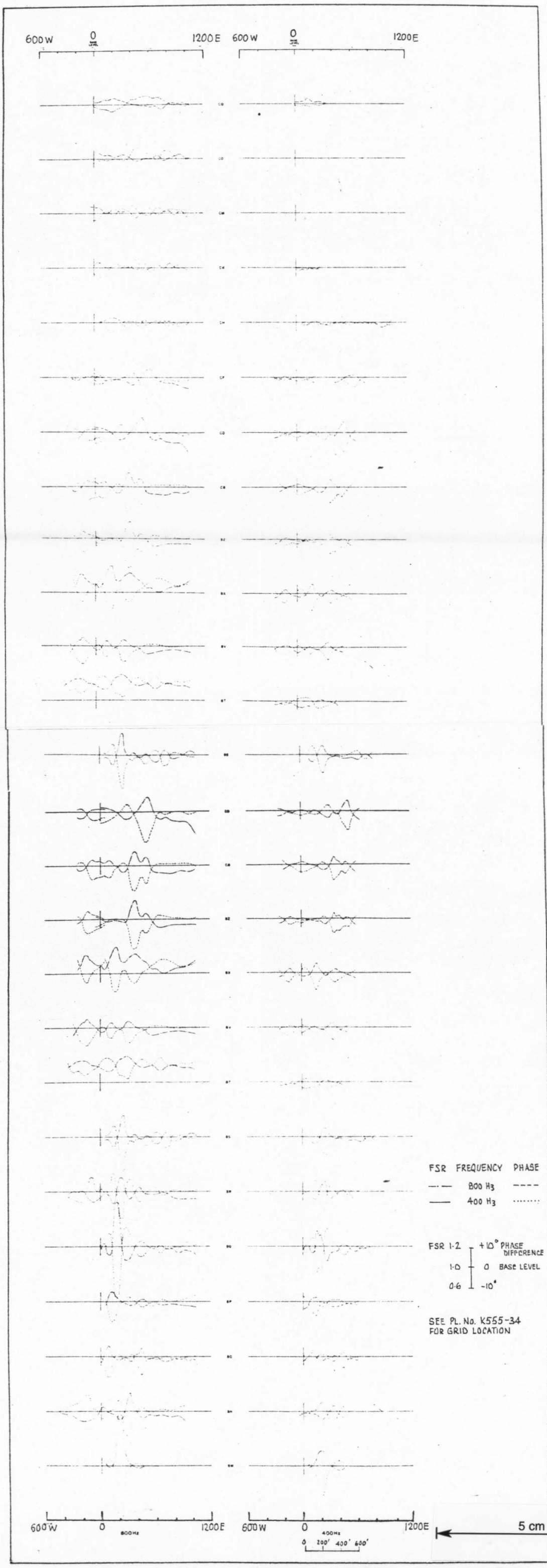
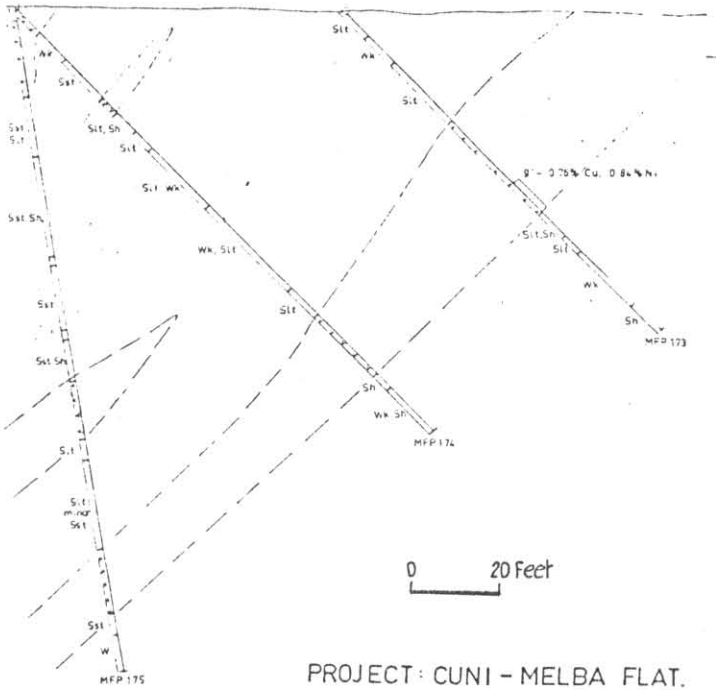


FIG. 29B TURAM EM SURVEY DATA PROFILES
NORTHERN LINES BMR GRID

930126

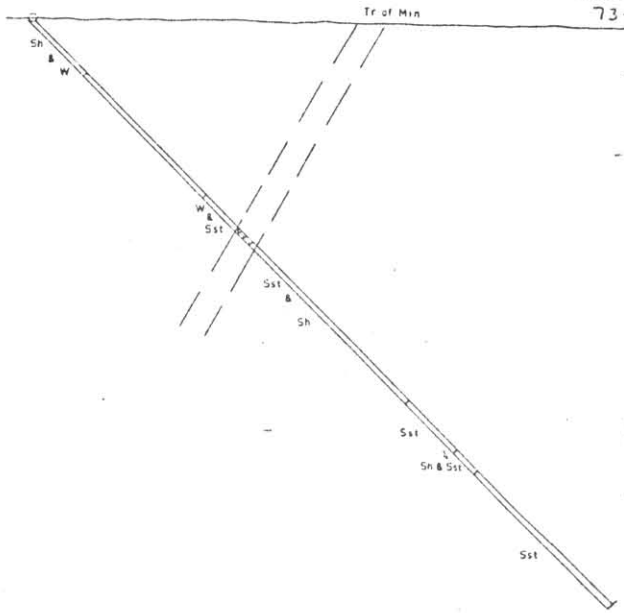
PLATE 5.
73-940



PROJECT: CUNI - MELBA FLAT.
SECTION SHOWING
DRILLHOLES MFP 173, 174, 175.
Date 10/72.

Sh SHALE
Sst SANDSTONE
Slt SILTSTONE
W WACKE
Py PYRITE
DOLERITE

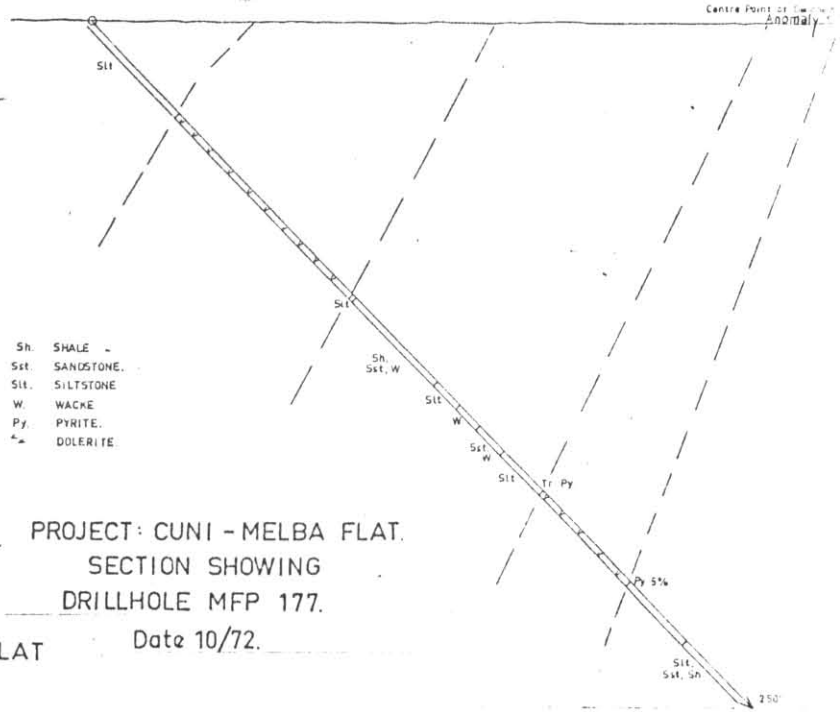
PLATE 6.
73-940



PROJECT: CUNI - MELBA FLAT
SECTION SHOWING
DRILLHOLE MFP 176.
Date 10/72.

Sh SHALE
Sst SANDSTONE
Slt SILTSTONE
W WACKE
Py PYRITE
DOLERITE

PLATE 7.
73-940



PROJECT: CUNI - MELBA FLAT.
SECTION SHOWING
DRILLHOLE MFP 177.
Date 10/72.

Sh. SHALE
Sst. SANDSTONE.
Slt. SILTSTONE
W. WACKE
Py. PYRITE.
DOLERITE

REFER DRG.No. K555-32 and FIG.9 for hole locations

FIG. 30. 1972-73 DRILLING AT NORTH CUNI

5 cm

930127

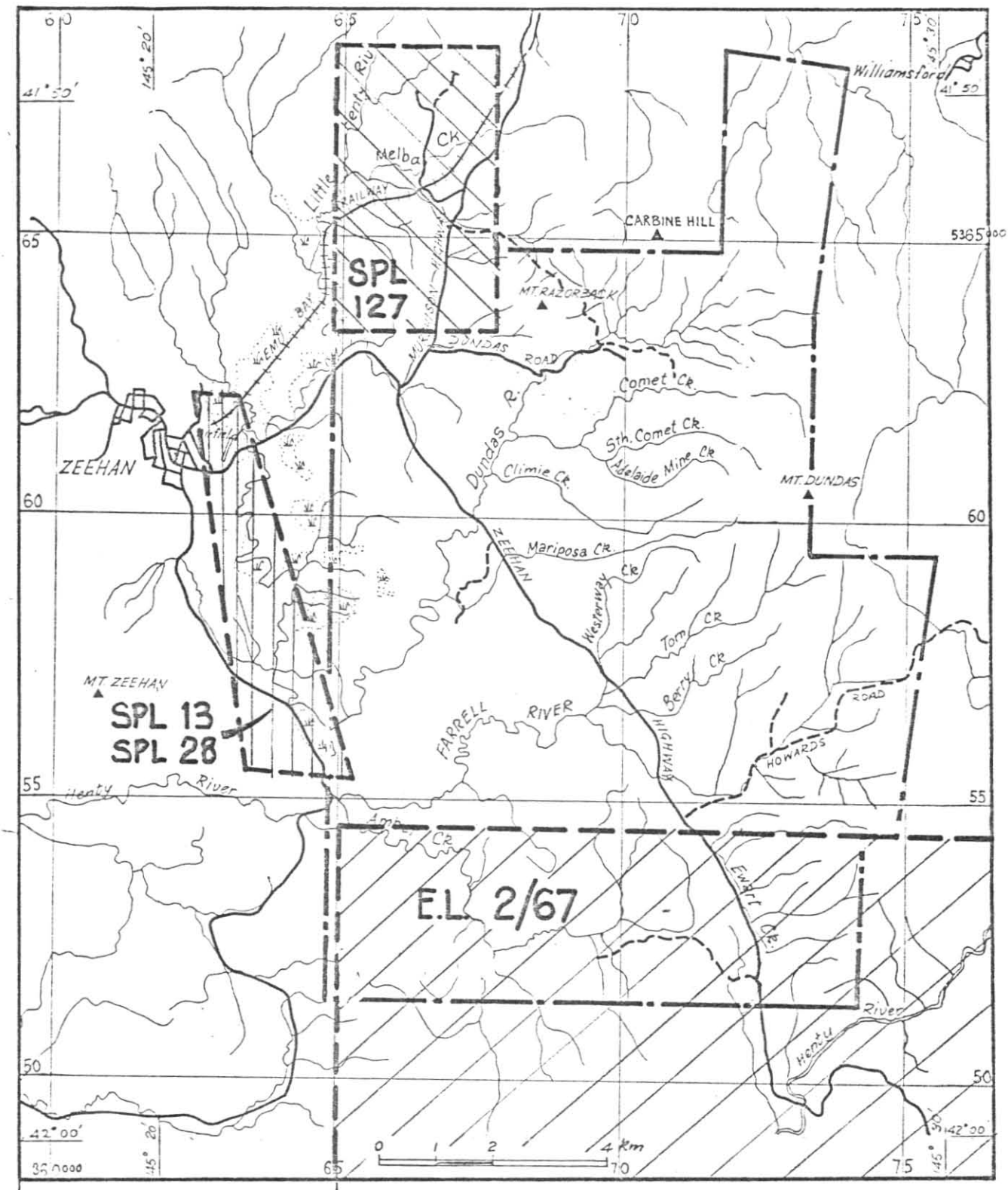


FIG. 31 LOCATION MAP -
E.L. 2/67 (UTAH)
SPL 13 (PLACER) SPL 28 (RENISON)
SPL 127 (L.J.C. SAY)

E.L. 15/76 DUNDAS, TASMANIA

5 cm

930128

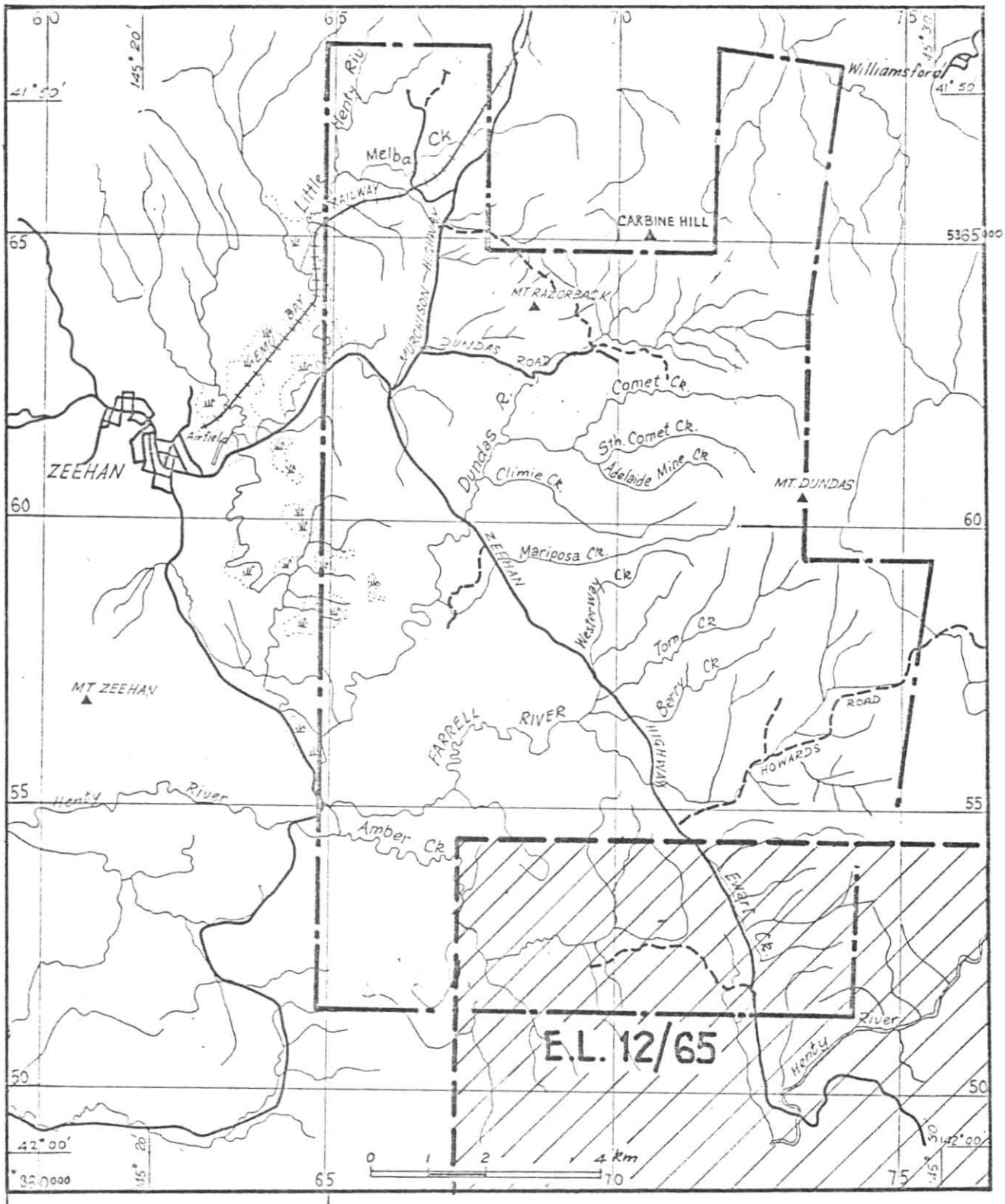


FIG. 32 LOCATION MAP -

E.L. 12/65 (PICKARDS MATHER)

E.L. 15/76 DUNDAS, TASMANIA

5 cm

930129

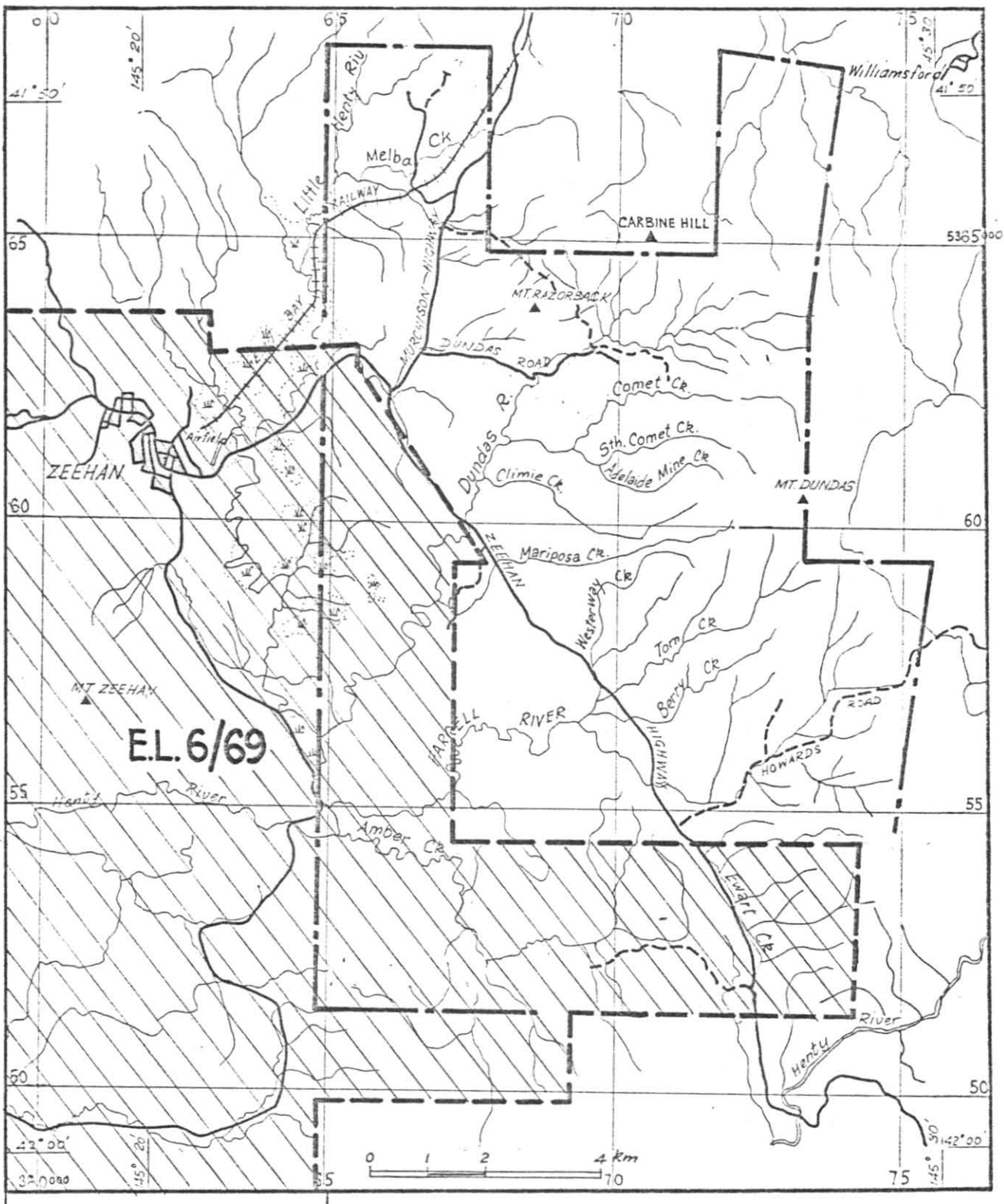


FIG. 33 LOCATION MAP - E.L. 6/69 (A.R. DOBSON)

E.L. 15/76 DUNDAS, TASMANIA

5 cm

930130

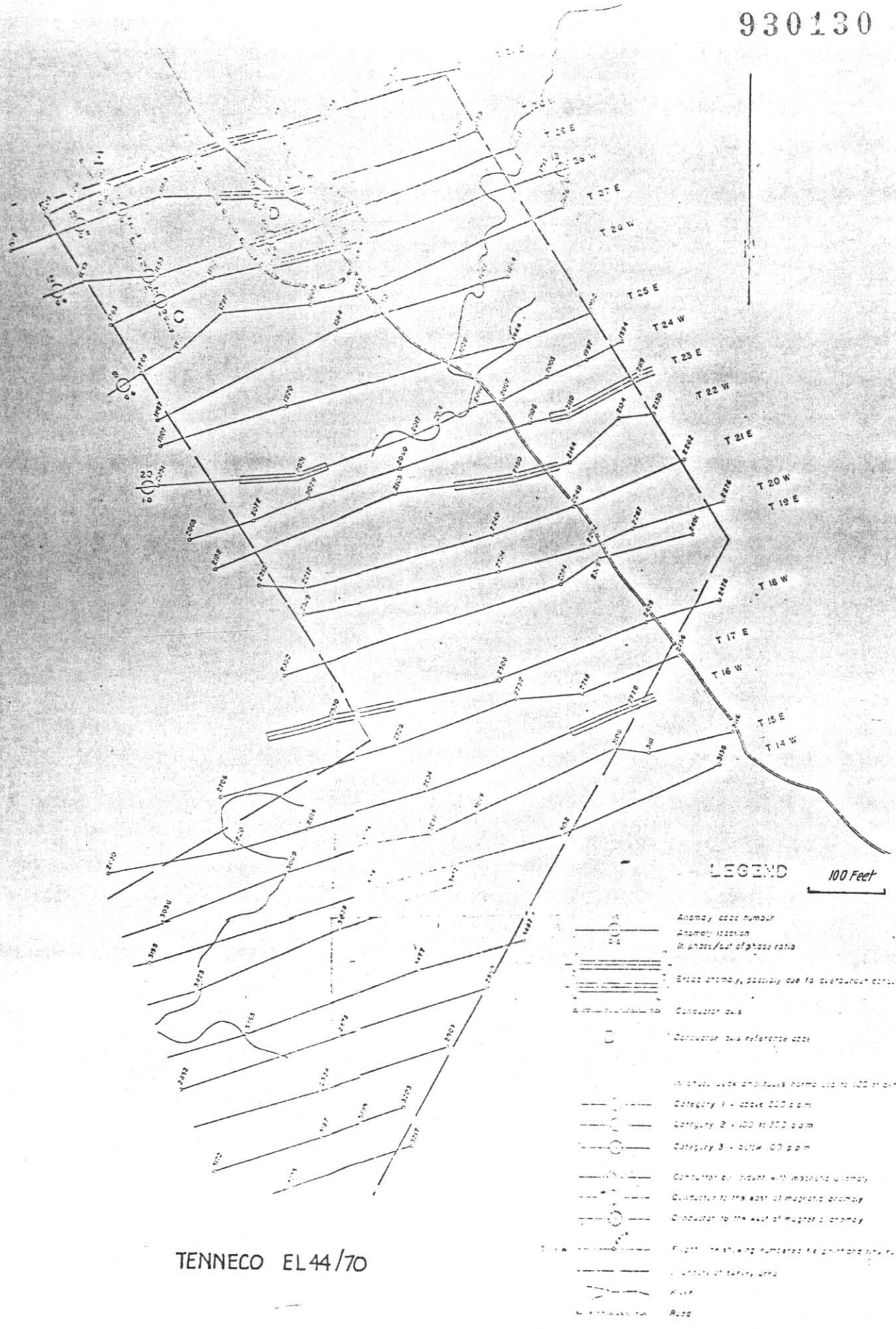


FIG. 34. AIRBORNE EM SURVEY - BLACKJACK AREA

5 cm

930131

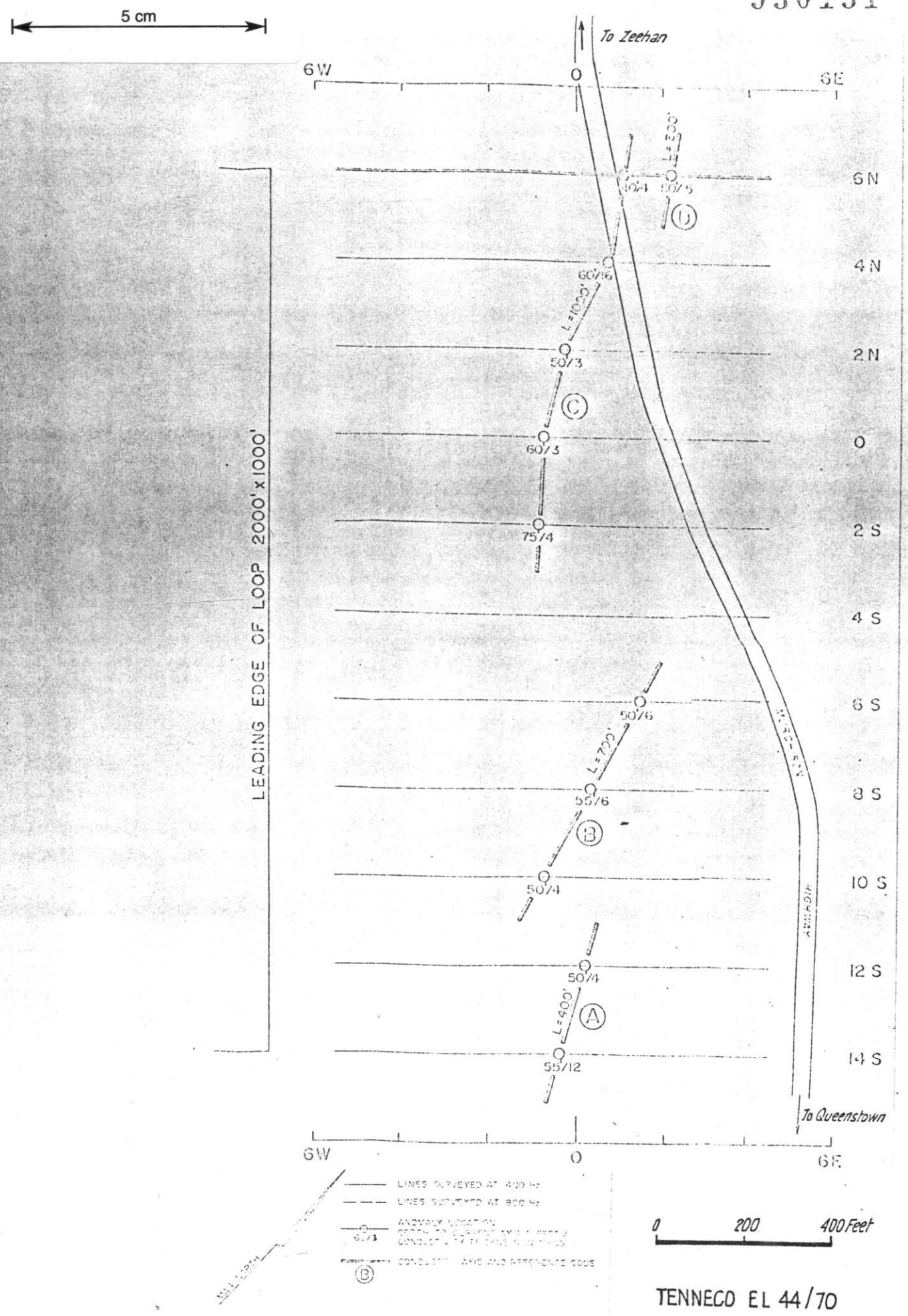


FIG. 35. GROUND TURAM EM SURVEY - BLACKJACK GRID

930132

TENNECO EL 44/70

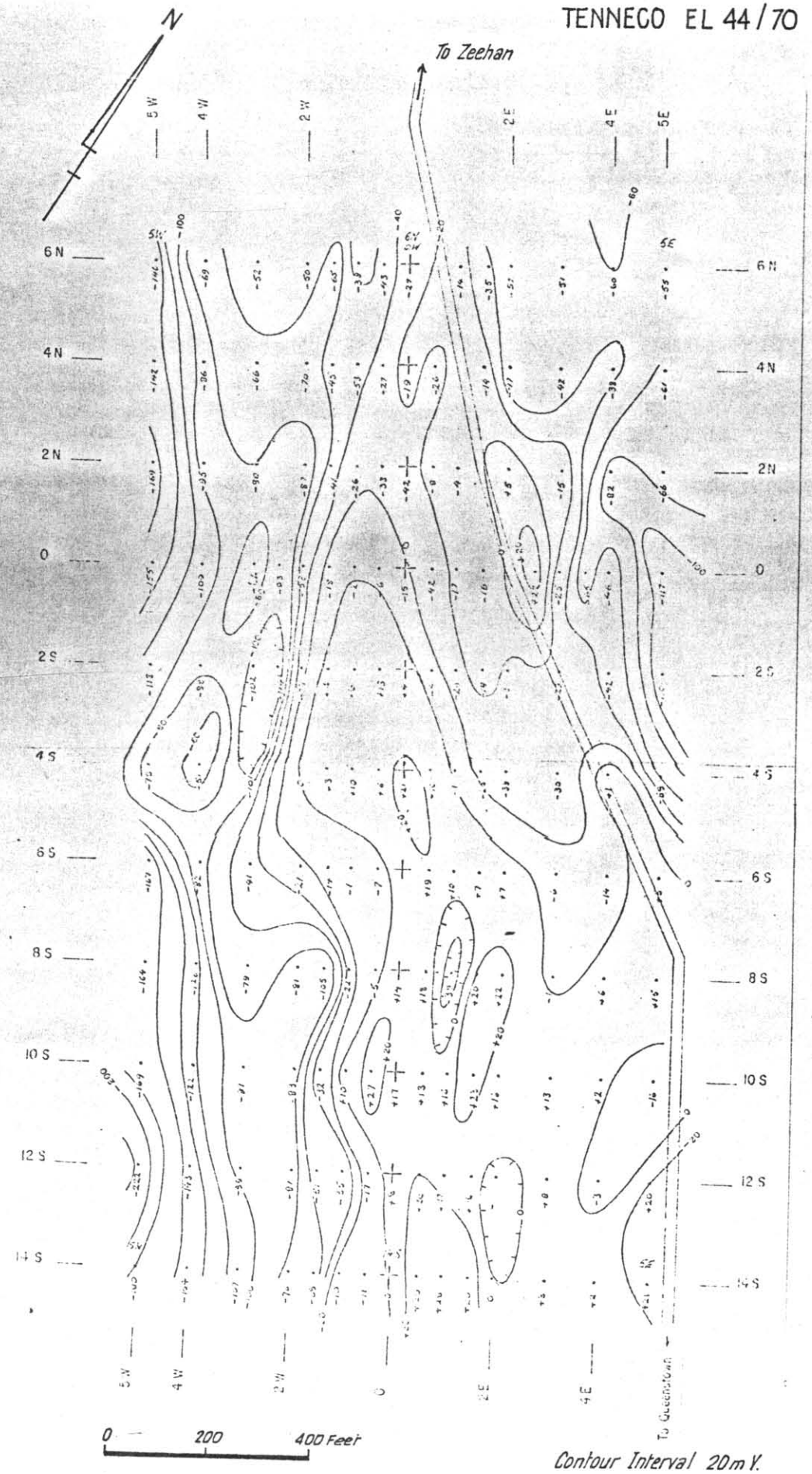
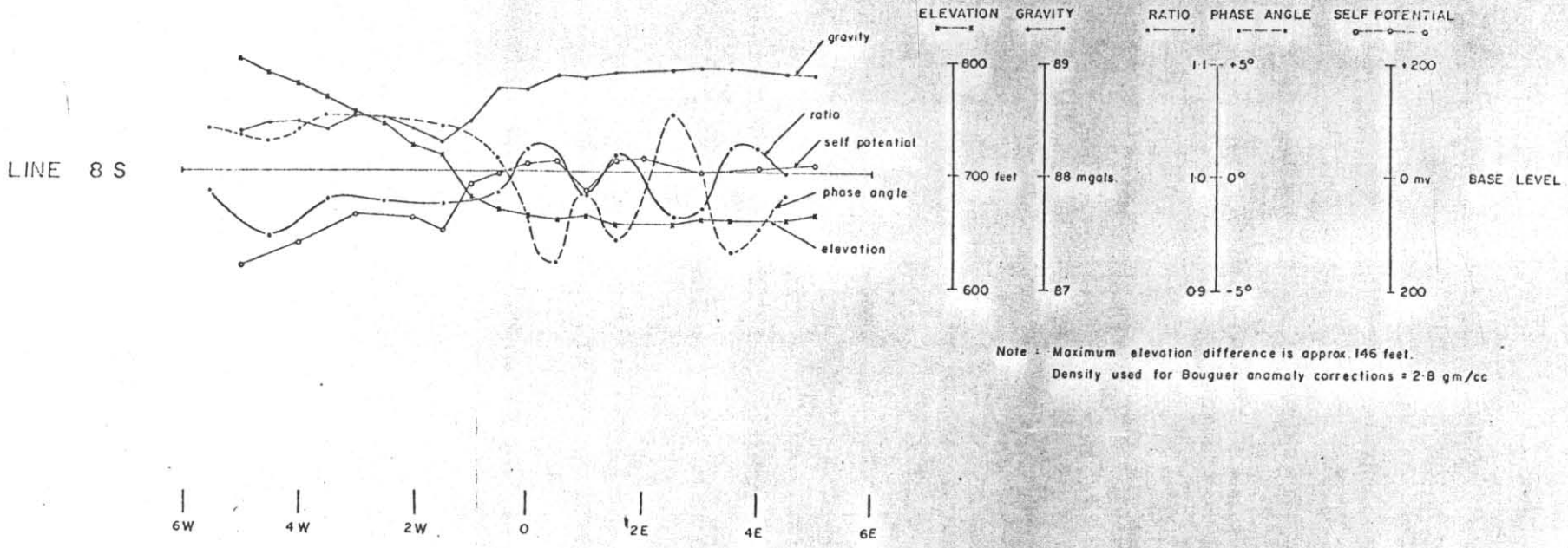


FIG. 36. SELF POTENTIAL SURVEY - BLACKJACK GRID

5 cm

TENNECO EL 44/70



Note : Maximum elevation difference is approx. 146 feet.
Density used for Bouguer anomaly corrections = 2·8 gm/cc

BLACKJACK AREA

FIG. 37. RELATIONSHIP BETWEEN GRAVITY, S.P. & EM SURVEY RESULTS

5 cm

930433

930134

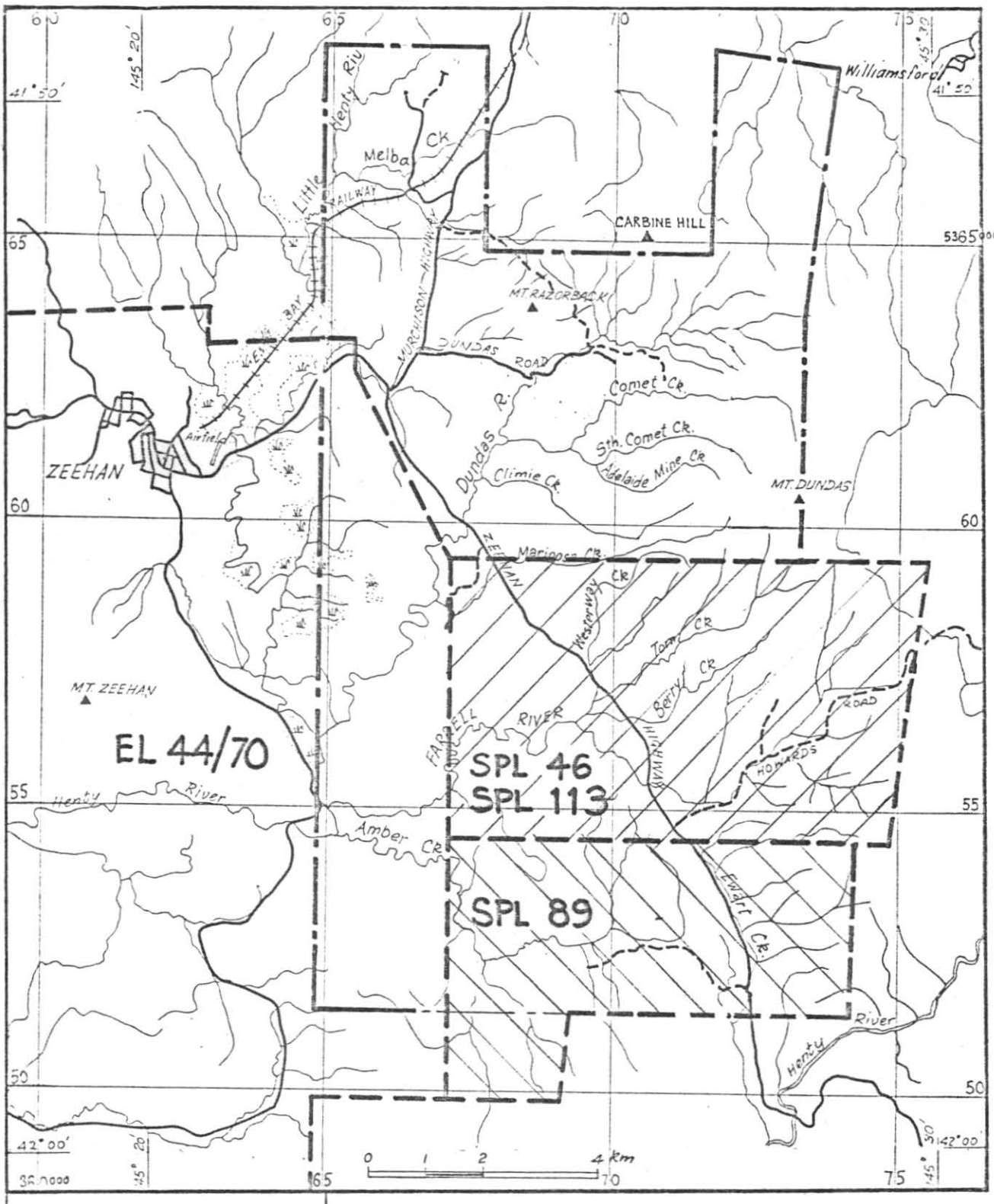


FIG. 38 LOCATION MAP -
E.L. 44/70 (A.R. DOBSON)
S.P.L. 89 (TEKINS)
S.P.L. 46 (McINTYRE)
S.P.L. 113 (TEKINS)
E.L. 15/76 DUNDAS, TASMANIA

5 cm

930135

GRID NORTH

VALUES IN P.P.M. Cu
Zn
Pb

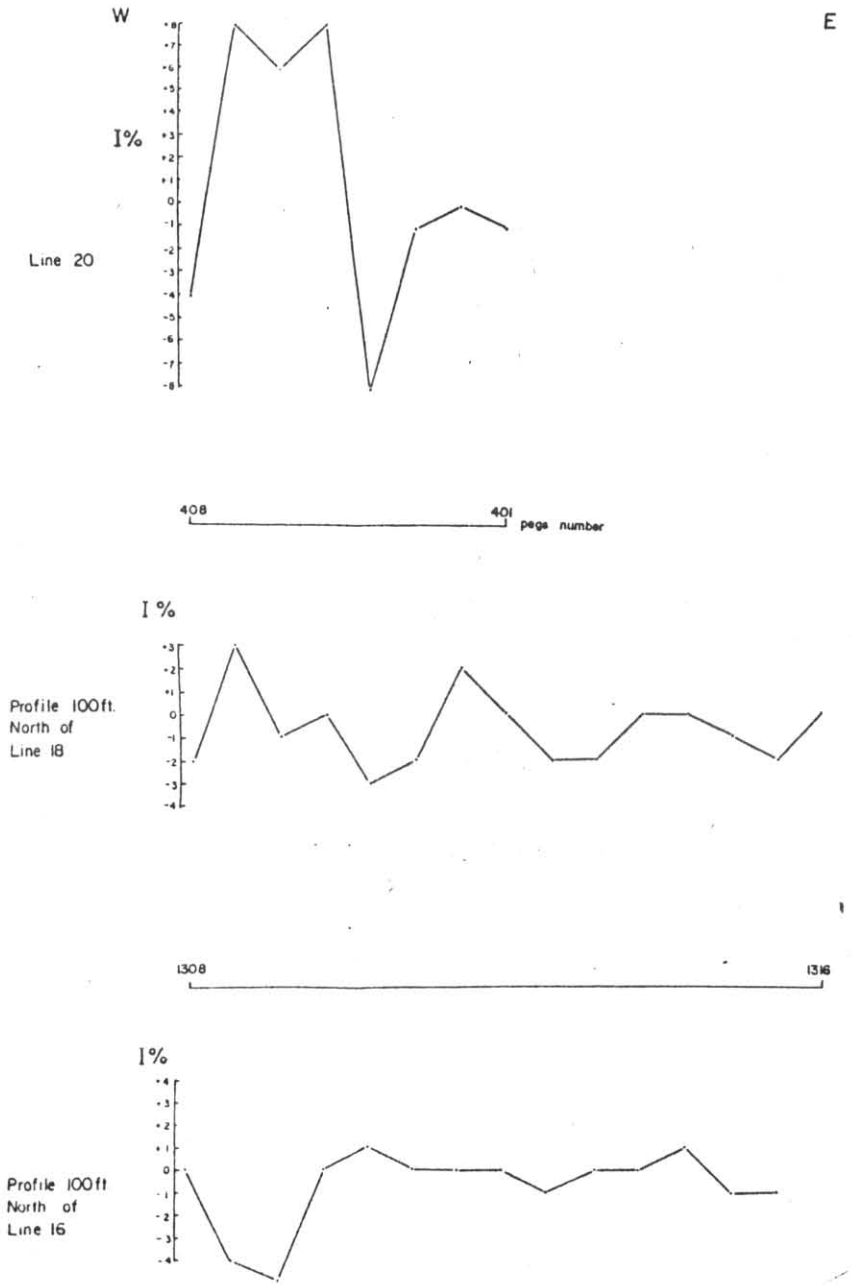
5 cm

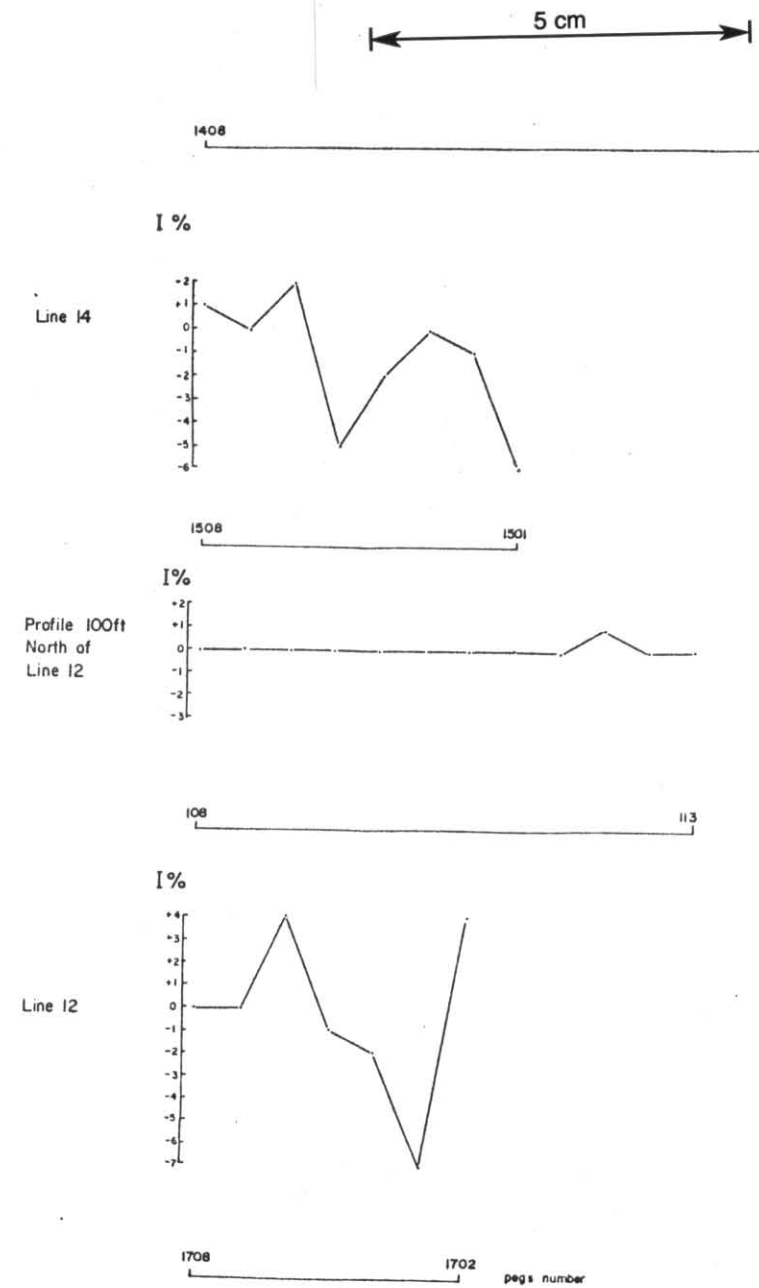
BOUNDARY S.P.L. 46

SCALE 1 : 10 000

SEE PLAN No. K555-35
FOR LOCATION

FIG. 39 RESAMPLING OF DRAINAGE ANOMALY
McINTYRE MINES AREA S.E. OF S.P.L. 46



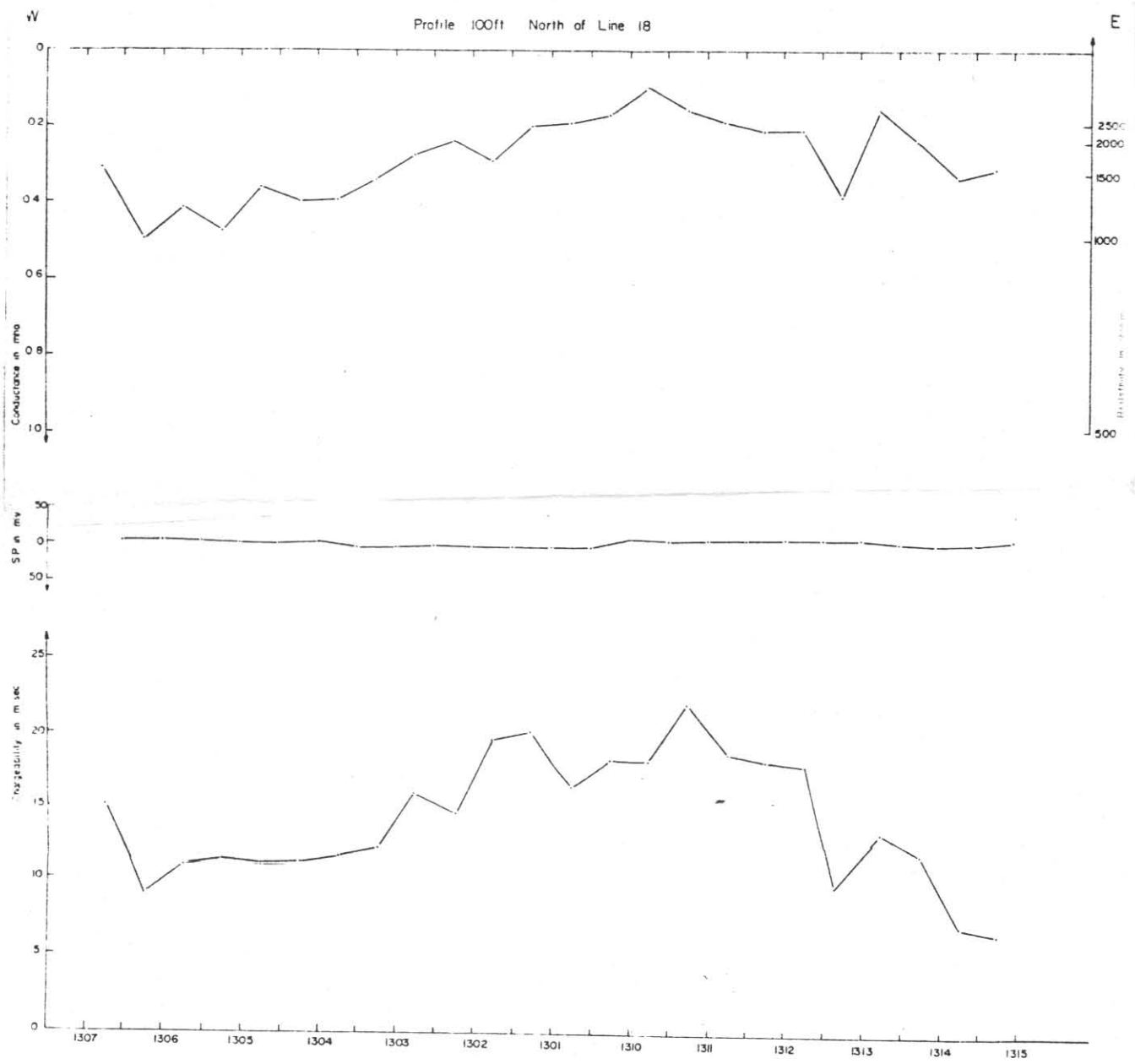


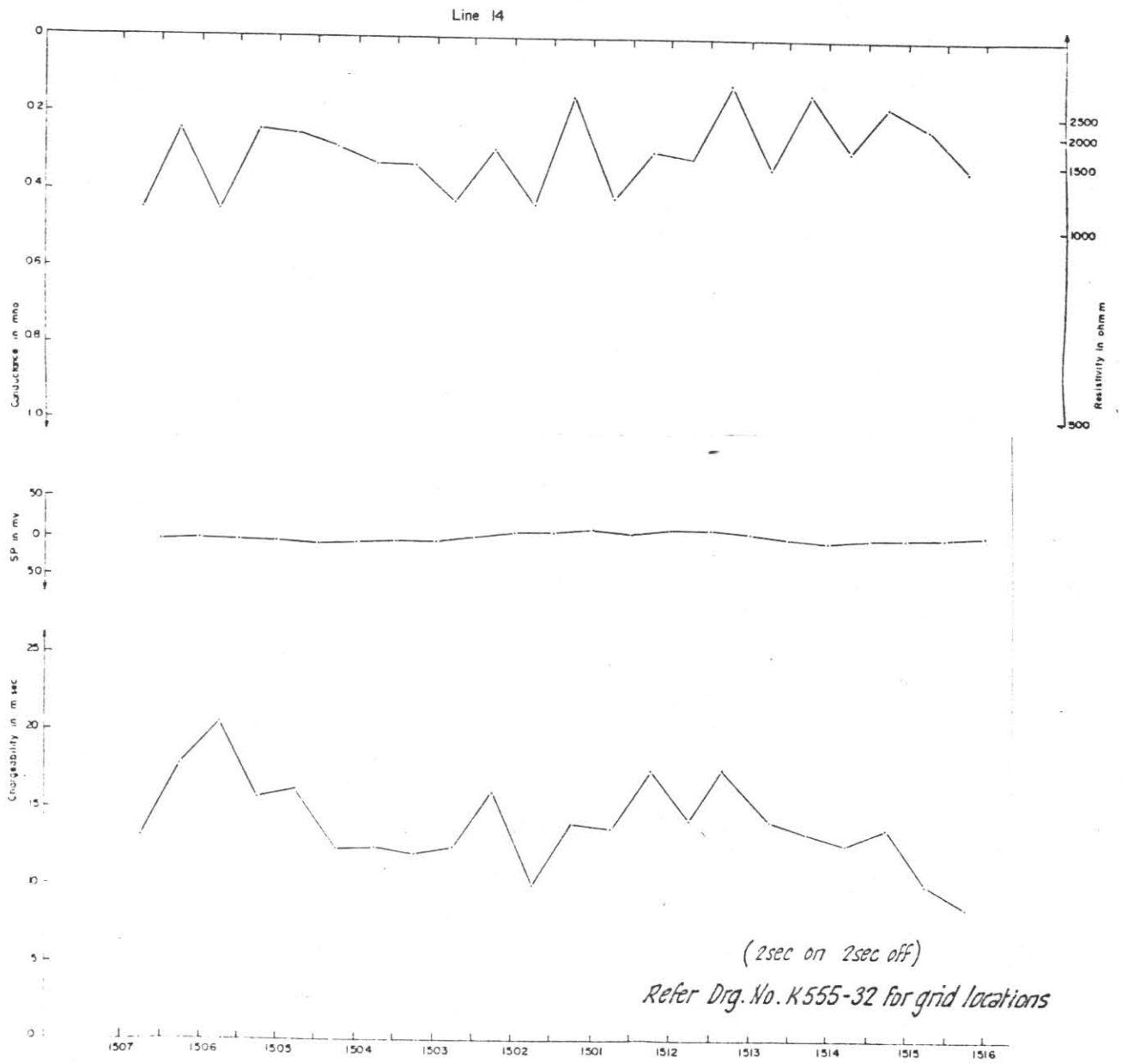
100 Feet between vertical coils Frequency 440 Hz.
Refer Drg. No. K555-32 for grid locations

930136

FIG.40 ANOMALY 1 GRID- EM GUN PROFILES - Imaginary Component

930137





(2sec on 2sec off)

Refer Drg. No. K555-32 for grid locations

FIG. 41 ANOMALY 1 GRID - APPARENT RESISTIVITY APPARENT CHARGEABILITY & S.P. PROFILES

5 cm

93013S

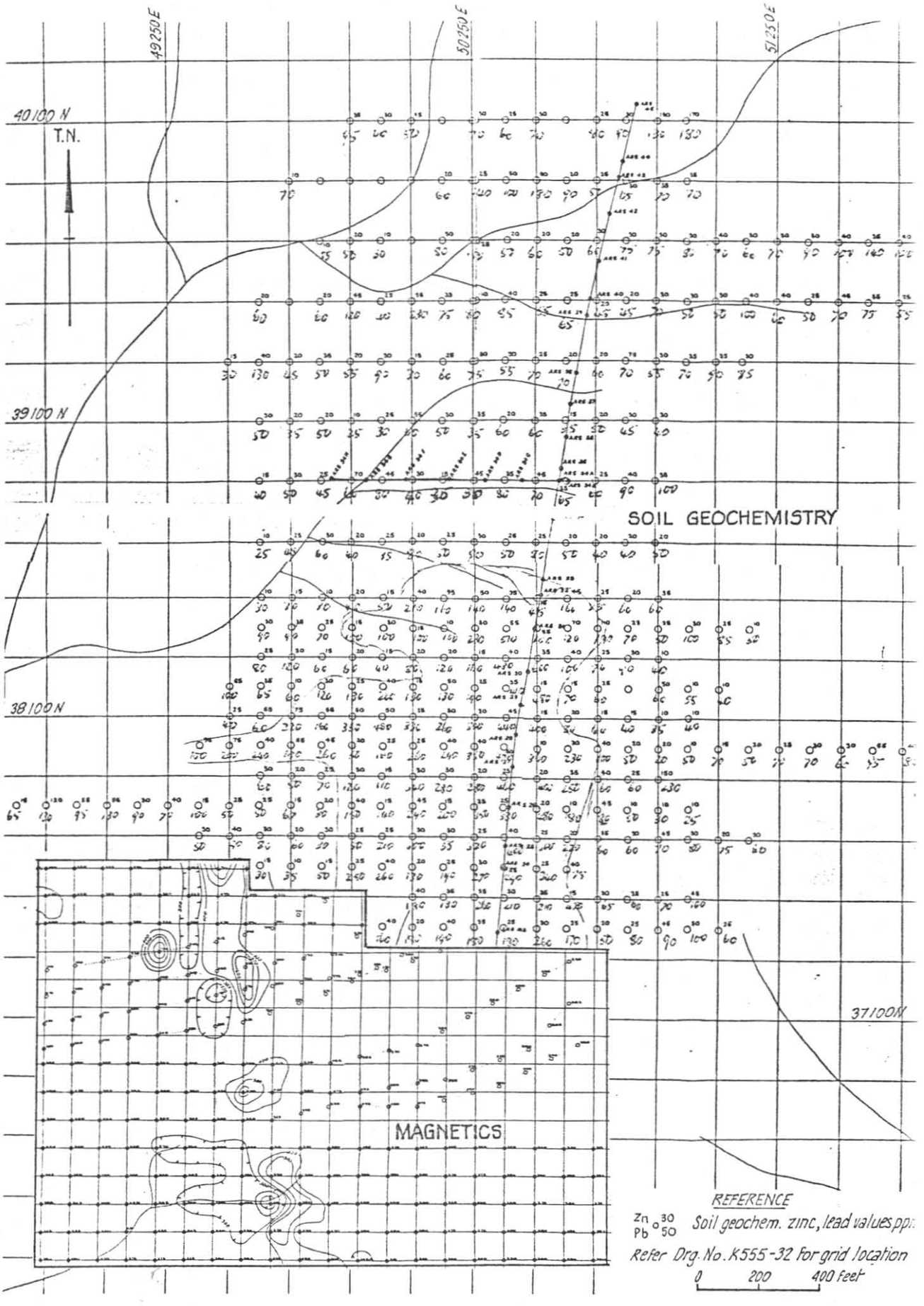
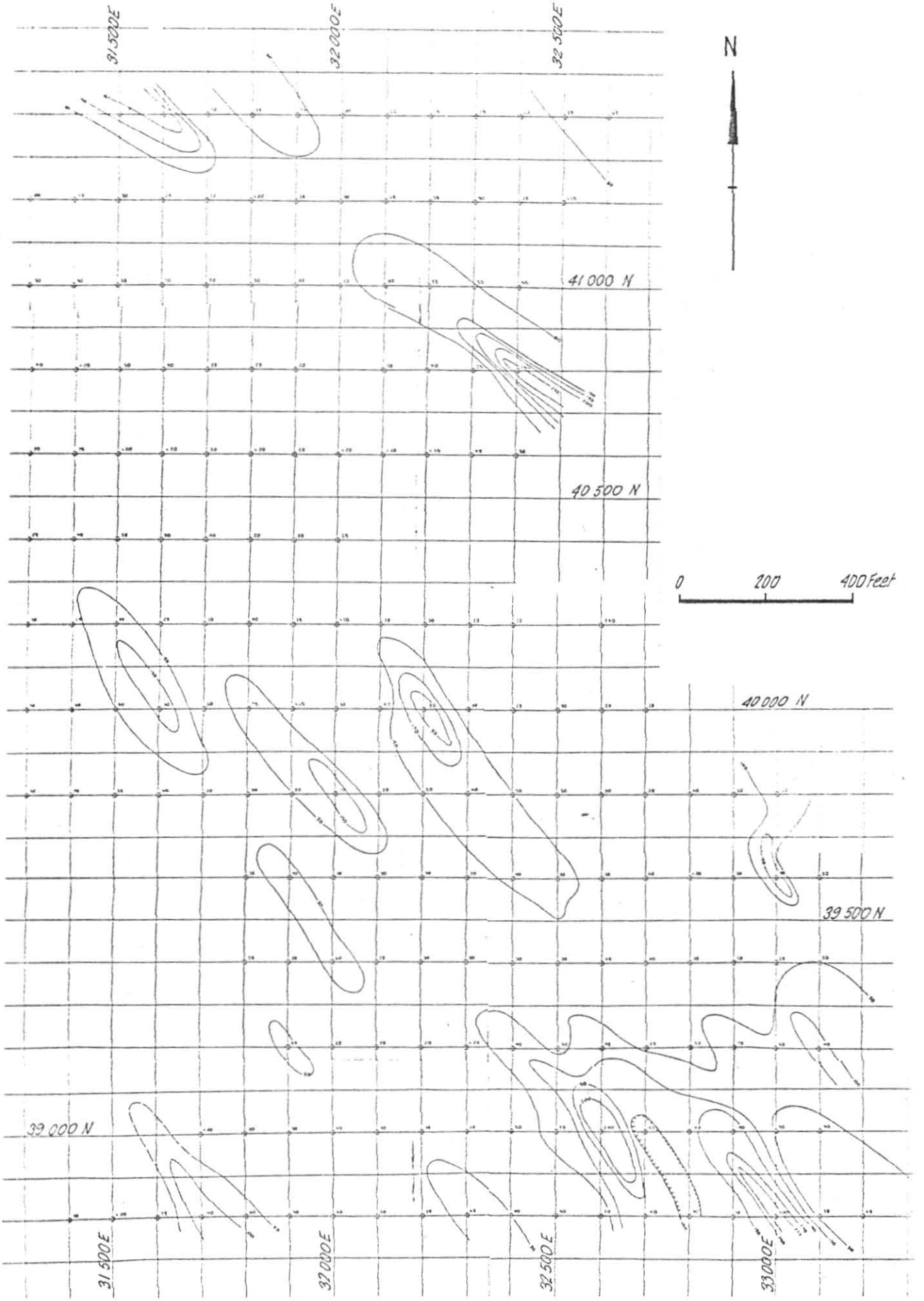


FIG. 42. SOIL GEOCHEMISTRY Pb, Zn & MAGNETIC ANOMALIES - ANOMALY 1 GRID, Mc INTYRE MINES

5 cm

930139



Refer Fig 44 and Drg. No. K555-32 for grid location

FIG. 43. SOIL LEAD VALUES - MARIPOSA - Mc. INTYRE MINES

5 cm

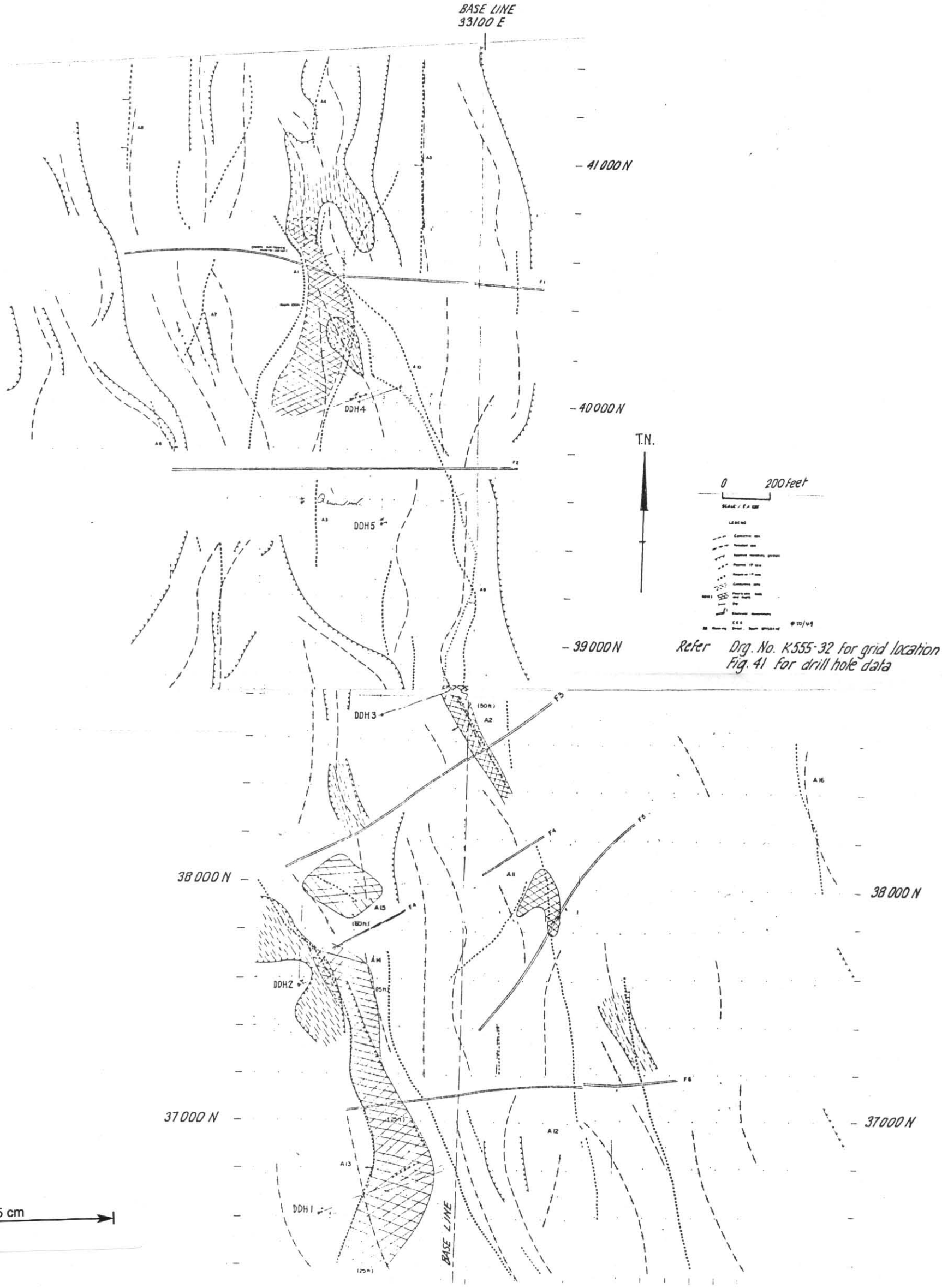
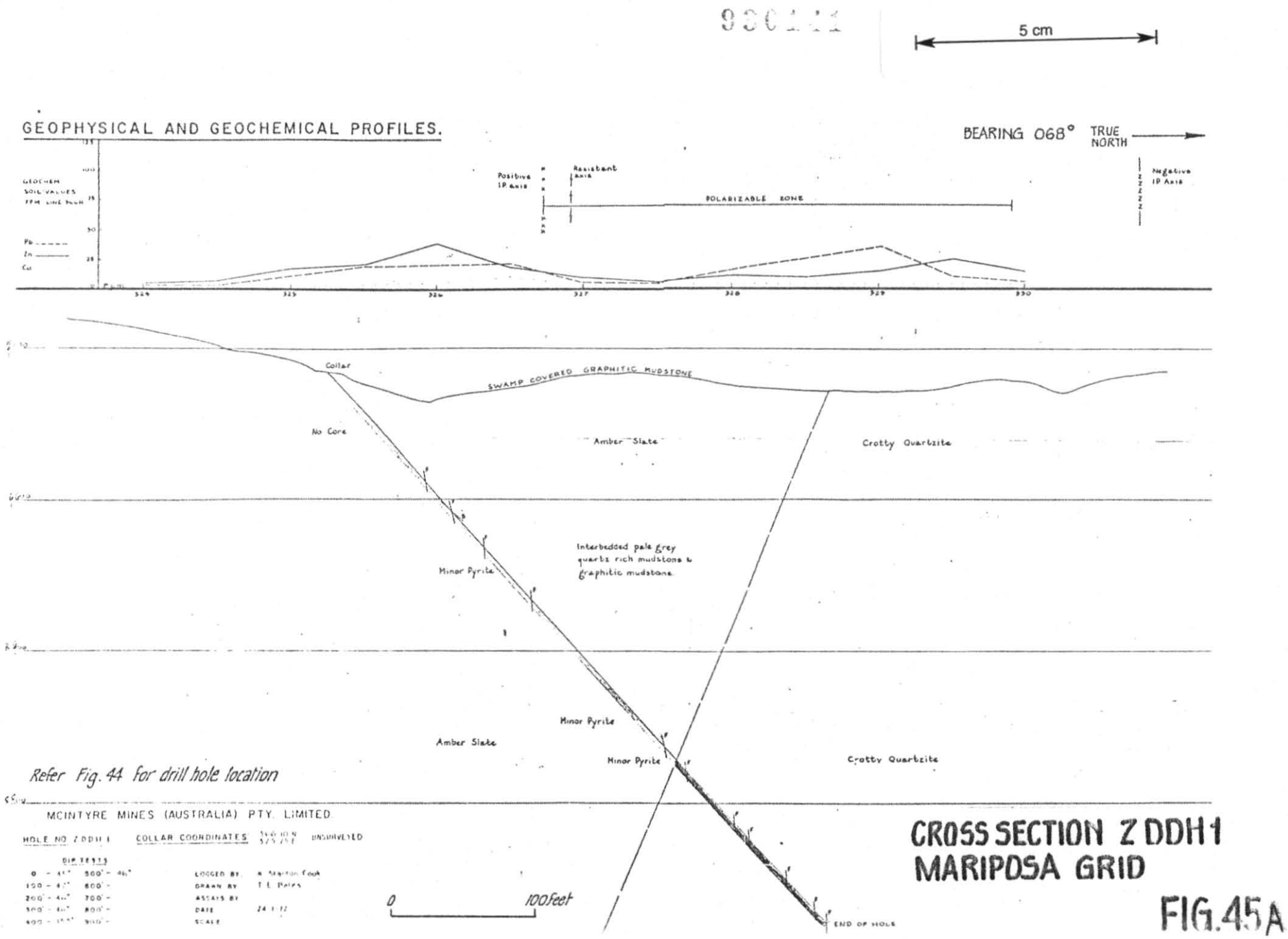


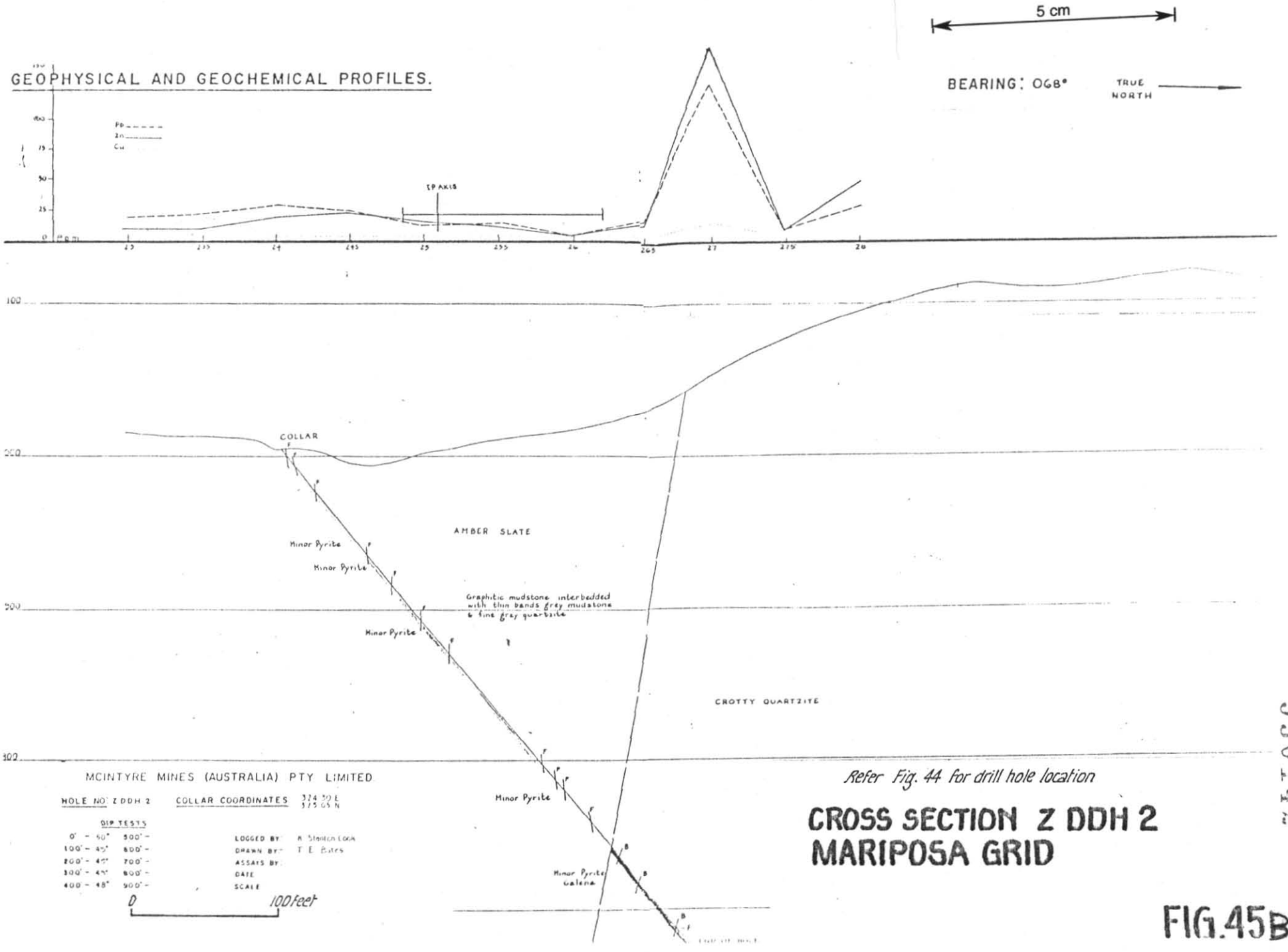
FIG. 44. RESULTS OF I.P. SURVEY - MARIPOSA GRID, Mc INTYRE MINES

930140



CROSS SECTION Z DDH1
MARIPOSA GRID

FIG.45A


5 cm
GEOPHYSICAL AND GEOCHEMICAL PROFILES.
BEARING: 068°
TRUE NORTH
Pb
Zn
Cu
EP AXIS
100
COLLAR
AMBER SLATE
Minor Pyrite
Minor Pyrite
Graphitic mudstone interbedded with thin bands grey mudstone & fine grey quartzite
Minor Pyrite
CROTTY QUARTZITE
Minor Pyrite
Minor Pyrite
Galena
MCINTYRE MINES (AUSTRALIA) PTY LIMITED
HOLE NO: Z DDH 2
COLLAR COORDINATES 324.50 E 325.05 N
DIP TESTS
0' - 50° 500' -
100' - 45° 600' -
200' - 45° 700' -
300' - 45° 800' -
400' - 48° 900' -
LOGGED BY: R. Stanton (GGA)
DRAWN BY: T. E. Bates
ASSAYS BY:
DATE
SCALE
0
100 feet
Refer Fig. 44 for drill hole location
CROSS SECTION Z DDH 2
MARIPOSA GRID
FIG.45B
930443

5 cm

930143

DIAMOND DRILL HOLE CROSS SECTION

GEOPHYSICAL AND GEOCHEMICAL PROFILES.

BEARING: 068° TRUE NORTH

Positive IP Axis

Resistant axis

Positive IP Axis

Polarizable Zone

COLLAR

CROTTY QUARTZITE

Grey phyllitic mudstone (Shale member Crotty Quartzite)

Calcareous pink stained quartz sandstone

Pink & grey coarse grained Quartzite

Fine grained pale grey quartzite many thin bands graphitic shale

CROTTY QUARTZITE

FAULT ?

5-10% Pyrite

GORDON LIMESTONE

Minor Galena Sharp Contact

Grey Limestone

CROTTY QUARTZITE

Minor Galena

Silicified Zone (Fault)

Minor Pyrite

Minor Pyrite

MCINTYRE MINES (AUSTRALIA) PTY. LIMITED.

HOLE NO: ZDDH 3 COLLAR COORDINATES: 327'45 E 387'10 N

DIP TESTS

0' - 45°	500' - 40°
100' - 47°	600' - 44°
200' - 47°	700' -
300' - 44°	800' -
400' - 44°	930' -

LOGGED BY: R. Stanton Cook
DRAWN BY: T. L. Bates
ASSAYS BY:
DATE:
SCALE:

0 100 Feet

Refer Fig 44 for hole location

Pb %	Zn %	Cu ppm	Ag oz.
1.5	0.01	38	0.4
0.39	0.01	24	0.3
4.4	0.02	40	0.7

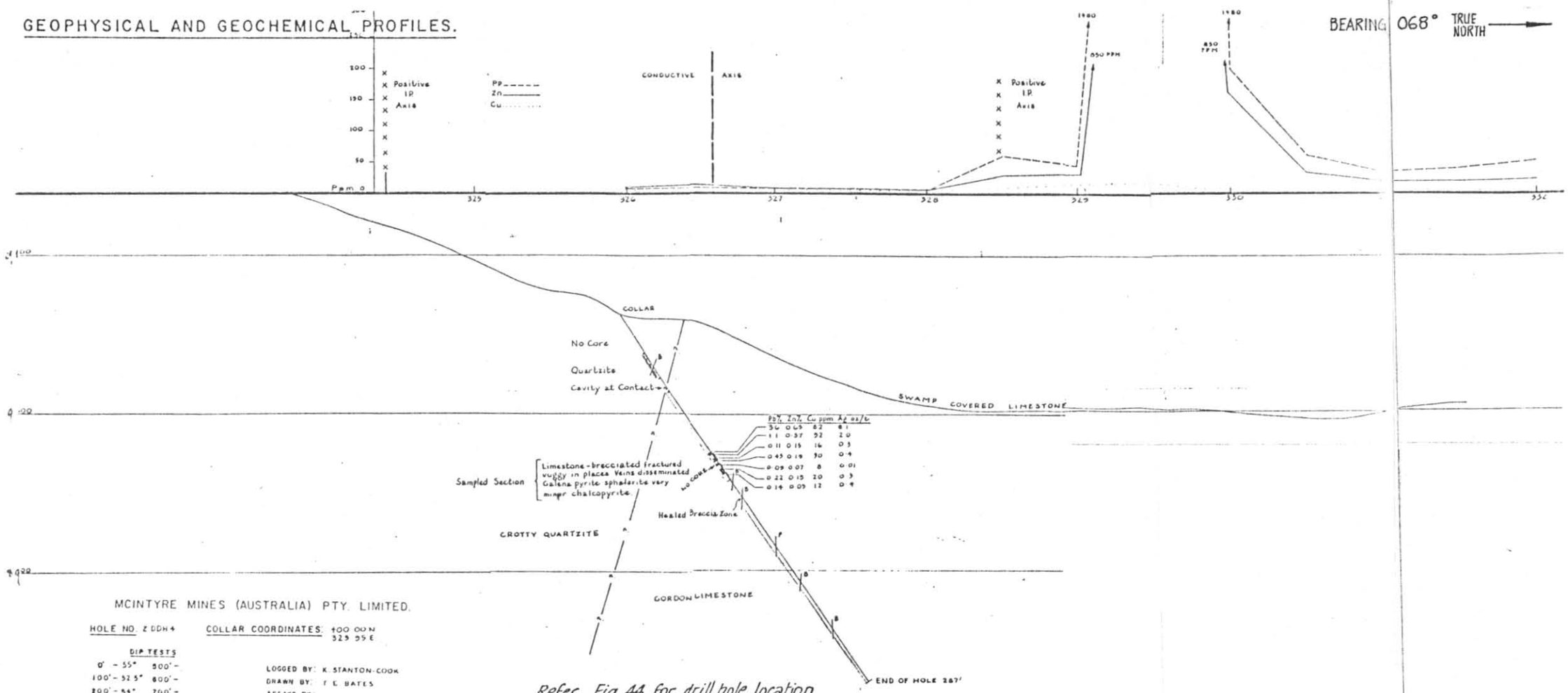
FIG. 45c CROSS SECTION Z DDH3 MARIPOSA GRID

930144

5 cm

GEOPHYSICAL AND GEOCHEMICAL PROFILES.

BEARING 068° TRUE NORTH



MCINTYRE MINES (AUSTRALIA) PTY. LIMITED.

HOLE NO. Z DDH 4

COLLAR COORDINATES: 400 00 N 325 95 E

DIP TESTS

0' – 55°	500' –
100' – 52.5°	600' –
200' – 54°	700' –
300' – 53.5°	800' –
400' –	900' –

LOGGED BY: K. STANTON-COOK
DRAWN BY: T. E. BATES
ASSAYS BY:
DATE: 12 Th February, 1972
SCALE

0 100 feet

Refer Fig. 44 for drill hole location

FIG. 45D CROSS SECTION Z DDH 4 MARIPOSA GRID

930145

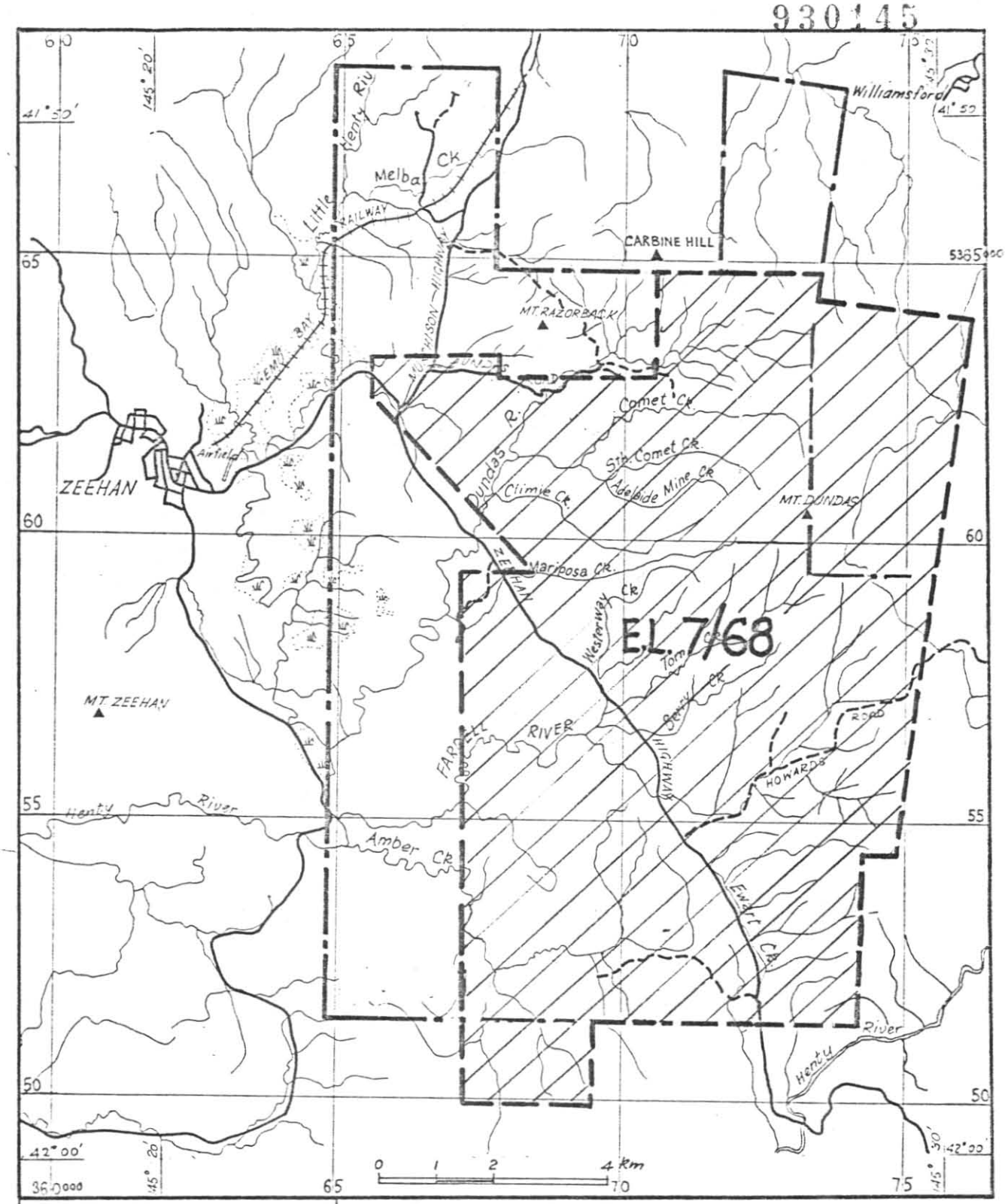


FIG. 46 LOCATION MAP - E.L. 7/68 (GEOPHOTO)

E.L. 15/76 DUNDAS, TASMANIA

5 cm

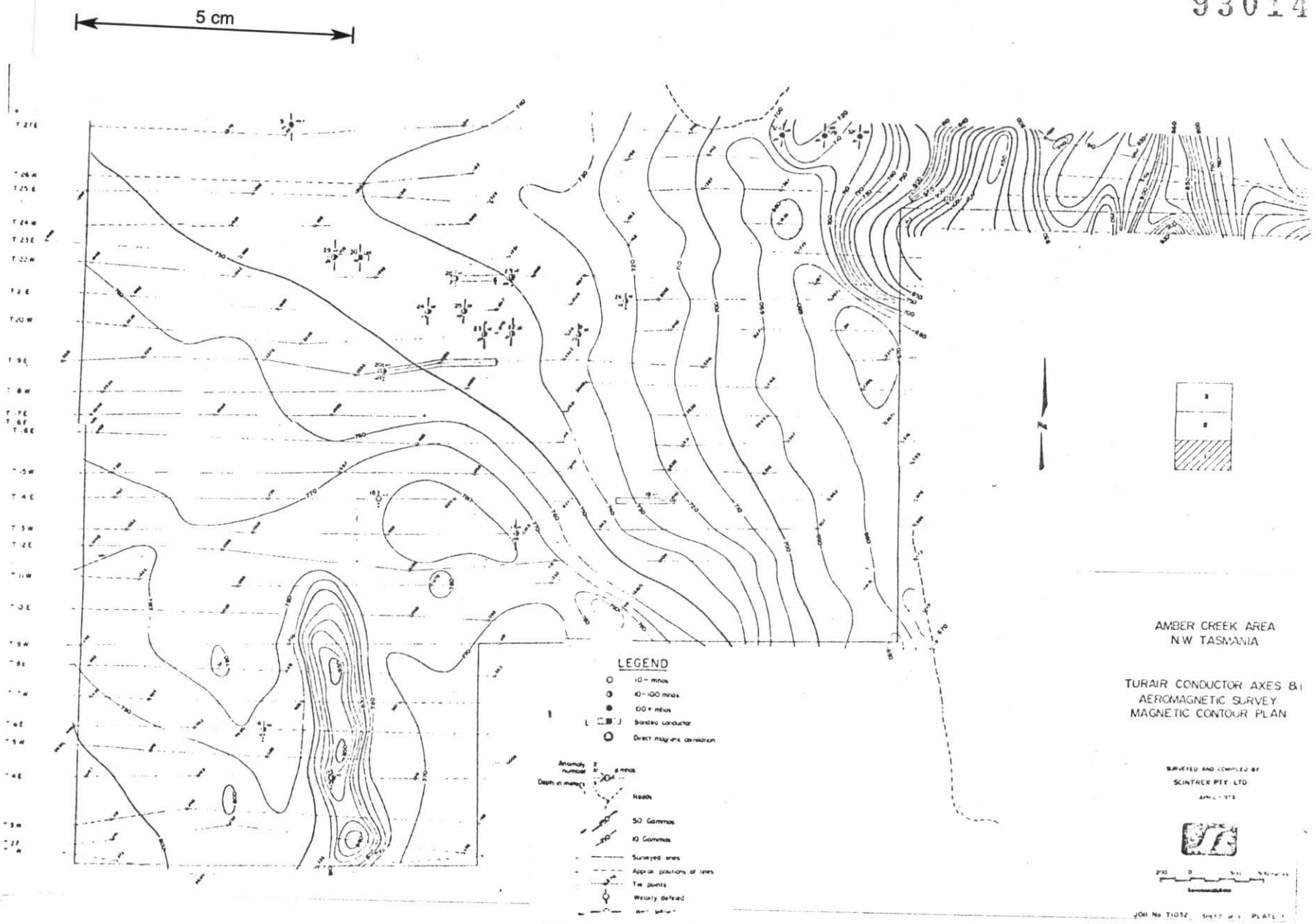


FIG.47 TURAIR CONDUCTOR AXES & MAGNETIC CONTOURS- AMBER CREEK AREA

930147

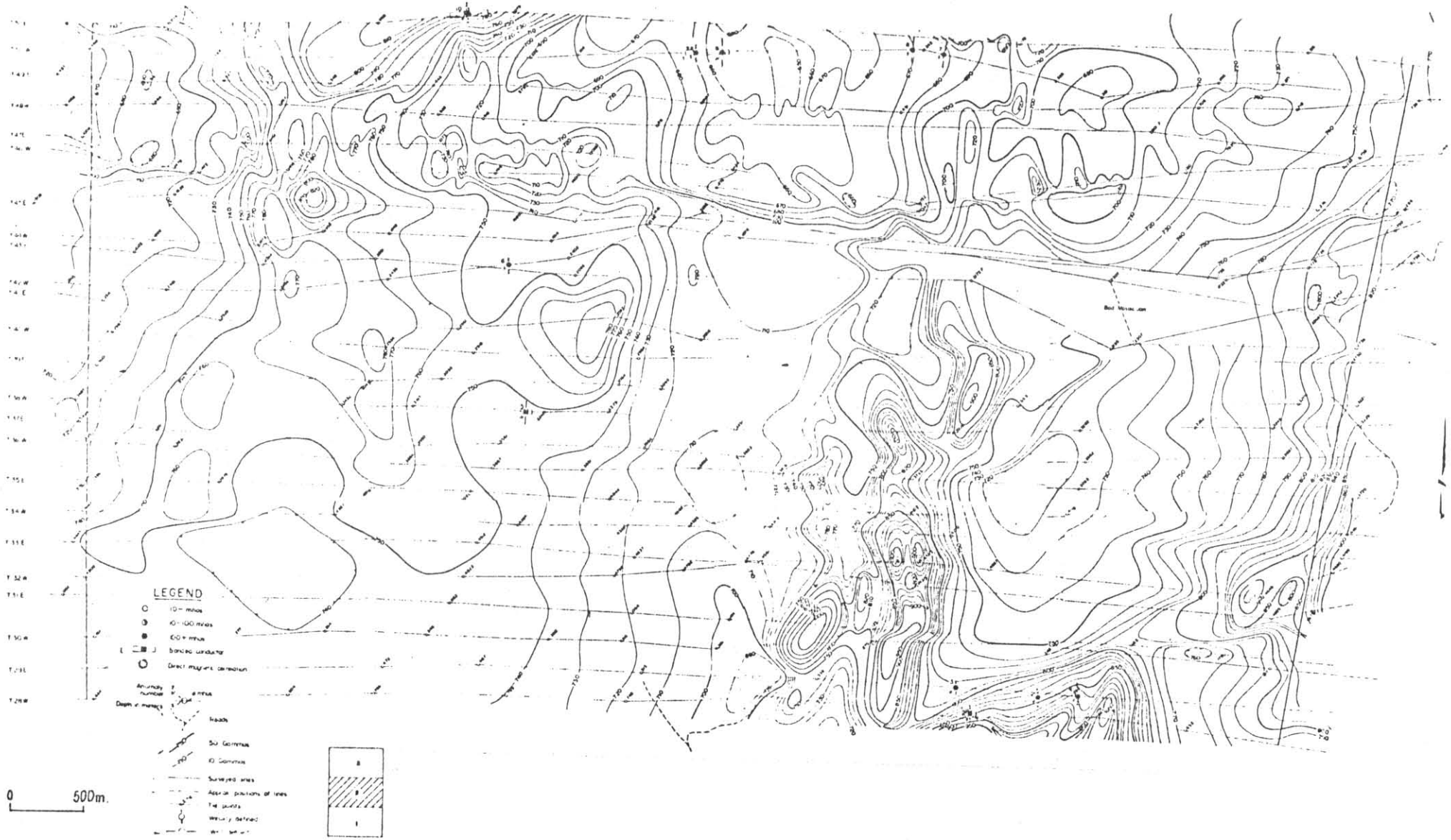


FIG. 48. TURAIR CONDUCTOR AXES & MAGNETIC CONTOURS - Mc INTYRE AREA

930148

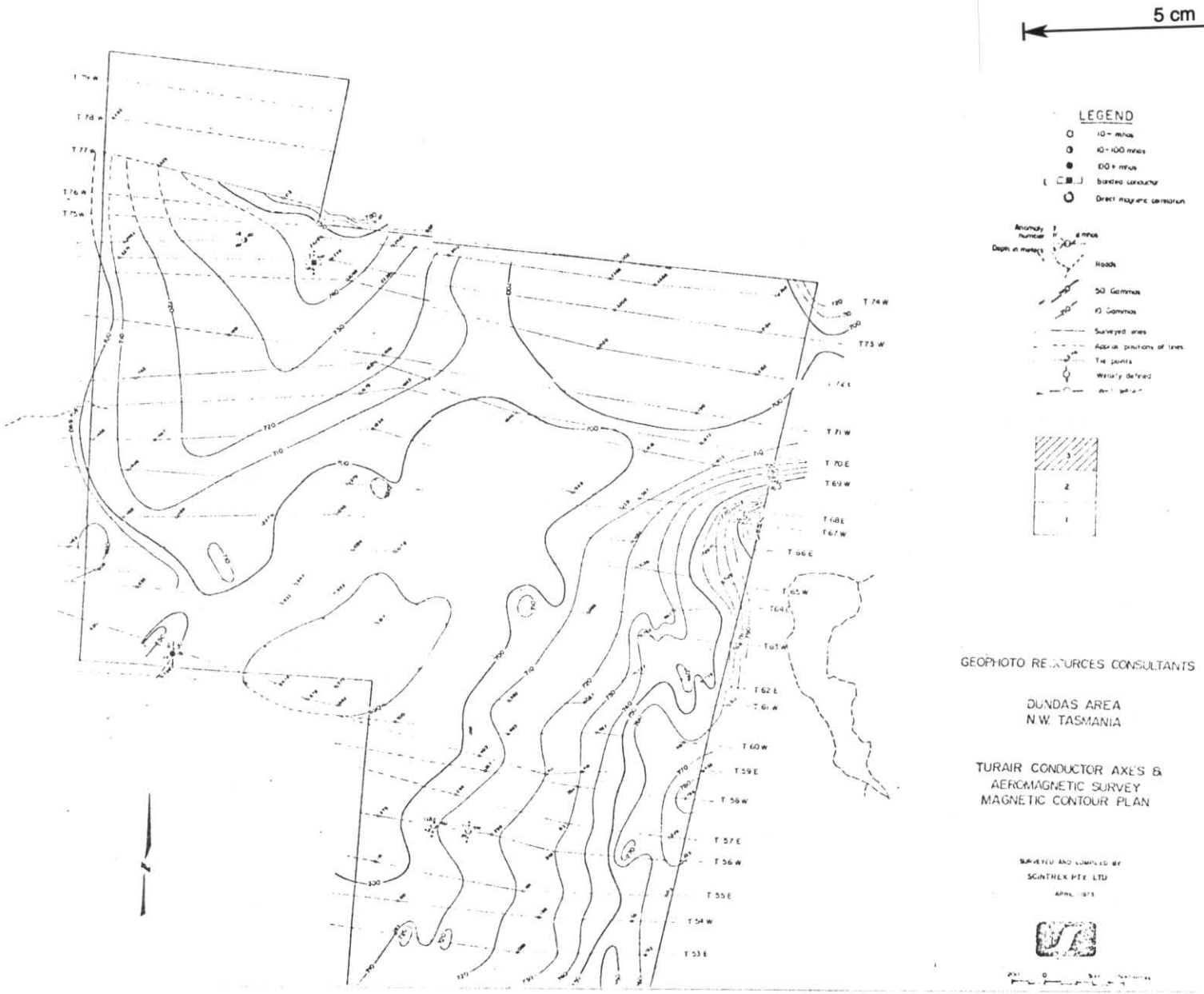


FIG. 49. TURAIR CONDUCTOR AXES & MAGNETIC CONTOURS - DUNDAS AREA

930149

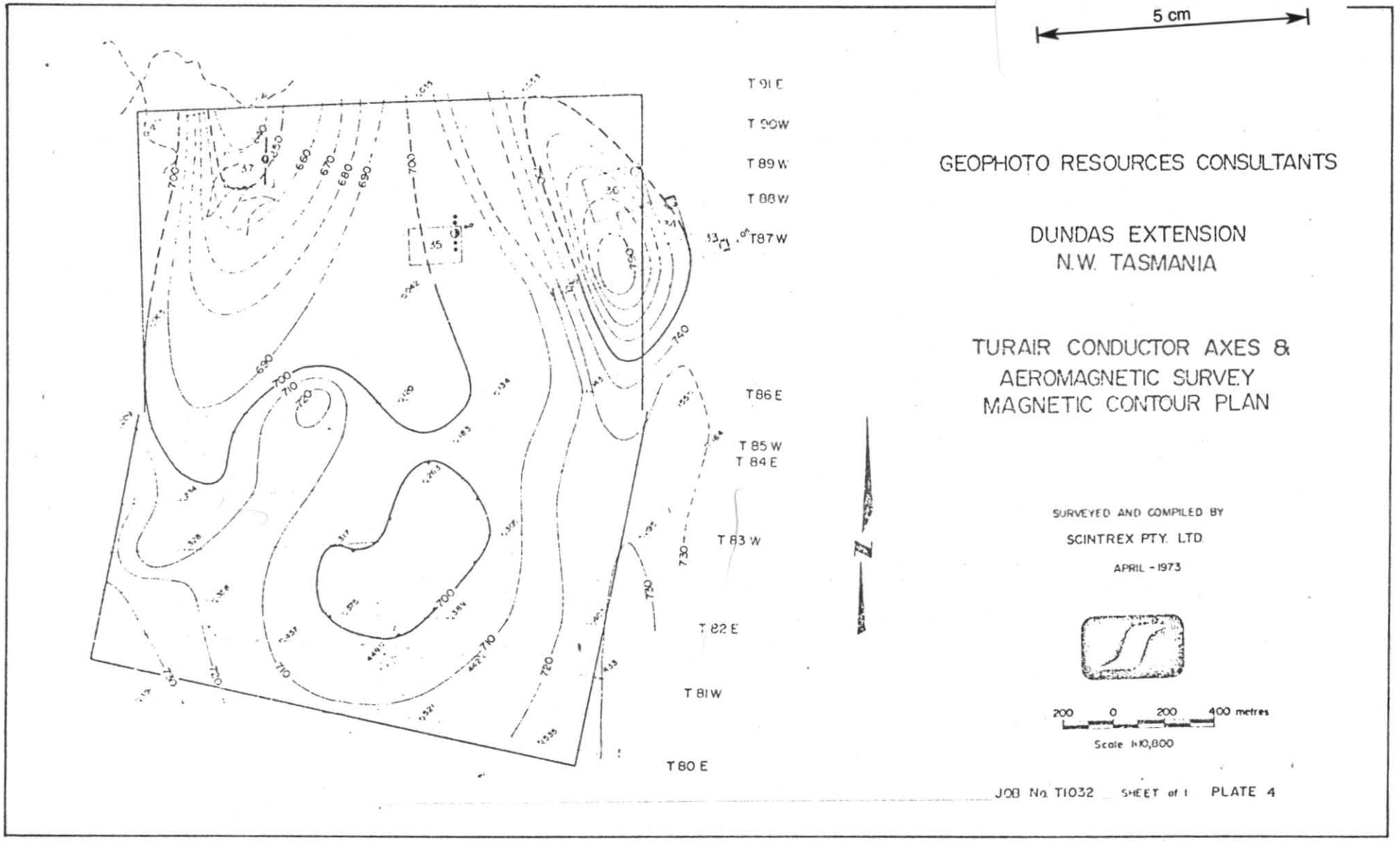


FIG. 50 TURAIR CONDUCTOR AXES & MAGNETIC CONTOURS - DUNDAS EXTENSION

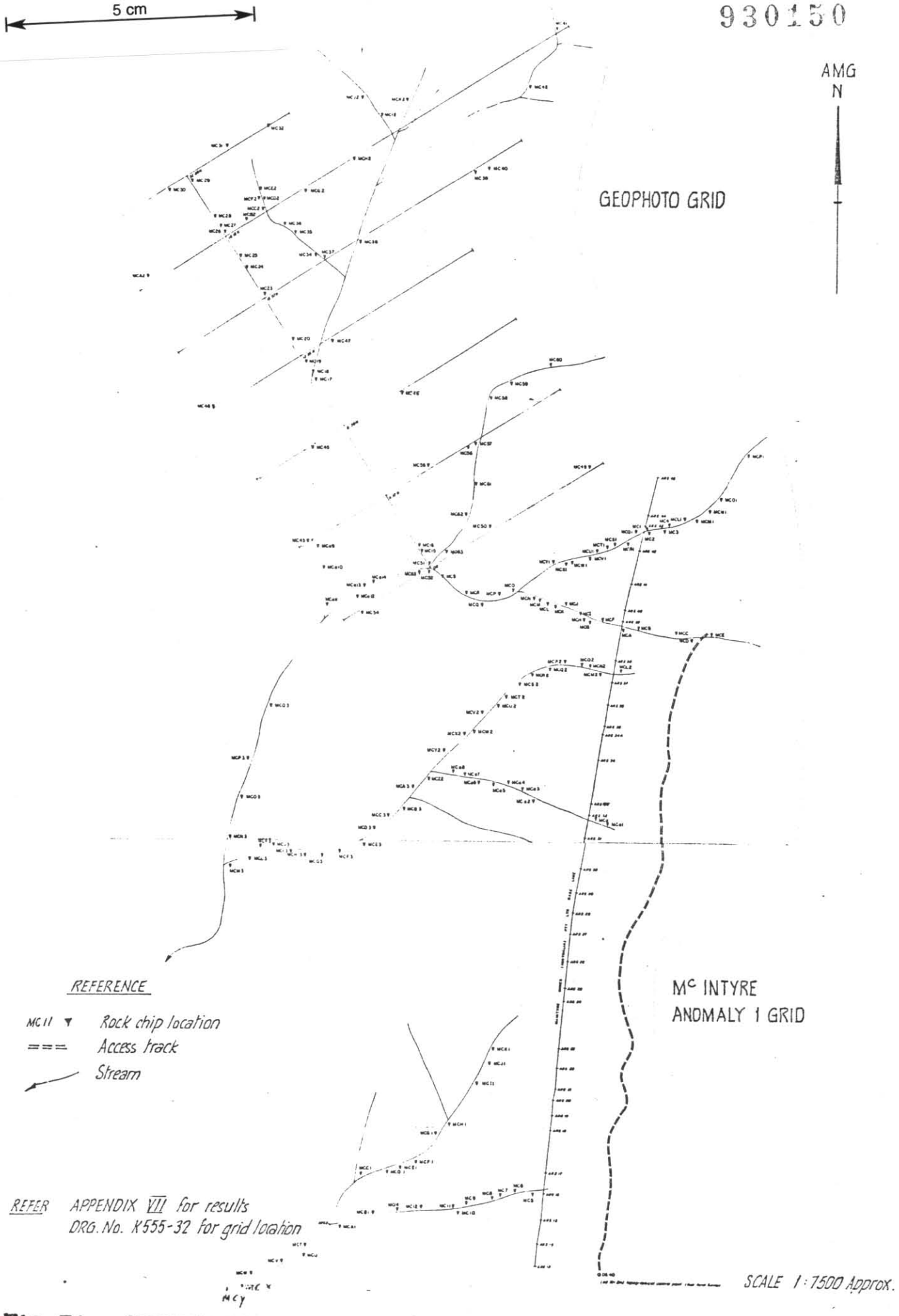


FIG. 51. GEOPHOTO ROCK SAMPLE LOCATIONS GEOPHOTO GRID AREA

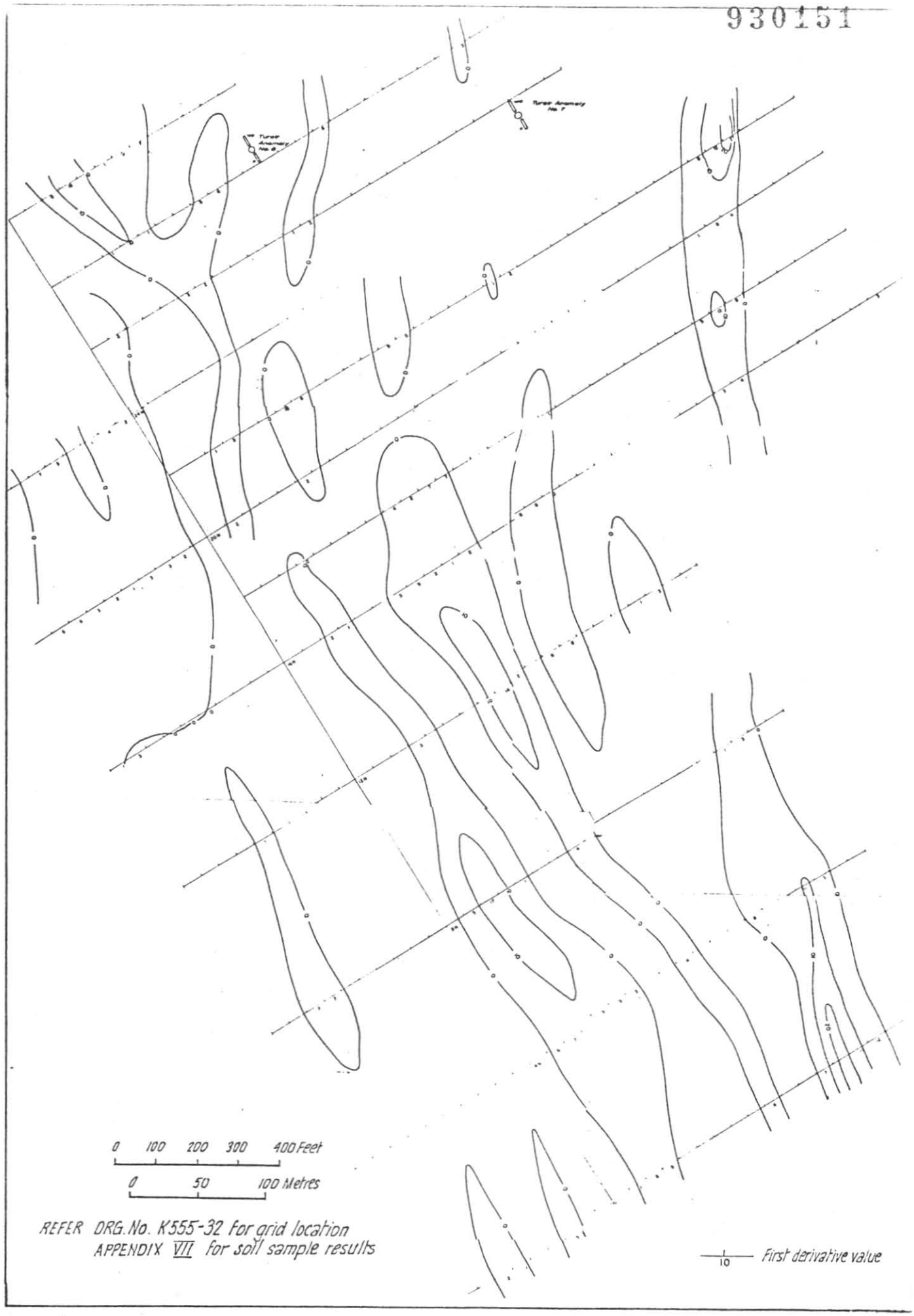
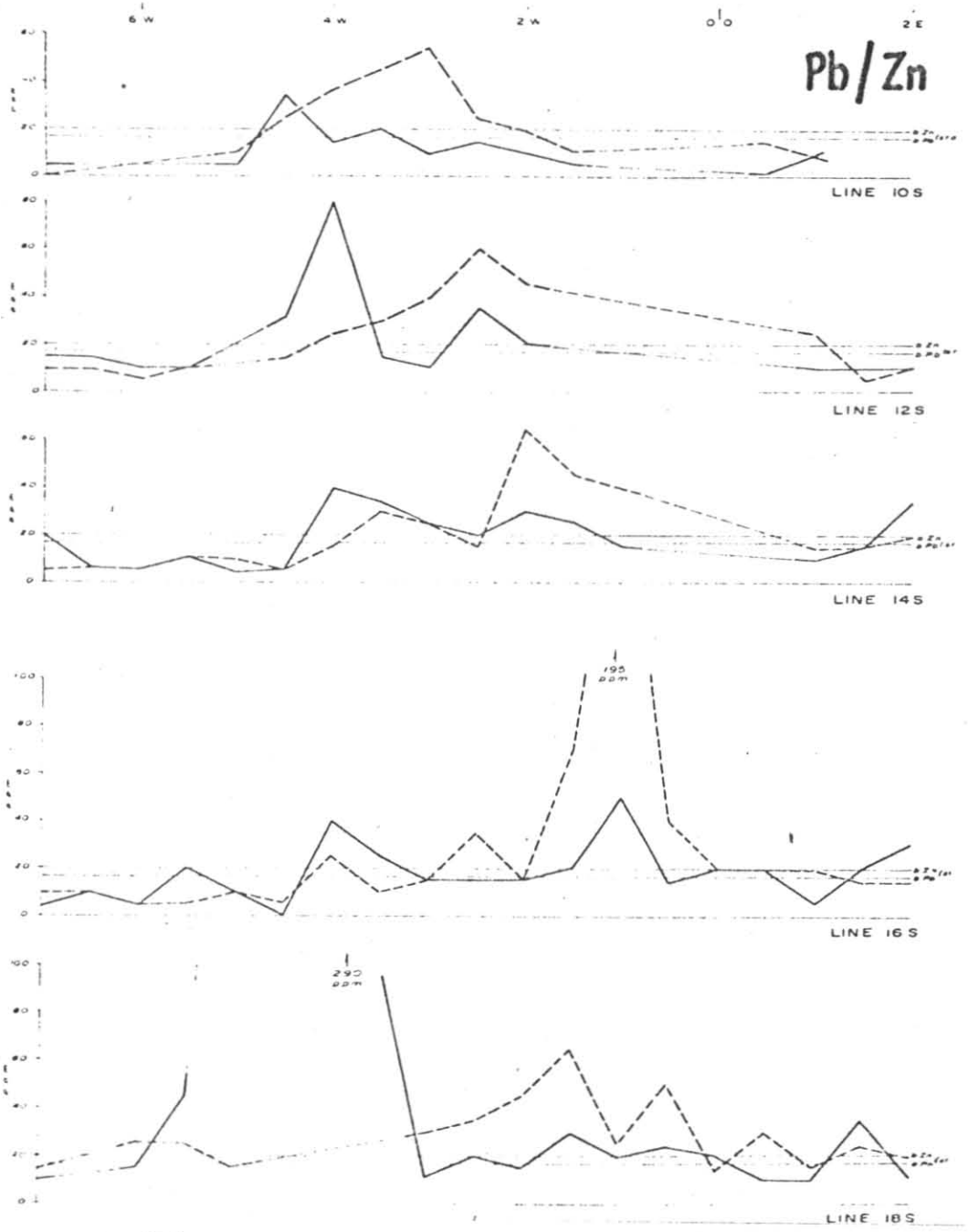


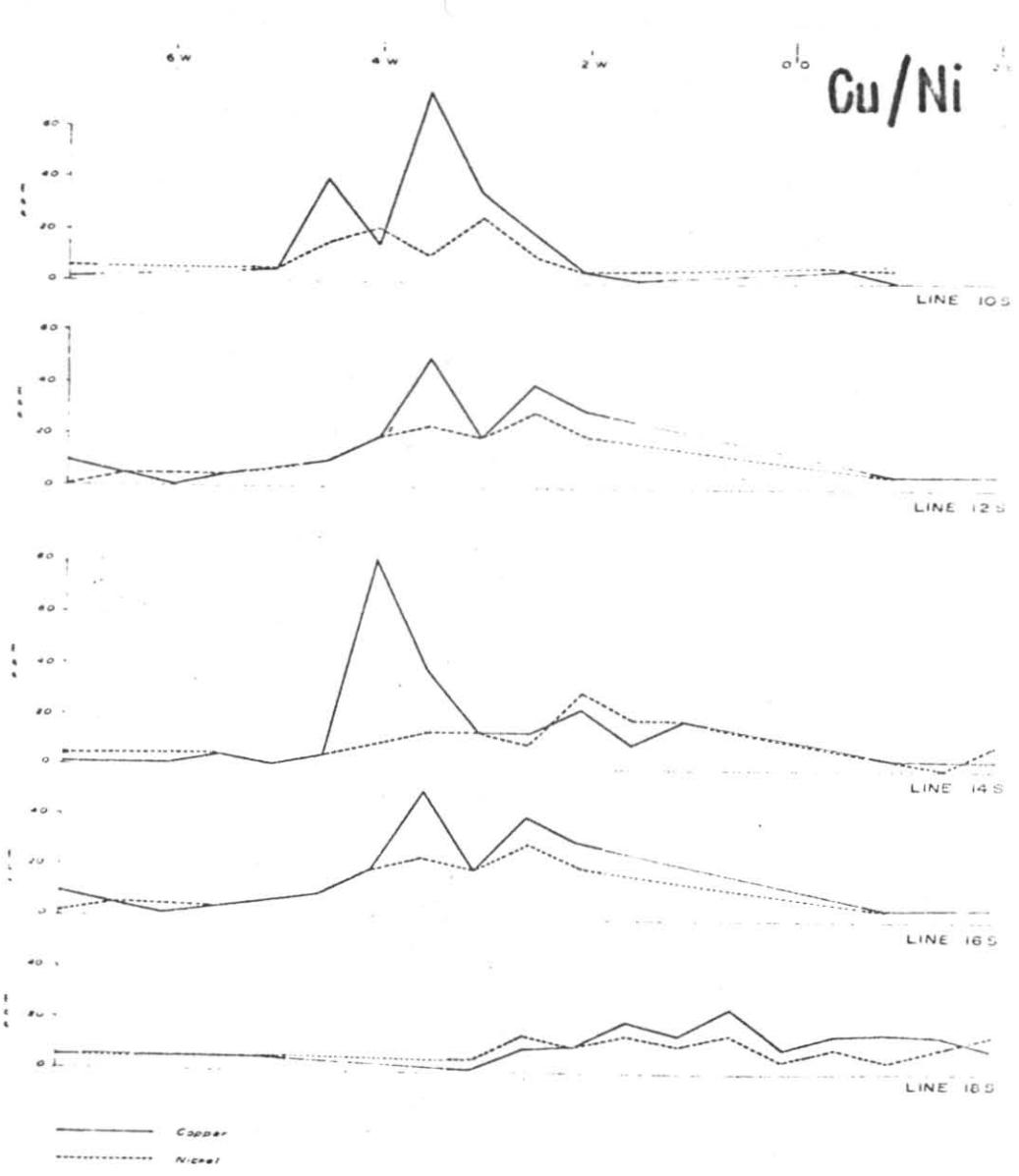
FIG. 52. ULF-EM 1ST DERIVATIVE CONTOURS & SOIL SAMPLE LOCATIONS - GEOPHOTO GRID

5 cm

930152

5 cm

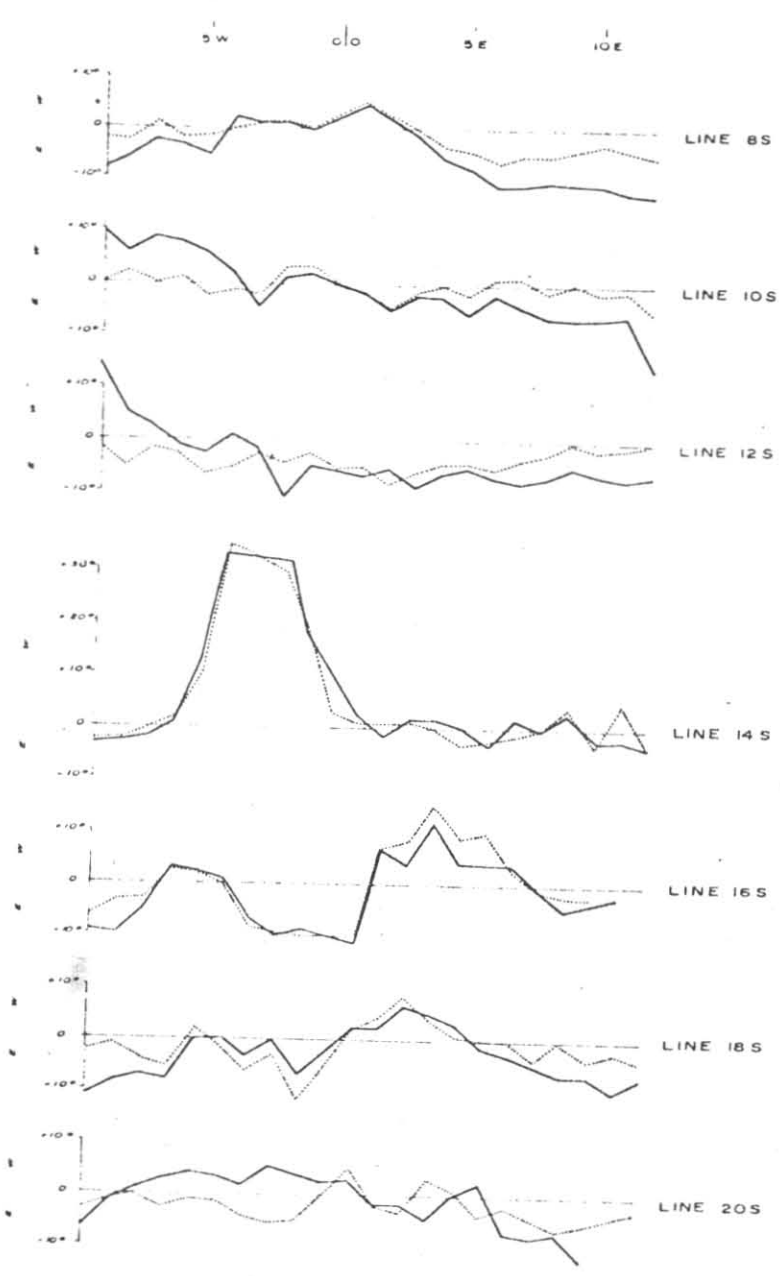


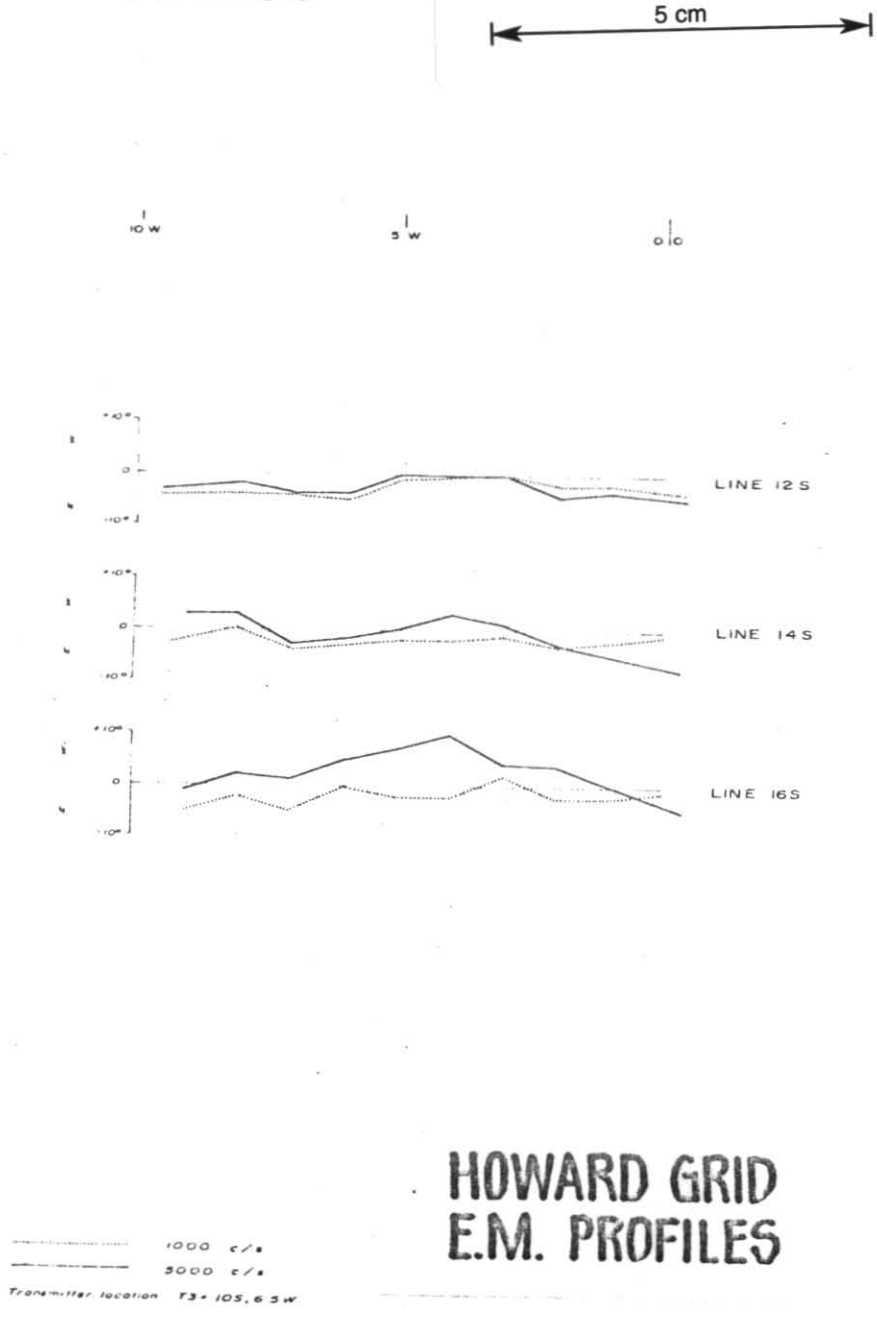


HOWARD GRID - SOIL GEOCHEMISTRY

FIG 53

930153

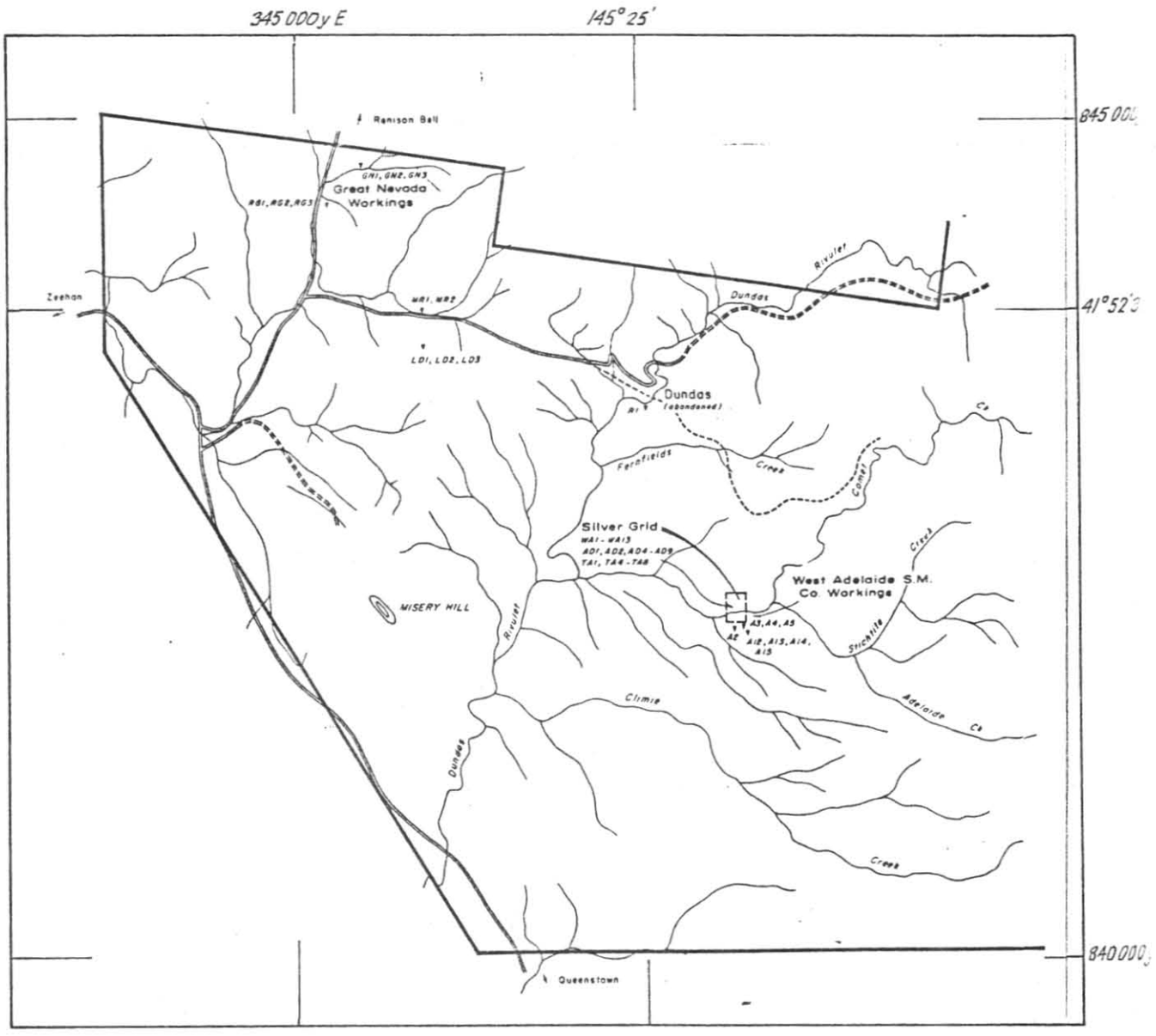




HOWARD GRID
E.M. PROFILES

FIG. 54.

930154



Scale: 1 : 25,000

2000 0 2000 4000 6000 8000 Feet

1000 0 1000 2000 Metres

LEGEND

- Road
- Vehicle track
- Disused track
- Water course
- Rock chip sample location
- Outline of grid area
- Boundary of E.L. 7/68

5 cm

REFER APPENDIX IX FOR ANALYSES
FIG. 46 FOR LOCATION

FIG. 55. SAMPLE LOCATIONS - WEST DUNDAS RECONNAISSANCE SURVEY

930155

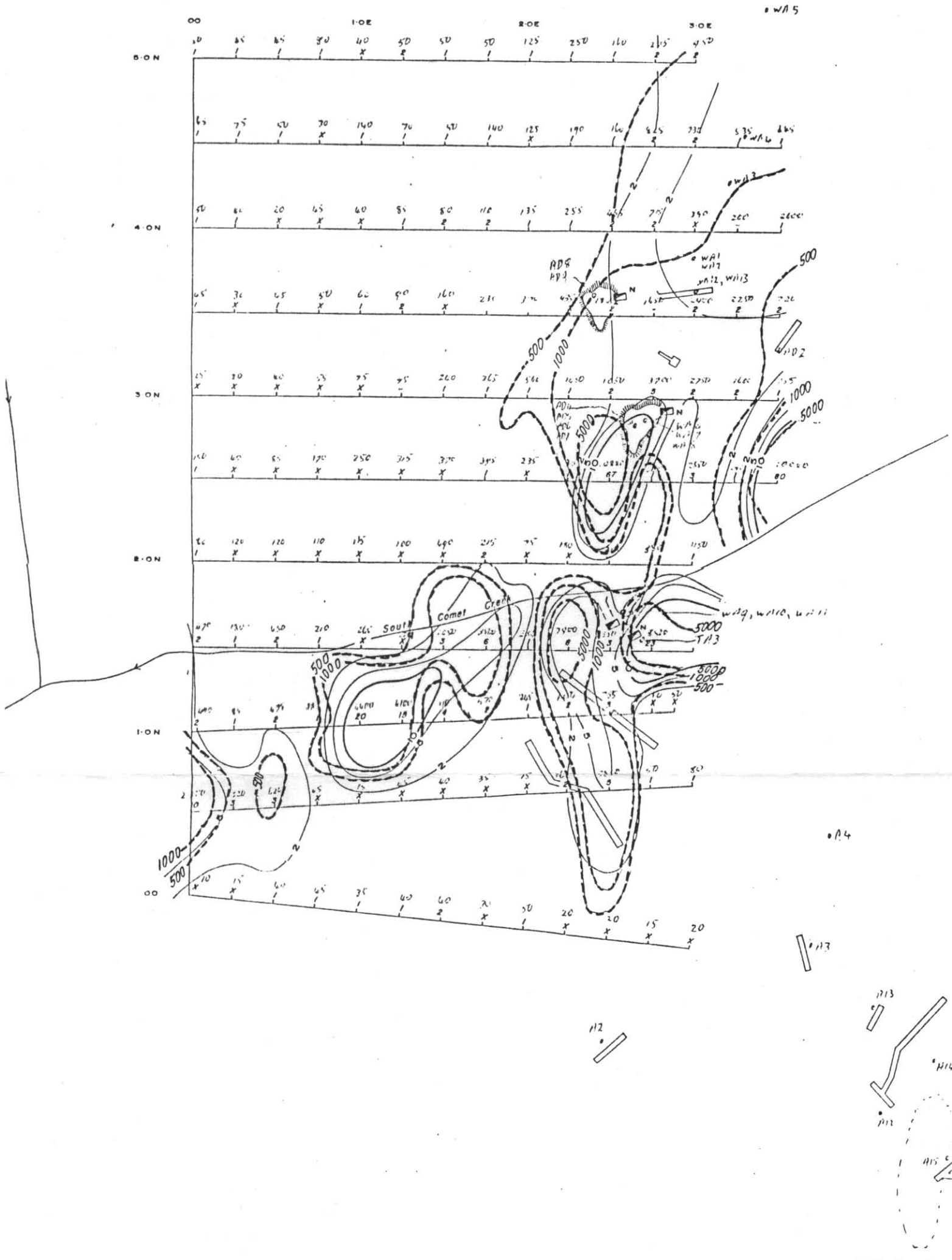
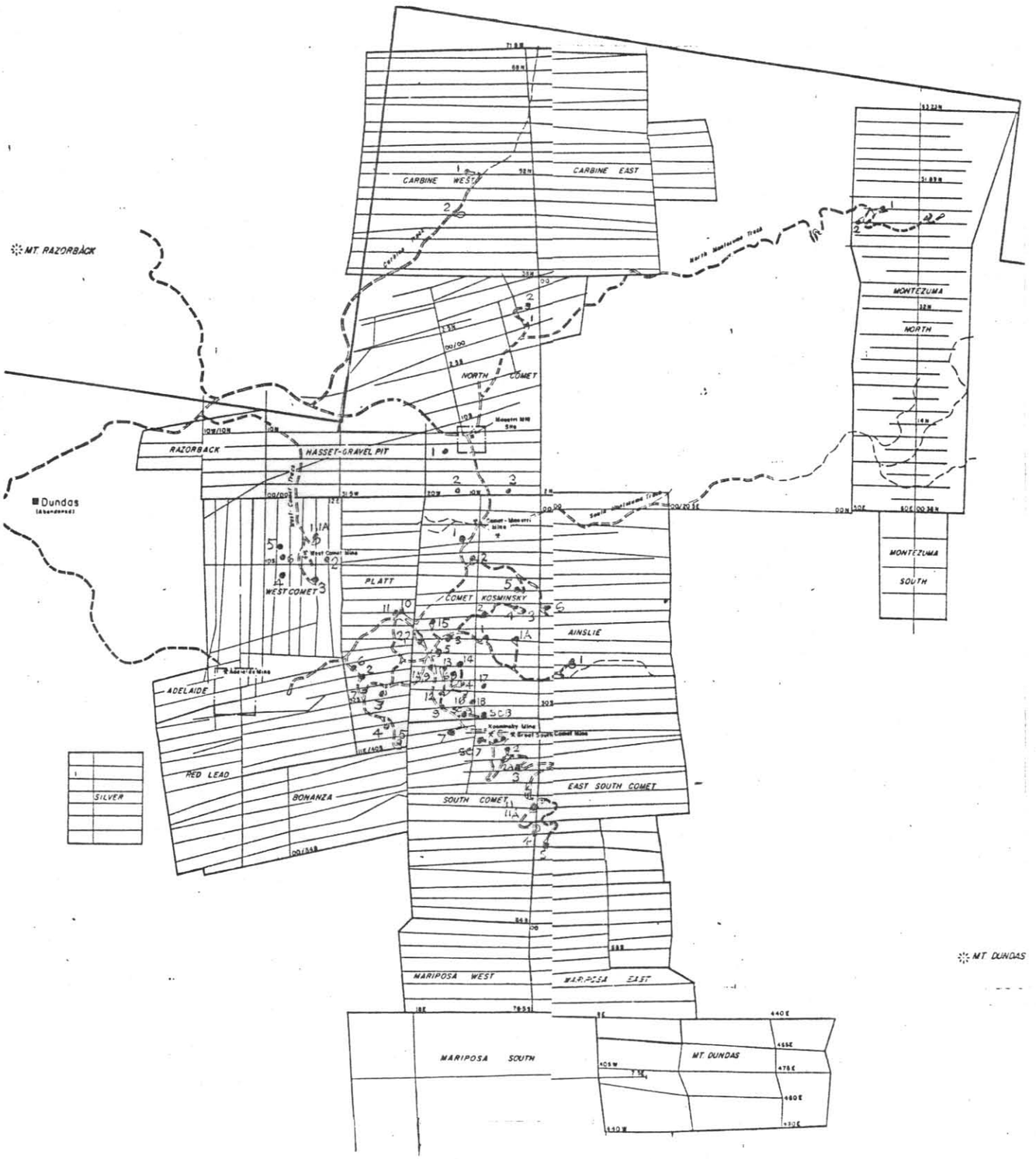


FIG. 56. SOIL LEAD & SILVER VALUES - SILVER GRID

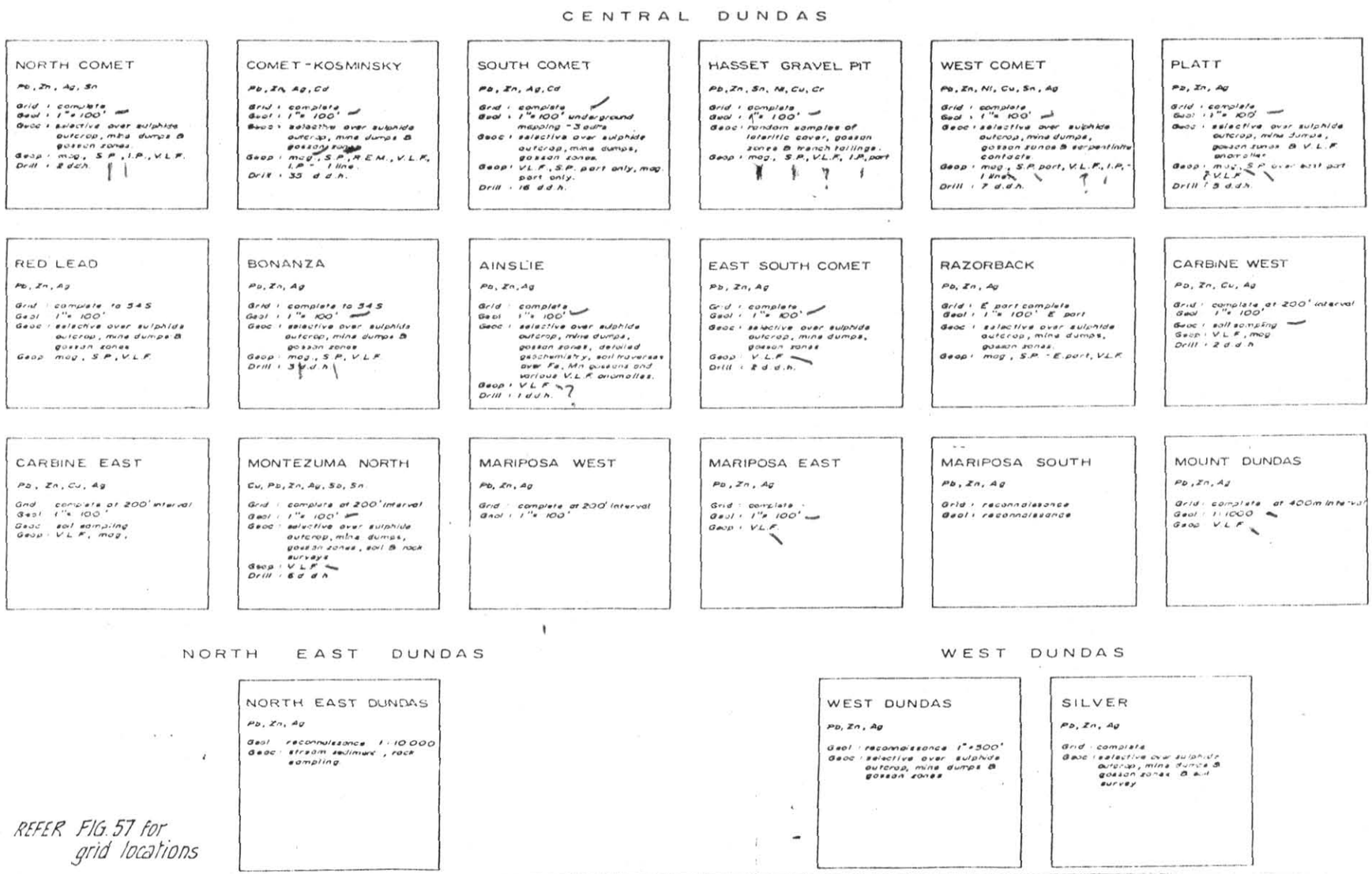
930156



FOR LOCATION OF E.L. SEE K555-32
SEE FIG 58 FOR SUMMARY OF WORK ON GRIDS

FIG. 57 LOCATION OF GEOPHOTO GRIDS E.L. 15/76

5 cm



REFER FIG. 57 for grid locations

FIG. 58. GEOPHOTO EXPLORATION SUMMARY OF DUNDAS DISTRICT

930157

5 cm

930158

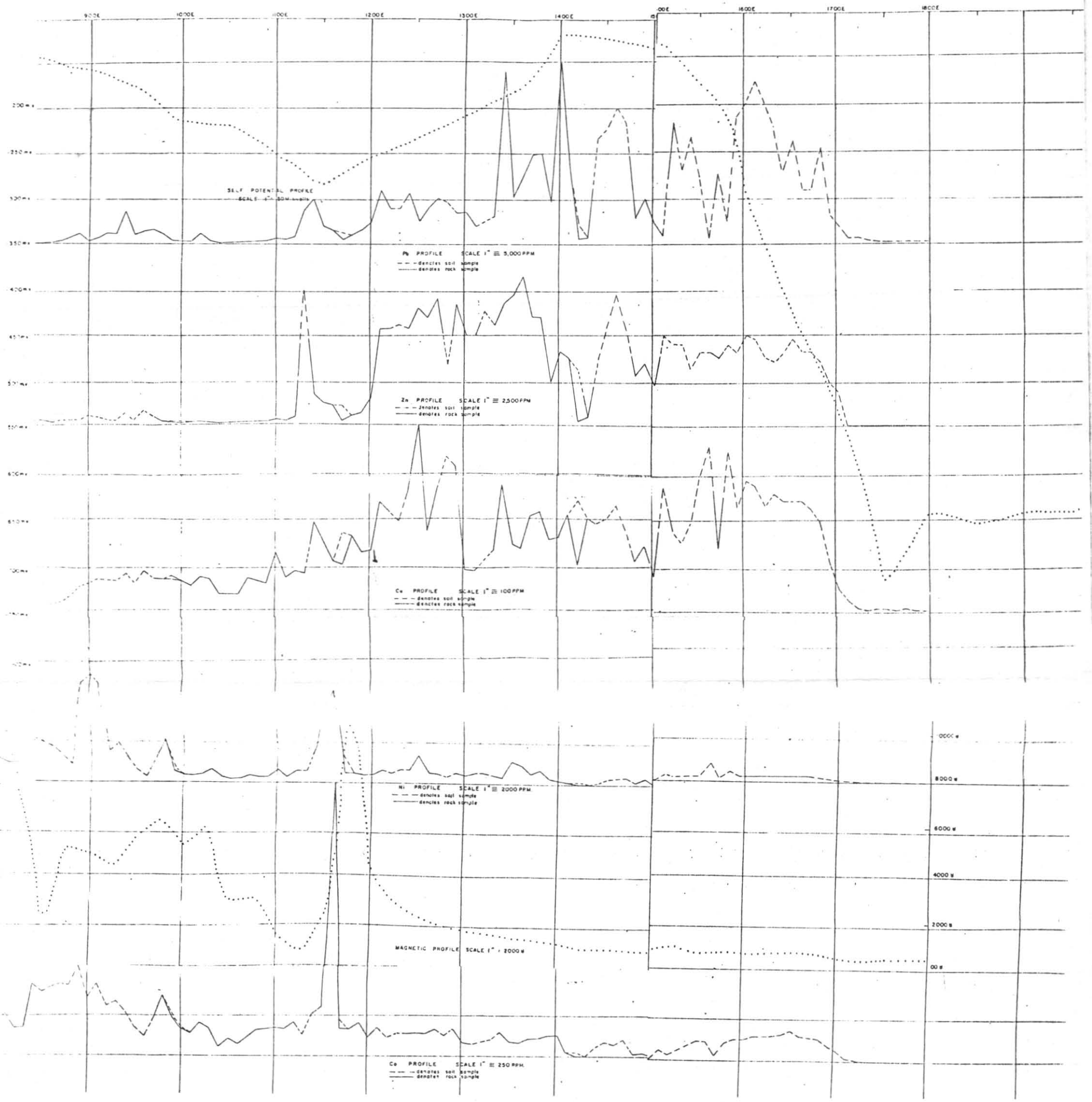


FIG. 59. GEOCHEMICAL & GEOPHYSICAL PROFILES LINE 00 - WEST COMET GRID

930159

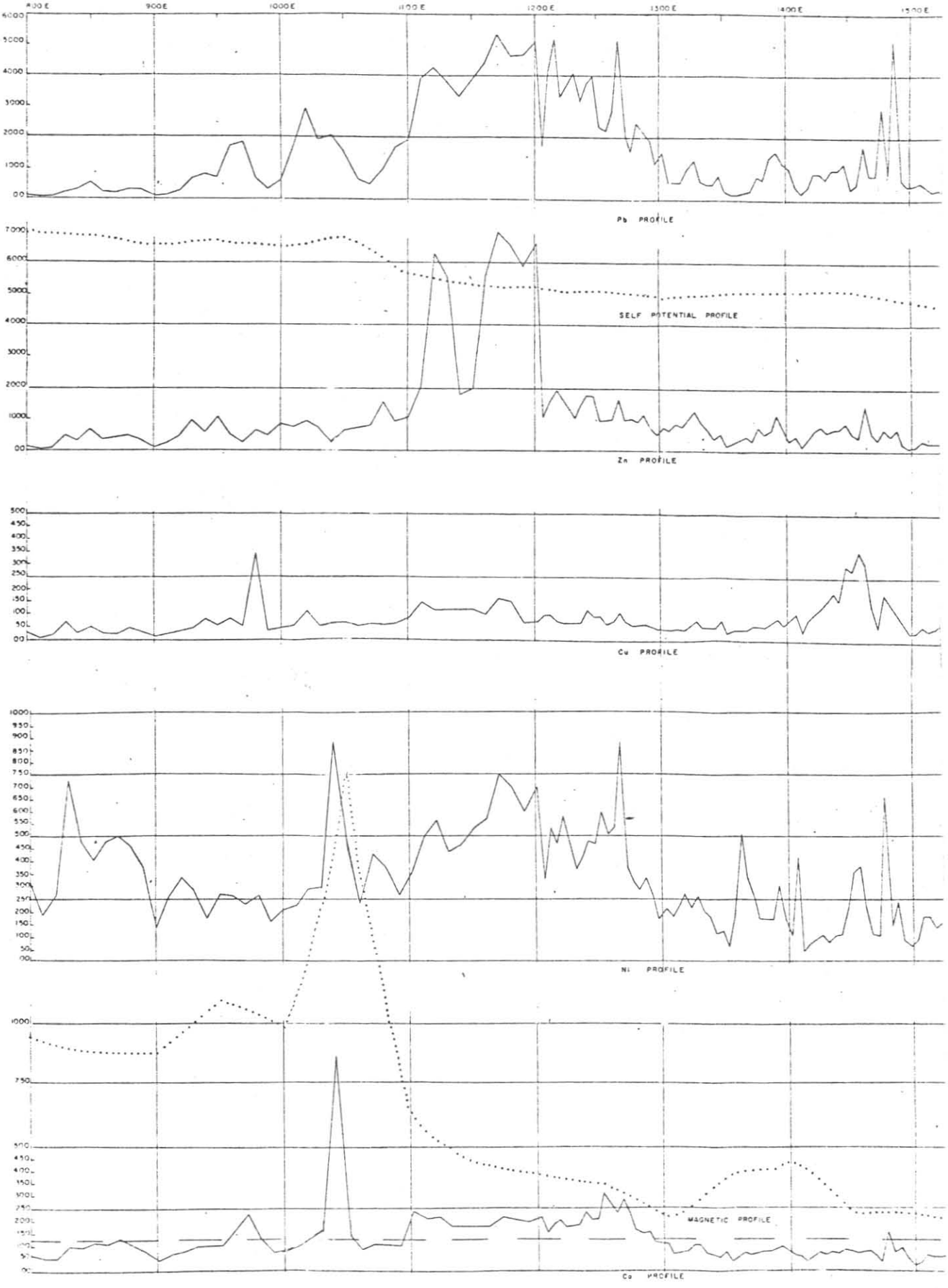


FIG. 60 GEOCHEMICAL & GEOPHYSICAL PROFILES
LINE 4N WEST COMET GRID

5 cm

930160

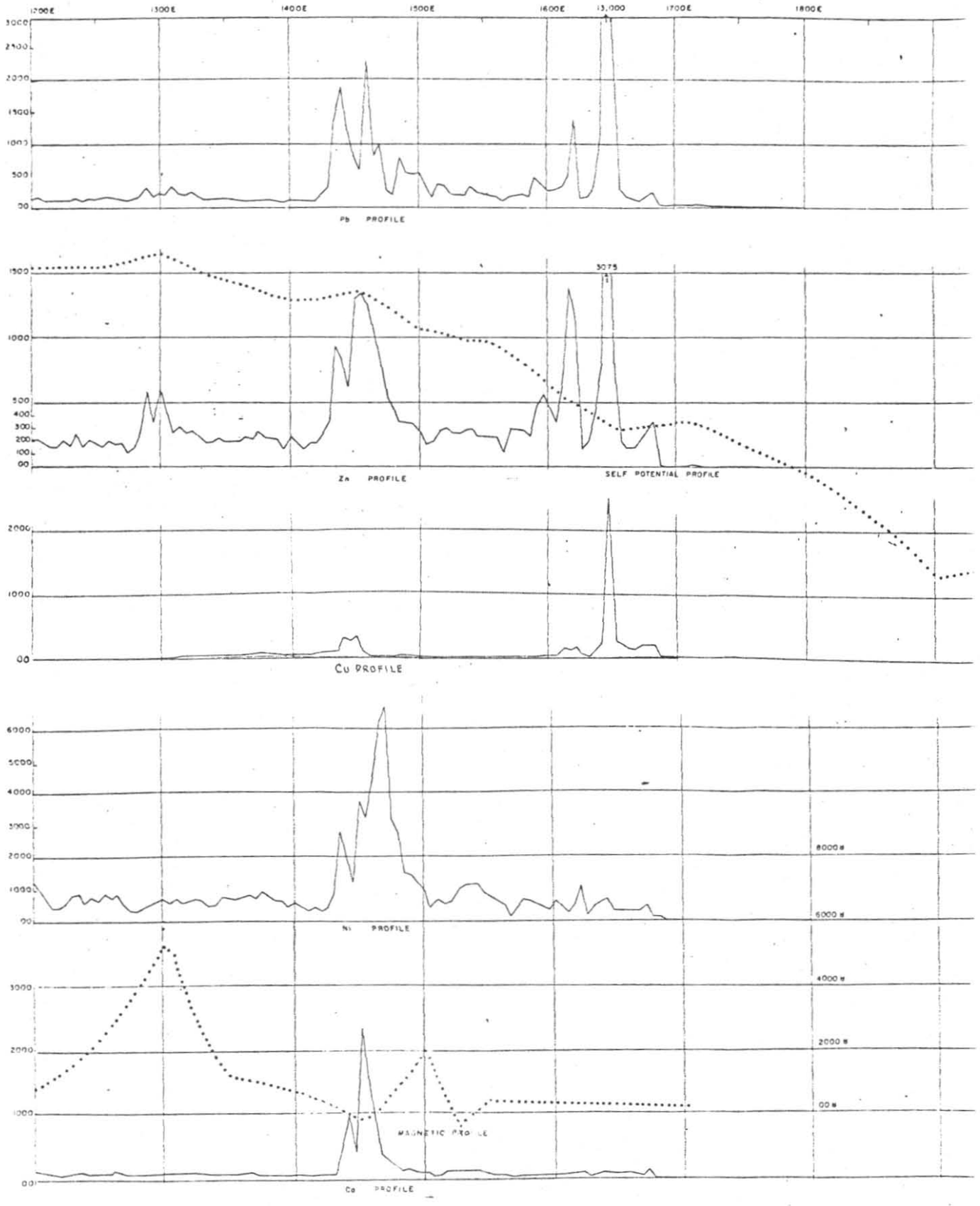
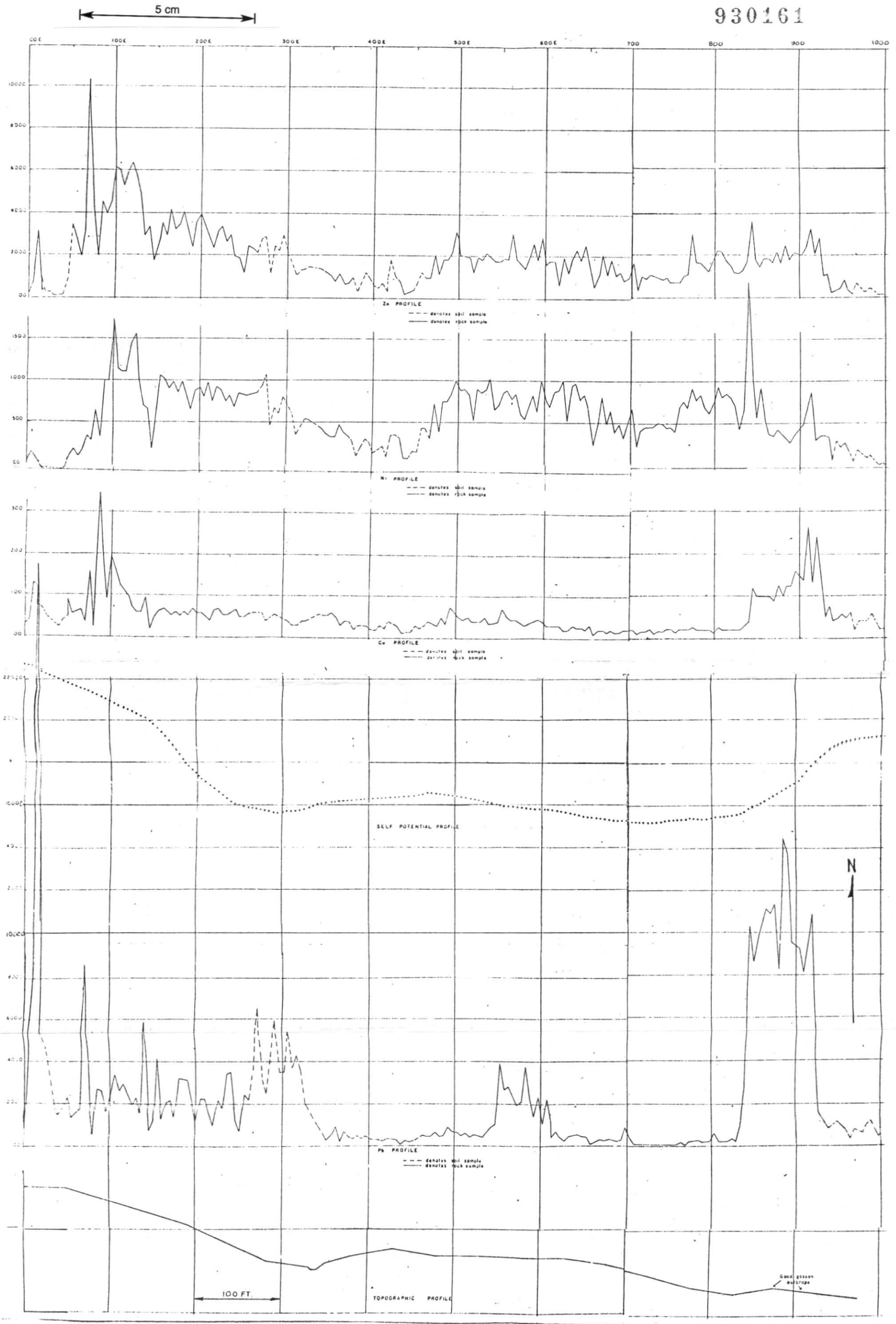


FIG. 61 GEOCHEMICAL AND GEOPHYSICAL PROFILES
LINE 8 N WEST COMET GRID

5 cm

930161

FIG. 62 GEOCHEMICAL AND GEOPHYSICAL PROFILES



GEOCHEM. & GEOPHYSICAL PROFILES LINE 4 S WEST KOSMINSKY HILL E.L. 7/68

930162

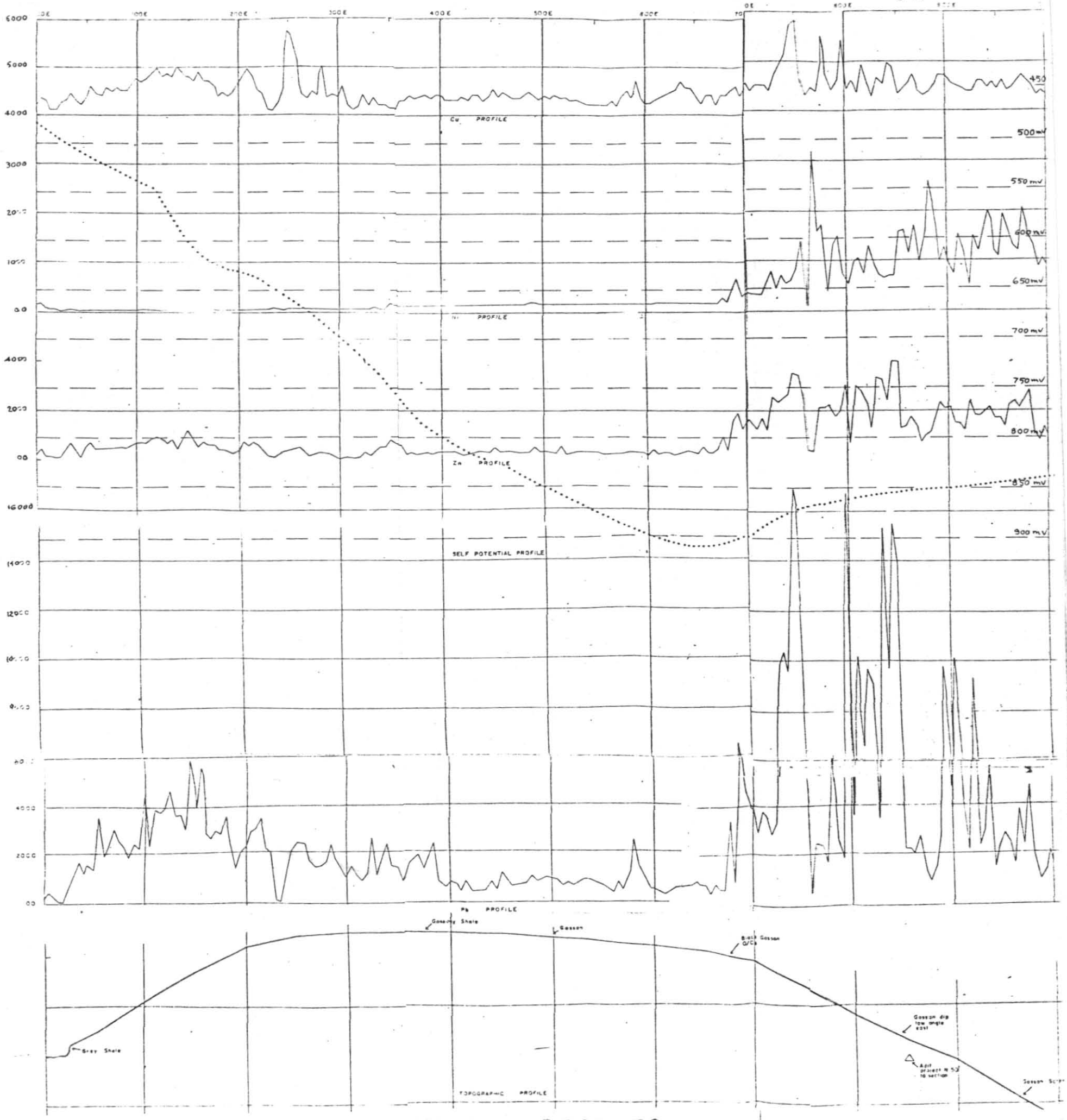


FIG. 63 GEOCHEMICAL & GEOPHYSICAL PROFILES
LINE 4 N WEST KOSMINSKY HILL

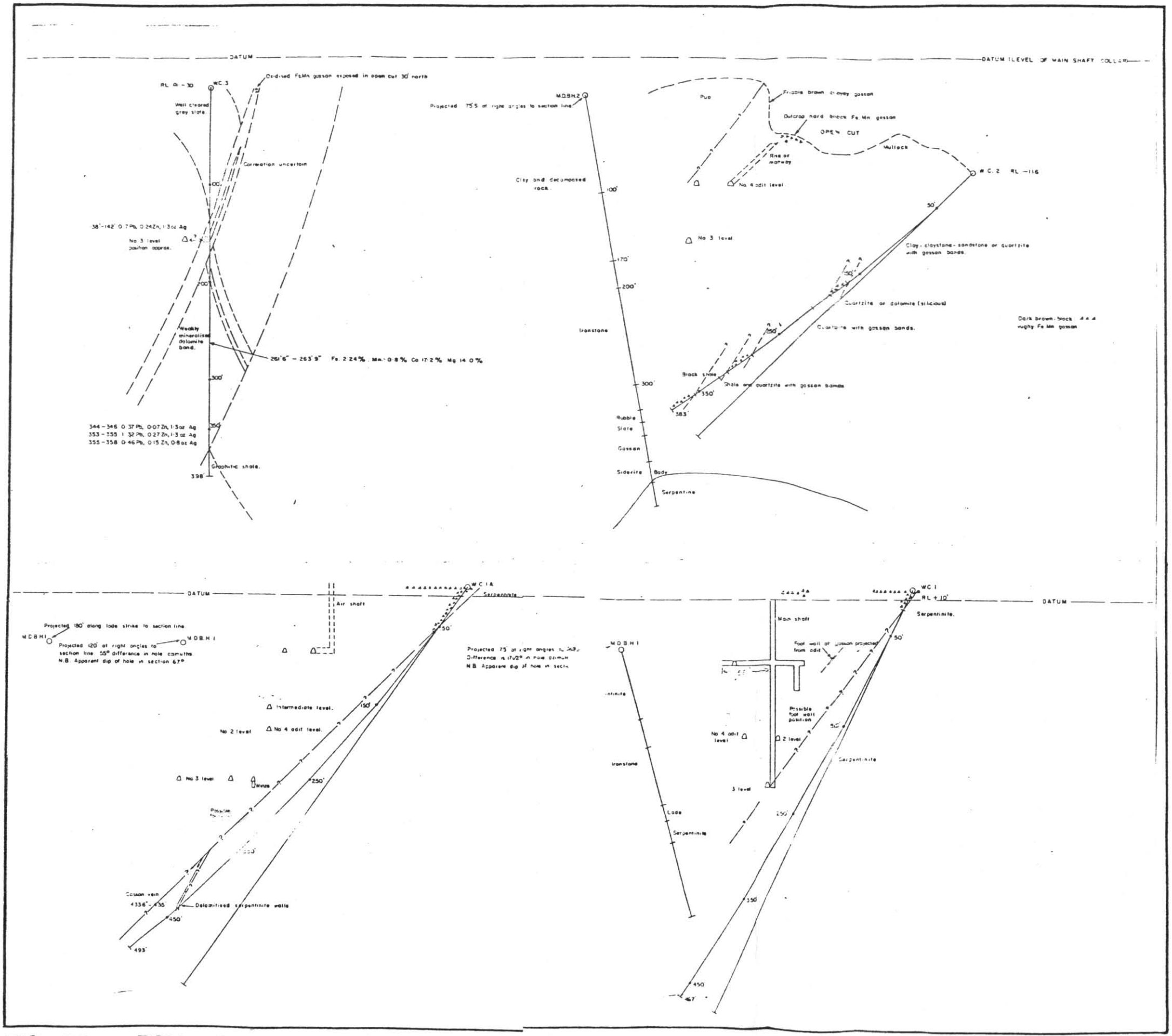


FIG. 64 DRILL SECTIONS WC1. WC1A .WC2 & WC3 WEST COMET MINE EL.7/68

5 cm

930164

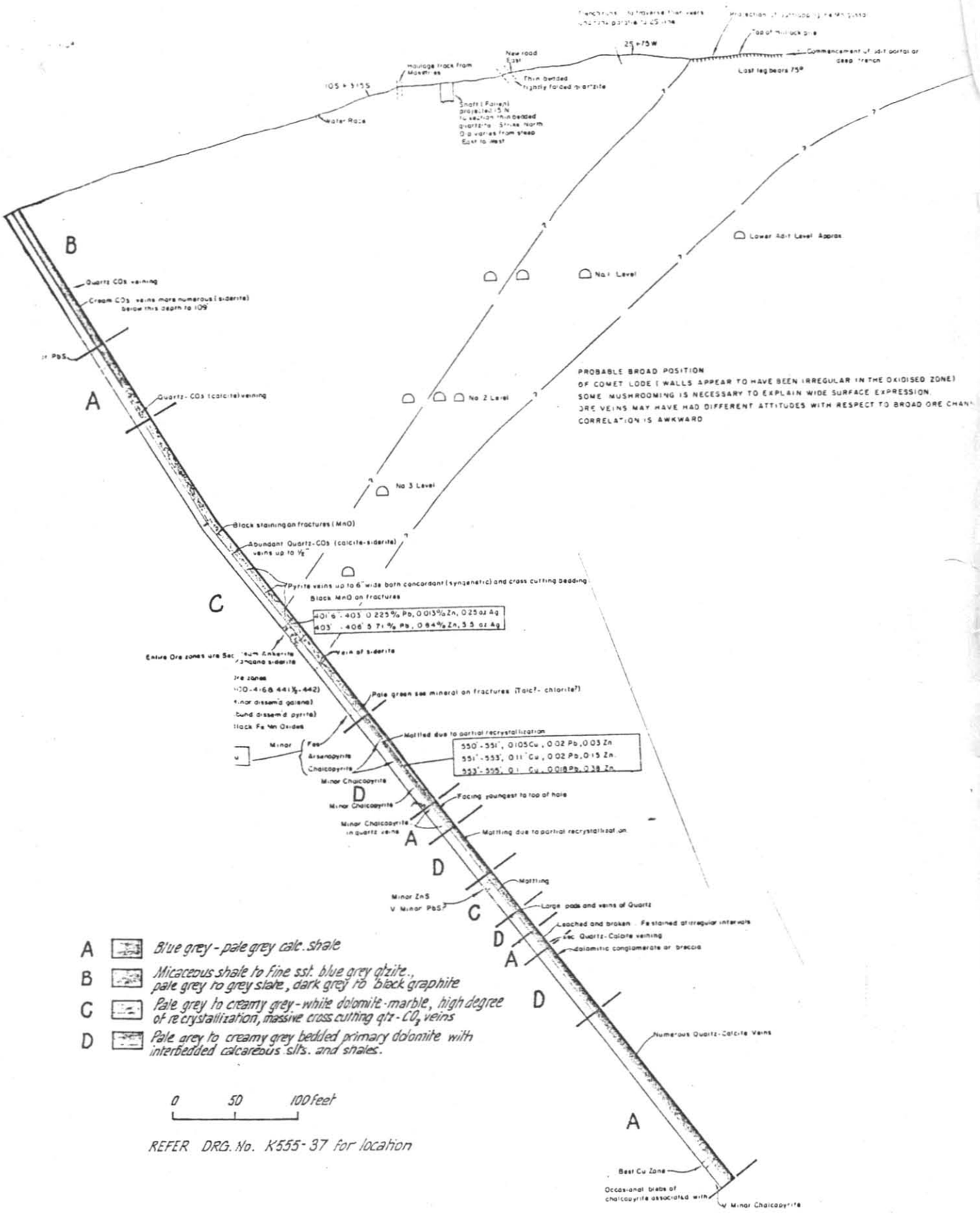


FIG. 65. DRILL SECTION - COMET No. 1

930165

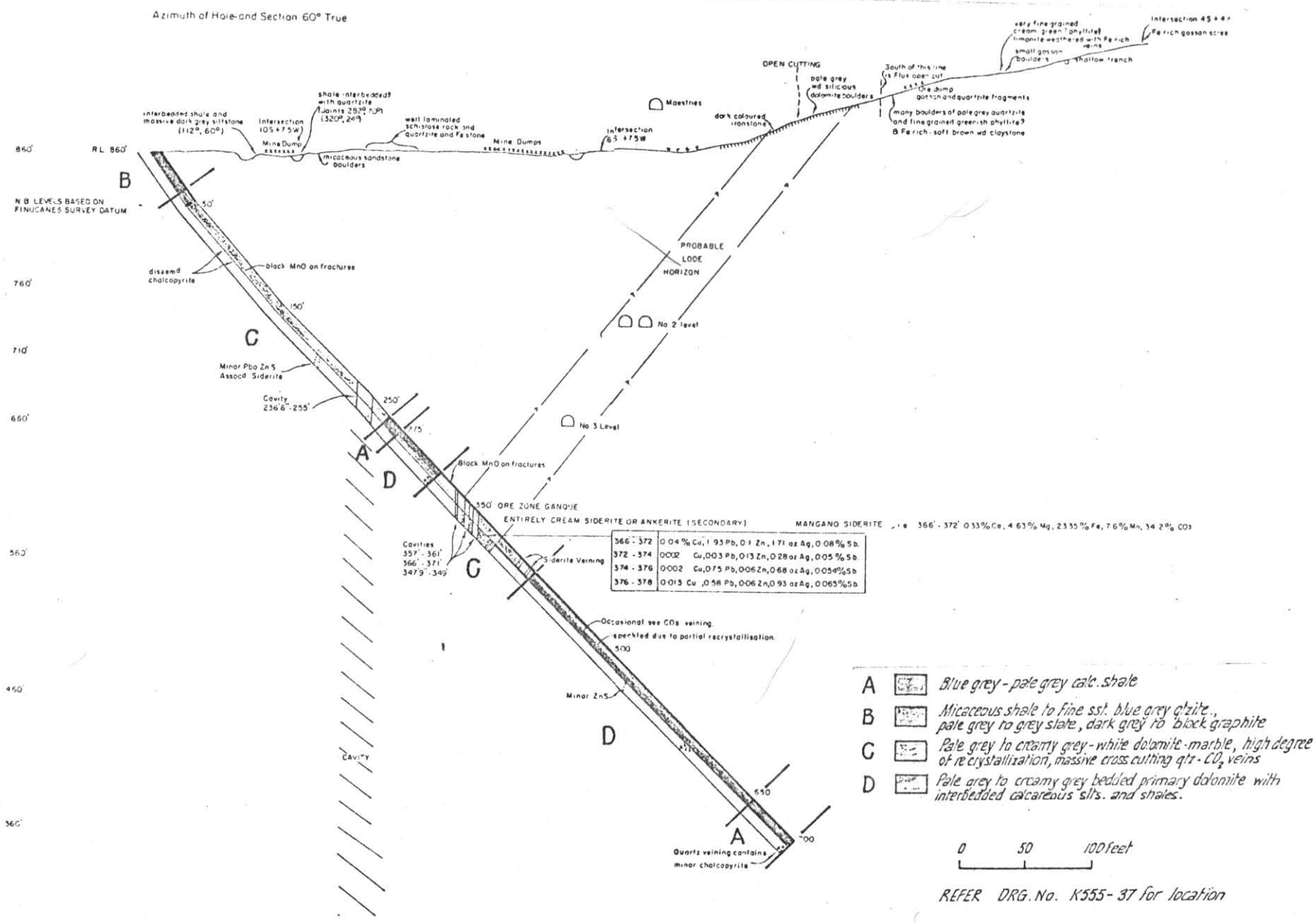


FIG. 66. DRILL SECTION - COMET No. 2.

FIG. 67. DRILL HOLE SUMMARY - SOUTH COMET / KOSMINSKY AREA

930167

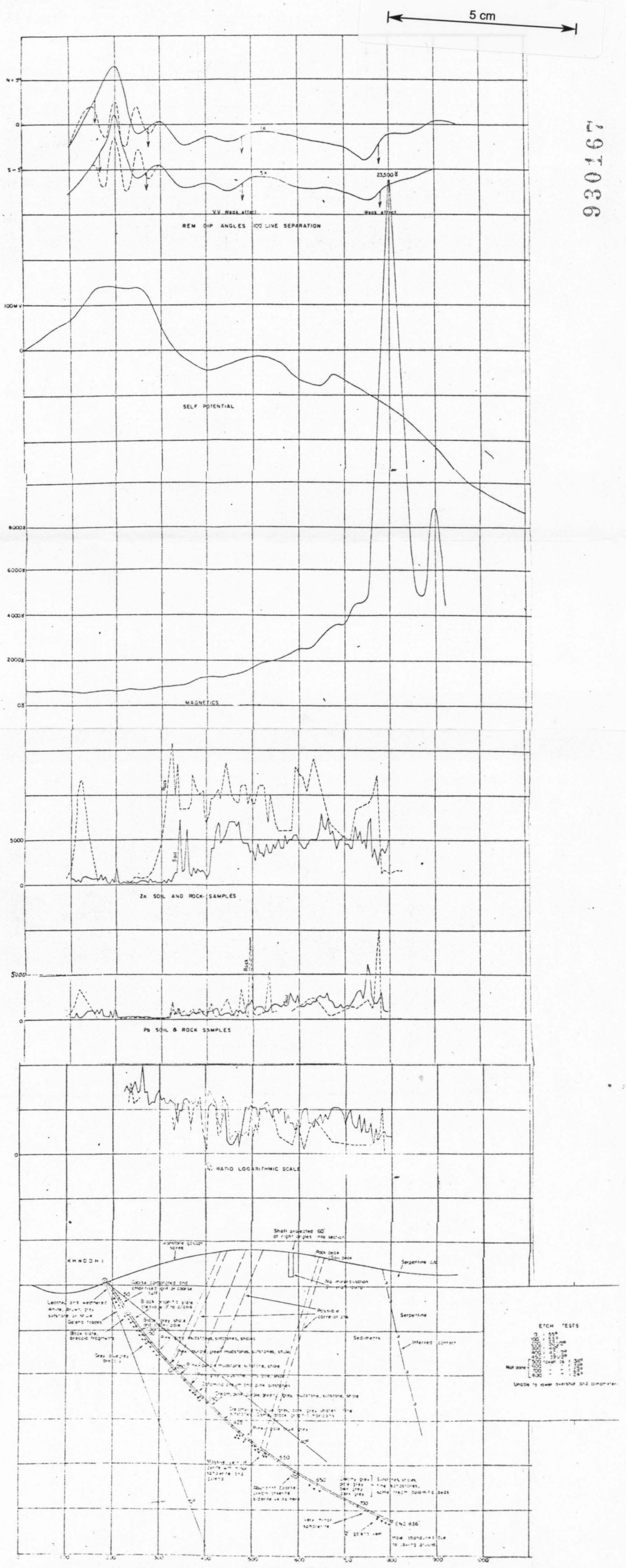


FIG. 68 GEOCHEMICAL & GEOPHYSICAL PROFILES & DRILL SECTION
KMW DDH 1 WEST KOSMINSKY HILL E.L. 7/68

930168

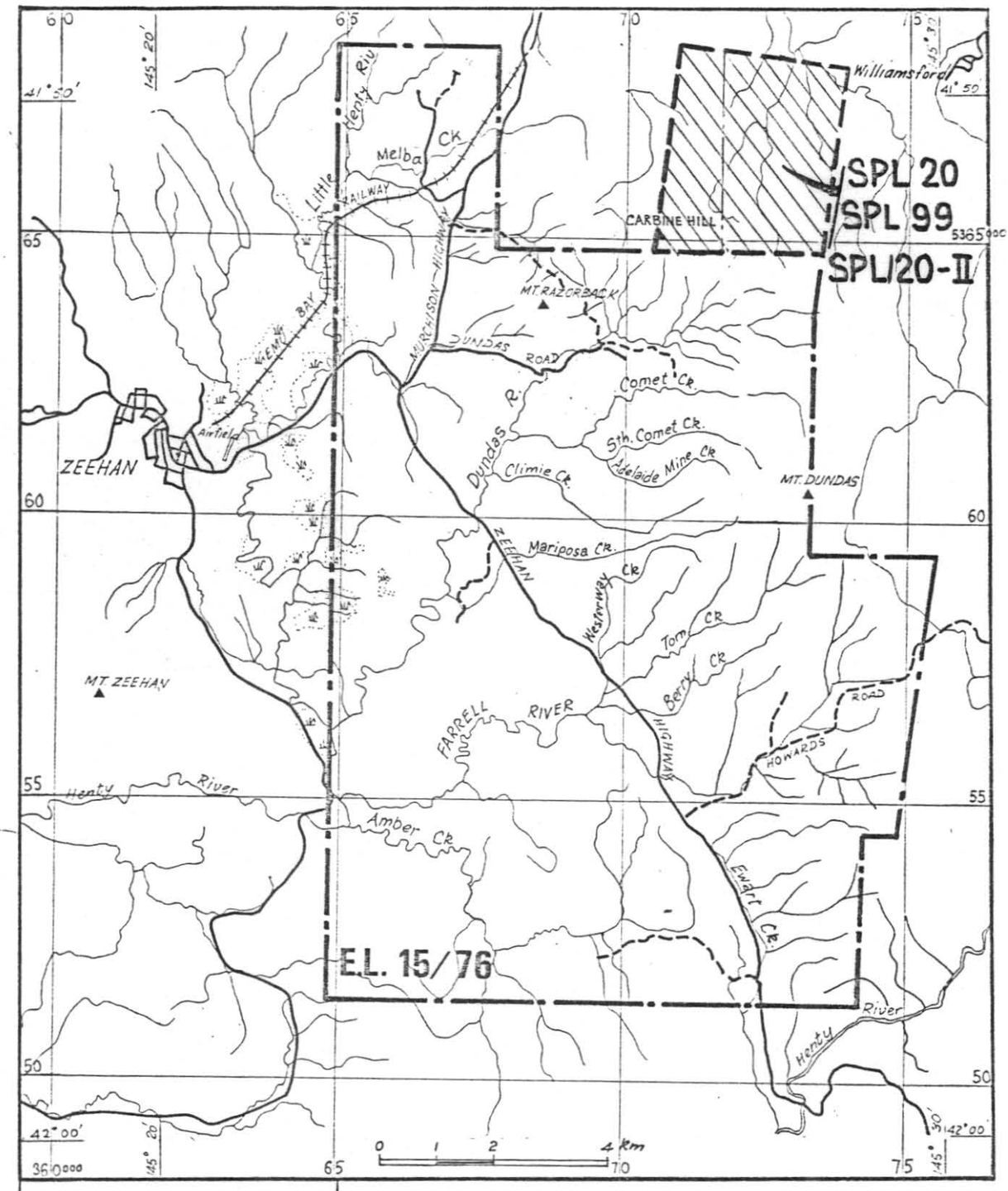


FIG. 69 LOCATION MAP -
S.P.L. 20 (RENISON)
S.P.L. 99 (I.M. TUCKER)
S.P.L. 120-II (MINOPS)

E.L. 15/76 DUNDAS, TASMANIA

5 cm

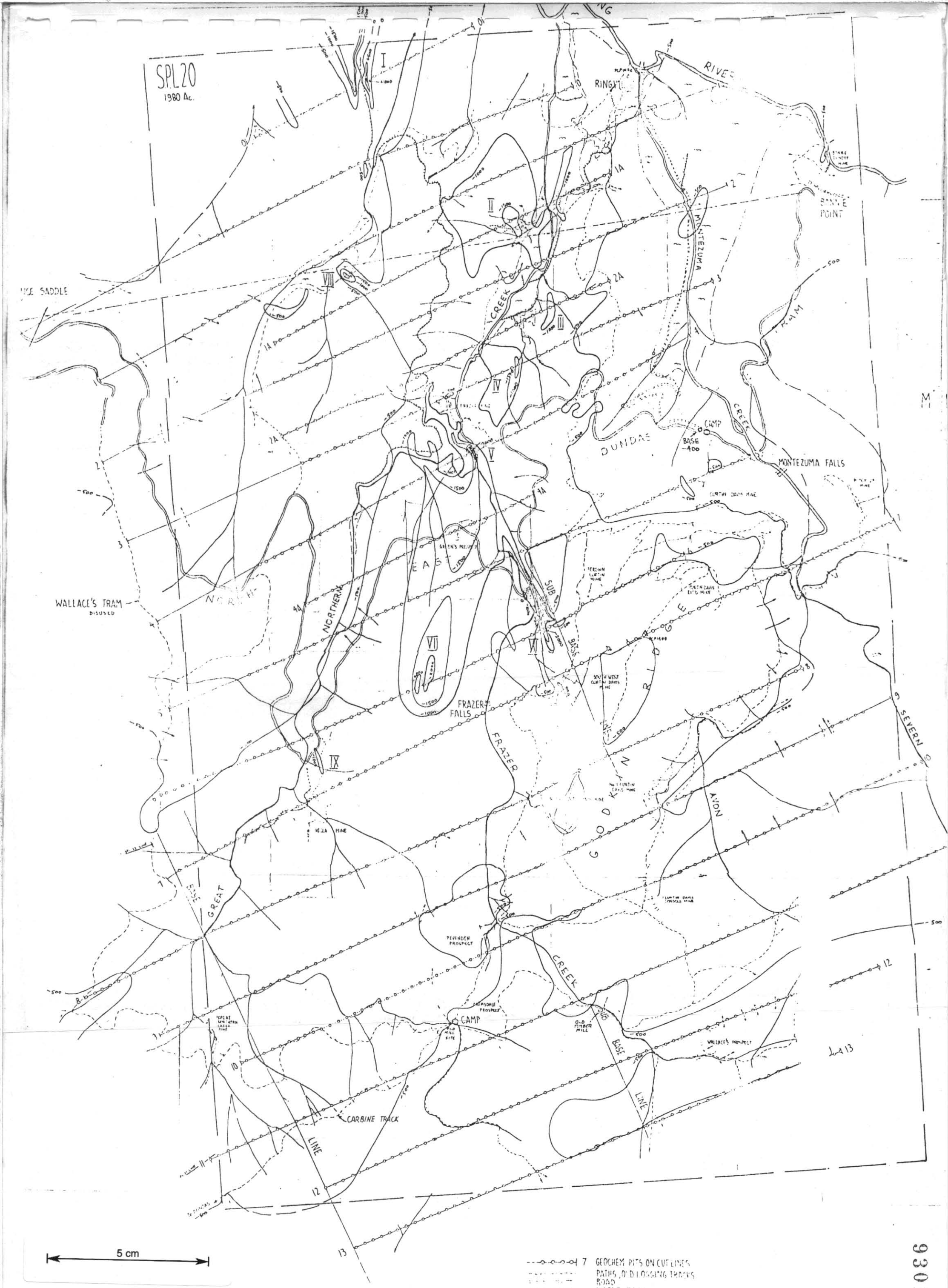


FIG. 70. MAGNETIC ANOMALIES - SPL 20 (RENISON)

930169

SPL20
1990 Ac

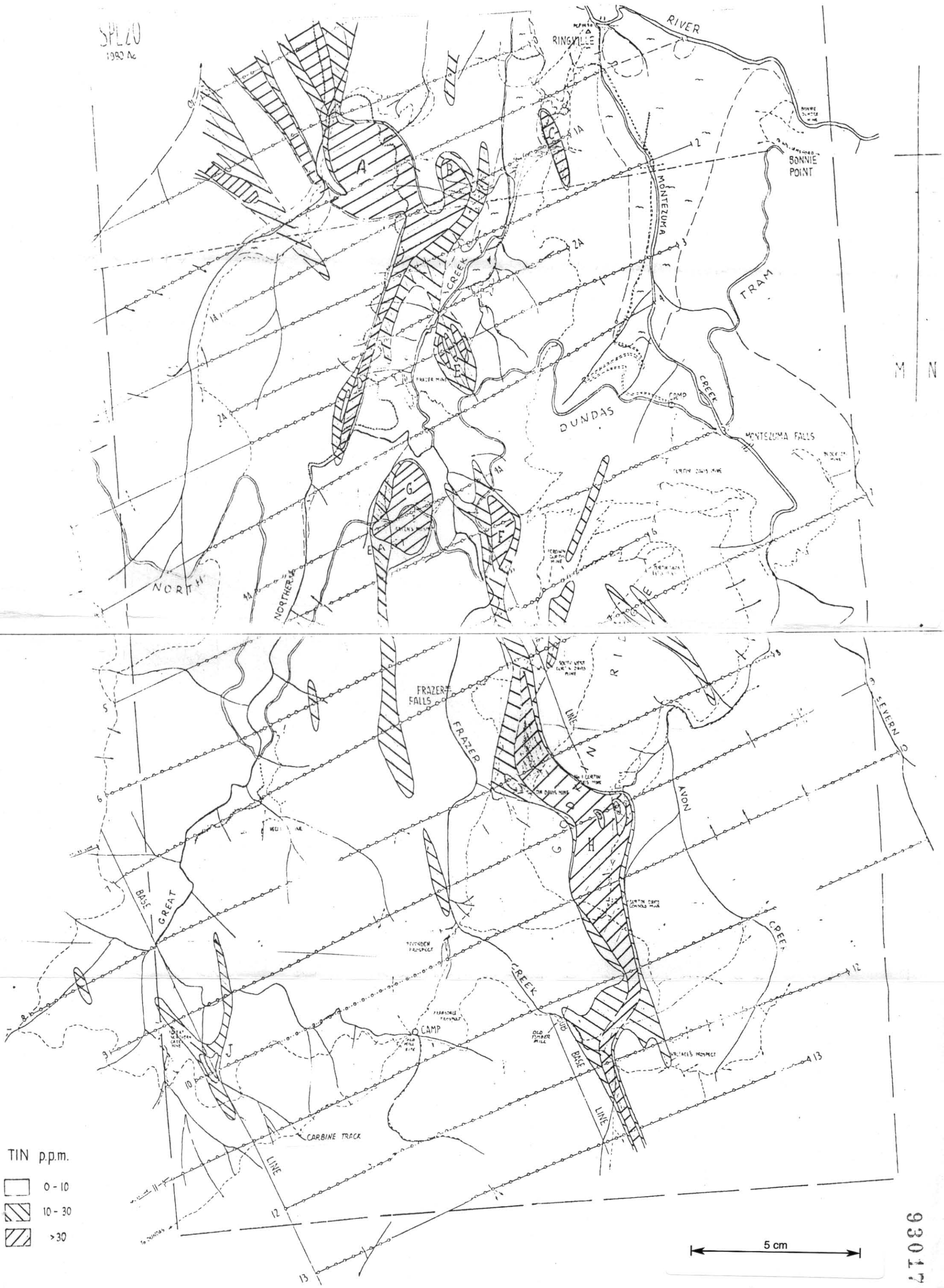


FIG. 71. TIN ANOMALIES - SPL 20 (RENISON)

930170

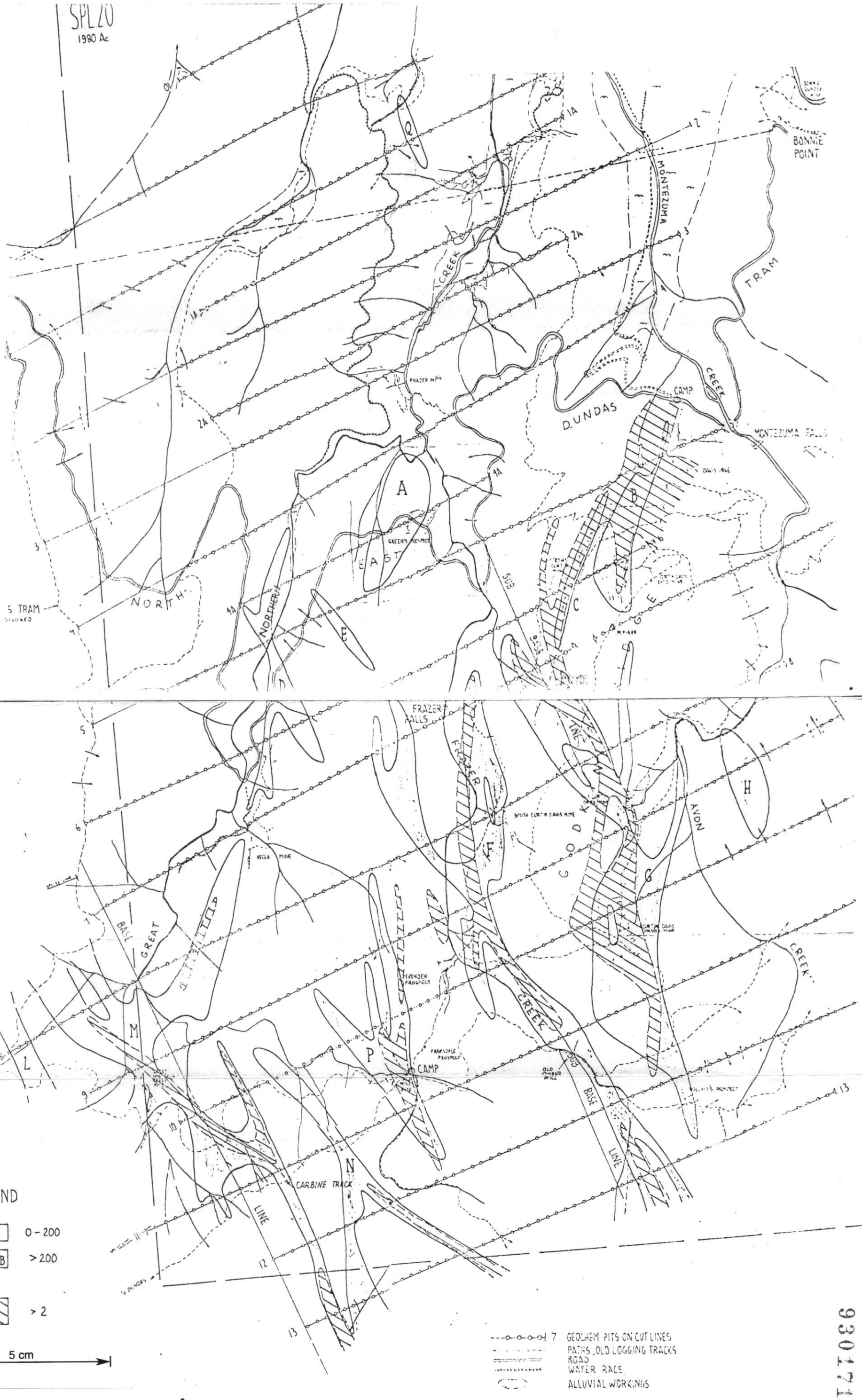


FIG. 72. LEAD / SILVER ANOMALIES - SPL 20 (RENISON)

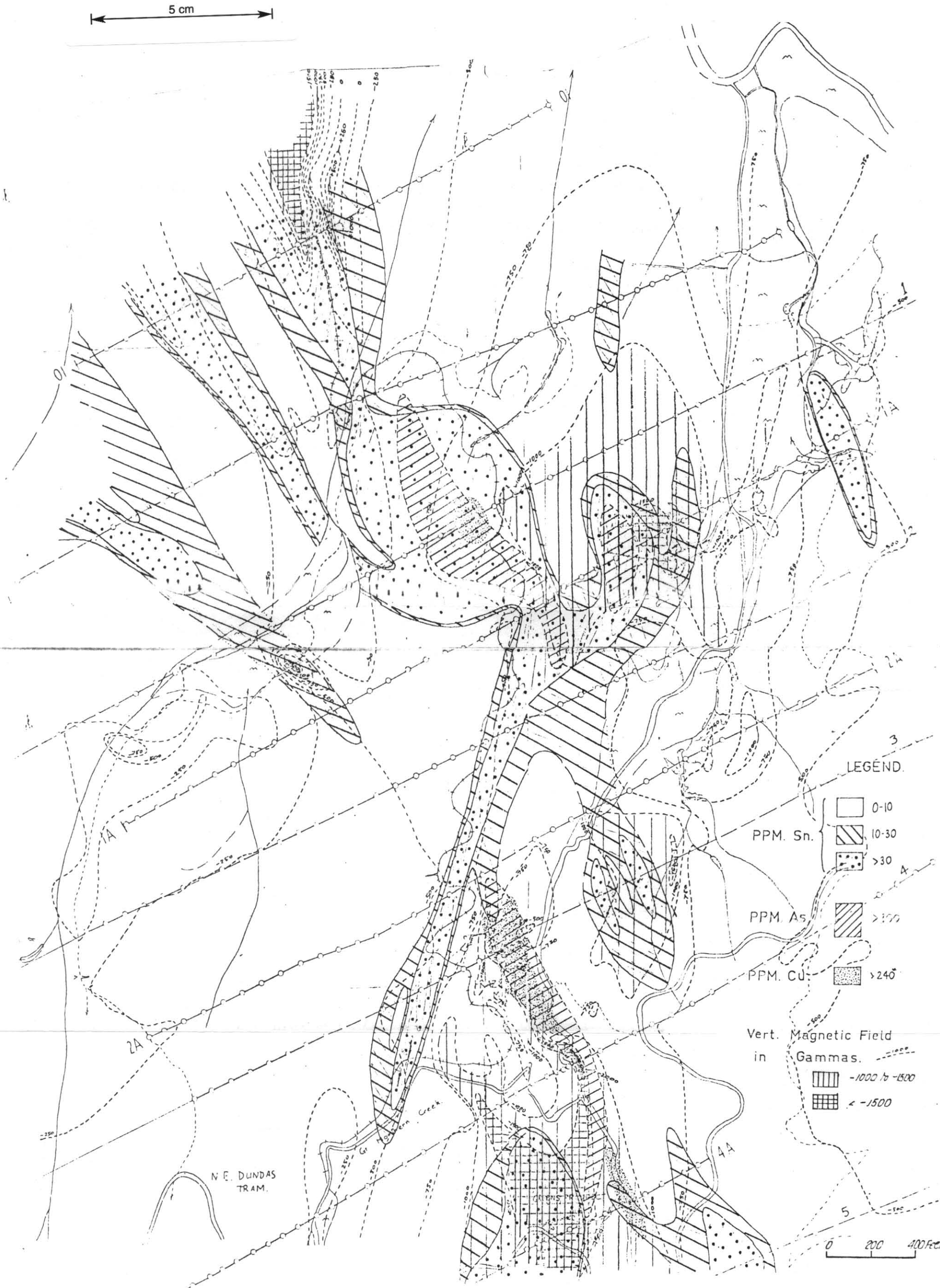


FIG. 73. ANOMALY 'A' MAGNETICS Cu, Sn & As VALUES - SPL 20 (Renison)

930173

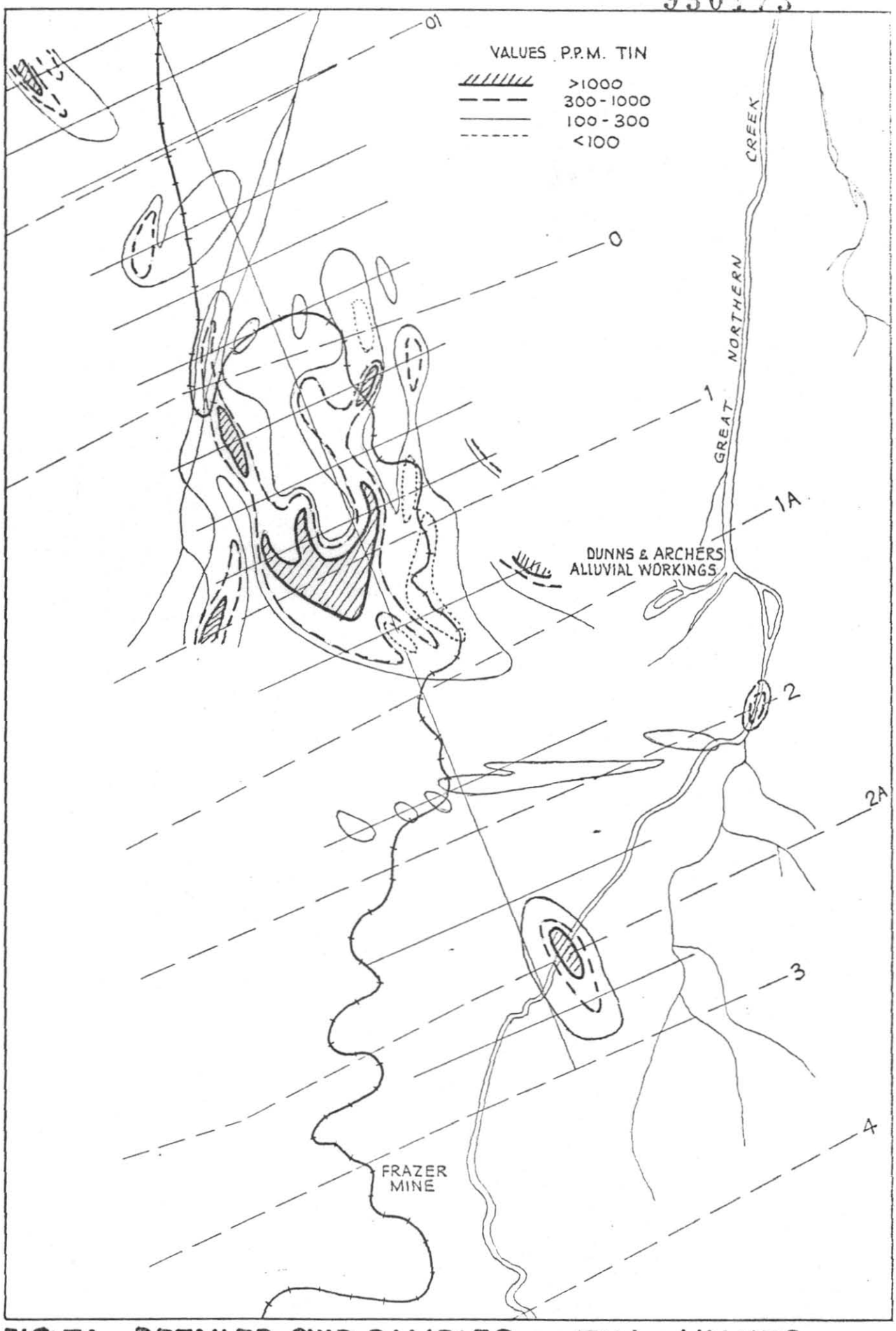


FIG. 74 DETAILED CHIP SAMPLES TIN VALUES
ANOMALY 'A' S.P.L. 20 RENISON

5 cm

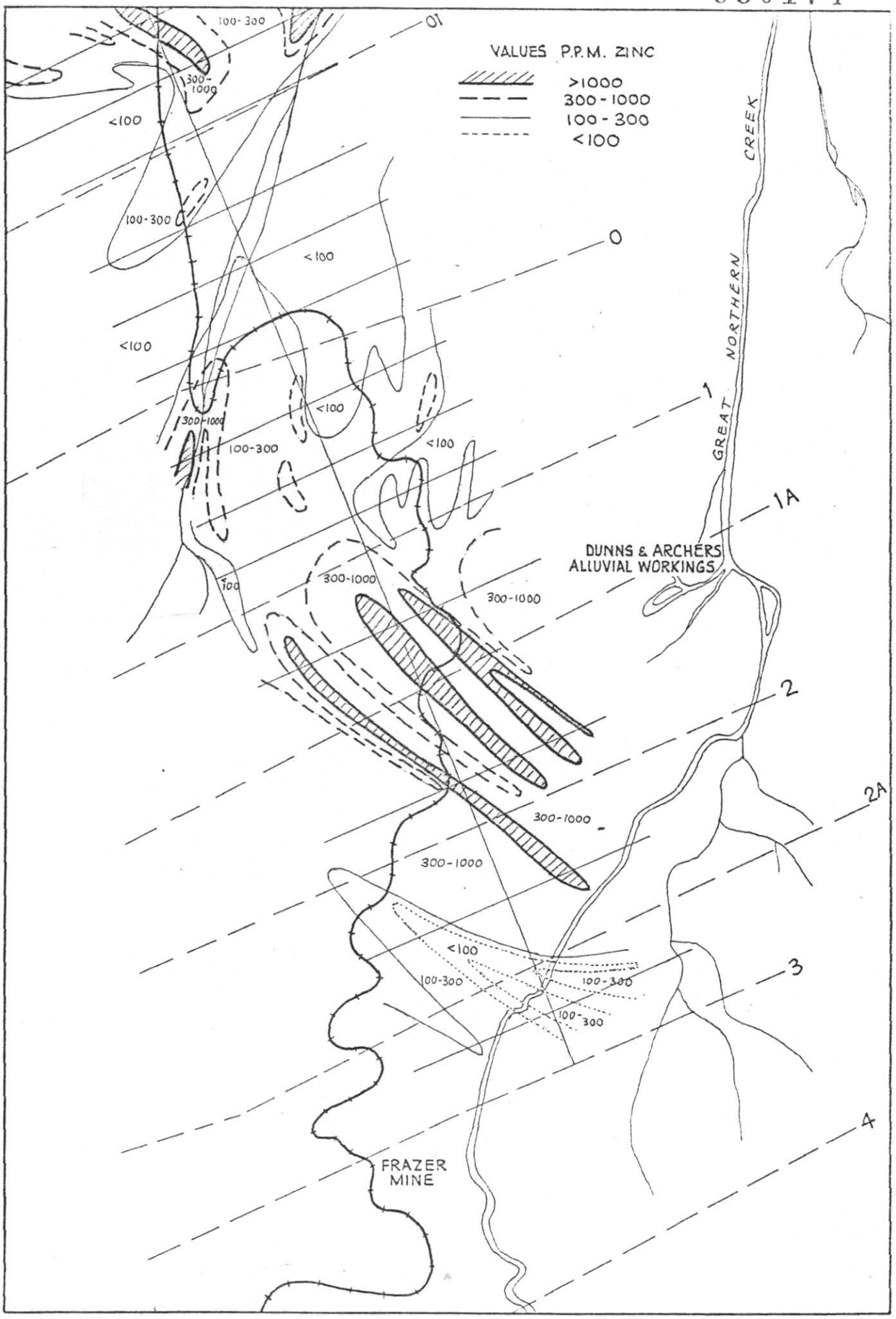


FIG. 75 DETAILED CHIP SAMPLES ZINC VALUES
ANOMALY 'A' S.P.L. 20 RENISON

5 cm

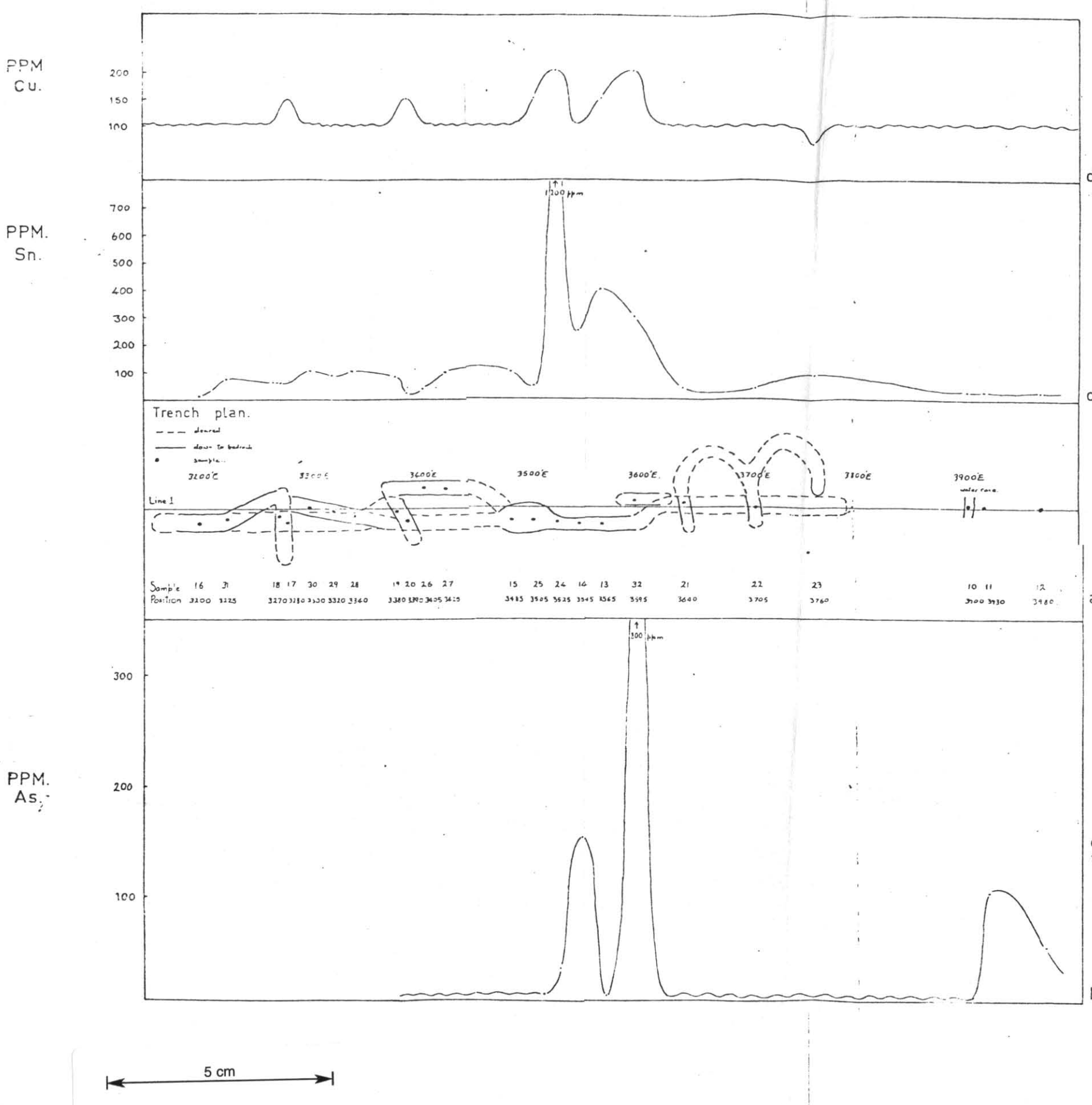


Fig. 3.

S.P.L. 20.

RENISON LTD.
Trenching & sampling on line 1. from 3200'E. to 3800'E. 50'=1".

FIG. 76 TRENCHING ACROSS ANOMALY 'A' - SPL 20 (RENISON)

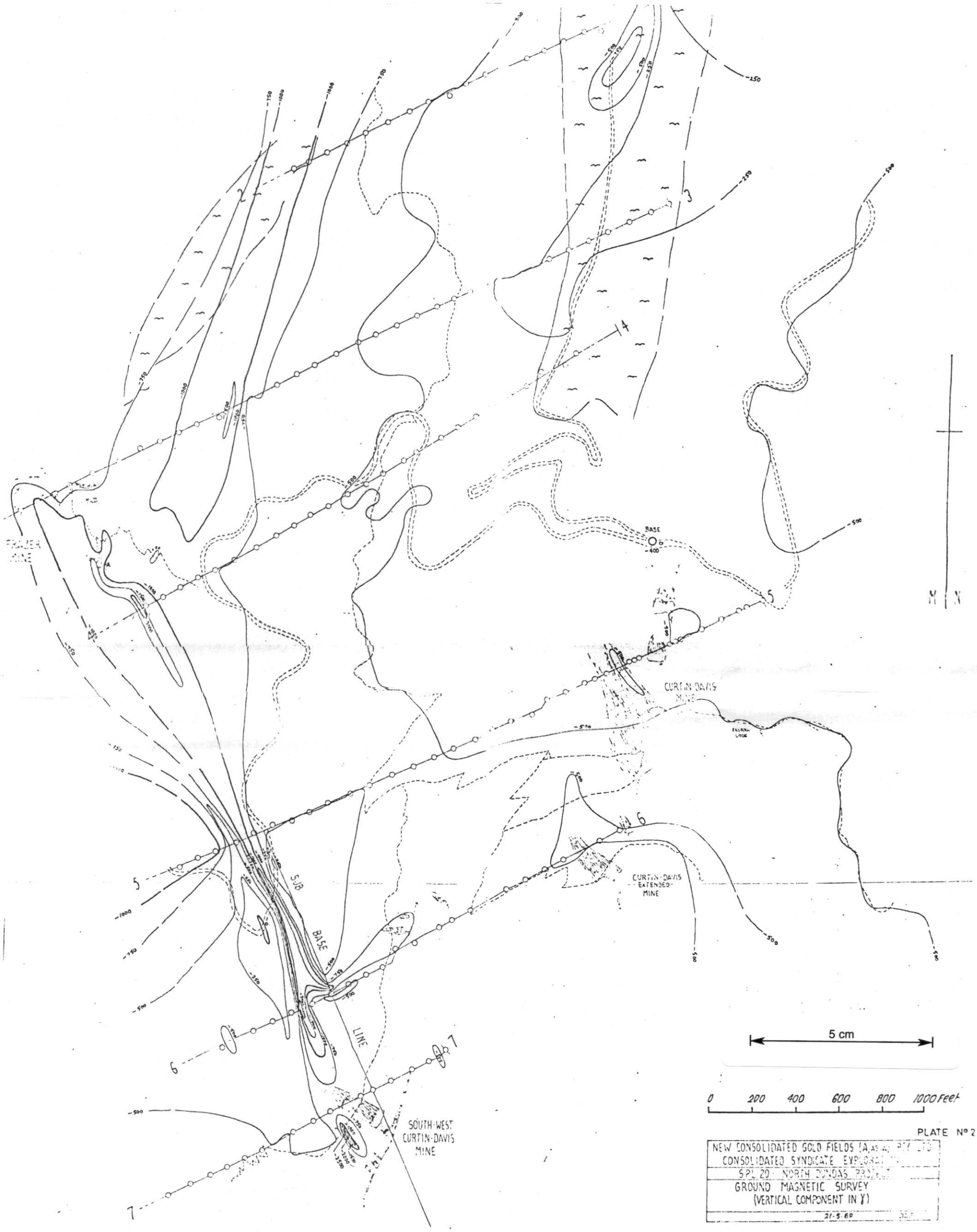


FIG. 77. ANOMALY 'A' EXTENSION - MAGNETICS - SPL20 (RENISON)

930176

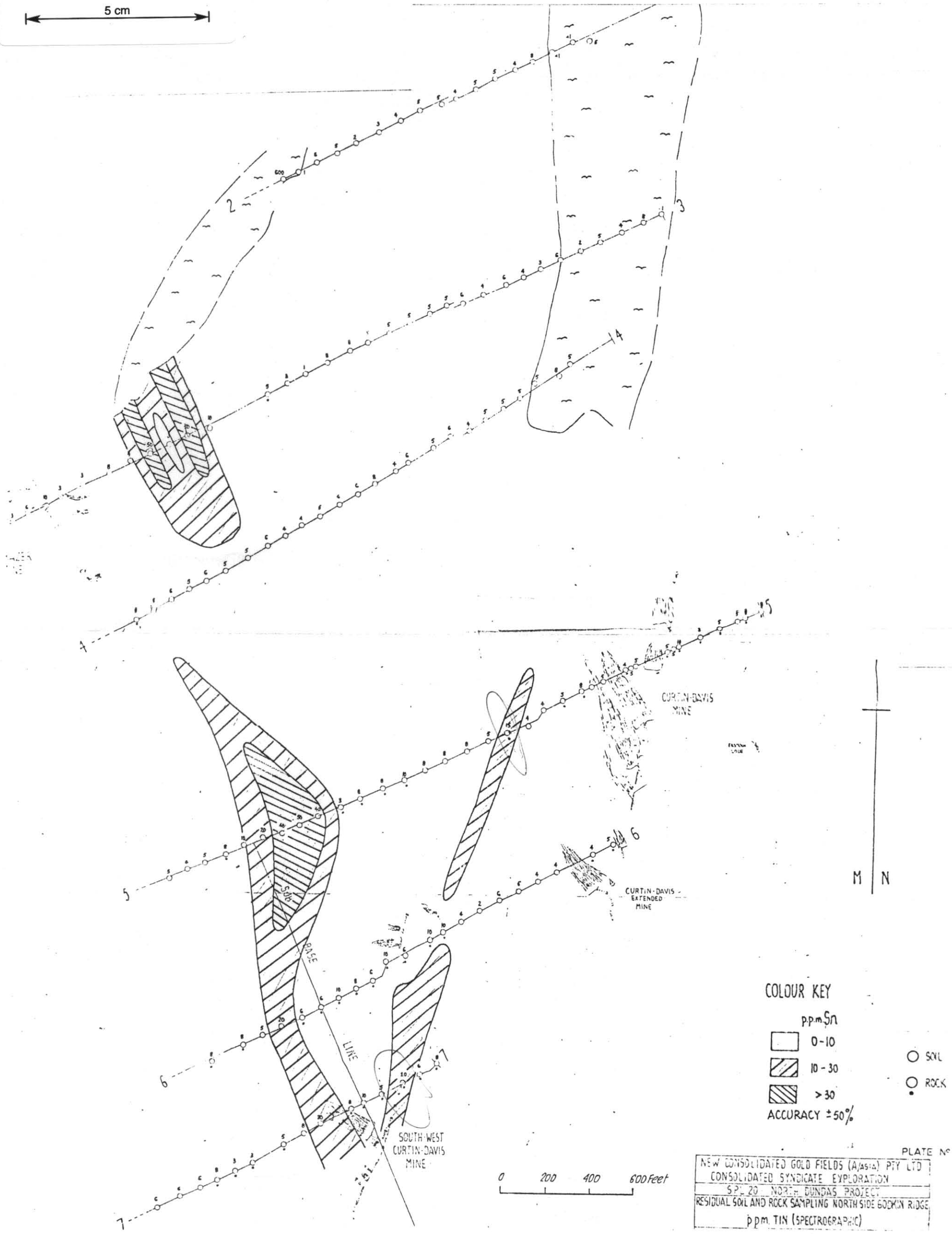


FIG. 78. ANOMALY 'A' EXTENSION ROCK & SOIL Sn VALUES - SPL 20 (RENISON)

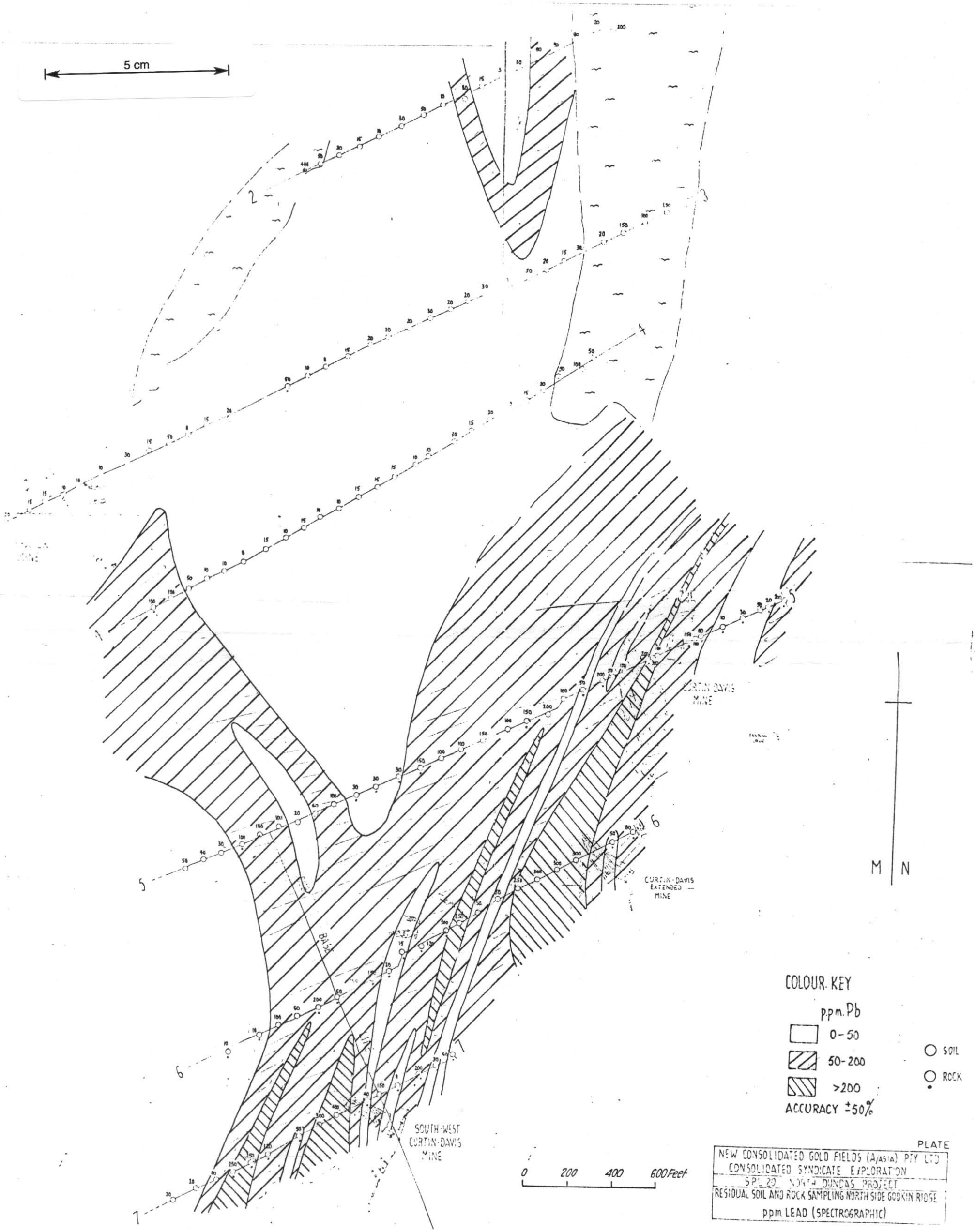


FIG. 79. ANOMALY 'A' EXTENSION ROCK & SOIL Pb VALUES - SPL 20 (RENISON)

930179

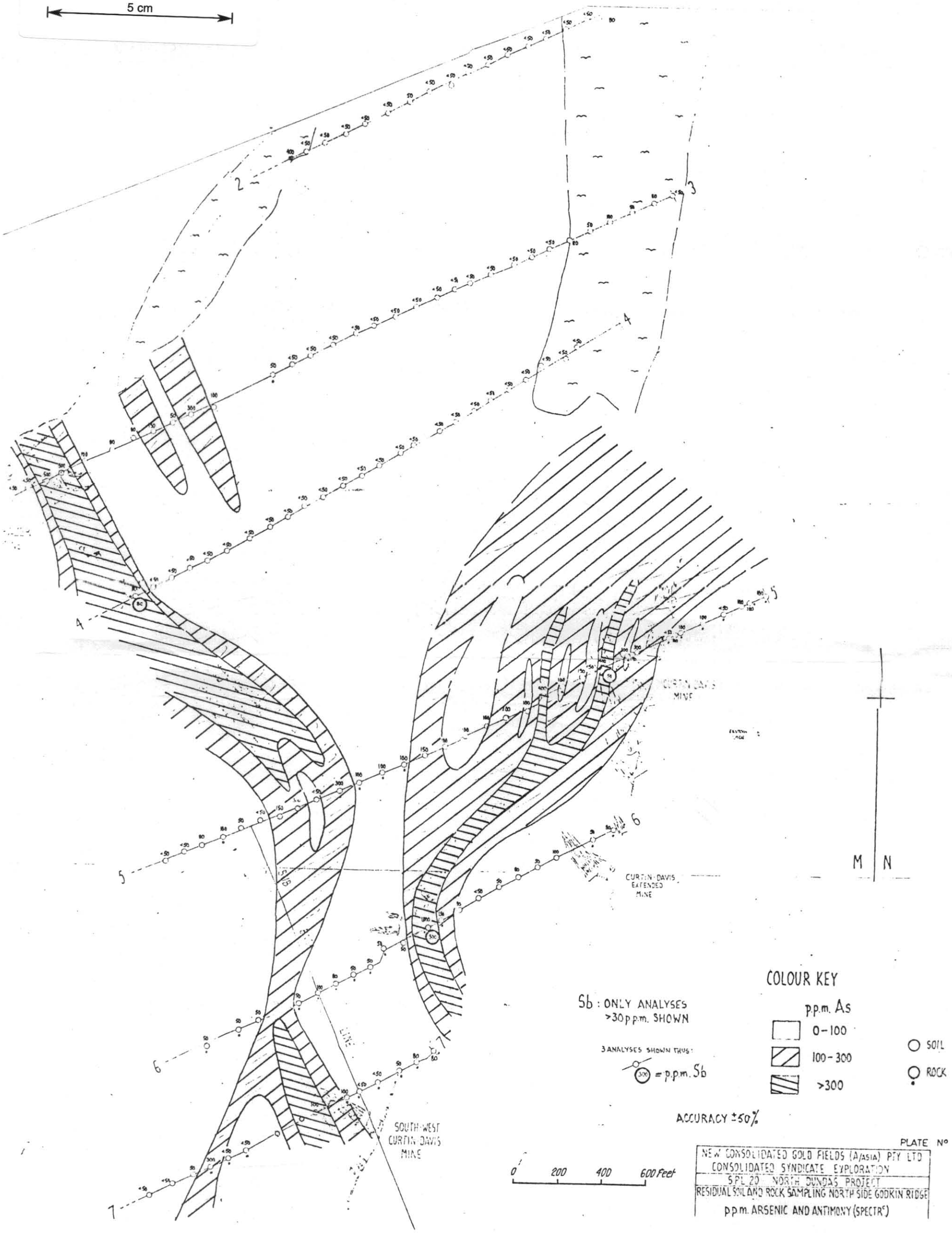


FIG. 80. ANOMALY 'A' EXTENSION ROCK & SOIL As VALUES - SPL 20 (RENISON)

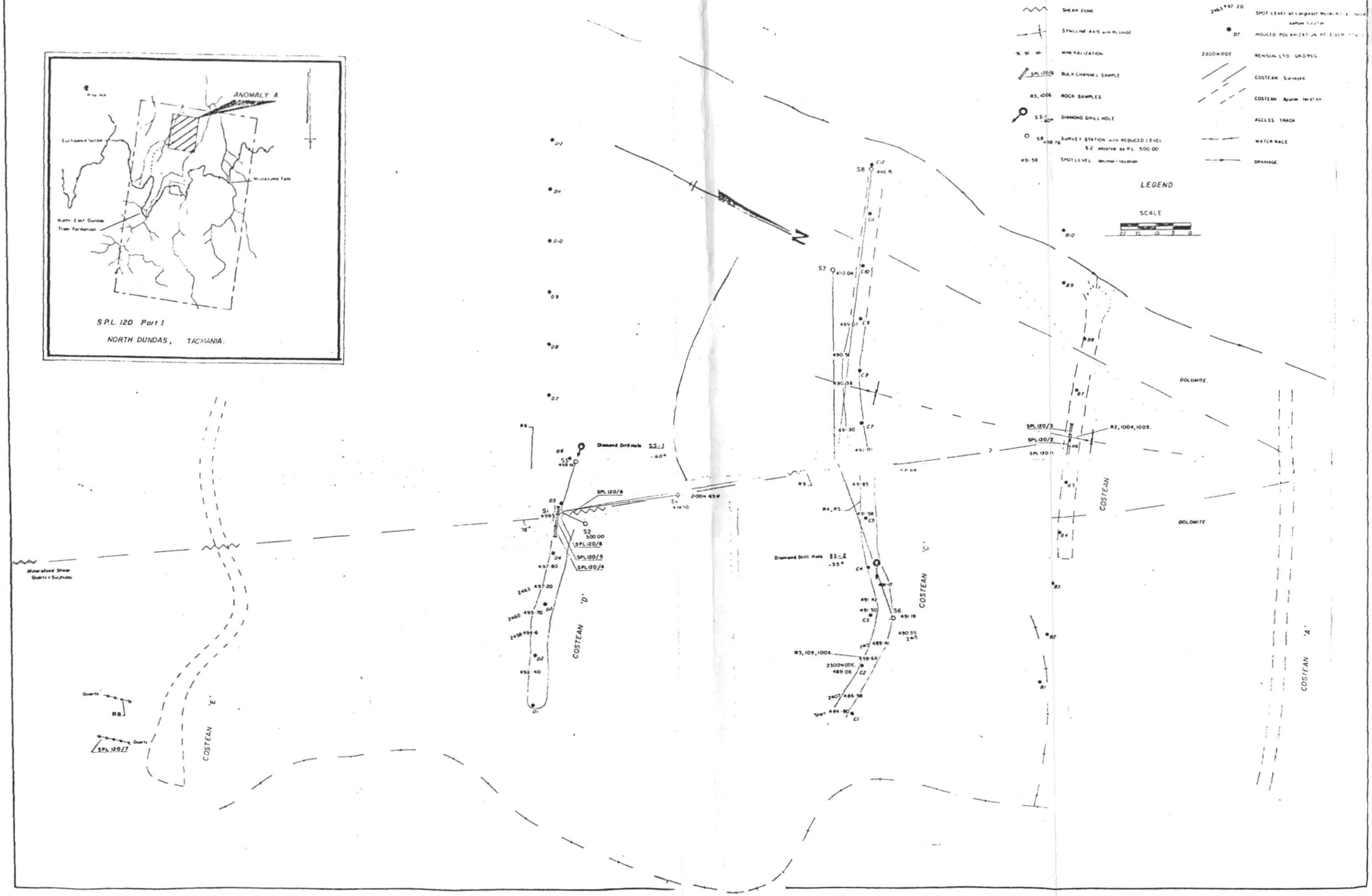


FIG. 81 MINOPS COSTEANS ANOMALY 'A' S.P.L. 120

5 cm

930181

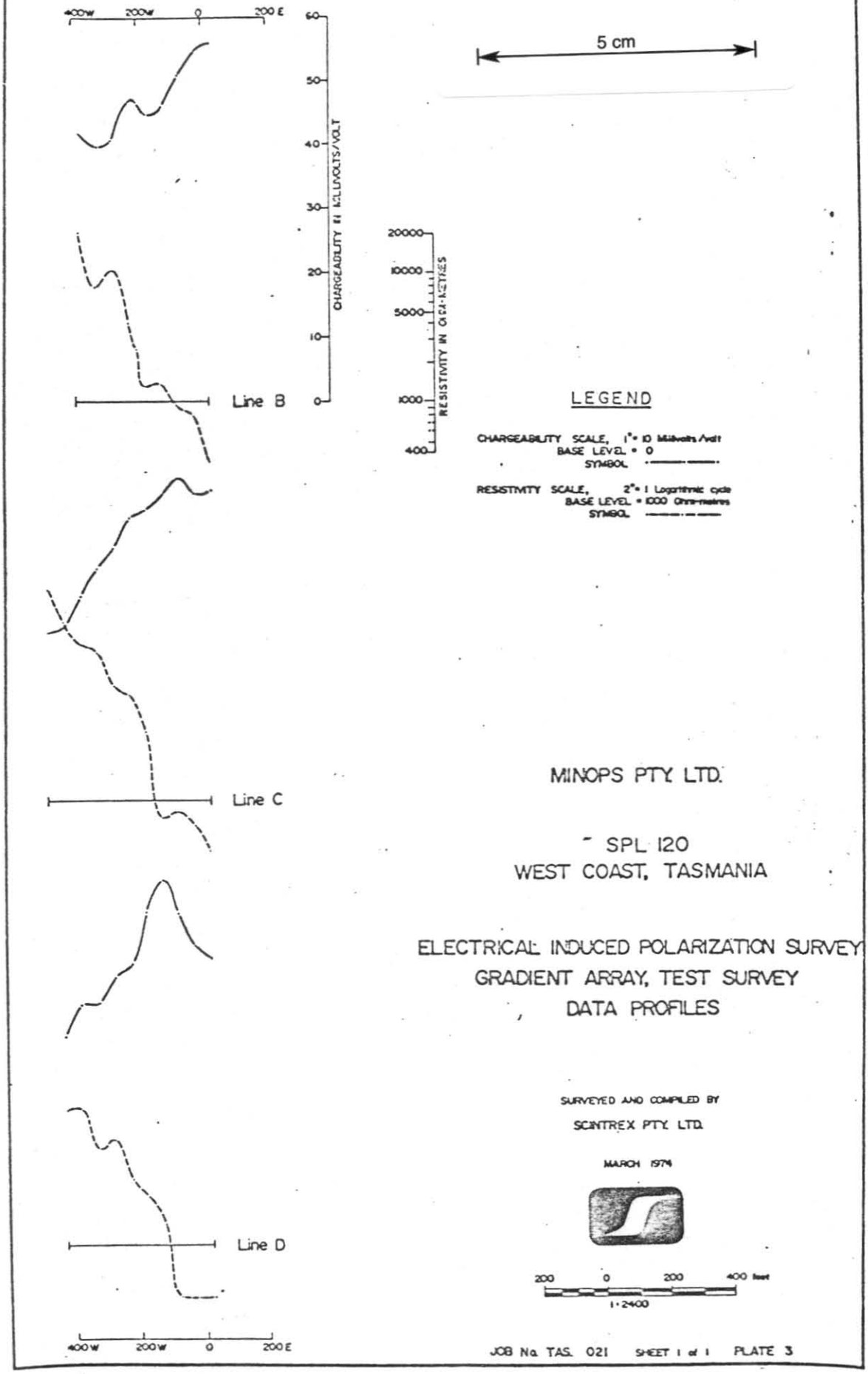
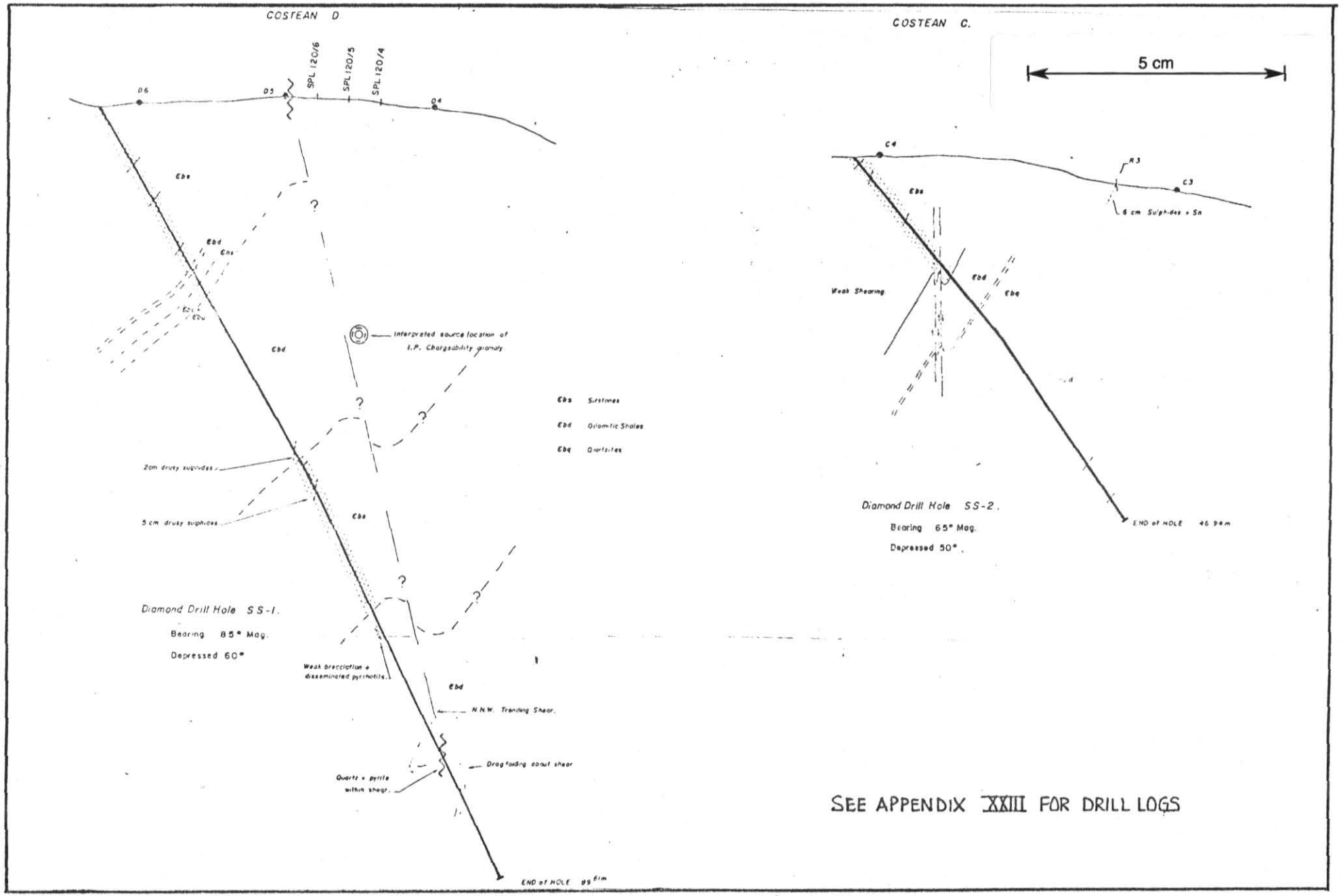


FIG. 82 I.P. DATA PROFILES MINOPS S.P.L. 120

930182



SEE APPENDIX XXIII FOR DRILL LOGS

FIG. 83 MINOPS S.P.L. 120 DRILL SECTIONS DDH SS 1 & 2

930183

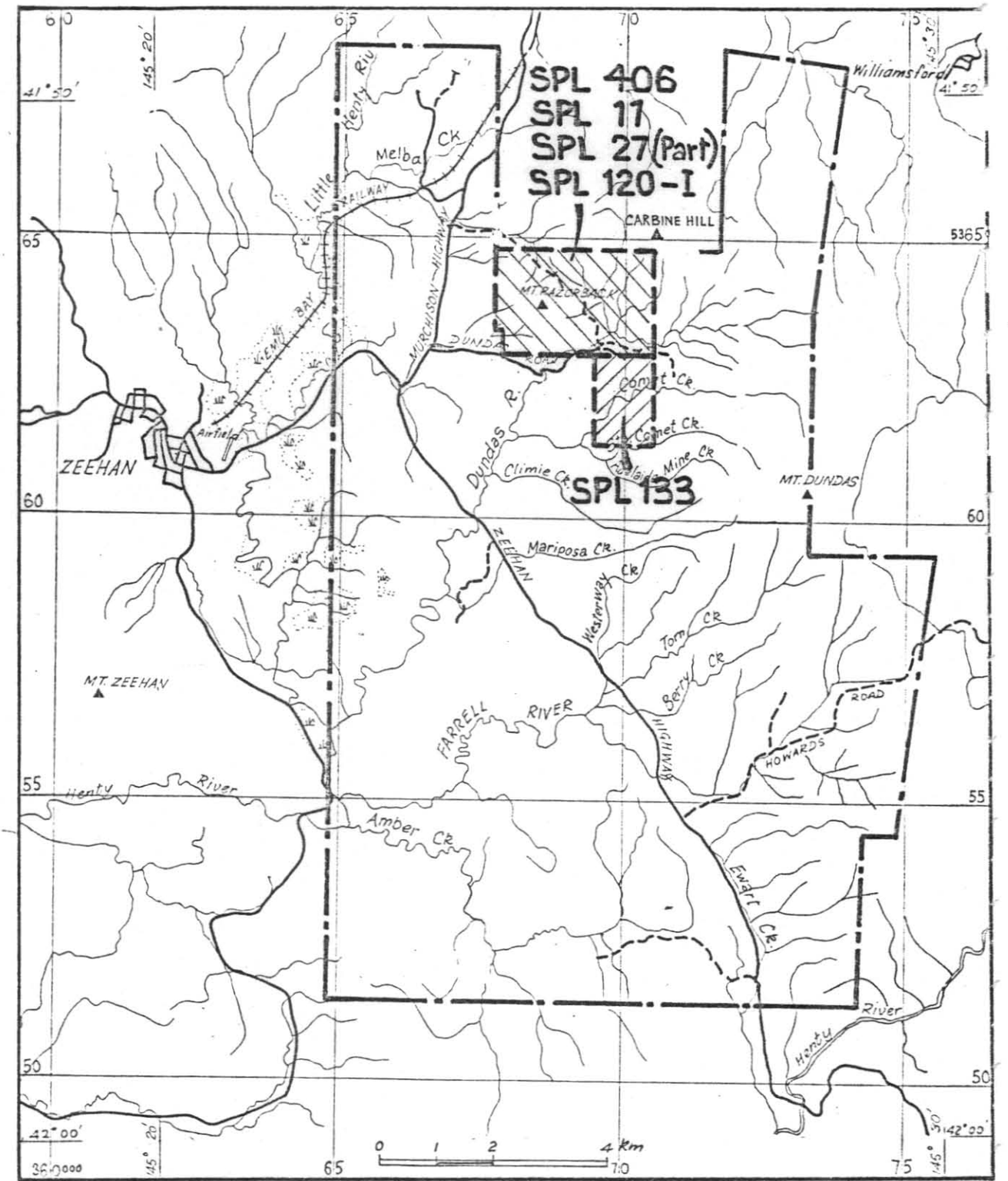


FIG. 84 LOCATION MAP - SPL 133
SPL 406 (CLUTHA), SPL 11 (R.P.J. WEEDON), SPL 27 (RENISON), SPL 120-II (MINOPS)

E.L. 15/76 DUNDAS, TASMANIA

5 cm

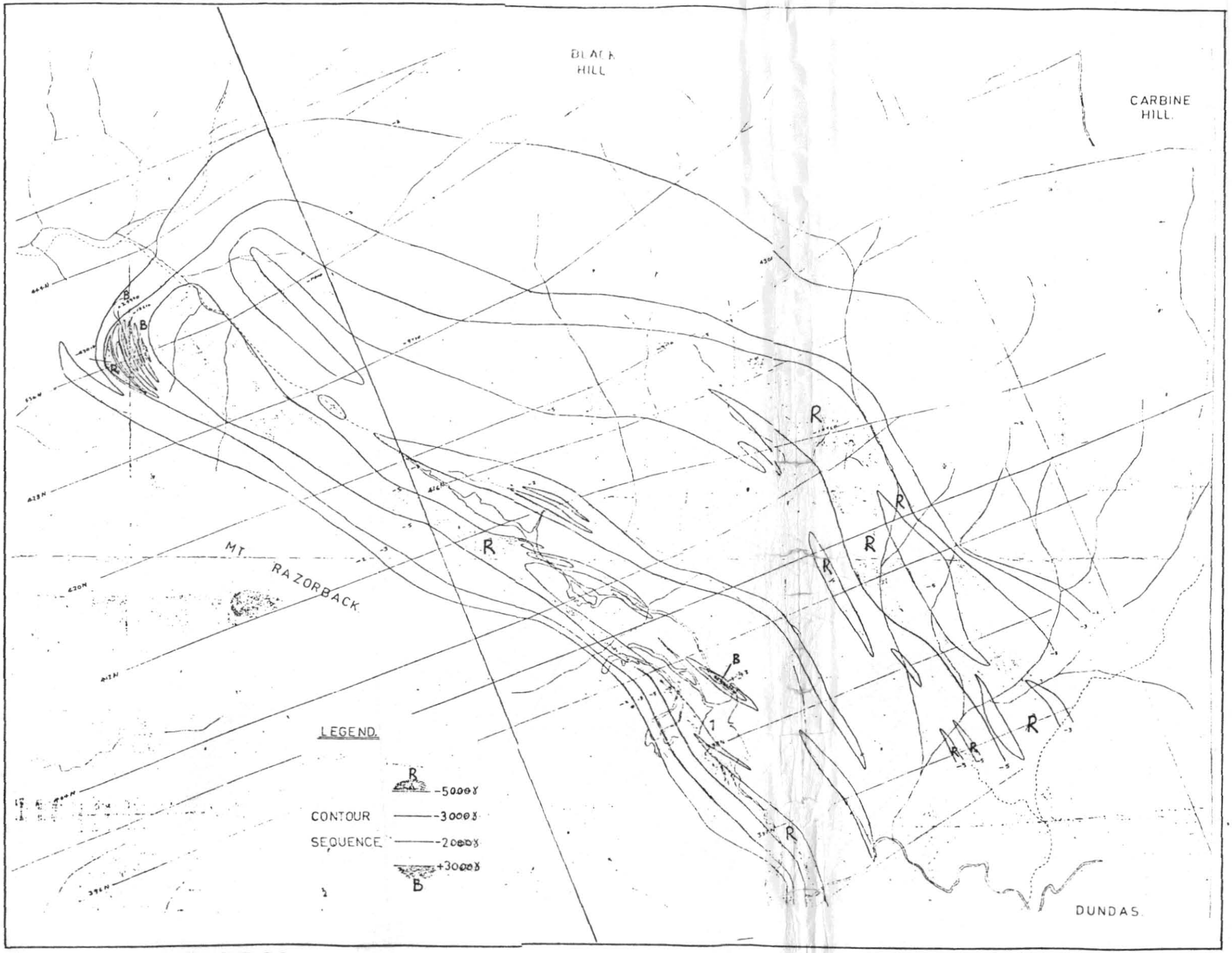


FIG. 85 MAGNETICS S.P.L. 27

5 cm

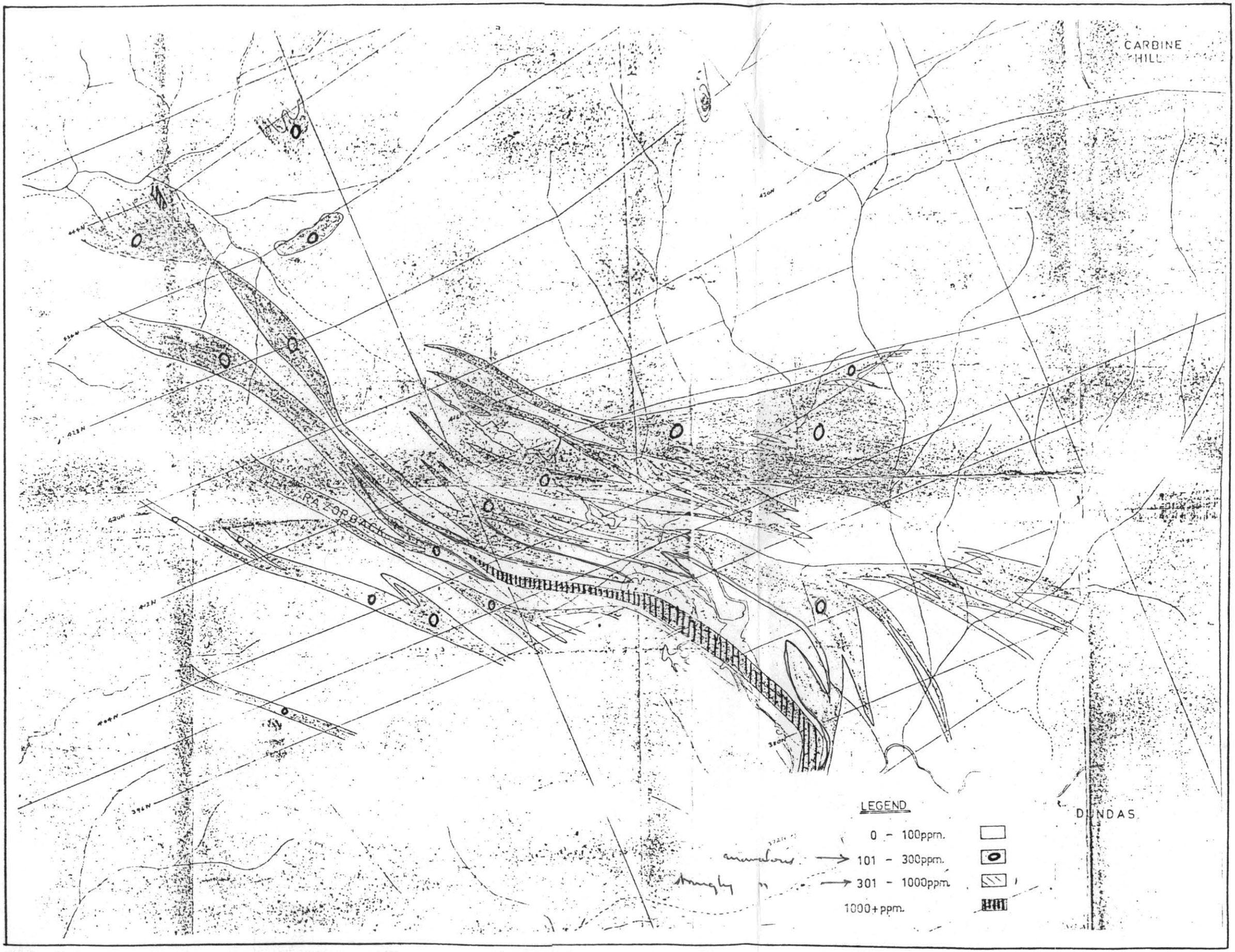
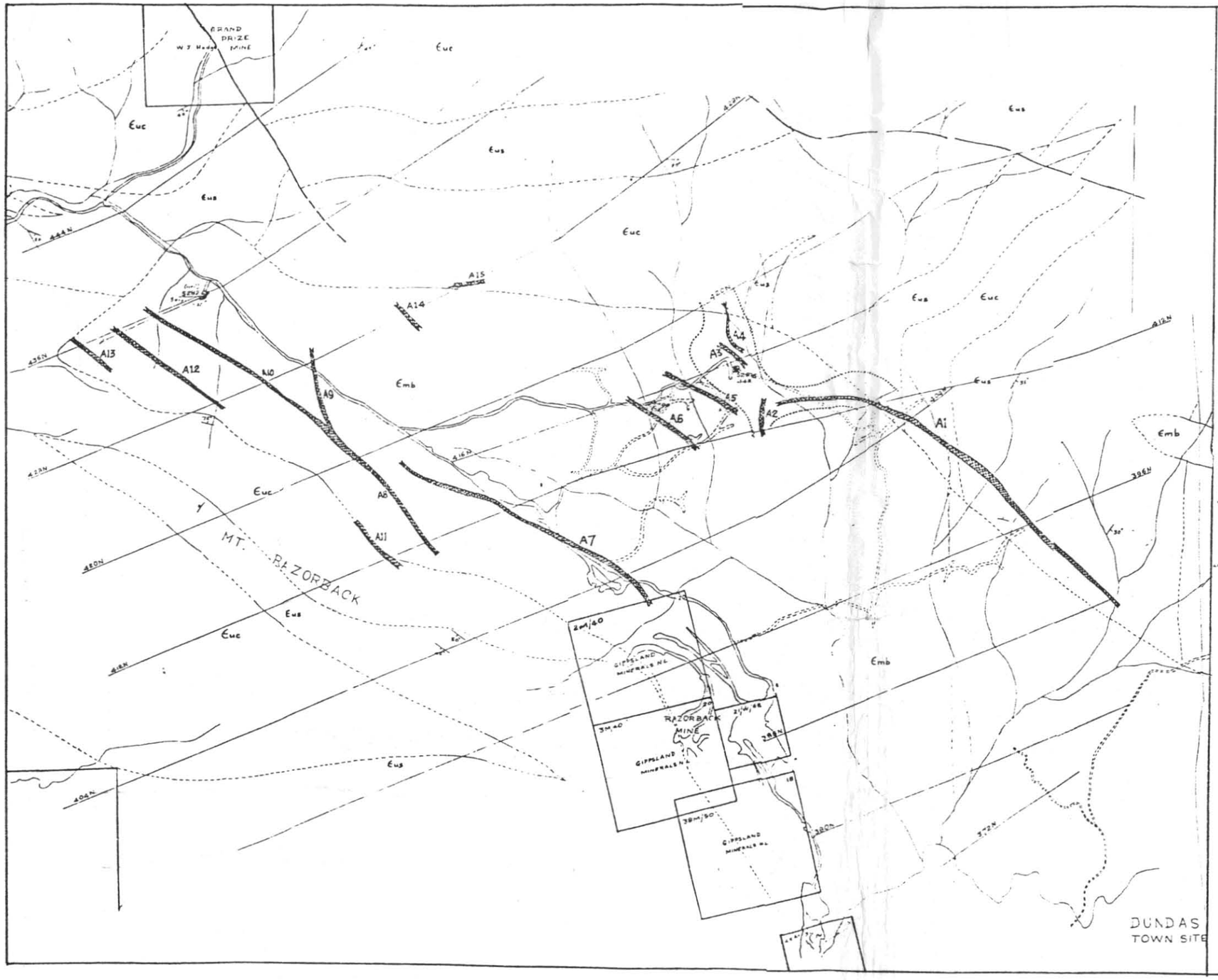


FIG. 86 TIN SOIL GEOCHEMISTRY RENISON S.P.L. 27

5 cm

930186



REFERENCE

- DEVONIAN — Dhp — Pine Hill Quartz-Porphyry
- Euf — Shales and Siltstones
- UPPER CAMBRIAN — Eus — DUNDAS GROUP Conglomerates
- Eus — Siltstones, Grits and Cherts
- Eug — Meiba Spilites
- Eut — Tremolite Rock
- MID-UPPER CAMBRIAN — Emg — ULTRA BASIC SEQUENCE Layered Gabbros
- Emp — Layered Pyroxenites & Pyroxenite-Norites
- Ems — Serpentinite with Relict Igneous Textures
- Emb — Serpentinite
- LOWER-MID CAMBRIAN — Elc — CRIMSON CREEK FORMATION Argillites
- 2KM — Grid Lines (Cut Walking Tracks)
- Geological Boundary — Known
- Geological Boundary — Inferred
- Faults — Known
- Faults — Inferred
- Drivable Roads
- Walking Tracks
- Strike and dip of Bedding & Layering
- Loose Boundaries
- Abandoned Mines
- 5700 — Diamond Drill Hole Locations
- A1 — Axes of Potentiometric Bodies
- I.P. Anomalous Zone

FIG 87 I.P. AND S.P. ANOMALIES S.P.L. 27

5 cm

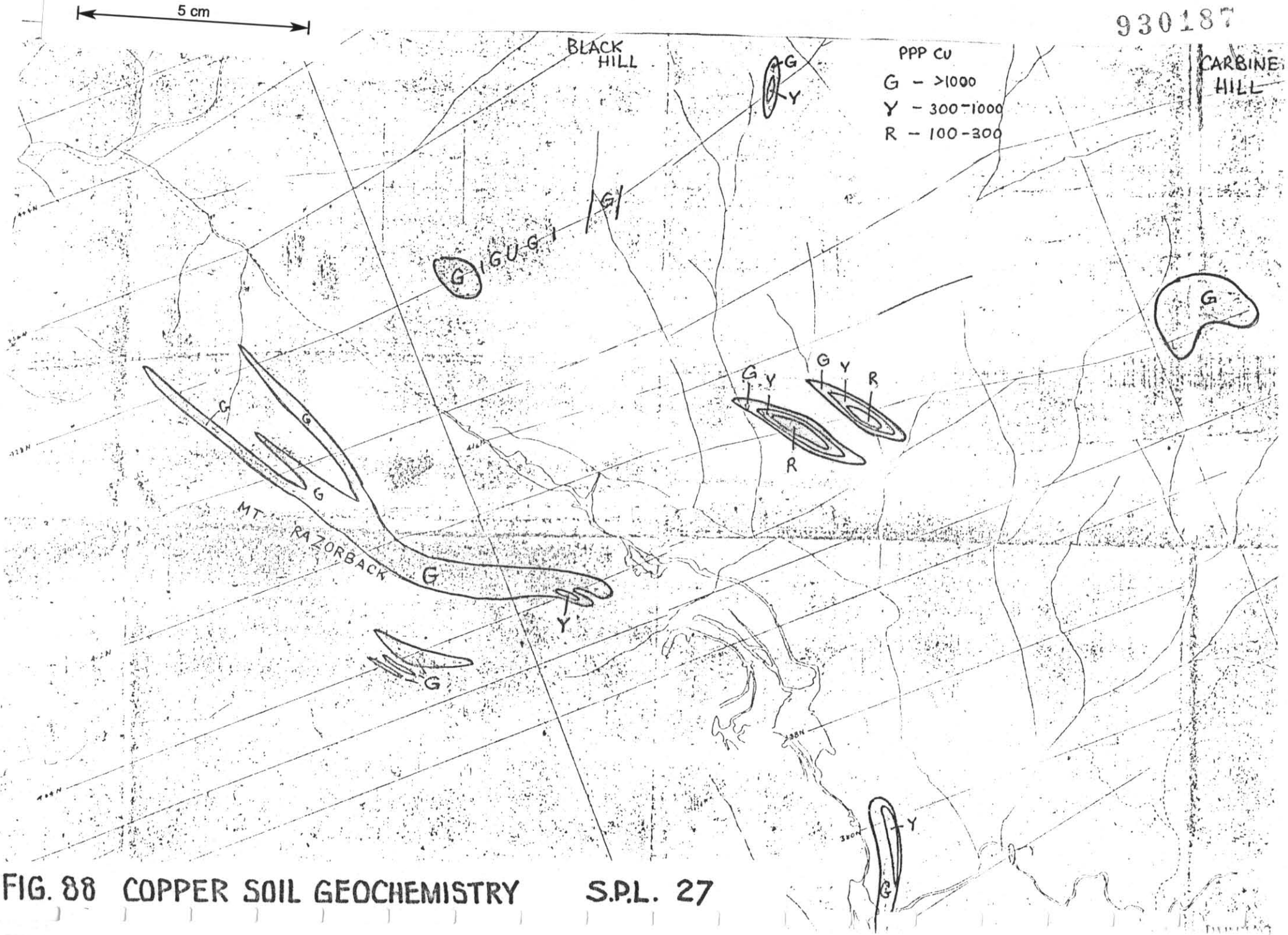


FIG. 88 COPPER SOIL GEOCHEMISTRY S.P.L. 27

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5 cm

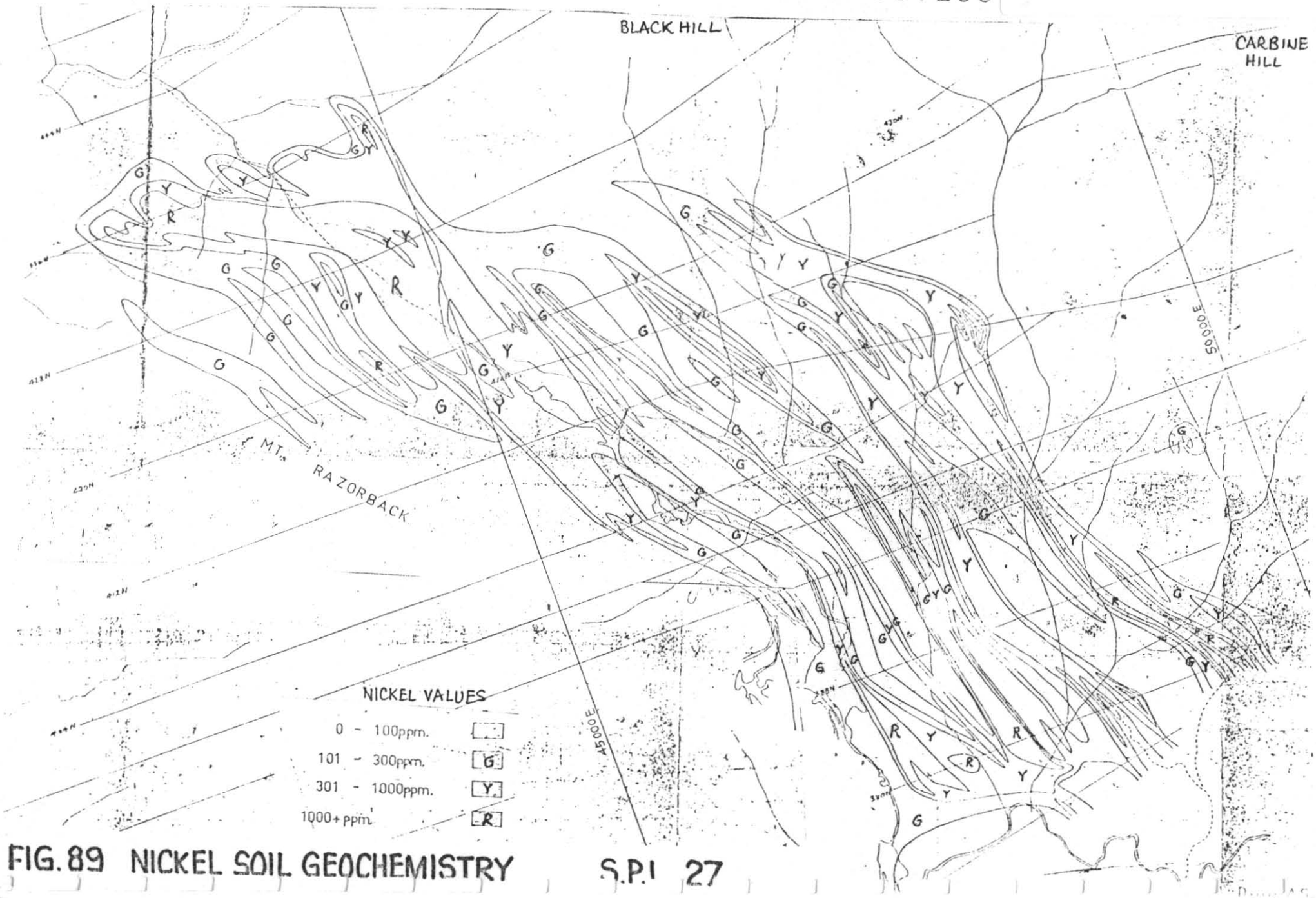


FIG. 89 NICKEL SOIL GEOCHEMISTRY S.P.1 27

930189

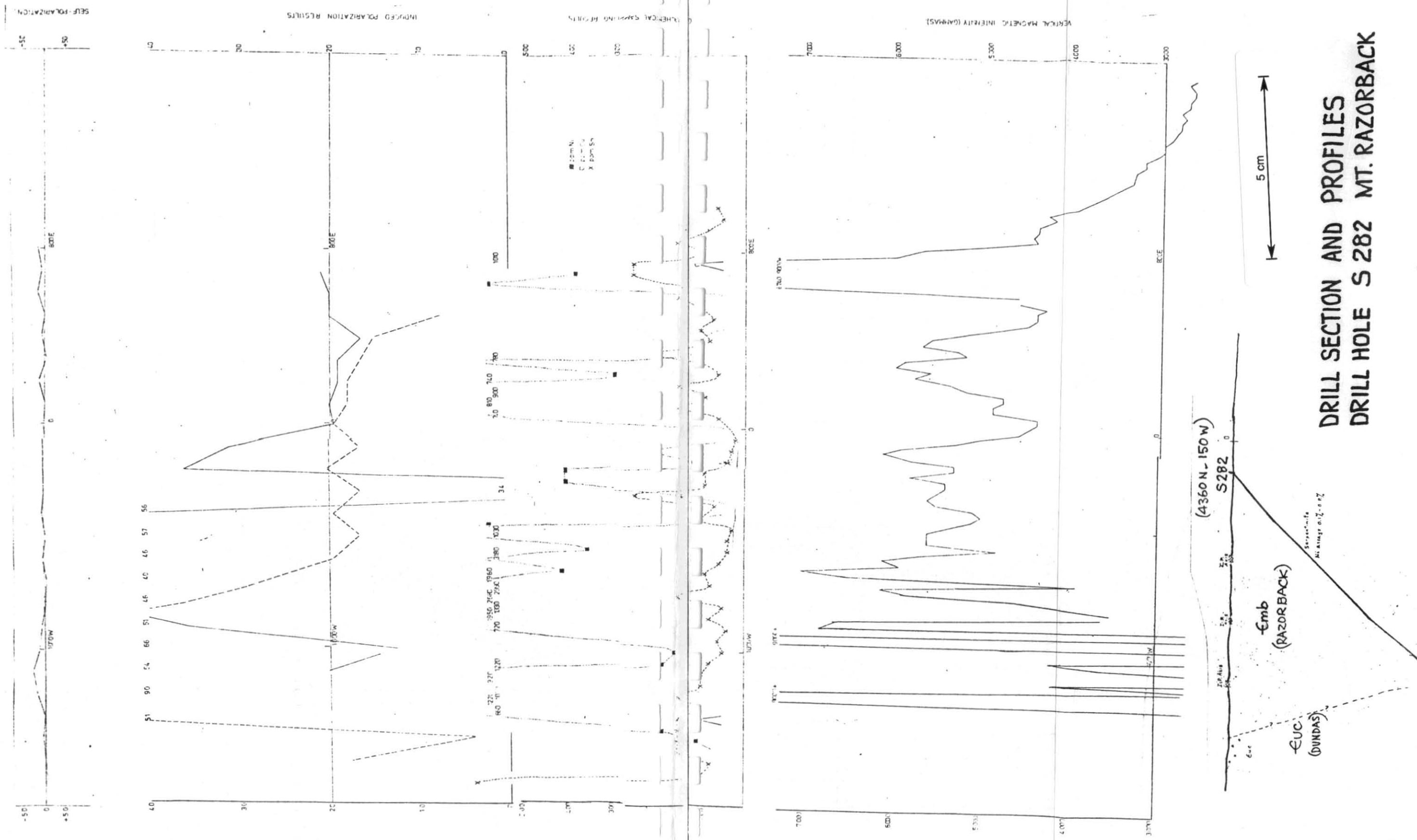
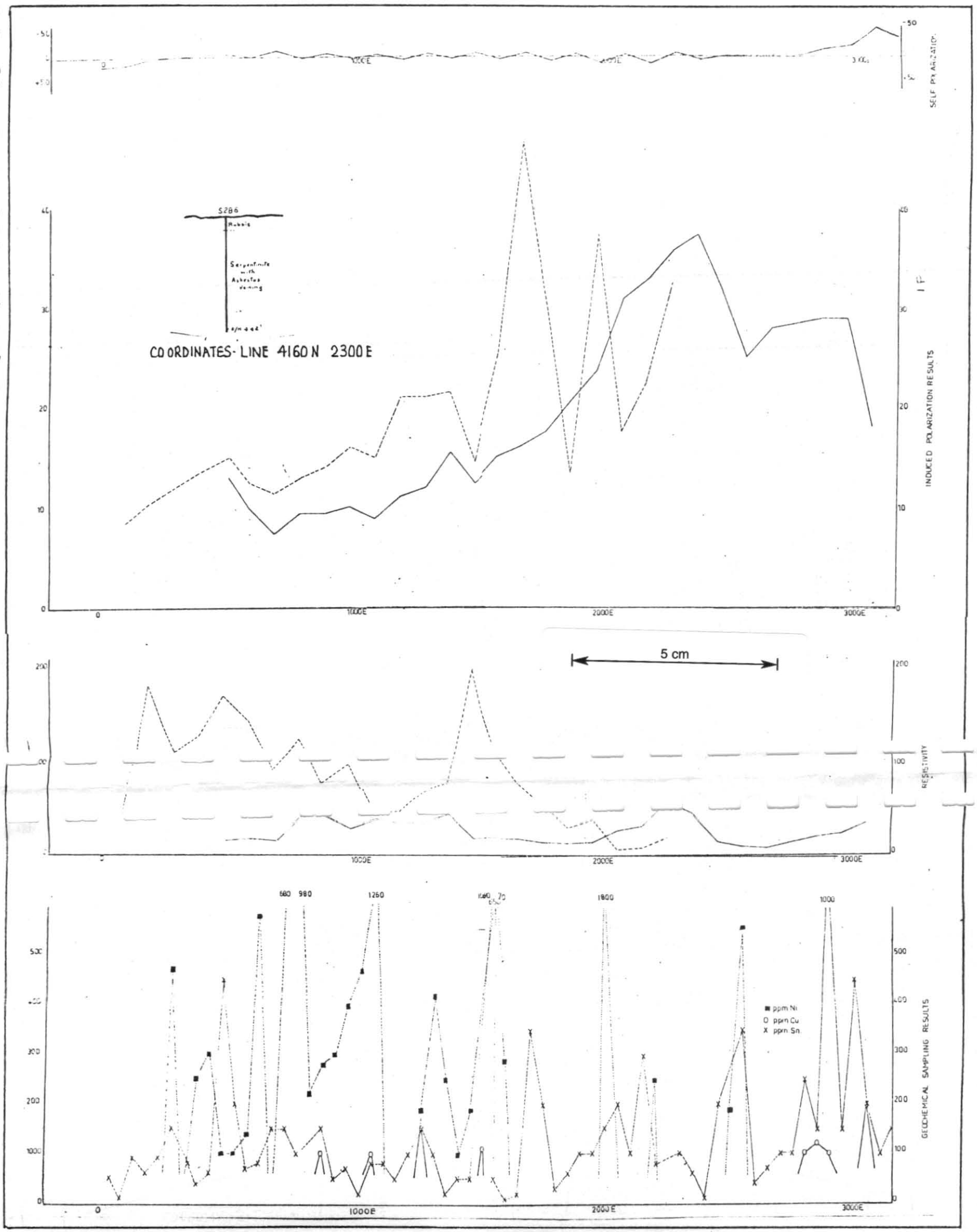


FIG. 90 DRILL SECTION AND PROFILES

FIG. 91 DRILL SECTION AND PROFILES



DRILL SECTION AND PROFILES S 286 NORTH RAZORBACK

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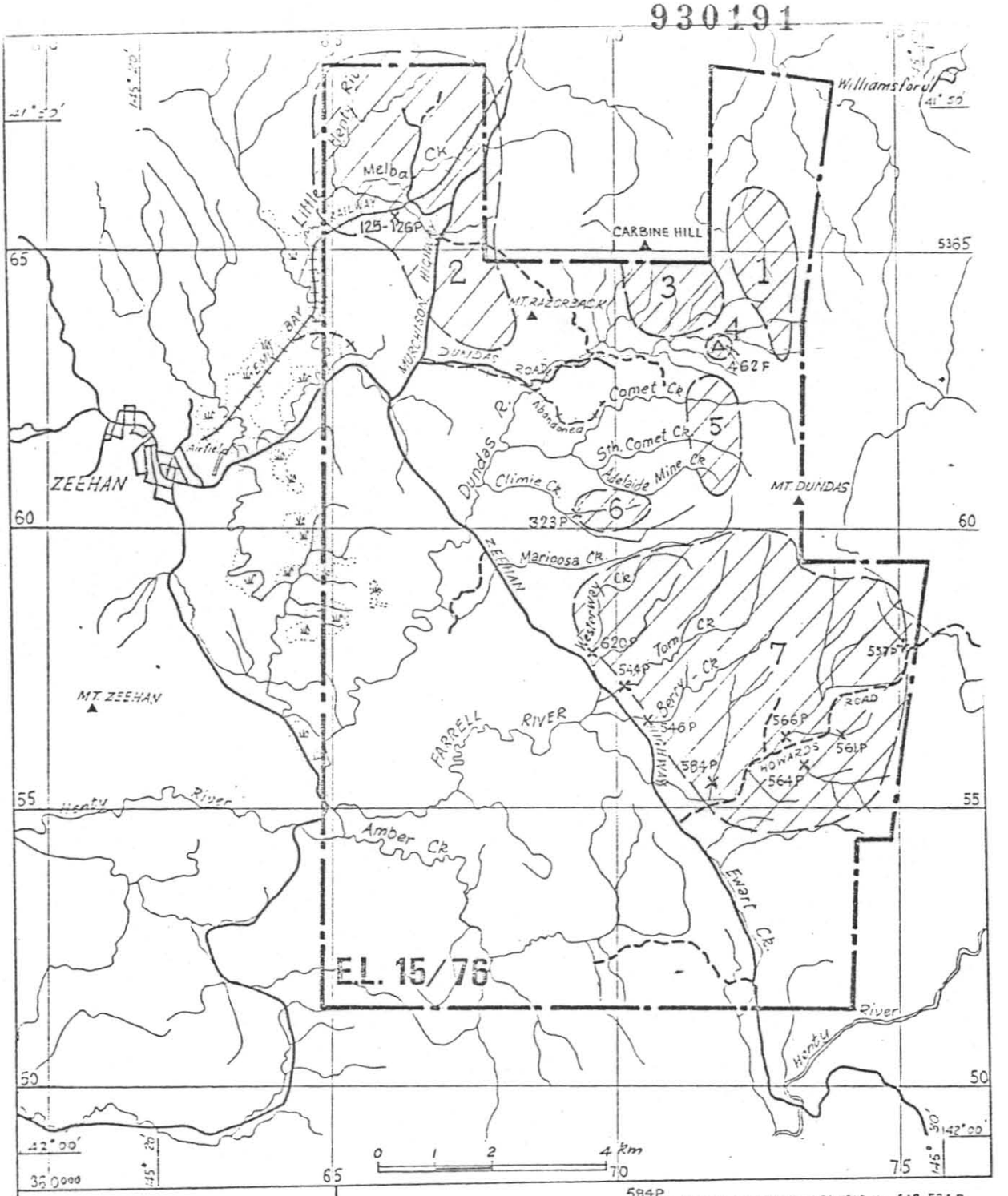

ANOMALOUS DRAINAGE AREAS AND SAMPLE LOCATIONS: 1977-1978 SURVE

E.L. 15/76 DUNDAS TASMANIA

E.M.R. 60/80

FIG. 92.

5 cm

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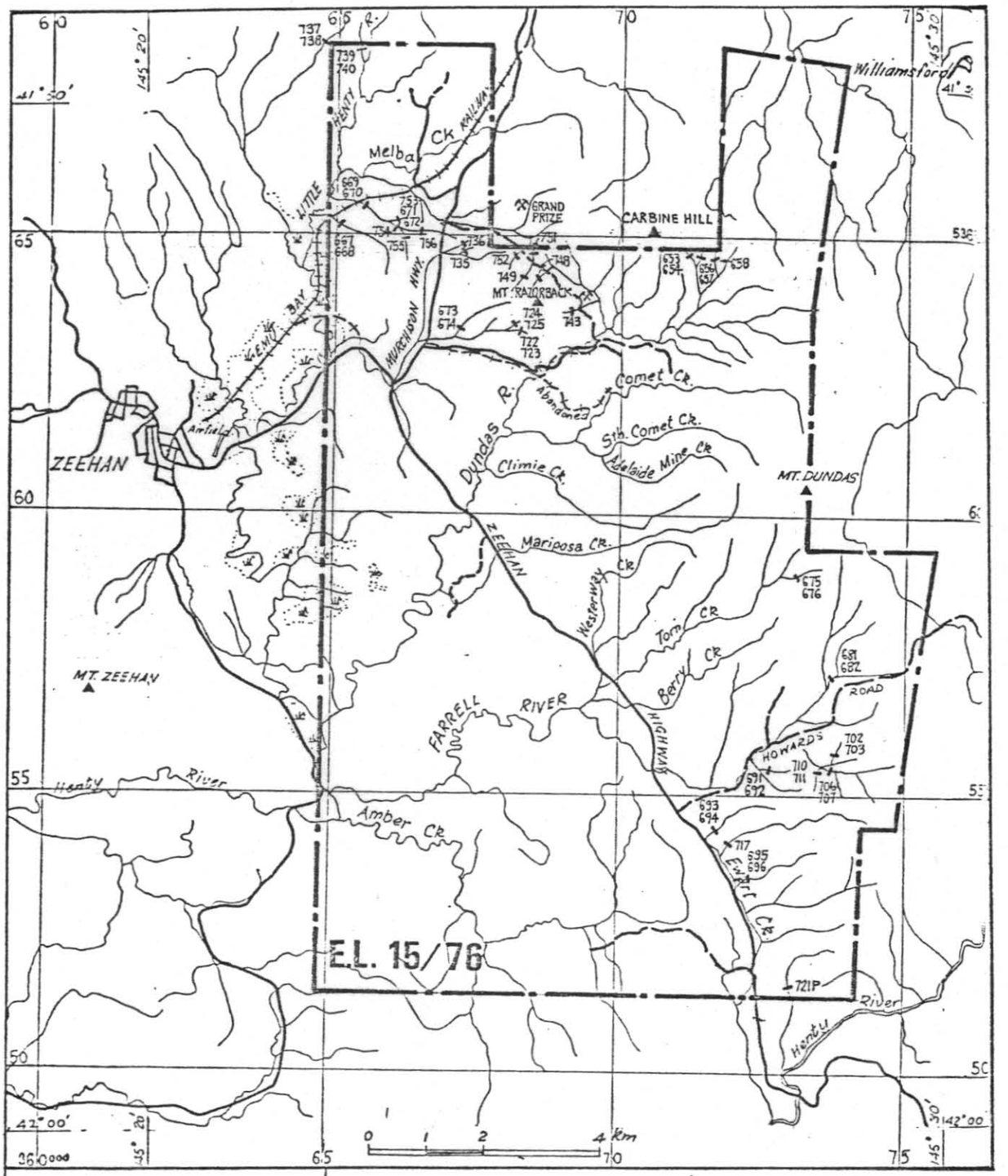
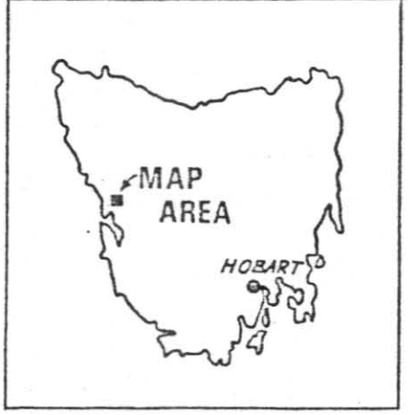


NOTE : SAMPLE No PREFIX 602
e.g. 717 (602717)



ANOMALOUS DRAINAGE AREAS AND SAMPLE LOCATIONS : 1979 SURVEY

5 cm

E.L. 15/76 DUNDAS TASMANIA

FIG. 93

930193
Prospect 602

CSR LIMITED - MINERALS DIVISION
EXPLORATION GROUP

PAST EXPLORATION WITHIN THE AREA OF EXPLORATION LICENCE 15/76 DUNDAS - TASMANIA

VOLUME III - Appendices I-XII EMR 188/82

HOBART
February 1983

P.D. ELLIS

930194

APPENDIX I

TASMANIAN DEPARTMENT OF MINES DRILL LOGS FROM THE RAZORBACK MINE DRILLING - 1958-59

CORE LOG—RAZORBACK No. 1

Drill: Goldfields No. 10 Diamond Drill.
Driller: W. Robinson.
Commenced: 8.7.58. *Inclination*: 30°
Completed: 31.7.58. *Bearing*: 290° magnetic

(Modified log after T. D. Hughes.)

From	To	Description
0′	120′	Weathered serpentine.
120′	135′	Brown clay and dolomite.
135′	143′	Hard dolomite with calcite veins. Pyritic in places. Brown clay in lower part.
143′	155′	Brown clay and dolomite passing down into hard dolomite and dolomitised serpentine.
155′	171′	Dolomite and dolomitised serpentine. Pyrite and pyrrhotite in lower part.
171′	181′	Dolomite with sparse pyrite and pyrrhotite in depth. A few calcite veins and some red siderite.
181′	188′	Dolomite with pyrrhotite. Red siderite in lower part.
188′	194′	Dolomite with a few calcite veins. Little mineralisation.
194′	200′	Dolomite. Nearly all pyrrhotite in centre.
200′	206′	Dolomite and serpentine. Pyrrhotite towards end.
206′	214′	Serpentine with carbonate-calcite veins and pyrrhotite.
214′	215′	Serpentine, dolomite and chert. Little pyrrhotite.
215′	226′	Serpentine, dolomite and chert. Breccia at end.
226′	270′	Intraformational breccia, with some weathered serpentine in lower part.
270′	271′	Breccia.
271′	275′	Black slate and breccia.

Assays of Core

From	To	Tin %	Nickel
167′	180′	0.15	Trace
180′	185′	0.24	Trace
185′	195′	Trace	Trace
195′	206′	1.16	Trace
206′	220′	0.23	Trace
206′	209′	0.17	....
209′	212′	0.10	....
212′	215′	Nil	....
215′	220′	Nil	....

CORE LOG—RAZORBACK No. 2

930195

Drill: Goldfields No. 10 Diamond Drill.
Driller: W. Robinson.
Commenced: 12.8.58. *Inclination*: 43°.
Completed: 17.9.58. *Bearing*: 227° magnetic.

(After log by T. D. Hughes and A. H. Blissett.)

From	To	Description
0′	40′	Pale green, cream and greenish-black serpentine. Weathered yellowish brown in places.
40′	60′	Mottled pale green and cream serpentine sheared between 50′ and 60′.
60′	77′	Weathered serpentine.
77′	104′	Green and dark green serpentine. Altered in places.
104′	119′	Poor cores of greenish-black and greenish-yellow serpentine.
119′	128′	Yellowish brown weathered serpentine. Some dolomite.
128′	c145′	Limonitic talcose serpentine. (Only a few fragments 136′ to 145′.)
c145′	155′	Fragment of pale crystalline dolomite.
155′	195′	Pale grey and faintly pinkish dolomite. Silicified in places. Traces of sulphides, including pyrrhotite; and magnetite.
195′	216′9″	Spongy textured limonitic leached dolomite.
216′9″	220′	Coarsely crystalline pale grey and pinkish dolomite.
220′	228′	Core lost.

After diversion: Cement from 180′ to 216′ 9″.
216′9″ — 217′ Dolomite.

Recovery:

From	To	Core Length	From	To	Core Length
0′	30′	1′ 6″	123′	127′	7″
30′	35′	3′ 6″	127′	136′	1′ 5″
35′	40′	3′ 2″	136′	145′	4″
40′	45′	2′ 5″	145′	155′	4″
45′	50′	3′ 3″	155′	158′	1′
50′	55′	3′ 1″	158′	176′	13′
55′	60′	3′ 6″	176′	186′	2′ 6″
104′	109′	1′ 6″	186′	195′	8′
109′	115′	2′ 3″	195′	220′	1′ 5″
115′	118′	1′ 6″	220′	228′	Nil
118′	123′	1′10″			

Assays:

Material	From	To	Tin %
Core	136′	155′	Nil
Sludge	136′	155′	2.26
Core	155′	166′	Nil
Core	166′	170′	Nil
Sludge	186′	195′	Nil
Sludge	195′	215′	2.32
Sludge	215′	225′	0.98
Sludge	225′	228′	3.21

CORE LOG—RAZORBACK No. 3

Drill: Goldfields No. 10 Diamond Drill.

Driller: W. Robinson.

Commenced: 20.1.1959. *Inclination*: 46°.

Completed: 27.2.1959. *Bearing*: 254° magnetic

(After log by A. B. Gulline.)

From	To	Description
0′	25′	Gossan material with siliceous matrix.
25′	65′	No recovery.
65′	70′8″	Leached porous ironstained talcose serpentine.
70′8″	93′	Grey dolomite with specks of pyrite, magnetite and galena. Veins of galena 86′10″ to 86′10½″ and 88′2″ to 88′2½″.
93′	95′	Dolomite. Contorted and brecciated.
95′	105′	Dolomite with specks of magnetite. Veins of galena 99′5″ to 99′5½″.
105′	115′	Leached dolomite.
115′	126′7″	Dolomite.
126′7″	136′	Highly leached limonitic and silicified dolomite.
136′	142′6″	Dolomite. Slightly leached and ironstained.
142′6″	143′6″	Dolomite with thin veins of pyrite and magnetite. Traces of galena.
143′6″	151′6″	Grey dolomite with specks of magnetite.
151′6″	194′	Talcose dolomite. Traces of sulphides.
194′	201′3″	Dolomite with thin veins and streaks of pyrite and magnetite.
201′3″	217′5″	Impure dolomite with veins and disseminations of magnetite, pyrite and ? pyrrhotite.
217′5″	227′	Talcose rock with residual carbonates. Traces of iron oxide.
227′	260′	Fine to medium grained talcose rock. Traces of carbonates.

RAZORBACK No. 3

Recovery:

Drillers Measurement			Core Recovery
0′	— 15′	15′	1′ 0″
15′	— 21′	6′	0′ 2″
21′	— 25′	4′	0′ 4″
25′	— 65′	40′	No recovery
65′	— 71′	6′	0′10″
71′	— 80′	9′	4′ 8″
80′	— 85′	5′	5′ 0″
85′	— 90′	5′	4′10″
90′	— 95′	5′	5′ 3″
95′	— 105′	10′	9′ 9″
105′	— 115′	10′	1′ 6″
115′	— 125′	10′	9′10″
125′	— 130′	5′	2′ 0″
130′	— 135′	5′	0′ 8″
135′	— 143′	8′	3′ 2″
143′	— 150′	7′	6′ 0″
150′	— 155′	5′	5′ 0″
155′	— 165′	10′	10′ 0″
165′	— 170′	5′	5′ 5″
170′	— 180′	10′	8′ 5″
180′	— 190′	10′	10′ 0″
190′	— 200′	10′	9′ 9″
200′	— 210′	10′	9′11″
210′	— 220′	10′	9′10″
220′	— 229′	9′	9′ 0″
229′	— 240′	11′	10′ 2″
240′	— 250′	10′	9′11″
250′	— 251′	1′	0′11″
251′	— 255′	4′	3′ 7″
255′	— 260′	5′	1′ 4″

Assays:

From	To	Tin %
0′	65′	Nil
105′	143′	Nil
194′	200′	0.46
200′	210′	Nil
210′	220′	0.22
220′	230′	Nil
230′	250′	Nil
250′	260′	Trace

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APPENDIX II

TASMANIAN DEPARTMENT OF MINES DRILL LOGS FROM THE RAZORBACK/GRAND PRIZE AREA DRILLING, 1962

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Appendix II

DRILLING RESULTS

(see Figure 3)

Grand Prize Grid.

Two diamond drill holes were bored to test the anomaly between 16S/500E and 18S/500E. D.D.H. No. 1 was sited at 1576S/475E on a bearing of 80° magnetic and inclined at an angle of 50°. The core log is summarized as follows:—

Depth From	Depth To	Rock Type
0	71′	Conglomerate, greywacke and grey-brown siltstone. No sign of sulphide mineralization.
71′	87′	Decomposed gossanous serpentine. Poor core recovery. No evidence of sulphides.
87′	330′ 6″	Serpentine with colour variation from dark green to pale yellow-green and creamy white. Magnetite is commonly associated with slip-fibre chrysotile and picrolite which in places amounts to about 5% of the volume. Stichtite occasionally noted. No sulphides recorded.

D.D.H. No. 2 was sited at 17S/700E on a magnetic bearing of 251° and inclined at an angle of 50°. This hole was entirely in serpentine for its total length of 201 feet. The serpentine is yellow-brown and decomposed for the first 57 feet, but thereafter shows the same characteristic colour variation from dark to pale green as in D.D.H. No. 1. The proportion of asbestos and associated magnetite is rather higher in the core from this hole. Strong segregations of finely crystalline granular magnetite occur along the slip planes in the serpentine. There is no evidence of sulphide mineralization.

Assay of the core from two holes yielded the following results:—

	Sn %	Ni %
D.D.H. No. 1.		
71′ — 87′	Nil	0.40
148′ 6″ — 152′ 8″	,,	0.24
255′ — 257′ 2″	,,	0.30
297′10″ — 301′	,,	0.39
D.D.H. No. 2.		
74′ — 76′	Nil	0.30
100′ — 111′	,,	0.28
116′ — 120′	,,	0.24

In view of the absence of any encouraging sign of sulphide mineralization in 530 feet of core it was not considered worthwhile to explore this anomaly further. The drilling indicated an extension of the serpentine further to the east than as shown on the geological map. The magnetic anomaly can be presumed due to the presence of abundant magnetite in the serpentine. All asbestos in the core is of the slip-fibre variety with a high proportion of the splintery variety, picrolite, intergrown with the chrysotile.

The Grand Prize mine was not included in the geophysical survey, but, while the drill was in the area, it was decided to test for a possible southern extension of the Grand Prize Lode. South of the workings, on the ridges south of Nevada Creek, a gossan outcrop can be followed intermittently for a distance of about 700 feet. Craze's Adit, which is situated on the access road to the mine, was designed to explore the southerly extension of the ore body but was abandoned before the mineralized zone was reached. D.D.H. No. 3 was sited on the access road at 4S/450E between the adit and the mine on a bearing of 81° magnetic and depressed at an angle of 20°.

The core log of D.D.H. No. 3 is summarized as follows:—

Depth From	Depth To	Rock Type
0	— 118′	Yellow-brown siltstone and greywacke conglomerate.
111′	— 213′	Brown decomposed conglomerate, practically no core recovery.
213′	— 270′	Grey slate and siltstone.
270′	— 271′	Reddish brown gossanous ironstone.
271′	— 273′ 6″	Greywacke conglomerate with abundant pyrite. Pyrite partly oxidized.
273′ 6″	— 278′	Greywacke conglomerate with pyrite.
278′	— 329′ 6″	Greywacke conglomerate with no pyrite. Conglomerate is fresh and unaltered.

It would appear that the borehole intersected a wide fault or shatter zone prior to reaching the mineralized zone on the footwall. Core recovery from the 6 feet wide sulphide zone was poor and the assay values disappointing as shown below.

Depth		Material	Sn (%)
270′	— 271′	Ironstone gossan	Less than 0.05
271′	— 273′ 6″	Sulphides	Nil
273′ 6″	— 277′	Sulphides	Nil
270′	— 275′	Sludge	Less than 0.05

Despite the low assay results the drill hole, nevertheless, confirmed the southerly extension of the Grand Prize mineralized zone.

Intermediate and Razorback Grids

Two holes were drilled to test the strong Turam indication at the northern end of the Razorback grid between 36N/950W and 41N/1350W.

D.D.H. No. 4 was cited at 46E/850S (on the intermediate Grid) on an azimuth of 265° magnetic and inclined at an angle of 45°. Excellent core recovery was achieved in this hole which was entirely in serpentine for its full length of 338 feet. No indication of any sulphide mineralization was detected. The only unusual features were the appearance of abundant calcite in open fractures in the serpentine in the upper weathered section and the strong blue-green

tints in the slip fibre picrolite and talc. The colour suggests the presence of the chromiferous mica, fuchsite.

Assay of the core for nickel and chomium gave the following results:—

Depth From	Depth To	Ni %	Cr %
0′	18′	0.25	0.05
18′	31′ 5″	0.25	0.05
31′ 5″	45′	0.22	0.05
260′	275′	0.24	0.08
275′	290′	0.29	0.04
290′	300′	0.24	0.06

D.D.H. No. 5 was sited at 38N/950W (Razorback Grid) on an azimuth of 215° magnetic and inclined at an angle of 45°.

The hole was completed to a depth of 415 feet in serpentine without any sulphide mineralization. The serpentine varies from green to yellowish green and contains some slip fibre asbestos and a few small local concentrations of magnetite. The magnetite present in the serpentine probably accounts for the magnetic anomaly in the vicinity of the drill hole, but there was nothing unusual encountered in the drill hole to explain the Turam anomaly which was the drilling target.

It was expected that this drill hole would pass through the serpentine-conglomerate contact to the west. As this was not reached, it was decided to drill holes further to the west to find this contact which is the favourable location for ore deposition at the Razorback Mine. A vertical hole D.D.H. No. 6 was drilled at 38N/1250W to find the contact which was thought to dip at a moderately steep angle to the west. After passing through 16 feet of conglomerate and serpentine rubble the hole encountered serpentine and the drilling was stopped at 17 feet 6 inches. It was now obvious that the serpentine-conglomerate contact was much further west than shown by Blissett and Gulline (1961), and as no outcrop could be seen on the densely vegitated and scree covered slope the drill was shifted as far west as practicable on the steeply rising hillside.

D.D.H. No. 7 was drilled from 445E/1300S on a magnetic bearing of 40° and inclined at an angle of 55°. This hole was collared in conglomerate and passed through the conglomerate-serpentine contact at 50 feet. The hole was continued to 170 feet but apart from some brown iron stained serpentine from 50-66 feet no sign of sulphide mineralization was found. Assays of the iron stained serpentine showed no trace of any tin present and it is thought that iron staining is due to weathering of the serpentine and not from any pyrite mineralization.

The strong magnetic anomalies at 10E/425-550S and 8E/270-330S on the Intermediate Grid coincide with a large kernel of dark green pyroxenite which has resisted the almost ubiquitous serpentinization of the original intrusive. At 10E/500S there is a bold outcrop of pyroxenite which is intensely fractured and closely net-veined by magnetite. Hand specimens of the rock are sufficiently rich in magnetite to be picked up by a strong hand magnet. As the anomaly is almost certainly due to the high magnetite content, and the pyroxenite is well-exposed over nearly an acre, costeaning is not considered necessary.

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APPENDIX III

DIAMOND DRILL DETAILS FROM THE MARIPOSA MINE AREA (NORTH BROKEN HILL LTD. RECORDS)

SUMMARY OF DIAMOND DRILLING

Hole No.	Ore intersections	True Width	ASSAYS Pb	Ag.	Zn/	Vert Depth of intersection.
No.4	316' - 320'6"	3.5 ft.	5.3	1.6	1.7	225'
No.5	194' - 200'6"	5.5 ft.	9.4	2.3	2.5	113'
No.6	277' - 284'	4.0 ft.	5.5	2.2	0.8	170'
No.7	231' - 234'6"	2.6 ft.	13.8	3.4	1.5	170'
No.8	241' - 257'	12 ft.	8.3	3.2	1.7	180'
No.9	166'3"- 167'9"	1.2ft.	5.5	1.5	8.7	120'
	211' - 2.5'11"	4.0ft	8.8	2.3	1.8	145'
No.10	134'3"- 135'6"	0.8ft.	12.3	3.7	14.4	92'
	156'3"- 160'9"	3.0ft.	8.3	1.5	3.0	110'
	193' - 194'	o.7ft.	16.1	2.4	0.7	130'
No.11	375'6"- 383'	6.0ft.	13.9	13.9	1.9	240

--

NORTH BROKEN HILL LIMITED.

MARIPOSA D.D. N.B.H. No.4

Bearing 244° Depression - 45°

From	To	Run	Description	Assays Pb	Ag	Zn
0	52	52	No recovery			
52	216	164	Grey lst. Specks galena at 111			
216	305'8"	89'8"	Dark grey lst.			
315'8"	307'8"	2	Grey lst.Cream Calcite Specks galena	Nil	0.2	0.1
307'8"	309'8"	2	Low grade ore	3.4	0.7	0.3
309'8"	312'4"	2'8"	Grey lst.Specks galena	Nil	o.2	0.1
312'4"	316'	3'8"	" " " "	Nil	0.2	0.2
316'	317'8"	1'8"	Medium grade ore	10.3	1.3	0.4
317'8"	320'6"	2'10"	Low grade ore	2.3	1.7	2.4
320'6"	346'	25'6"	Grey lst.,large cavities.			
346'	352'	6'	Dark grey lst.			
			Core Recovery: 76%			
			Recovery in ore: 97%			

MARIPOSA D.D. N.B.H. No.5

Bearing 245° Depression - 35°

From	To.	Run	Description	Assays. Pb	Ag	Zn
0	15	15	No recovery			
15	166	151	Light grey and grey lst.banded and mottled.			
166	177	11	Smooth grey lst.Specks pyrite and galena			
177	194	17	Grey lst.			
194	198	4	Low grade ore	5.4	2.3	1.7
198	200'6"	2'6"	High grade ore	15.8	2.3	3.7
200'6"	240	39'6"	Grey lst. Specks galena at 240			
240	249	9	Brecciated lst.white calcite			

MARIPOSA

D.D. N.B.H. NO. 6

Bearing 243° Depression -45°

From	To	Run	Description	Assays. Pb	Ag	Zn
0	10	10	No recovery			
10	62	52	Grey and dark grey lst.			
62	67	5	Finely banded dark grey lst.			
67	179	112	Grey and dark grey lst. Galena in calcite veinlet at 148			
179	180	1	Light grey mottled lst.			
180	277	97	Grey lst.			
277	280	3	Low grade ore	5.7	3.0	1.0
280	283	3	" " "	3.0	1.1	0.4
283	284	1	High grade ore	12.5	2.8	1.1
284	365	81	Grey and dark grey lst. Specks galena 325-334.			
			Core Recovery : 91%			
			Recovery in Ore : 37%			

MARIPOSA

D.D. N.B.H No.7

Bearing 243° Depression-45°

From	To	Run	Description	Assays. Pb	Ag	Zn
0	10	10	No recovery			
10	66	56	Grey and dark grey fossiliferous lst.			
66	102	36	Grey and dark grey lst.			
102	106	4	Light grey lst.			
106	231	125	Grey lst.			
231	234'6"	3'6"	High grade ore	13.8	3.4	1.5
234'6"	241	6'6"	lst. replaced by white calcite. Specks galena			
241	247	6	Cavity			
247	251	4	Low grade ore	0.8	0.3	0.6
			Core recovery: 90%			
			Recovery in Ore (231' - 251')	55%		

MARIPOSA

D.D. N.B.H. No.8

Bearing 245° Depression -45°

From	To	Run	Description	Assays Pb	ag	Zn
0	11	11	No recovery			
11	76	65	Grey and light grey lst.			
76	105	29	Grey and dark grey lst.			
105	108	3	Light and grey lst.			
108	194	86	Grey and dark grey lst.			
194	227	33	Dark grey lst. Scattered white calcite with pyrtie			
227	241	14	Cavity			
241	242	1	Medium grade ore	7.5	9.2	o.9
242	245	3	Cavity			
245	247	2	Low grade ore	3.2	1.1	0.8
247	249	2	Cavity			
249	250	1	Low grade ore	3.0	1.2	0.8
250	252	2	Cavity			
252	254	2	High grade ore	21.0	6.8	3.8
254	255	1	Low grade ore	5.5	1.0	0.4
255	256	1	Cavity			
256	257	1	Low grade ore	6.2	2.0	0.8
257	264	7	Cavity			
			Core recovery: 84%			
			Recovery in Ore (241'-257'): 37%			

MARIPOSA

D.D. N.B.H. No. 9

Bearing 245° Depression - 45°

From	To	Run	Description	Assays Pb	Ag	Zn
0	8	8	No recovery			
8	148	140	Grey lst. mottled and banded			
148	164'6"	16'6"	Grey lst. Specks and veinlets galena and pyrite in white calcite			
164'6"	166'3"	1'9"	Grey mottled lst.			
166'3"	167'9"	1'6"	Low grade ore	5.5	1.5	8.7
167'9"	170'8"	2'11"	Grey lst. replaced by white and cream carbonate			
170'8"	173'2"	2'6"	Low grade ore	o.4	o.1	3.2
173'2"	211'	38'	Grey mottled lst.	0.4	0.1	3.2
211'	214'6"	3'6"	Low grade ore	3.6	1.0	1.2
214'6"	215'11"	1'5"	High grade ore	21.0	5.2	1.1
2.5'11"	221'9"	5'10"	Low grade ore	o.7	0.3	0.6
221'9"	226'	4' 3"	" " "	0.8	0.4	1.1
226'	233'	7'	Grey bredciated lst.			
233'	263'	30'	Cavity			
263'	266'	3'	Grey lst.			
			Core Recovery: 84%			
			Recovery in Ore (211'- 226') 87%			

930206

50-106

MARIPOSA

D.D. N.B.H. No.10

Bearing 245° Depression - 45°

From	To	Run	Description	Assays Pb	Ag	Zn
0	8	8	No recovery			
8	129	121	Grey lst.			
129	134'3"	5'3"	Light grey lst.			
134'3"	135'6"	1'3"	Medium grade ore	12.3	3.7	14.4
135' 6"	154'	18'6"	Grey lst.			
154'	156'	2'	Cavity			
156'	157'	1'	Medium grade ore	12.2	2.3	3.7
157'	160'	3'	Cavity			
160'	160'9"	0'9"	Low grade ore	4.5	0.9	2.3
160'9"	169'	8'3"	Grey lst.			
169'	170'	1'	Brecciated grey lst. Specks galena			
170'	193'	23'	Grey lst. Cavities			
193'	194'	1'	High grade ore	16.1	2.4	0.7
194'	245'	51'	Cavernous black pug			
			Core Recovery:69%			

MARIPOSA

D.D. N.B.H. No.11

Bearing 245° Depression -45°

From	To	Run	Description	Assays Pb	ag	Zn
0	8	8	No recovery			
0	227	219	Grey and light grey lst.			
227	375'6"	148'6"	Grey lst. dark bands			
375'6"	376'	0'6"	Low grade ore	3.0	2.0	o.4
376'	379'	3'	Cavity			
379'	381'6"	2'6"	High grade ore	17.7	20.6	0.9
381'6"	382'	0.6"	Cavity			
382'	383'	1'	Medium grade ore	8.7	3.2	5.0
383'	389'	6'	Cavernous barren calcite			
389'	389'4"	o'4"	Low grade ore	6.1	1.1	0.5
389'4"	392'9"	3'5"	Barren & cream calcite			
392'9"	393'	0.3"	Medium grade ore	11.0	1.4	1.2
393'	440'	47'	Grey lst.			
			Core Recovery : 93%			
			Recovery in Ore(375'6" [illegible]) : 58%			

930207

APPENDIX IV

E.Z. CO. SUMMARY OF DRILLING PRIOR TO 1969, CUNI AREA

ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED

West Coast Mines

Appendix 3 (cont.)

MEMORANDUM

To The Manager

DATE 20th September, 1971

930208

Appendix 2

Tabulation of diamond drilling data.

Area	Drillhole Number	Dip	Length	Intersection						Notes
				True Width	Grade %Cu	Grade %Ni	Core or Sludge	%Rec	Depth	
North Cuni and Genet's Winze	E.M. 1	-45°	120	9.0	0.1	1.72	Core	80%	50ft.	
	E.M. 2	-50°	120	6-21	0.7	0.7	Core	?		Poor record
	E.M. 3	-45°	120	14.0	1.5	1.5	Core	70	55	
	E.M. 4	-45°	140	3.0	1.56	0.37	Core	100	95	
	D.H. 2	-45°	100	5.0	1.81	3.23	Core	?	50	
	D.H. 3	-45°	107							No ore. Also called I.G.E.S. No. 1
	D.H. 4	-45°	156	3.0	5.5	10.1	Core	?	100	Also called I.G.E.S. No. 2
	D.H. 9	-65°	346							No economic mineralization
	D.H. 10	90°	180							No " "
	M 6	-45°	161	15.0	1.58	2.40	Core	Good	95	
	M 7	90°	315							No economic mineralization
	M 8	-50°	118	5.0	1.38	1.11	Core	90	70	
	M 9	-55°	285							No economic mineralization
	M.F.P. 109	-65°	441	12.0	0.44	0.40	Core	100	210	
	M.F.P. 110	-45°	259	10.0	2.7	4.3	Sludge	-	70	
	M.F.P. 111	-45°	465	6.0	0.64	0.34	Core	70	100	
	M.F.P. 126	-40°	131	4.0	0.88	0.62	Core	100	70	
	M.F.P. 127	-50°	400							No economic mineralization
	M.F.P. 128	-30°	167	11.0	0.46	1.00	Core	95	70	
	M.F.P. 129	-60°	211							No economic mineralization
	M.F.P. 130	-48°	324							No " "
	M.F.P. 131	-30°	289							No " "
	M.F.P. 132	-60°	228	13.0	0.56	0.41	Core	100	140	
Between S. Cuni and N. Cuni	D.H. 5	90°	149							Lode reported, No assays
	D.H. 6	90°	144							No economic mineralization

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West Coast Mines

~~Appendix 3 (cont.)~~

The Manager

MEMORANDUM

DATE — 20th September, 1971

930209

~~Appendix 2 (cont.)~~

Area	Drillhole Number	Dip	Length	Intersection True Width	Grade %Cu	Grade %Ni	Core or Sludge	%Rec	Depth	Notes
South Cuni	D.H. 1	90°	102							No economic mineralization
	D.H. 7	90°	156							No " "
	D.H. 8	90°	176							No " "
	M.F.P. 112	-45°	268							No " "
	M.F.P. 113	-45°	306							No economic mineralization
Vaudeau Mosquito Blowfly	Five holes	were	drilled	circa	1914	with	no	records	extant	
	11	-70°	430							No economic mineralization
	12	90°	314							No " "
	13	-70°	430							No " "
	14	-48°	460							No " "
	15	-47°	544							No " "
	16	-45°	383							No " "
	17	-45°	152							No " "
Nickel Reward	M. 13	-45°	142	12.0	5.0	7.9	Core	Poor	25	Core case reported damaged
	M. 14	-45°	132							No economic mineralization
	M. 15	-45°	132	17.0	2.28	6.97	Core	55	30	Strike of ore unknown
	M. 16	-55°	65							No economic mineralization
	M. 17	-45°	105	8.0	0.28	0.36	Sludge		45	Not reliable
	M. 18	-45°	87	9.0	1.96	1.65	Core	56	40	Strike and dip of ore uncertain
	M. 19	-65°	85	10.0	3.14	2.25	Core	62	48	
	M. 20	-45°	105	6.0	0.42	0.49	Core	25	10	
	M.F.P. 114	-36°	132	5.0	3.5	4.5	Core	25	70	
	M.F.P. 116		Records	not	avail-	able				
	M.F.P. 118	-40°	108							No economic mineralization
	M.F.P. 120	-40°	119							No economic mineralization
	M.F.P. 122	-50°	136							No " "
Deveraux	M. 10	-50°	132	3.0	0.27	0.91	Core	Poor	70	
	M. 11	-45°	143	4.0	0.37	2.45	Core	25	50	
	M. 12	-45°	118	1.0	1.15	2.02	Core	Poor	35	

Appendix IV

DRILL HOLE EM1

Angle of Depression : 45°

Bearing : 330° magnetic

Length of Hole : 120 feet

Position : 60 feet south of traverse BM at point 230 E

Drilled : July, 1953

Geology : Argillite and tuff 0 - 59 feet

Basic dyke 59 - 79 feet

Argillite and tuff 79 - 120feet

Assay Results

CORE				SLUDGE				
Depth	Feet	Ni(%)	Cu(%)	Depth	Feet	Ni(%)	Cu(%)	
70-79	9	1.72	0.10	60-68 70-80 80-90	8 10 10	0.44 4.10 1.80	 1.90 1.0	
70-79	9	1.72	0.10	70-90	20	2.95	1.45	Average.

Core was lost in the footwall portion of the dyke which is the most mineralised. The core assay is therefore probably too low. The sludge sample from 80 to 90 feet is from a portion in the footwall sediments. The nickel and copper values from this sludge sample must be due to contamination from above and should be disregarded. Sludge samples taken from 60 to 68 feet show 0.44% Ni, which is probably too low as the nickel from this interval was probably recovered lower down. No core assays were made from 59 to 70 feet. Taking into account the above considerations, a width of 12 feet of ore with 2.0% Ni and 0.8% Cu is estimated.

DRILL HOLE EM2

Angle of Depression : 50°

Bearing : 270° magnetic

Length of Hole : 120 feet

Position : 60 feet south of traverse BM at point 230E

930211

Drilled: July and August, 1953.

Geology: Argillite and tuff 0 - 44 feet

Basic dyke with quartz siderite and disseminated ore 44 - 81 feet

Argillite and tuff 81 - 120feet

Assay Results

CORE					SLUDGE			
Depth	Feet	Core Recovery	Ni(%)	Cu(%)	Depth	Feet	Ni(%)	Cu(%)
					50-60	10	0.1	trace
66-70	4	½	0.5	0.7	60-70	10	0.4	0.3
					70-78	8	0.3	
79-81	2	1	1.0	0.7				
	6	1½	0.7	0.7				

Core recovery in this hole was very poor and core assays were made only over some sections. Also, sludge sampling was incomplete. Core assays between 70 and 79 feet are missing although mineralisation is reported from that section. The results from this hole cannot be regarded as conclusive. The thickness of ore might be any value between 6 feet and 21 feet. The grade of ore is certainly low, but is probably between 0.5% and 1.0% Ni and about 0.7% Cu.

DRILL HOLE EM3

Angle of Depression : 45°

Bearing : 270° magnetic,

Length of Hole : 120 feet

Position : 20 feet north of traverse BH at point 200 E

Geology : Argillite and tuff 0 - 57 feet

Basic dyke 57 - 88 feet

Argillite 88 - 109 feet

Shear zone of silicified argillite and slate with a few inches of lead-zinc lode 109 - 120 feet.

Assay Results

CORE					SLUDGE			
Depth	Feet	Core Recv.	Ni(%)	Cu(%)	Depth	Feet	Ni(%)	Cu(%)
70-76	6	5	2.1	trace	70-78	8	0.3	0.5
76-78	2	1½	0.9	1.7				
78-80	2	1¼	0.8	1.1				
80-82	2	¾	0.8	3.3	80-90	10	3.1	3.8
82-85	3	2	1.5	3.4				
85-90	5	2½	0.3	trace				
70-85	15	10½	1.5	1.5	70-90	18	1.85	2.33

Core recovery was much better in EM3 than in EM1 and EM2. The width of the nickel ore is estimated at about 15 feet with 1.5% Ni and 1.5% Cu, taking into account the core assays only.

DRILL HOLE EM4

Angle of Depression : 45°

Bearing : 270° magnetic

Length of Hole : 140 feet

Position : On Traverse BF at point 275 E.

Drilled : September, 1953

Geology : Argillite and tuff 0 - 109 feet.

Basic dyke with quartz veins 109 - 123 feet

Argillite and tuff 123 - 140 feet

Assay Results

CORE					SLUDGE			
Depth	Feet	Core Recv.	Ni(%)	Cu(%)	Depth	Feet	Ni(%)	Cu(%)
118-120	2	2	0.4	0.1	110-120	10	0.4	trace
120-121	1	1	0.9	0.7	120-130	10	0.6	trace
Average	3	3	0.57	0.3		20	0.5	trace

Only three feet of ore were assayed and these showed ore of marginal grade. The evidence is incomplete as only small portions of the dyke material were assayed. The results appear to indicate that the mineralisation is of too low a grade to be classified as ore.

930213

After completion of the four drill holes EM1 to EM4, Eagle Metal and Industrial Products Pty.Ltd. decided not to continue with drill hole EM5 and abandoned the option on the leases in the Cuni area held by Montana Silver Lead N.L. The drilling results were not very satisfactory and were somewhat inconclusive, due largely to poor core recovery. The decision seemed premature however, and was influenced by the fact that the drill holes revealed no compact ore of about 10% nickel, as was produced from the Cuni shafts during earlier mining.

(ii) Drill Holes M6 to M9.

When the ore reserves in the Montana lead mine had reached a low figure, the efficient concentrating plant at that mine was expected to close down and the company began to look for a suitable source of ore for its mill. The geophysical survey made by the Bureau in an attempt to find lead ores in the area surrounding the Montana mine did not reveal any promising targets. It was suggested that, in view of the favourable geophysical results obtained by the Bureau in the copper-nickel area, the company should continue exploration in that area. Tests carried out by the Metallurgical Laboratory of the Mines Department in Launceston suggested that the mill at the Montana mine could, with only minor modifications, be used for the treatment of the nickel ore. The directors of the company agreed and made arrangements with the Tasmanian Mines Department for that Department to provide a diamond drilling plant and a drill foreman. New drilling targets were selected in the northern area (north of traverse BM) where previous drilling had produced encouraging results, and drilling was recommenced in December, 1955. It was hoped that with better core recovery and more complete sampling and assaying, a more reliable assessment of the value of the deposit could be made. It was also considered advisable that the holes be drilled to greater depths. The position of, and the results from, these drill holes (M6 to M9) are shown on Plates 3, 5 and 6. All core cases of the bore holes drilled by Montana Silver Lead N.L. , were sent to the Launceston or Hobart offices of the Tasmanian Mines Department. All the assays referred to in this report were made in the laboratory of the Mines Department, Launceston under the direction of the Chief Chemist, W. St. C. Manson.

DRILL HOLE M6.

Angle of Depression :	45°	
Bearing :	317° magnetic	
Length of Hole :	157 feet	
Position :	On traverse BM at 427 E	
Drilled :	December, 1955 and January, 1956.	
Geology :	Tuff, volcanic ash	0 - 115 feet
	Basic Dyke	115 - 136 feet
	Compact ore	136 - 139 feet
	Tuff and argillite	139 - 157 feet

930214

Assay Results (from cores only)

Depth	Feet	Ni(%)	Cu(%)		
123 - 125	2	1.46	2.58	)	
125 - 126.8	1.8	0.37	0.33	)	
126.8- 128.4	1.6	0.79	1.42	)	
128.4- 130	1.6	0.83	1.76	)	Disseminated ore.
130 - 132	2	0.39	0.33	)	
132 - 134	2	0.61	0.53	)	
134 - 136	2	-	-		Barren.
123 - 130	7	0.89	1.55	Average	
136 - 137	1	10.0	5.46	)	Compact ore
137 - 138	1	11.2	4.3	)	on footwall
138 - 139	1	8.1	3.0	)	of dyke
	3	9.7	4.3	Average	

The good core recovery in this hole permits more accurate assessment of the metal values. The nickel content of the disseminated ore in the basic dyke varies considerably. The amount of sulphides present is rather low. Very little pyrrhotite and pyrite are found with the sulphides. Compact and disseminated ore together give 10 feet of ore with 3.5% nickel and 2.4% copper. A more detailed description of the mineral composition of the ore deposit is given in later chapters.

DRILL HOLE M7

Angle of Depression : Vertical

Length of Hole : 315 feet

Position : Same as M6,

Drilled : January and February, 1956.

Geology : Tuffs, volcanic ash and slates 0 - 315 feet.

Drill hole M7 was drilled to investigate the deposit at greater depth, and was expected to reach the basic dyke at a depth of about 200 feet. The drill, however, did not encounter the basic dyke with which the nickel ore is associated and no ore was found. Drill hole M9 was put down to investigate the reasons why the dyke was not encountered in M7.

DRILL HOLE M9

Angle of Depression : 55°

Bearing : 318° 30' magnetic

Length of hole : 285 feet

930215

Position : 57.8 feet from drill hole M7 on a bearing of 137° magnetic

Drilled : August and September, 1956.

Geology :

Tuff, volcanic ash, argillite	0 - 259 feet
Basic dyke	259 - 285 feet
Argillite	285 feet

The drill hole should have reached the dyke at about 180 feet if the dyke had continued downward from borehole M6, as assumed. The dyke was not encountered however, until the hole had reached 259 feet and it is doubtful if the footwall of the dyke has really been reached. The dyke showed no mineralisation between 259 and 270 feet and the assays over this interval give no nickel values. An assay between 270.5 and 274 feet gave 0.18% nickel and traces of copper. The part between 274 and 285 feet has not been assayed, but shows only slight mineralisation.

DRILL HOLE M8

Angle of Depression : 50°

Bearing : 311° 30' magnetic

Length of Hole : 118 feet

Position : 66 feet from drill hole M7 on a bearing of 1½° magnetic

Drilled : March and April, 1956.

Geology :

Tuff and argillite	0 - 68 feet
Basic dyke	68 - 105 feet
Argillite	105 - 118 feet

Assay Results (from cores only)

	Depth	Feet	Core Recovery Ft.	Core Recovery %	Ni(%)	Cu(%)
	80 - 87.5	7.5	5.0	67	trace	trace
	87.5 - 89	1.5	0.5	33	.37	.47
	89 - 92	3	2	67	1.31	1.88
	92 - 94	2	2	100	.81	.62
	94 - 96	2	2	100	.45	.39
	96 - 98	2	1.5	75	trace	trace
	98 -100	2	1.2	60	.18	trace
Average	89 - 94	5	4	80	1.11	1.38
Average	89 - 96	7	6	86	.92	.95

The hole was drilled near the northern end of the geophysical indication and shows disseminated but no compact ore.

930216

Of the eight holes drilled in the Cuni North area in recent years, seven penetrated the basic dyke. Of these, one (M6) intersected compact ore of high value and four (EM1, EM3, M6 and M8) intersected disseminated ore assaying about 1% nickel. Two boreholes (EM2 and EM4) encountered disseminated mineralisation of about 0.5% Ni only. The nickel to copper ratio varies but averages between 1:1 and 2:1.

(iii) Earlier drill holes.

To obtain a better assessment of the extent and grade of ore, the available old drill hole records were studied. The holes were drilled at different times; the best recorded results are those for DH2 and DH4, which were put down in 1930 to check the geophysical indications obtained by the Imperial Geophysical Experimental Survey (Edge and Laby, 1931). The position of, and results from, these earlier drill holes are also shown on Plate 3.

The drill hole data given below were taken from records of the Tasmanian Mines Department. Positions are approximate and available information is incomplete. Positions and bearings are taken mainly from a geological sketch map by J.C. Ferguson of the I.G.E.S.

DRILL HOLE NO. 2

Angle of Depression :	45°
Bearing :	314° magnetic (approx.)
Length of hole :	100 feet.
Position :	Approximate only. About 40 feet north of traverse BM, at point 370E.
Drilled :	June, 1930
Geology :	0 - 40 feet tuff and argillite
	40 - 72 feet basic dyke
	72 - 75 feet compact ore
	75 - 100 feet ?

Only one assay value is recorded, namely 6.0% Ni, 2.6% Cu over the interval from 72 feet to 75 feet. Only the compact ore was assayed. As borehole M6 showed good disseminated ore, such can also be expected to exist in DH2, but the basic dyke material was not sampled or assayed.

DRILL HOLE No. 3 (I.G.E.S. No. 1).

Angle of Depression :	45°
Bearing :	315° magnetic(approx.)
Length of hole :	107 feet
Position :	Approximate only. About 40 feet north of traverse BN at point 485E.
Drilled :	July, 1930

930217

Geology : 0 - 56 feet argillite

56 - 103 feet basic dyke

103 - 107 feet argillite

This hole was drilled on the recommendation of the I.G.E.S. to investigate an electromagnetic indication. The following extract is taken from Edge and Laby (1931, p.90) -

"This ore-body has now been intersected by a diamond drill hole. The drill proved several feet of sulphide ore at this point, at a depth of 75 feet below the surface. On assay, samples of the core gave nickel 3% to 6% and copper 2.5% to 3.5%." No confirmation of the assay was found in the records of the Department of Mines.

DRILL HOLE NO. 4 (I.G.E.S. No. 2)

Angle of Depression : 45°

Bearing : 314° magnetic

Length of Hole : 156 feet.

Position : Approximate only. About 40 feet north of traverse BM at point 465E.

Drilled : July, 1930.

Geology : Information meagre.

The drill hole passed through 3.5 feet of compact ore between 140.5 feet and 144 feet. The assay of the 3.5 feet of ore gave values of 10.1% Ni and 5.5% Cu. No assays were taken from the dyke and the disseminated ore found in borehole M6 probably exists also in DH4, but its presence was apparently not expected and not investigated.

DRILL HOLE NO. 9

Angle of Depression : 65°

Bearing : 348° 35' magnetic

Length of Hole : 346 feet

Position : Approximate only. About 30 feet south of traverse BL at point 550E.

Drilled : August, 1939.

Geology : 0 - 195 feet Tuff, argillite.

195 - 198 feet dyke

198 - 210 feet tuff

210 - 241 feet dyke

241 - 346 feet slate

No mineralisation was reported and no assays were made.

930218

It is probable that the dyke encountered in this borehole is not the mineralised dyke.

DRILL HOLE NO. 10.

Angle of depression : Vertical

Length of Hole : 180 feet

Position : Approximate only. About 40 feet south of traverse BK at point 320E.

Drilled : September, 1939

Geology : 0 - 155 feet tuff and slate

159 - 167 feet dyke and mineralised quartz

167 - 180 feet slate

It is improbable that the borehole intersected the dyke in which the nickel lode occurs.

SUMMARY OF RESULTS FROM ALL DRILL HOLES IN NORTH CUNI AREA

Drill hole	Feet of ore	Ni (%)	Cu (%)	Remarks	Geophysical Indication	
					E.M.	S.P(mV)
EM1	12	2.0	0.8	Poor core recovery. Values approximate.	strong	136
EM2	10	0.7	0.7	Poor core recovery. Values approximate.	strong	120
EM3	15	1.5	1.5		strong to medium	360
EM4	>3	0.57	0.3		strong	-
M6	3 7	9.7 0.89	4.3 1.55	Compact ore. Disseminated ore.	)strong	480
M7	Did not intersect dyke				-	-
M8	5	1.11	1.38		)strong to weak	150
M9	3.5	0.18	-	Doubtful if the drill hole intersected the dyke completely.		
DH2	3	6.0	2.6		strong	480
DH3	2	4.5	3.0	Information uncertain	weak	-
DH4	3.5	10.1	5.5	Only compact ore. No assay for disseminated ore.	strong	150
DH9	-	-	-	Probably did not intersect nickel-bearing dyke.	-	
DH10	-	-	-	" " " "	-	
Average		2.6	1.7	(Of drill holes EM1, EM2, EM3, M6, M8, DH2, DH3 and DH4).		

No microscopic work appears to have been done on the basic dyke; no petrological report could be found and it seemed desirable to examine the mineral composition of the ore and dyke material and also the sediments of the Dundas formation.

Several core specimens from drill holes M6 to M16 were sent to the Petrological Laboratory of the Bureau of Mineral Resources in Canberra and investigated there by W.M.B. Roberts and J.K. Lovering. Their findings are summarised in an appendix at the end of this report.

The basic dyke material was identified as a metasomatised dolerite. Most of the original dyke minerals have been altered and replaced by secondary minerals.

The rocks of the Dundas Group consist largely of tuffs and volcanic ash, particularly near the basic dyke. Further away from the dyke they consist of shales, occasionally pyritic or carbonaceous.

The mineralogical composition of the nickel ore is interesting and unusual. The main nickel mineral in the compact ore is violarite, and in the disseminated ore it is millerite. Both minerals have a high nickel content and the nickel to sulphide ratio is also very high in this field. This is important, because ore of extraordinarily high grade has been won and may still be found and also because high-grade nickel concentrates may be produced from the disseminated ore. Therefore, even relatively low-grade disseminated ore may be of economic importance. On the other hand, the low sulphide content in the disseminated ore produces only very weak electrical indications and the disseminated ore may be overlooked in diamond drilling or other exploration.

The ore does not show any significant magnetic properties, although accessory magnetite and pyrrhotite are present; magnetic surveys have not, therefore, been of much value in the Cuni North area.

(B) Costeaning.

Recommendations for testing included costeaning as well as diamond drilling, and some costeans were dug following both the I.G.E.S. survey and the Bureau surveys.

The S.P. survey indicated mineralisation at fairly shallow depth in several locations and trenching was regarded as the cheapest and quickest method of testing. The testing work encountered difficulties however, due to influx of water in the water-logged ground. Gossanous lode formation was encountered in nearly every trench, below 1 to 2 feet of surface soil, but country rock and lode formations were so decomposed that results were not conclusive. In the trenches cut on the I.G.E.S. recommendations, pits were sunk 8 to 10 feet deeper, and sulphides were encountered, distributed through the gossan, on I.G.E.S. profiles 49N, 53N and 54N; reliable information about the dip, thickness and quality of the ore was obtained by drilling.

As no pits were sunk from the costeans which were made after the Bureau's survey, the information from these costeans is even less conclusive; however, the costean at 22½E on traverse BR indicated some lode capping of lead mineralisation associated with weak self-potential indications. Another costean at 25W on traverse BD, dug to test a geochemical indication also revealed

930220

Samples taken from the old Deveraux shaft showed high nickel and copper values and for this reason the company decided to extend the exploration to the Deveraux Prospect.

A hole (M10) was drilled to investigate the mineralisation but the results were inconclusive and it was considered that a geophysical investigation should be made as a guide for further testing.

(A) Geophysical and Geochemical Results

While drilling was in progress, a short self-potential survey was made by the author. This revealed only a very weak self-potential anomaly (58mV), but indicated that the direction of the strike of the lode is to the south-east as compared with the usual southerly direction in other parts of the field. The results of the survey are shown on Plate 7. The strike indicated by the geophysical survey coincides with that of the Silurian sediments which crop out only a few hundred feet south of the Deveraux Prospect. These sediments are the north-eastern limb of the Ordovician - Silurian basin of Zeehan. The S.P. survey was made over an area of about 800 feet by 600 feet around the Deveraux Prospect. The strongest indication (-58mV) was near the shaft; most of the other indications were of small extent and less than 40 mV.

Soil samples were taken wherever a slight S.P. anomaly was found. The soil samples were assayed for copper but did not give any metal values high enough to expect payable mineralisation further away from the Deveraux Prospect.

(B) Results from Drill holes M10 to M12

Three holes (M10, M11 and M12) were drilled near the Deveraux shaft. A sketch map showing the position of the drill holes is given on Plate 7.

The core recovery was not good and left some doubt regarding the value of the results. The main data regarding the holes are given below.

DRILL HOLE M10

Direction : 224° 30' magnetic

Angle of depression : 50°

Length of hole : 132 feet

Drilled : September - October, 1956.

Geology : 0 - 95 feet Tuff and argillite

95 - 122 feet Basic dyke

122 - 132 feet Red tuff

Assay Results

Depth	Ni(%)	Cu(%)
97' - 105'	0.14	0.23
105' - 112'	0.30	0.23
112' - 115'	0.91	0.27

M11

930221

Direction : 256° magnetic

Angle of depression : 45°

Length of hole : 143 feet

Position of hole : Same as M10

Drilled : October and November, 1956.

Geology : 0 - 105 feet Argillite and tuff

105 - 109 feet Ore

109 - 117 feet Basic dyke

117 - 119 feet Red tuff with veins of siderite

119 - 143 feet Basic dyke

Assay Results

Depth	Feet	Core recovered (ft)	Ni(%)	Cu(%)
105' - 109'	4	1	2.45	0.37
109' - 110'	1	½	0.36	0.18
115'6" - 135'6"	20		0.15	0.05

DRILL HOLE M12

Direction of Hole : 40° magnetic

Angle of Depression : 45°

Length of hole : 118 feet

Drilled : November, 1956

Geology : 0 - 61 feet Argillite and tuff

61 - 75 feet Basic dyke

75 - 118 feet Tuff

Assay Results

Depth	Feet	Ni(%)	Cu(%)
62 - 67	5	0.16	0.12
67 - 74	7	0.39	0.22
74 - 75	1	2.02	1.15

further south, on traverses 300S to 400S, is a relatively strong self-potential anomaly which strikes east-west and extends over a length of approximately 800 feet. The intensity is variable along this length and ranges up to -580 millivolts. Its strike is different from any of the known geological features. Soil samples have been taken over this anomaly but have not yet been assayed. Recommendations for testing will await the results of these assay.

(B) Costeaning

Following the 1952 survey, a trench was dug along traverse HCA to ascertain the cause of the S.P. anomaly. The S.P. indication has a very steep gradient and indicates a body at fairly shallow depth. It was therefore considered advisable to test the indication by a trench. The trench, dug in 1953, showed only a few pieces of galena and pyrite in a shear zone and gave no definite signs of a nickel ore body; only later deepening and extension of trenching operations in 1957 revealed a compact nickel ore body. About half a ton of ore was taken from it. A quartered sample was sent to the Mines Department Laboratory in Launceston for assaying and flotation tests. The assay of the sample, dated 6th June, 1957, gave the following results :-

Copper :	5.26 per cent
Nickel :	7.23 per cent
Iron :	34.6 per cent
Sulphur	43.9 per cent
Acid, insoluble :	5.72 per cent

Mineragraphic examinations of this ore by Williams and Edwards (1958) showed that the ore consists of intergrown millerite and chalcopyrite, both of these minerals enclosing corroded residuals of pyrite and resembling the disseminated ore in the Cuni North area.

No other trenching was carried out on the Nickel Reward Prospect or its southern continuation.

The failure of the shallow trench to reveal the cause of the self-potential anomaly, subsequently disclosed by the diamond drilling and later deepening of the trench, emphasises the limitations of shallow trenching as a method of testing. Not only did the shallow trench fail to reveal any copper-nickel mineralisation but the minor galena and pyrite revealed in a sheared zone was misinterpreted as the cause of the anomaly.

(C) Results from Drill Holes M13 to M22

The first drilling sites were selected so that the holes would intersect the ore at right angles to the direction of the strike of the S.P. anomaly. The drill holes disclosed high-grade nickel ore at shallow depth. After completion of the first holes, it was decided to drill several more holes to ascertain whether the ore body could be mined by open-cut methods and to determine its size and shape. The position of, and sections through, these drill holes are shown on Plates 8 to 10.

DRILL HOLE M13

Angle of Depression : 45°

Bearing : 232°

Length of hole : 142 ft.

Position : See Plate 9

Drilled : December 1956 and January 1957

Geology :

0 - 11 feet	Overburden
11 - 28 feet	Dyke material with disseminated sulphides and some quartz.
28 - 45 feet	Massive ore.
45 - 54 feet	Dyke material with disseminated sulphides and some parts of massive ore, leached.
54 - 60 feet	Brecciated siliceous shale with some pyrite in places.
60 - 110 feet	Mainly fine-grained tuff.
110 - 142 feet	Banded grey shale.

The core recovery was poor and, also, the core case was damaged during transport to the laboratory, with the result that cores were disturbed and could not be properly re-arranged. Core recovery is not shown in the table below, and because of the poor recovery and the damaged core case the results cannot be regarded as reliable. Sludge samples were taken at intervals of 2 to 5 feet and assay results of both core and sludge samples are shown below. (Certificate of Department of Mines Laboratory, Launceston, 30th January, 1957).

CORE				SLUDGE	
Depth	Feet	Ni(%)	Cu(%)	Ni(%)	Cu(%)
11' - 28'	17	1.0	2.0		
28' - 40'	12	7.9	5.0		
40' - 42'	2	Core lost in Trans-port.		2.89	3.20
42' - 46'	4			14.23	0.35
46' - 49'	3			3.01	2.13
49' - 54'	5			18.84	0.40
54' - 66'	12			0.35	0.07
11' - 40'	29'	3.86	3.24		
40' - 54'	14'			11.87	1.16
11' - 54'	43'	6.47	2.56		

Although the core lost in transport and the combined use of core and sludge samples makes the results unreliable, the assays agree and are confirmed by those of samples from drill hole M15.

930224

The large width of ore encountered is not the true width, as drill hole M13 penetrated the ore body from the footwall side and cut the deposit at an acute angle. But even if the qnantitative results regarding width and grade cannot be fully relied upon, it appears certain that drill hole M13 showed a fairly wide ore body of good grade. To investigate the dip and behaviour of the lode at greater depth, the next drill hole (M14) was sited 40 feet north-east of borehole M13.

DRILL HOLE M14

Angle of Depression : 45°

Bearing : 232°

Length of Hole : 132ft

Position : See Plate 9

Drilled : February and March, 1957

Geology :

0 -	45 feet	Grey and black shale
45 -	50 feet	Tuff
50 -	80 feet	Fault, very little core - consists mainly of pieces of quartz and clay
80 -	81 feet	Coarse grey tuff
81 -	110 feet	Shale
110 -	115 feet	Tuff
115 -	120 feet	Shale
120 -	132 feet	Tuff, with small veins of pyrite.

No basic dyke material was met in this hole. Extensive evidence of faulting was found, and some pieces of sulphides were found in the fault zone. As no nickel minerals were detected in this drill hole, the evidence suggests that the lode dips to the south. Also, as the log of M13 was not very satisfactory due to the damaged core case, it was decided to drill another bore-hole (M15) in the opposite direction from the other side of the anomaly.

DRILL HOLE M15

Angle of Depression : 45°

Bearing : 52°

Length of Hole : 132 feet

Position : See Plate 9

Drilled : April, 1957

Geology :

0 -	30 feet	Light and dark grey, medium and coarse-grained tuff
30 -	55 feet	Basic dyke

930225

30 - 33 feet Disseminated ore

33 - 43 feet Compact ore

43 - 45 feet Heavily mineralised disseminated ore

45 - 47 feet Slightly mineralised disseminated ore

55 - 62 feet Light grey shale

62 - 67 feet Fine-grained tuff

67 - 69 feet Coarse-grained tuff

69 - 93 feet Fine-grained tuff

93 - 103 feet Medium-grained grey tuff with a little pyrite

103 - 109 feet Medium and coarse-grained tuff, somewhat cavernous, carbonates

109 - 132 feet Fine and coarse-grained tuff, cavernous.

Department of Mines Laboratory, Launceston, Certificate of 10th May, 1957.

Core Assays

Depth	Feet	Core recovered		Ni(%)	Cu(%)
		Inches	%		
30-32	2	7	29	0.65	0.71
32-34	2	7.7	32	6.57	0.96
34-36	2	7.7	32	13.72	2.80
36-38	2	7.7	32	12.66	1.97
38-40	2	7.7	32	10.53	1.77
40-42	2	7.7	32	9.77	4.44
42-43	1	11	92	6.73	6.77
43-44	1	11	92	2.02	3.03
44-45	1	9	75	0.95	0.91
45-46	1	12	100	0.69	0.62
46-47	1	11	92	0.27	2.12
30-34	4	14.7	31	3.61	0.84)
34-42	8	30.8	32	11.67	2.75)
42-47	5	44	75	2.13	2.69)

17' of ore with 6.97%Ni and 2.28% Cu.

930226

The section on Plate 10 shows the results of drill holes M13, M14 and M15. The relative height of the drill holes has to be taken into consideration as M13 is situated somewhat higher than M14 and M15.

This section shows that the orebody is about 15 feet thick, has a flat southerly dip, and is situated relatively near the surface. The hanging wall is soft and broken. The self-potential anomaly coincides closely with the orebody at shallow depth. The fact that the trench on traverse HCA failed to reveal evidence of the massive sulphides clearly indicates the lim ..tions of this type of testing.

The good quality of the ore found in the outcrop and in bore holes M13 and M15 and, on the other hand, the expected small size made it advisable to obtain more detailed information about the shape and extent of the body and the metal content of the ore. For this purpose, several additional short holes were drilled. The position of, and results from, these holes are shown on Plate 9 and details are given below.

DRILL HOLE M16

Angle of Depression :	55°
Bearing :	52°
Length of Hole :	65 feet
Position :	See Plate 9
Drilled :	1st to 10th May, 1957
Geology :	0 - 42 feet Weathered tuffs and slates
	42 - 46 feet Basic dyke
	46 - 65 feet Tuffs and slates

Core recovery was poor. Core and sludge samples were assayed in 1-foot sections between 42 and 46 feet. The sludge samples taken from 42 feet showed 0.1% nickel and those from 44 feet showed 0.16% nickel. All other assays showed only traces of nickel and copper. Bore hole M16 was offset about 20 feet to the west of the section through M15 and M13. The results from this hole indicate that the ore shoot terminates a little to the west of the section through M15 and M13. This is in accordance with the geophysical results, which indicated a sulphide body of small dimensions.

DRILL HOLE M17

Angle of Depression :	45°
Bearing :	52°
Length of Hole :	105 feet
Position :	20 feet south of Nickel Reward Shaft No. 2 (see Plate 9).
Drilled :	17th - 31st May, 1957.

930227

Geology : 0 - 58 feet Tuffs and shales

58 - 70 feet Basic dyke, mineralised, with quartz and sulphides, (pyrite, galena, nickel ore?)

70 - 105 feet Tuffs and shales

The core recovery in this borehole was extremely low. An assay of only one sludge sample, taken between 58 and 66 feet, is given; this sample gave 0.36% Ni and 0.28% Cu. The assay of one sludge sample is of little value, and because of the very poor core recovery no reliable core assays could be done. The drill hole investigated the depth extension of the ore found in the trench, but the results from this hole must be interpreted as rather negative.

DRILL HOLE M18

Angle of Depression : 45°

Bearing : 10° east of north

Length of Hole : 87 feet

Position : Same as M17

Drilled : 31st May to 7th June, 1957

Geology : 0 - 53 feet Tuffs and shales

53 - 64 feet Mineralised basic dyke

64 - 87 feet Shales

Core Assays

Depth	Inches	Core Recovered		Ni(%)	Cu(%)
		Inches	%		
53' - 55'6"	30"	20	67	2.00	2.11
55'6"- 56'10"	16"	15	94	1.65	1.80
56'10"-58'	14"	12	86	1.69	1.82
58' - 60'	24"	9	38	1.75	2.20
60' - 62'	24"	9	38	1.05	1.72
62' - 64'	24"	9	38	0.51	0.56
53' - 62'	9ft.	5½ft.	56	1.65	1.96

DRILL HOLE M19

Angle of Depression : 65°

Bearing : 10° east of north

Position : Same as M17 and M18 (see Plate 9)

Length of Hole : 85 feet

Drilled : 10th to 14th June, 1957 930228

Geology : 0 - 45 feet Tuffs and shales

45 - 59 feet Mineralised basic dyke

59 - 85 feet Tuffs and shales

Core assayed in Mines Department Laboratory, Launceston - Certificate 10th July, 1957.

Core Assays

Depth	Inches	Core Recovered		Ni(%)	Cu(%)
		Inches	%		
48' - 50'	24	7	29	1.00	0.86
50' - 52'9"	33	20	60	2.14	4.14
52'9"- 53'5"	8	5½	69	4.58	6.26
53'5"- 54'	7	4	57	2.04	1.46
54' - 56'	24	19	79	1.74	2.32
56' - 58'	24	19	79	1.62	1.69
48' - 58'	10ft.	6¼ft.	62	2.25	3.14

Drill holes M18 and M19 were drilled from the same site to determine the dip, thickness and quality of the ore body at slightly greater depth.

The results show disseminated ore about 10 feet thick in both holes, the nickel content being about 2.0 percent and the copper content 2.0 to 3.0 percent. The holes indicate also a rather flat dip of about 20°; this had already been suspected from bore holes M13 and M15. However, the sections through holes M18, M19 and M15 do not correlate very well and a fault with a throw of about 6 to 8 feet must be assumed between M15 and M18. The very high grade ore found in M15 was not found in M18, and it must therefore be rather limited in extent.

DRILL HOLE M20

Angle of Depression : 45°

Bearing : 10°

Length of Hole : 105 feet

Position of Hole : Approximately as shown on Plate 9, but somewhat uncertain.

Drilled : 18th June to 1st July, 1957.

Geology : Core case sent to Mines Department, Hobart without geological examination.

 PAGES 30, 31 MISSING

Core recovery poor. 930229

Core Assays: Certificate of Mines Dept. Lab., Launceston, 18th July, 1957.

Depth	Feet	Core Recovered		Ni(%)	Cu(%)
		Inches	%		
9 - 11	2	4	17	0.22	0.31
11 - 13	2	6	25	0.49	0.47
13 - 15	2	6	25	0.49	0.38
15 - 17	2	6	25	0.50	0.40
65 - 67½	2½	16¼	54	trace	-
67½ - 70	2½	16¼	54	0.84	0.64
11 - 17	6	18	25	0.49	0.42
67½ - 70	2½	16¼	54	0.84	0.64

The drill hole seems to have struck only disseminated ore in two dykes. The results of this hole are unreliable as a result of bad drill reports and poor core recovery.

DRILL HOLE M21

Abandoned at 9 feet because an obstruction was met; drillhole M22 was drilled instead.

DRILL HOLE M22

Angle of Depression : 65°

Bearing : 10°

Length of Hole : 30 feet (abandoned, as timber of shaft No. 1 was encountered).

Drilled : July, 1957.

No core recovery was reported. As shaft timber was encountered in this hole, No. 1 shaft must have been somewhat deeper than recorded (15 feet).

(D) Conclusions and Prospects

The ore outcrops revealed in the new trenches and the results obtained in the drill holes indicate the existence of an orebody with approximately easterly strike and a relatively flat southerly dip. The body is irregular in shape but is probably lens-shaped and cut by faults. The length of the body is uncertain but is probably less than 100 feet; the thickness is over 10 feet in the centre. Its depth extent is unknown at present, but in

PAGES 30, 31 MISSING

930230

5. NICKEL PROSPECTS IN THE SERPENTINE BELT.

(A) Geophysical and Geochemical Results.

Although the magnetic results in the Cuni area were rather disappointing, several traverses in the southern extension were read with a magnetometer during the 1957 survey. It was hoped to find the contact between the Dundas sediments and the serpentine, but the results were not encouraging from this aspect.

A well-defined magnetic anomaly was obtained on traverse 1200S at 1850E and on adjacent traverses. Soil samples were taken where indications were obtained with one or both of the geophysical methods, and these samples were assayed for copper and nickel.

Soil samples showed a maximum nickel content between 1700E and 1850E on traverse 1200S and a trench was dug at 1850E, the position of the magnetic anomaly. The trench revealed limonitic and siliceous material in strongly weathered serpentine; a sample of the limonitic material sent to the Mines Department Laboratory in Launceston gave, on analysis, a nickel content of 0.35%.

An easterly dip was indicated by the geophysical results and a drill site was therefore selected at 1200S/1900E, the hole to be drilled westerly in the direction of the traverse at a depression of 45°. The results from this drill hole (M23) are shown on Plate 11. The core was assayed in sections of 10 feet and 20 feet and the nickel values are plotted over the sections of the hole. The hole was in serpentine and bronzitite over its whole length, but core recovery, especially in the first 70 feet, was poor. The nickel values reach a maximum of 0.36 percent between 31 and 51 feet and decrease gradually from the maximum in both directions; values above 0.1 percent are spread over a bore hole length of about 100 feet.

(B) Drill Hole M23.

Angle of Depression :	45°
Bearing :	262° magnetic
Length of Hole :	170 feet
Position :	1200S/1900E on the 1957 geophysical grid.
Drilled :	11th July to 2nd August, 1957.
Geology :	In serpentine and pyroxenite throughout.

..33/.

Assay results from core sections.

Depth	Feet	Core Recovered	Nickel (%)	Sulphur (%)	Copper (%)	Cr_2O_3 (%)
0 - 10	10	23"	0.06		trace	
10 - 31	21	5"	0.16			
31 - 51	20	6"	0.36	0.10		
51 - 61	10	22"	0.27	0.13		
61 - 71	10	26"	0.14	<0.1		
71 - 81	10	76"	0.11			
81 - 91	10	78"	0.20	0.06		0.84
91 -101	10	77"	0.19	0.13		0.47
101 -106	5	44"	0.14			
106 -119	13	67"	0.08			
119 -129	10	109"	0.04			
129 -139	10	115"	0.03			
139 -170	In sections of 10'	119" for each section	trace	<0.1		

No copper or cobalt is associated with the nickel and nly low sulphur values were found in the sections containing ickel. The serpentine, especially in the sections coinciding ith the magnetic anomaly, contains a high proportion of magnetite; he sections from 81 to 91 feet and from 91 to 101 feet were ssayed also for chromite. The section from 81 to 91 feet showed .84 percent Cr_2O_3 and 0.20 percent Ni, and the section from 91 o 101 feet showed 0.47 percent Cr_2O_3 and 0.19 percent Ni. Assays f the magnetic fractions of the crushed material showed a slight ncrease in nickel content.

A communication from the Director of Mines, Tasmania, ated 28th January, 1958, gives the following important information egarding some slides of samples from drill hole M23.

"A polished specimen of core from D.D.H. M23, 31ft. to ft., consists of altered, sheared serpentine, the rock being ry magnetic. Magnetite - ilmenite occurs as irregular masses to 0.3 mm across, surrounded by limonitic staining. Associated th the magnetite, and also occurring separately as minute dissemi- tions about 0.1 mm across, is a deep violet mineral identified as olarite. Some pyrrhotite occurs with it in the larger masses. a sample from 51 ft. to 61 ft., the magnetite is partly replaced pentlandite

930232

APPENDIX V

GEOPHOTO RESOURCES CONSULTANTS
AMBER CREEK GRID
DEEP SOIL GEOCHEMISTRY

Appendix I

930233

GEOPHOTO RESOURCES CONSULTANTS
Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320

CHEMICAL LABORATORY
4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 003178/79 PROJECT No.: SPL.89 - AMBER CREEK

LAB. SHEET No.: 1253/1 SAMPLE TYPE: SOIL PROF. DATE: 23rd February, 1973

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm					
0"- 10"	73-B-821	2	60	80					
10"- 1'2"	73-B-822	BLD	10	40					
1'2" - 1'7"	73-B-823	BLD	10	15					
1'7" - 2'2"	73-B-824	2	30	40					
2'2" - 2'10"	73-B-825	BLD	20	25					
2'10"- 3'4"	73-B-826	BLD	20	20					
3'4" - 4'6"	73-B-827	BLD	15	20					
0"- 8"	73-B-828	15	30	50					
9"- 1'5"	73-B-829	5	10	20					
1'5" - 2'5"	73-B-830	2	15	20					
2'5" - 3'3"	73-B-831	10	35	20					
3'3" - 3'10"	73-B-832	205	105	20					

METHODS: Cu, Pb, Zn by G.R.C. NO. 1

BLD = Below limit of detection

This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

Chief Chemist Ray W. Yerbury

930234

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007411-22 PROJECT No.: SPL.89 - AMBER CREEK, W. TAS.

LAB. SHEET No.: 1295/1 SAMPLE TYPE: SOIL PROF. DATE: 4th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
AC18N+10E	73-C-1077	BLD	BLD	BLD	5	20	BLD		
AC18N+18.0E	73-C-1078	"	"	"	5	15	"		
AC18N+7.0E	73-C-1079	"	5	"	BLD	20	"		
AC18N+2.5E	73-C-1080	"	5	"	5	20	"		
AC18N+14.0E	73-C-1081	"	5	"	5	20	"		
AC18N+7.5E	73-C-1082	"	10	"	25	35	"		
AC18N+1.5E	73-C-1083	"	10	"	20	40	"		
AC18N+1.0E	73-C-1084	"	10	"	5	55	"		
AC18N+12.5E	73-C-1085	5	20	"	20	110	"		
AC18N+22.5E	73-C-1086	BLD	50	"	20	205	"		
AC18N+25.0E	73-C-1087	"	70	"	25	340	"		
AC18N+3.5E	73-C-1088	"	120	"	25	540	"		
AC18N+2.0E	73-C-1089	"	BLD	"	15	30	"		
AC18N+9.5E	73-C-1090	"	10	"	20	100	"		
AC18N+5.0E	73-C-1091	"	BLD	"	5	10	"		
AC18N+14.5E	73-C-1092	"	"	"	15	20	"		
AC18N+6.0E	73-C-1093	"	5	"	10	20	"		
AC18N+15.5E	73-C-1094	"	BLD	"	5	5	"		
AC18N+11.5E	73-C-1095	5	5	"	5	10	"		
AC18N+9.0E	73-C-1096	2	5	"	30	15	"		
AC18N+23.5E	73-C-1097	BLD	5	"	10	15	"		
AC18N+10.5E	73-C-1098	"	10	"	10	10	"		
AC18N+22.0E	73-C-1099	"	BLD	"	15	10	"		
AC18N+24.0E	73-C-1100	"	"	"	15	15	"		
AC18N+24.5E	73-C-1101	"	"	"	10	10	"		
AC18N+17.5E	73-C-1102	"	"	"	BLD	BLD	"		
AC18N+8.0E	73-C-1103	"	5	"	10	5	"		
AC18N+13.0E	73-C-1104	"	BLD	"	10	10	"		
AC18N+12.0E	73-C-1105	5	"	"	25	25	"		
AC18N+19.0E	73-C-1106	BLD	"	"	BLD	5	"		
AC18N+4.5E	73-C-1107	"	"	"	5	10	"		
AC18N+8.5E	73-C-1108	"	"	"	5	2	"		
AC18N+6.5E	73-C-1109	"	"	"	15	10	"		
AC18N+4.0E	73-C-1110	"	"	"	5	10	"		
AC18N+18.5E	73-C-1111	"	"	"	5	10	"		
AC18N+11.0E	73-C-1112	"	20	"	30	20	"		
AC18N+15.0E	73-C-1113	"	BLD	"	10	20	"		
AC18N+16.0E	73-C-1114	"	"	"	5	10	"		
AC18N+6.5E	73-C-1115	"	"	"	30	10	"		
AC18N+baseln	73-C-1116	"	"	"	10	15	"		
AC18N+0.5E	73-C-1117	"	"	"	15	10	"		
AC18N+21.0E	73-C-1118	"	"	"	5	5	"		
AC18N+16.5E	73-C-1119	"	"	"	5	5	"		
AC18N+21.5E	73-C-1120	"	"	"	5	5	"		
AC18N+10.0E	73-C-1121	2	"	"	20	20	"		
AC18N+20.5E	73-C-1122	"	"	"	5	2	"		

METHODS: Cu, Pb, Zn, Ag, Ni, Co by G.R.C. NO. 1

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Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007411-22 PROJECT No.: SPL.89 - AMBER CREEK, W. TAS.

LAB. SHEET No.: 1295/2 SAMPLE TYPE: SOIL PROF. DATE: 4th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
AC18N+3.0E	73-C-1123	BLD	BLD	BLD	5	5	BLD		
AC18N+20.0E	73-C-1124	"	"	"	15	BLD	"		
AC18N+1.5E	73-C-1125	10	5	"	5	15	"		
AC18N+17.0E	SAMPLE MISSING								
AC18N+17.0E	73-C-1127	BLD	BLD	BLD	10	BLD	BLD		
AC18N+5.5E	73-C-1128	"	"	"	5	10	"		
AC18N+19.5E	73-C-1129	"	"	"	10	BLD	"		
AC18N+23.0E	73-C-1130	"	"	"	10	10	"		
AC18N+13.5E	73-C-1131	"	"	"	15	10	"		
AC18N+2.0W	73-C-1132	"	"	"	10	10	"		
AC18N+4.0W	73-C-1133	"	"	"	20	10	"		
AC18N+4.5W	73-C-1134	"	5	"	10	BLD	"		
AC20N+1.0E	73-C-1135	"	BLD	BLD	10	15	"		
AC20N+5.5E	73-C-1136	"	"	"	10	30	"		
AC20N+16.0E	73-C-1137	"	"	"	10	10	"		
AC20N+14.0E	73-C-1138	"	"	"	10	10	"		
AC20N+20.0E	73-C-1139	"	"	"	5	BLD	"		
AC20N+13.0E	73-C-1140	"	"	"	5	5	"		
AC20N+19.5E	73-C-1141	"	"	"	5	5	"		
AC20N+13.5E	73-C-1142	"	5	"	5	10	"		
AC20N+17.5E	73-C-1143	"	BLD	"	5	5	"		
AC20N+15.0E	73-C-1144	"	"	"	BLD	BLD	"		
AC20N+18.5E	73-C-1145	"	"	"	15	10	"		
AC20N+12.5E	73-C-1146	"	"	"	5	BLD	"		
AC20N+15.5E	73-C-1147	"	"	"	5	5	"		
AC20N+22.0E	73-C-1148	"	"	"	10	5	"		
AC20N+16.0E	73-C-1149	"	"	"	10	20	"		
AC20N+12.0E	73-C-1150	"	"	"	10	10	"		
AC20N+14.5E	73-C-1151	"	"	"	5	5	"		
AC20N+23 E	73-C-1152	"	"	"	40	10	"		
AC20N+22.5E	73-C-1153	"	"	"	5	5	"		
AC20N+24 E	73-C-1154	"	"	"	10	10	"		
AC20N+10.0E	73-C-1155	10	"	"	5	5	"		
AC20N+5.0E	73-C-1156	BLD	"	"	5	BLD	BLD		
AC20N+9.5E	73-C-1157	BLD	"	2	5	"	BLD		
AC20N+7.0E	73-C-1158	"	"	"	10	10	"		
AC20N+10.5E	73-C-1159	"	"	"	5	5	"		
AC20N+11.0E	73-C-1160	"	"	"	10	BLD	"		
AC20N+1.0E	73-C-1161	"	"	"	10	"	"		
AC20N+9.0E	73-C-1162	"	"	"	5	10	"		
AC20N+17.0E	73-C-1163	"	"	"	5	5	"		
AC20N+21.5E	73-C-1164	"	"	"	5	10	"		
AC20N+21.0E	73-C-1165	"	"	"	15	15	"		
AC20N+23.5E	73-C-1166	"	"	"	10	10	"		
AC20N+16.5E	73-C-1157	"	"	"	20	5	"		

METHODS:

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Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007411-22 PROJECT No.: SPL.89 - AMBER CREEK, W. TAS.

LAB. SHEET No.: 1295/3 SAMPLE TYPE: SOIL PROF. DATE: 4th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
AC20N+20.5E	73-C-1168	BLD	BLD	BLD	5	5	BLD		
AC20N+19.0E	73-C-1169	"	"	"	15	BLD	"		
AC20N+11.5E	73-C-1170	"	"	"	BLD	2	"		
AC20N+1.0E	73-C-1171	2	"	"	5	10	"		
AC22N+23.5E	73-C-1172	2	"	"	10	20	"		
AC22N+19.5E	73-C-1173	BLD	"	"	5	BLD	"		
AC22N+14.5E	73-C-1174	"	"	"	BLD	10	"		
AC22N+4.5W	73-C-1175	"	"	"	5	BLD	"		
AC22N+13.5E	73-C-1176	"	"	"	5	20	"		
AC22N+11.0E	73-C-1177	"	"	"	5	10	"		
AC22N+22.5E	73-C-1178	"	"	"	10	40	"		
AC22N+13.0E	73-C-1179	2	"	"	15	50	"		
AC22N+1.0E(B)	73-C-1180	15	"	"	5	15	"		
AC22N+18.5E	73-C-1181	5	"	"	5	10	"		
AC22N+21.5E	73-C-1182	15	"	"	10	20	"		
AC22N+20.5E	73-C-1183	10	"	"	5	20	"		
AC22N+12.0E	73-C-1184	10	"	"	5	10	"		
AC22N+3.5W	73-C-1185	BLD	"	"	15	5	"		
AC22N+5.5W	73-C-1186	"	"	"	10	BLD	"		
AC22N+17.0E	73-C-1187	"	"	"	5	10	"		
AC22N+17.5E	73-C-1188	5	"	"	5	BLD	"		
AC22N+2.0E(A)	73-C-1189	5	"	"	20	30	"		
AC22N+5.0E	73-C-1190	2	"	"	105	35	"		
AC22N+15.5E	73-C-1191	BLD	"	"	5	10	"		
AC22N+9.5E	73-C-1192	"	"	"	15	BLD	"		
AC22N+3.0E	73-C-1193	"	"	"	5	10	"		
AC22N+10.0E	73-C-1194	"	"	"	5	- 2	"		
AC22N+9.0E	73-C-1195	"	"	"	10	10	"		
AC22N+00(B)	73-C-1196	2	"	"	10	2	"		
AC22N+16.0E	73-C-1197	BLD	"	"	5	10	"		
AC22N+2.0E(B)	73-C-1198	2	"	"	15	10	"		
AC22N+2.0W	73-C-1199	BLD	"	"	15	10	"		
AC22N+4.0W	73-C-1200	"	"	"	15	BLD	"		
AC22N+5.0W	73-C-1201	"	"	"	15	"	"		
AC22N+3,0W	73-C-1202	"	"	"	15	"	"		
AC22N+6.0W	73-C-1203	"	"	"	35	"	"		
AC26N+13.5E	73-C-1204	"	"	"	5	"	"		
AC26N+22.5E	73-C-1205	"	"	"	10	2	"		
AC26N+15.0E	73-C-1206	"	"	"	10	25	"		
AC26N+12.5E	73-C-1207	"	5	"	25	20	"		
AC26N+12.0E	73-C-1208	"	5	"	15	25	"		
AC26N+13.0E	73-C-1209	"	BLD	"	5	5	"		
AC26N+21.5E	73-C-1210	"	"	"	5	10	"		
AC26N+baseln	73-C-1211	10	20	5	155	10	"		
AC26N+11.5E	73-C-1212	2	BLD	BLD	15	20	"		
AC26N+10.0E	73-C-1213	BLD	"	"	5	2	"		

METHODS:

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007411-22 PROJECT No.: SPL.89 - AMBER CREEK, W. TAS.

LAB. SHEET No.: 1295/3a SAMPLE TYPE: SOIL PROF. DATE: 4th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
AC26N+14.0E	73-C-1214	15	BLD	BLD	10	20	BLD		
AC26N+17.5E	73-C-1215	5	"	5	5	5	"		
AC26N+16.5E	73-C-1216	10	"	BLD	5	10	"		
AC26N+8.0E	73-C-1217	5	"	"	15	10	"		
AC26N+19.0E	73-C-1218	BLD	5	"	20	10	"		
AC26N+19.5E	73-C-1219	"	10	"	85	20	"		
AC26N+3.0E	73-C-1220	"	20	20	25	15	"		
AC26N+24.5E	73-C-1221	"	BLD	BLD	15	5	"		
AC26N+25.0E	73-C-1222	2	"	"	5	15	"		
AC26N+22.0E	73-C-1223	BLD	"	"	5	15	"		
AC26N+24.0E	73-C-1224	"	5	"	20	15	"		
AC26N+7.5E	73-C-1225	"	5	"	10	20	"		
AC26N+8.5E	73-C-1226	"	5	"	10	20	"		
AC26N+7.0W	73-C-1227	"	BLD	"	5	5	"		
AC26N+9.0W	73-C-1228	"	"	"	25	10	"		
AC26N+7.5W	73-C-1229	"	"	"	5	15	"		
AC26N+3.0W	73-C-1230	"	"	"	5	10	"		
AC26N+1.5W	73-C-1231	2	5	"	15	90	"		
AC26N+2.5W	73-C-1232	BLD	BLD	"	5	15	"		
AC30N+6.5E	73-C-1233	2	"	"	25	20	"		
AC30N+12.5E	73-C-1234	15	"	"	15	25	"		
AC30N+5.0E	73-C-1235	5	"	"	20	20	"		
AC30N+11.0E	73-C-1236	10	"	"	10	20	"		
AC30N+6.0E	73-C-1237	30	"	"	25	45	"		
AC30N+7.5E	73-C-1238	35	10	5	30	60	"		
AC30N+4.0E	73-C-1239	2	5	BLD	20	10	"		
AC30N+2.5E	73-C-1240	BLD	BLD	"	5	5	"		
AC30N+2.0E	73-C-1241	"	"	"	BLD	10	"		
AC30N+4.5E	73-C-1242	"	5	"	20	10	"		
AC30N+1.5E	73-C-1243	"	BLD	"	5	10	"		
AC30N+8.5E	73-C-1244	"	"	"	10	15	"		
AC30N+3.0E	73-C-1245	"	5	"	15	15	"		
AC30N+5.5E	73-C-1246	"	BLD	"	20	10	"		
AC30N+10.5E	73-C-1247	"	"	"	BLD	5	"		
AC30N+0.5W	73-C-1248	"	"	"	5	10	"		
AC34N+15.0E	73-C-1249	"	5	5	10	15	"		
AC34N+16.5E	73-C-1250	"	BLD	BLD	5	10	"		
AC34N+1.5E	73-C-1251	"	"	"	15	25	"		
AC34N+18.0E	73-C-1252	"	"	"	5	10	"		
AC34N+base	73-C-1253	"	10	10	45	40	"		
AC34N+18.5E	73-C-1254	"	BLD	BLD	5	10	"		
AC34N+18.0E	73-C-1255	"	"	"	5	10	"		
AC34N+9.5E	73-C-1256	"	"	"	5	10	"		
AC34N+1.5E	73-C-1257	BLD	5	BLD	45	45	BLD		
AC34N+19.0E	73-C-1258	2	BLD	"	5	10	"		
AC34N+12.5E	73-C-1259	15	"	"	10	25	"		

METHODS:

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007411-22 PROJECT No.: SPL.89 - AMBER CREEK, W. TAS.

LAB. SHEET No.: 1295/4 SAMPLE TYPE: SOIL PROF. DATE: 4th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
AC34N+16.0E	73-C-1260	2	BLD	BLD	5	10	BLD		
AC34N+2.0E	73-C-1261	BLD	"	"	15	20	"		
AC34N+3.5E	73-C-1262	"	"	"	10	10	"		
AC34N+5.5E	73-C-1263	"	"	"	5	10	"		
AC34N+12.0E	73-C-1264	"	"	"	5	15	"		
AC34N+14.5E	73-C-1265	"	"	"	10	10	"		
AC34N+4.5E	73-C-1266	"	"	"	5	10	"		
AC34N+6.5E	73-C-1267	"	5	"	5	15	"		
AC34N+2.5E	73-C-1268	"	BLD	"	20	55	"		
AC34N+10.5E	73-C-1269	20	"	"	10	10	"		
AC34N+7.5E	73-C-1270	BLD	"	"	5	10	"		
AC34N+5.5E	73-C-1271	"	10	"	5	10	"		
AC34N+11.0E	73-C-1272	"	BLD	"	BLD	10	"		
AC34N+8.0E	73-C-1273	"	5	"	5	10	"		
AC34N+9.0E	73-C-1274	"	10	"	10	10	"		
AC34N+14.0E	73-C-1275	"	BLD	"	25	20	"		
AC34N+8.5E	73-C-1276	"	70	"	20	20	1		
AC34N+12.0E	73-C-1277	"	BLD	"	5	10	BLD		
AC34N+9.0E	73-C-1278	"	"	"	BLD	10	"		
AC34N+13.5E	73-C-1279	"	5	"	15	45	"		
AC34N+5.0E	73-C-1280	"	BLD	"	5	10	"		
AC34N+7.5E	73-C-1281	"	"	"	DLD	10	"		
AC38N+0.5E	73-C-1282	"	"	"	25	20	"		
AC38N+8.5E	73-C-1283	"	10	"	10	10	"		
AC38N+18.0E	73-C-1284	"	BLD	"	10	15	"		
AC38N+5.5E	73-C-1285	"	5	"	10	10	"		
AC38N+14.5E	73-C-1286	"	BLD	"	10	20	"		
AC38N+3.5E	73-C-1287	"	5	"	20	20	"		
AC38N+6.5E	73-C-1288	"	5	"	5	15	"		
AC38N+5.0E	73-C-1289	"	5	"	15	15	"		
AC38N+1.0E	73-C-1290	"	BLD	"	15	10	"		
AC38N+18.5E	73-C-1291	"	"	"	5	10	"		
AC38N+10.5E	73-C-1292	15	5	10	15	20	1		
AC38N+14.0E	73-C-1293	BLD	BLD	BLD	5	10	BLD		
AC38N+13.5E	73-C-1294	"	"	"	10	10	"		
AC38N+10.0E	73-C-1295	"	"	"	5	10	"		
AC38N+base	73-C-1296	"	5	"	30	30	"		
AC38N+2.5E	73-C-1297	"	BLD	"	5	10	"		
AC38N+17.5E	73-C-1298	"	"	"	10	15	"		
AC38N+15.0E	73-C-1299	"	"	"	20	20	"		
AC38N+17.0E	73-C-1300	"	5	"	30	40	"		
AC38N+13.5E	73-C-1301	"	BLD	"	10	10	"		
AC38N+1.0E	73-C-1302	"	"	"	25	55	"		
AC38N+2.0E	73-C-1303	"	"	"	5	10	"		
AC38N+1.5E	73-C-1304	2	10	5	25	30	"		

METHODS:

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007411-22 PROJECT No.: SPL.89 - AMBER CREEK, W. TAS.

LAB. SHEET No.: 1295/5 SAMPLE TYPE: SOIL PROF. DATE: 4th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
AC38N+5.5W	73-C-1305	BLD	25	5	30	45	BLD		
AC38N+3.0W	73-C-1306	"	BLD	BLD	15	10	"		
AC38N+12.0W	73-C-1307	"	"	"	15	20	"		
AC38N+7.5W	73-C-1308	"	"	"	15	20	"		
AC38N+5.0W	73-C-1309	"	"	"	40	30	"		
AC38N+10.5W	73-C-1310	5	5	"	30	20	"		
AC38N+9.5W	73-C-1311	5	20	5	30	110	"		
AC38N+4.5W	73-C-1312	BLD	20	5	30	50	"		
AC38N+6.0W	73-C-1313	"	5	BLD	35	10	"		
AC38N+13.0W	73-C-1314	5	BLD	"	10	5	"		
AC38N+4.0W	73-C-1315	BLD	5	"	25	30	"		
AC38N+12.5W	73-C-1316	10	15	"	35	100	"		
AC38N+11.0W	73-C-1317	BLD	10	"	20	55	"		
AC38N+7.0W	73-C-1318	"	BLD	"	25	20	"		
AC42N+3.5E	73-C-1319	2	10	"	25	20	"		
AC42N+13.5E	73-C-1320	BLD	BLD	"	10	10	"		
AC42N+17.5E	73-C-1321	"	"	"	15	30	"		
AC42N+18.5E	73-C-1322	"	"	"	BLD	5	"		
AC42N+3.0E	73-C-1323	"	35	5	45	45	"		
30N + 7.0E	73-C-1324	"	BLD	BLD	30	40	"		
30N + 4.5W	73-C-1325	"	"	"	15	10	"		
30N + 5.0W	73-C-1326	"	"	"	20	10	"		
30N + 0.5E	73-C-1327	"	"	"	5	10	"		
30N + 10W	73-C-1328	"	"	"	20	10	"		
30N + 5.5E	73-C-1329	"	"	"	20	TO	"		
30N + 8.5E	73-C-1330	"	20	"	15	15	"		
30N + 3.5W	73-C-1331	"	10	"	10	20	"		
30N + 11E	73-C-1332	"	BLD	"	5	15	"		
30N + 12E	73-C-1333	5	10	"	15	10	"		
30N + 2.5W	73-C-1334	BLD	BLD	"	5	10	"		
30N + 6.5W	73-C-1335	"	"	"	5	5	"		
30N + 3W	73-C-1336	"	"	"	5	10	"		
30N + 8E	73-C-1337	2	"	"	50	60	"		
30N + 5.5E	73-C-1338	BLD	"	"	10	20	"		
30N + 1E	73-C-1339	"	"	"	25	25	"		
30N + 13.5E	73-C-1340	"	5	"	10	30	"		
26N + 0.5E	73-C-1341	10	5	"	30	60	"		
26N + 3.5E	73-C-1342	BLD	BLD	"	5	15	"		
26N + 23E	73-C-1343	"	"	"	5	10	"		
26N + 6.5W	73-C-1344	"	"	"	5	15	"		
26N + 18.5W	73-C-1345	"	10	"	15	20	"		
26N + 4W	73-C-1346	"	BLD	"	15	15	"		
26N + 3.5W	73-C-1347	"	"	"	5	15	"		
26N + 15.5W	73-C-1348	"	"	"	5	10	"		
26N + 2W	73-C-1349	"	"	"	5	10	"		

METHODS:

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Chief Chemist

930240

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007411-22 PROJECT No.: SPL.89 - AMBER CREEK, W. TAS.

LAB. SHEET No.: 1295/6 SAMPLE TYPE: SOIL PROF. DATE: 4th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
26N + 5E	73-C-1350	BLD	BLD	BLD	5	15	BLD		
26N + 5W	73-C-1351	"	"	"	20	10	"		
26N + 9.5E	73-C-1352	"	"	"	5	10	"		
26N + 0.5W	73-C-1353	"	"	"	15	15	"		
26N + 9E	73-C-1354	"	"	"	5	10	"		
26N + 8W	73-C-1355	"	"	"	10	10	"		
26N + 21E	73-C-1356	"	"	"	15	10	"		
26N + 11E	73-C-1357	"	"	"	5	10	"		
22N + 18E	73-C-1358	"	5	"	5	10	"		
22N + 15E	73-C-1359	"	BLD	"	5	10	"		
22N + 14E	73-C-1360	"	"	"	5	5	"		
20N + 0.5W	73-C-1361	"	"	"	10	15	"		
20N + 4.5E	73-C-1362	"	"	"	20	30	"		
20N + 2W	73-C-1363	"	5	"	20	25	"		
20N + 22E	73-C-1364	"	5	"	10	20	"		
20N + 2.5E	73-C-1365	"	BLD	"	10	15	1		
20N + 2E	73-C-1366	10	10	"	20	30	1		
22N + 4.5E	73-C-1367	BLD	5	"	15	50	BLD		
22N + 1W	73-C-1368	"	BLD	"	5	30	"		
22N + 7W	73-C-1369	"	10	"	15	35	"		
22N + 21E	73-C-1370	"	10	"	5	55	"		
22N + 5.5E	73-C-1371	"	10	"	20	70	"		
22N + 10.5E	73-C-1372	"	BLD	"	5	20	"		
22N + 22E	73-C-1373	"	"	"	5	10	"		
22N + 24E	73-C-1374	"	"	"	5	15	"		
22N + 12.5E	73-C-1375	"	"	"	5	10	"		
22N + 7.5E	73-C-1376	"	"	"	BLD	5	"		
22N + 6.5E	73-C-1377	2	BLD	BLD	10	20	"		
22N + 6.5W	73-C-1378	BLD	"	"	25	10	"		
18N + 6W	73-C-1379	"	"	"	40	20	"		
18N + 2.5W	73-C-1380	2	"	"	10	10	"		
18N + 0.5W	73-C-1381	BLD	"	"	5	5	"		
20N + 4.5W	73-C-1382	"	"	"	5	10	"		
42N + 14.5E	73-C-1383	10	"	"	10	20	"		
42N + 2.5W	73-C-1384	5	"	"	5	10	"		
42N + 12.5W	73-C-1385	2	"	"	5	5	"		
42N + 11W	73-C-1386	BLD	"	"	5	10	"		
42N + 16.5W	73-C-1387	"	"	"	BLD	10	1		
42N + 19E	73-C-1388	"	"	"	5	10	BLD		
42N + 3W	73-C-1389	10	5	"	15	10	"		
42N + 7.0E	73-C-1390	BLD	5	"	25	10	"		
42N + 14.5E	73-C-1391	"	BLD	"	10	15	"		
42N + 16E	73-C-1392	"	"	"	10	10	"		
42N + 8.5E	73-C-1393	"	"	"	10	15	"		
42N + 11E	73-C-1394	2	"	"	15	55	"		

METHODS:

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Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007411-22 PROJECT No.: SPL.89 - AMBER CREEK, W.TAS.

LAB. SHEET No.: 1295/7 SAMPLE TYPE: SOIL PROF. DATE: 4th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
42N + 7.5E	73-C-1395	BLD	BLD	BLD	5	15	BLD		
42N + 10E	73-C-1396	"	"	"	5	10	"		
42N + 5E	73-C-1397	"	"	"	10	25	"		
42N + 18E	73-C-1398	"	5	"	BLD	10	"		
42N + 12E	73-C-1399	"	BLD	"	5	15	"		
42N + 1.5E	73-C-1400	10	15	"	65	35	"		
42N + 20E	73-C-1401	BLD	BLD	"	5	15	"		
42N + 0.5E	73-C-1402	5	10	"	65	55	"		
42N + 14E	73-C-1403	BLD	BLD	"	5	5	"		
42N + 15.5E	73-C-1404	"	"	"	5	15	"		
42N + 8E	73-C-1405	"	5	"	15	10	"		
42N + 14E	73-C-1406	2	BLD	"	10	30	"		
42N + 2E	73-C-1407	150	85	25	185	1175	2		
42N + 2.5E	73-C-1408	10	20	BLD	60	40	BLD		
42N + base	73-C-1409	BLD	BLD	"	10	10	"		
42N + 9E	73-C-1410	"	"	"	5	30	"		
42N + 10.5E	73-C-1411	"	10	"	30	10	"		
42N + 11.5E	73-C-1412	"	BLD	"	5	10	"		
42N + 13E	73-C-1413	"	"	"	5	10	"		
38N + 19E	73-C-1414	"	"	"	15	30	"		
38N + 13E	73-C-1415	"	"	"	5	5	"		
38N + 17E	73-C-1416	"	5	"	10	35	"		
38N + 15.5E	73-C-1417	"	5	"	10	10	"		
38N + 2.0E	73-C-1418	"	BLD	"	15	10	"		
38N + 8.5W	73-C-1419	"	"	"	75	20	"		
38N + 6.5W	73-C-1420	2	"	"	35	15	"		
38N + 0.5W	73-C-1421	BLD	5	"	35	25	"		
38N + 3.5W	73-C-1422	"	5	"	35	15	"		
38N + 12E	73-C-1422A	"	BLD	"	10	20	"		
38N + 6E	73-C-1423	"	5	"	40	25	"		
38N + 16.5E	73-C-1424	2	BLD	"	25	35	"		
38N + 16W	73-C-1425	BLD	"	"	5	15	"		
38N + 14.5W	73-C-1426	"	5	"	10	15	"		
38N + 1.5E	73-C-1427	"	BLD	"	5	15	"		
38N + 9.5E	73-C-1428	2	"	"	15	20	"		
38N + 4.5E	73-C-1429	5	5	"	40	30	"		
38N + 7.5E	73-C-1430	BLD	10	"	20	15	"		
38N + 3.0E	73-C-1431	"	BLD	"	115	20	"		
38N + 16W	73-C-1432	2	5	"	40	20	"		
38N + 11E	73-C-1433	BLD	BLD	"	5	10	"		
38N + 4E	73-C-1434	"	5	"	15	15	"		
38N + 1.5E	73-C-1435	"	BLD	"	5	15	"		
38N + 10E	73-C-1436	2	15	BLD	10	25	BLD		
38N + 9E	73-C-1437	BLD	BLD	"	10	25	"		
34N + 7.5E	73-C-1438	"	"	"	5	10	"		

METHODS:

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Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007411-22 PROJECT No.: SPL.89 - AMBER CREEK, W.TAS.

LAB. SHEET No.: 1295/8 SAMPLE TYPE: SOIL PROF. DATE: 4th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
34N + 4E	73-C-1439	BLD	BLD	BLD	10	20	BLD		
34N + 0.5E	73-C-1440	"	10	"	25	75	"		
34N + 6E	73-C-1441	"	BLD	"	10	20	"		
34N + 13.5E	73-C-1442	"	"	"	25	30	"		
34N + 7E	73-C-1443	"	"	"	30	30	"		
34N + 4W	73-C-1444	"	5	"	5	10	"		
34N + 13E	73-C-1445	"	BLD	"	15	15	"		
34N + 5.0E	73-C-1446	"	"	"	10	20	"		
34N +1.0E	73-C-1447	"	10	"	25	55	"		
34N + 13.0E	73-C-1448	5	BLD	"	15	10	1		
34N + 3.0E	73-C-1449	5	"	"	15	10	BLD		
42N + 14W	73-C-1453	BLD	"	"	5	10	"		
42N + 15E	73-C-1454	"	"	"	BLD	15	"		
42N + 6E	73-C-1455	"	50	5	120	15	1		
42N + 14.5E	73-C-1456	"	BLD	BLD	15	10	BLD		
42N + 14.5W	73-C-1457	"	"	"	45	15	"		
42N + 5.5W	73-C-1458	"	"	"	5	10	"		
42N + 13.5W	73-C-1459	"	"	"	5	10	"		
42N + 6.0W	73-C-1460	"	"	"	5	5	"		
42N + 1.0W	73-C-1461	"	"	"	5	5	"		
42N + 6.5W	73-C-1462	"	"	"	5	10	"		
42N + 19.5E	73-C-1463	"	"	"	BLD	5	"		
42N + 9.5W	73-C-1464	2	5	"	45	10	"		
42N + 3.5W	73-C-1465	15	BLD	"	25	20	"		
42N + 10.5W	73-C-1466	10	"	"	15	10	"		
42N + 0.5W	73-C-1467	BLD	5	"	10	10	"		
42N + 4.5W	73-C-1468	"	BLD	"	25	10	"		
42N + 13E	73-C-1469	2	"	"	5	15	"		
42N + 1.5E	73-C-1470	2	"	"	10	10	"		
42N + 10.5W	73-C-1471	2	5	"	20	15	"		
42N + 7.5W	73-C-1472	BLD	5	"	10	10	"		
42N + 2.0W	73-C-1473	2	5	"	15	10	"		
42N + 16W	73-C-1474	15	15	"	50	25	"		
42N + 1.5W	73-C-1475	5	5	"	25	10	"		
42N + 5W	73-C-1476	BLD	BLD	"	5	10	"		
42N + 9.5W	73-C-1477	"	"	"	10	10	"		
42N + 6.5W	73-C-1478	"	"	"	10	10	"		
42N + 12.5W	73-C-1479	"	"	"	5	5	"		
42N + 1E	73-C-1480	10	25	15	115	115	1		
42N + 11.5W	73-C-1481	BLD	5	BLD	15	15	BLD		
42N + 12.0E	73-C-1482	2	BLD	"	15	20	"		
42N + 10.0W	73-C-1483	BLD	"	"	10	10	"		
42N + 9.0W	73-C-1484	"	5	"	15	10	"		
42N + 15.5W	73-C-1485	10	5	"	25	10	"		
42N + 8W	73-C-1486	BLD	BLD	"	15	15	"		

METHODS:

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Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007411-22 PROJECT No.: SPL.89 - AMBER CREEK, W.TAS.

LAB. SHEET No.: 1295/9 SAMPLE TYPE: SOIL PROF. DATE: 4th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
42N + 8.5W	73-C-1487	BLD	10	BLD	25	30	BLD		
42N + 17W	73-C-1488	2	10	"	15	20	"		
42N + 7W	73-C-1489	BLD	BLD	"	5	10	"		
42N + 4W	73-C-1490	2	5	"	25	15	"		
42N + 17.0W	73-C-1491	BLD	BLD	"	5	15	"		
18N + 5W	73-C-1492	"	5	"	15	10	"		
18N + 3W	73-C-1493	20	15	10	70	15	"		
18N + 7.0W	73-C-1494	BLD	BLD	BLD	5	10	"		
18N + 5.5W	73-C-1495	"	"	"	20	10	"		
18N + 3.5W	73-C-1496	"	"	"	15	10	"		
30N + 1.5W	73-C-1497	"	"	"	5	10	"		
30N + 7W	73-C-1498	"	"	"	5	10	"		
30N + 9W	73-C-1499	"	"	"	15	10	"		
30N + 11.5W	73-C-1500	"	5	"	10	15	"		
30N + 7.5W	73-C-1501	"	5	"	5	10	"		
30N + 1.0W	73-C-1502	2	5	"	5	20	"		
30N + 2.0W	73-C-1503	BLD	BLD	"	5	10	"		
30N + 8W	73-C-1504	"	"	"	5	10	"		
30N + 6W	73-C-1505	"	"	"	10	15	"		
30N + 9.5E	73-C-1506	"	"	"	15	20	"		
30N + 9.5W	73-C-1507	"	10	"	15	10	"		
30N + base	73-C-1508	2	10	5	15	15	"		
38N + 17.5W	73-C-1509	2	5	BLD	35	50	"		
38N + 7.0E	73-C-1510	BLD	20	"	15	10	1		
38N + 2.5W	73-C-1511	"	BLD	"	15	15	BLD		
38N + 6E	73-C-1512	5	35	15	45	45	1		
38N + 16E	73-C-1513	BLD	BLD	BLD	15	10	BLD		
38N + 15W	73-C-1514	"	"	"	15	10	"		
38N + 12.5E	73-C-1515	"	"	"	5	10	"		
38N + 11.5W	73-C-1516	2	5	"	35	25	"		
38N + 10W	73-C-1517	BLD	10	"	15	10	"		
38N + 15E	73-C-1518	2	5	"	15	20	"		
38N + 14W	73-C-1519	BLD	BLD	"	10	40	"		
20N + 2.0W	73-C-1520	"	"	"	10	10	"		
20N + 1.5E	73-C-1521	"	"	"	15	2	"		
20N + 6.0E	73-C-1522	"	"	"	5	BLD	"		
20N + base	73-C-1523	"	"	"	10	10	"		
20N + 6.5E	73-C-1524	"	"	"	20	20	"		
20N + 1.5W	73-C-1525	"	"	"	5	5	"		
34N + 1W	73-C-1526	2	"	5	50	25	"		
34N + 10W	73-C-1527	BLD	"	BLD	5	10	"		
34N + 6.5W	73-C-1528	2	"	"	65	20	"		
34N + 5.5W	73-C-1529	BLD	"	"	10	10	"		
34N + 2W	73-C-1530	2	10	5	45	40	1		
34N + 14W	73-C-1531	BLD	BLD	BLD	10	5	BLD		

METHODS:

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Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007411-22 PROJECT No.: SPL.89 - AMBER CREEK, W.TAS.

LAB. SHEET No.: 1295/10 SAMPLE TYPE: SOIL PROF. DATE: 4th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
34N + 11W	73-C-1532	10	10	5	25	10	1		
34N + 14.5W	73-C-1533	BLD	BLD	BLD	5	5	BLD		
34N + 3.0W	73-C-1534	"	"	"	20	10	"		
34N + 10.5W	73-C-1535	"	"	"	5	2	"		
34N + 11.5W	73-C-1536	"	"	"	5	BLD	"		
34N + 4.5W	73-C-1537	"	"	"	10	5	"		
34N + 10E	73-C-1538	"	"	"	10	10	"		
34N + 8W	73-C-1539	25	"	"	20	10	"		
34N + 11.5W	73-C-1540	2	5	"	15	10	"		
34N + 12.5W	73-C-1541	2	BLD	"	10	10	"		
34N + 15.0W	73-C-1542	BLD	"	"	15	5	"		
34N + 2.5E	73-C-1543	"	10	5	45	40	1		
34N + 9.5W	73-C-1544	"	BLD	BLD	5	5	BLD		
34N + 6.0W	73-C-1545	"	"	"	15	10	"		
34N + 7.0W	73-C-1546	15	"	"	25	20	"		
34N + 8.5E	73-C-1547	BLD	"	"	20	10	"		
34N + 3.5W	73-C-1548	"	5	"	10	10	1		
34N + 0.5W	73-C-1549	5	10	10	80	40	1		
26N + 8.5E	73-C-1550	BLD	BLD	BLD	5	10	BLD		
26N + 2.5E	73-C-1551	"	"	"	5	25	"		
26N + 5.5E	73-C-1552	"	"	"	5	20	"		
26N + 6E	73-C-1553	"	"	"	10	10	"		
26N + 10W	73-C-1554	"	"	"	15	10	"		
26N + 20E	73-C-1555	"	"	"	10	10	"		
26N + 9.5W	73-C-1556	"	"	"	15	10	"		
26N + 45E	73-C-1557	"	"	"	10	20	"		
26N + 6W	73-C-1558	"	"	"	20	20	"		
26N + 1.5E	73-C-1559	"	"	"	10	2	"		
26N + 14.5E	73-C-1560	"	"	"	10	10	"		
26N + 4E	73-C-1561	"	"	"	5	15	"		
26N + 2.0E	73-C-1562	"	"	"	10	20	"		
26N + 1W	73-C-1563	5	5	"	65	20	"		
26N + 10.0E	73-C-1564	BLD	BLD	"	5	5	"		
26N + 1.0E	73-C-1565	"	5	"	20	15	"		
26N + 7.0E	73-C-1566	"	BLD	"	10	10	"		
26N + 23.5E	73-C-1567	"	"	"	5	10	"		
26N + 20.5E	73-C-1568	"	"	"	10	10	"		
26N + 5.5E	73-C-1569	"	"	"	20	10	"		
26N + 17.0E	73-C-1570	"	5	"	15	10	"		
26N + 3E	73-C-1571	"	BLD	"	5	5	"		
26N + 18E	73-C-1572	"	5	5	20	10	1		
26N + 11.5E	73-C-1573	"	BLD	BLD	15	30	BLD		
22N + 2.5E	73-C-1574	"	20	5	95	20	1		
22N + 4.0E	73-C-1575	"	BLD	BLD	5	BLD	BLD		
22N + 8E	73-C-1576	"	"	"	5	5	"		

METHODS:

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Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007411-22 PROJECT No.: SPL.89 - AMBER CREEK, W.TAS.

LAB. SHEET No.: 1295/11 SAMPLE TYPE: SOIL PROF. DATE: 4th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
22N + 8.5E	73-C-1577	BLD	10	BLD	25	15	BLD		
22N + 7.5E	73-C-1578	"	BLD	"	15	20	"		
22N + 6E	73-C-1579	"	"	"	5	5	"		
22N + 3.0E	73-C-1580	"	"	"	5	15	"		
22N + 3.5E	73-C-1581	"	"	"	5	20	"		
22N + 11E	73-C-1582	"	"	"	10	5	"		
22N + 1.5W	73-C-1583	"	"	"	5	5	"		
22N + 2.5W	73-C-1584	"	"	"	15	10	"		
22N + base	73-C-1585	"	"	"	10	15	"		
22N + 4.0E	73-C-1586	"	"	"	5	5	"		
22N + 8.5E	73-C-1587	"	"	"	5	5	"		
22N + 0.5W	73-C-1588	"	"	"	5	15	"		
22N + 6.5E	73-C-1589	"	"	"	15	15	"		
22N + 16.5E	73-C-1590	"	"	"	5	5	"		
22N + 8E	73-C-1591	"	"	"	BLD	5	"		
22N + 23E	73-C-1592	"	"	"	5	10	"		
22N + 7.0E	73-C-1593	"	"	"	5	10	"		
22N + 0.5E	73-C-1594	"	"	"	5	BLD	"		
22N + 1.0E	73-C-1595	"	"	"	5	5	"		
22N + 3.5E	73-C-1596	"	"	"	10	BLD	"		
22N + 1.5E	73-C-1597	"	"	"	5	2	"		
22N + 11.5E	73-C-1598	"	"	"	BLD	2	"		
20N + 0.5E	73-C-1599	"	"	"	5	5	"		

METHODS:

This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

Chief Chemist

930246

APPENDIX VI

GEOPHOTO RESOURCES CONSULTANTS
AMBER CREEK GRID
DEEP SOIL GEOCHEMISTRY

Appendix D 930247

Herschel Street, Brisbane 4000
Telephone 2 7320

Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 000984 PROJECT No.: SPL89 AMBER CREEK

LAB. SHEET No.: 1372/1 SAMPLE TYPE: SOIL PROFILE DATE: 3rd July, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Cr ppm
34N + 1W	73-F-852	10	15	5	70	95	BLD	15
2W	73-F-853	5	15	10	60	40	1	10
3W	73-F-854	5	10	BLD	30	35	BLD	30
4W	73-F-855	5	20	10	65	55	1	20
6W	73-F-856	BLD	5	5	15	35	BLD	1750
7W	73-F-857	BLD	5	5	15	60	BLD	2650
1E	73-F-858	5	15	5	35	40	1	20
2E	73-F-859	5	10	5	30	25	BLD	BLD
3E	73-F-860	5	15	BLD	35	25	BLD	15
4E	73-F-861	10	10	BLD	30	20	BLD	5
5E	73-F-862	15	10	BLD	25	25	BLD	10
34N + 00	73-F-863	5	10	5	45	90	1	20
36N + 1W	73-F-864	5	10	5	40	35	1	15
2W	73-F-865	5	15	5	20	15	BLD	5
3W	73-F-866	2	10	BLD	25	25	BLD	35
4W	73-F-867	5	15	5	35	25	1	30
5W	73-F-868	2	15	5	35	80	BLD	15
6W	73-F-869	2	15	5	30	45	BLD	25
7W	73-F-870	2	10	BLD	30	45	BLD	10
8W	73-F-871	2	20	5	35	45	BLD	15
00	73-F-872	5	10	5	40	25	BLD	15
1E	73-F-873	10	20	5	70	55	1	15
2E	73-F-874	10	15	5	60	50	1	10
3E	73-F-875	10	20	5	60	55	1	5
4E	73-F-876	10	15	5	40	45	BLD	10
36N + 5E	73-F-877	10	15	5	35	25	BLD	5
38N + 1W	73-F-878	BLD	5	BLD	25	30	BLD	30
2W	73-F-879	BLD	5	BLD	15	15	BLD	60
3W	73-F-880	BLD	BLD	BLD	15	10	BLD	20

METHODS: Cu Ni Co Pb Zn Ag Cr by GRC No. 1

This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

930248

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 000984/5 PROJECT No.: SPL 89 AMBER CREEK

LAB. SHEET No.: 1372/2 SAMPLE TYPE: SOIL PROFILE DATE: 3rd July, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Cr ppm
38N + 4W	73-F-881	5	10	5	25	110	BLD	50
5W	73-F-882	2	5	5	30	35	BLD	80
6W	73-F-883	BLD	BLD	BLD	15	50	BLD	2050
7W	73-F-884	BLD	BLD	BLD	20	45	BLD	2200
8W	73-F-885	BLD	BLD	BLD	20	35	BLD	1050
9W	73-F-886	5	BLD	BLD	20	20	BLD	35
10W	73-F-887	2	10	BLD	15	20	BLD	40
11W	73-F-888	2	5	BLD	15	15	BLD	25
12W	73-F-889	5	10	5	25	20	BLD	30
13W	73-F-890	BLD	BLD	BLD	10	10	BLD	30
14W	73-F-891	10	30	20	35	65	BLD	20
15W	73-F-892	2	5	BLD	15	15	BLD	5
16W	73-F-893	BLD	5	BLD	15	5	BLD	35
17W	73-F-894	2	10	BLD	30	15	BLD	20
1E	73-F-895	135	155	35	50	710	2	40
2E	73-F-896	45	90	30	115	1080	1	45
3E	73-F-897	30	40	20	120	550	1	10
4E	73-F-898	25	55	30	125	345	BLD	BLD
5E	73-F-899	15	15	5	40	40	BLD	15
6E	73-F-900	15	10	BLD	30	30	BLD	10
38N + 7E	73-F-901	10	10	BLD	35	40	BLD	5
40N + 1W	73-F-902	25	40	15	80	220	BLD	15
2W	73-F-903	15	35	15	30	65	1	BLD
3W	73-F-904	30	40	20	40	70	2	BLD
4W	73-F-905	25	25	15	40	30	2	BLD
5W	73-F-906	30	20	15	50	80	2	BLD
6W	73-F-907	20	20	15	35	50	2	BLD
40N + 7W	73-F-908	2	10	BLD	20	10	BLD	15
40N + 7.0W	73-F-931	45	35	10	35	90	BLD	BLD

METHODS:

This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been per-

930249

Telephone 2 7320

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 000965 PROJECT No.: SPL 89 AMBER CREEK

LAB. SHEET No.: 1372/3 SAMPLE TYPE: SOIL PROFILE DATE: 3rd July, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Cr ppm
40N + 8W	73-F-909	5	10	5	25	15	BLD	5
9W	73-F-910	BLD	5	5	10	15	BLD	260
00	73-F-911	30	65	25	280	585	BLD	25
1E	73-F-912	45	65	20	225	395	BLD	10
2E	73-F-913	20	60	30	35	170	BLD	BLD
3E	73-F-914	25	45	20	30	210	1	BLD
4E	73-F-915	15	315	115	45	655	2	BLD
40N + 5E	73-F-916	95	65	30	205	500	1	55
42N + 1W	73-F-917	55	45	25	95	85	1	BLD
2W	73-F-918	20	30	25	25	50	BLD	BLD
3W	73-F-919	30	15	10	50	65	BLD	BLD
4W	73-F-920	25	30	15	25	40	1	BLD
5W	73-F-921	60	180	95	340	680	1	10
6W	73-F-922	20	25	20	40	40	2	BLD
7W	73-F-923	40	30	20	265	155	2	BLD
8W	73-F-924	20	25	20	90	145	2	BLD
00	73-F-925	30	50	25	25	120	1	BLD
2E	73-F-926	30	35	25	80	85	2	BLD
3E	73-F-927	30	20	20	40	45	2	BLD
4E	73-F-928	15	40	25	25	55	1	BLD
5E	73-F-929	30	50	30	35	70	BLD	BLD
42N + 6E	73-F-930	35	45	10	50	105	1	BLD

METHODS:

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930250

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007368 PROJECT No.: EL-68 WEST TASMANIA/AMBER CREEK

LAB. SHEET No.: 1387 SAMPLE TYPE: SOIL DATE: 27/7/73

SAMPLE No.	LAB. No.	Pb ppm	Zn ppm	H.M. Fraction %
38N + 1E	73-G-769	110	0.26%	2.3
38N + 2E	73-G-770	215	565	2.4
38N + 3E	73-G-771	250	875	0.6
38N + 4E	73-G-772	1100	1500	0.7

METHODS: Pb Zn by GRC No. 1
H.M. by GRC No. 706

This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

930251

APPENDIX VII

GEOPHOTO RESOURCES CONSULTANTS
GEOPHOTO GRID
SOIL AND ROCK GEOCHEMISTRY

930252

GEOPHYSICAL RESOURCES CONSULTANTS
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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007424 PROJECT No.: EL.7/68 - MACINTYRE

LAB. SHEET No.: 1305/1 SAMPLE TYPE: SOIL PROF. DATE: 11th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
00 + 3.0E	73-D-324	30	40	15	55	85	1		
00 + 1.5E	73-D-325	BLD	5	BLD	10	20	BLD		
00 + 3.5E	73-D-325A	20	25	10	40	50	1		
00 + 5.5E	73-D-326	10	25	10	30	40	1		
00 + 10.0E	73-D-327	15	50	10	25	70	1		
00 + 9.5E	73-D-328	10	25	10	30	50	BLD		
00 + 4.0E	73-D-329	20	30	10	20	50	BLD		
00 + 5.0E	73-D-330	15	20	10	20	95	BLD		
00 + 4.5E	73-D-331	15	15	10	20	25	BLD		
00 + 7.0E	73-D-332	25	30	10	25	80	BLD		
00 + 2.0E	73-D-333	5	15	5	20	35	BLD		
00 + 6.0E	73-D-334	15	30	10	30	60	BLD		
00 + 9.0E	73-D-335	15	20	15	45	70	1		
00 + 6.5E	73-D-336	15	30	10	25	40	1		
00 + 00	73-D-337	15	30	20	65	80	BLD		
00 + 8.0E	73-D-338	10	15	10	35	40	1		
00 + 2.5E	73-D-339	35	60	20	40	105	BLD		
00 + 8.5E	73-D-340	10	20	10	40	60	BLD		
00 + 7.5E	73-D-341	20	40	10	30	70	1		
00 + 0.5E	73-D-342	10	10	5	50	50	BLD		
00 + 1.5E	73-D-343	5	20	10	60	40	BLD		
00 + 4.5W	73-D-344	25	20	10	70	80	1		
00 + 5.0W	73-D-345	30	20	15	110	85	1		
00 + 3.0W	73-D-346	20	25	10	40	55	1		
00 + 2.5W	73-D-347	25	35	40	80	60	1		
00 + 0.5W	73-D-348	10	15	10	30	40	1		
00 + 3.5W	73-D-349	30	20	10	60	70	1		
00 + 4.0W	73-D-350	30	10	5	125	60	1		
00 + 2.0W	73-D-351	30	30	20	110	85	2		
00 + 1.0W	73-D-352	10	10	5	55	35	BLD		

METHODS: Cu, Ni, Co, Pb, Zn, Ag by SRC NO. 1

This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

Chief Chemist

930253

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007424/25 PROJECT No.: EL.7/68 - MACINTYRE

LAB. SHEET No.: 1305/2 SAMPLE TYPE: SOIL PROF. DATE: 11th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
00 + 1.5W	73-D-353	10	10	5	50	40	BLD		
00 + 0.5N	73-D-354	40	20	45	180	190	1		
00 + 2.5N	73-D-355	20	30	15	40	55	1		
00 + 3.5N	73-D-356	30	35	20	100	70	1		
00 + 1.5N	73-D-357	15	15	10	65	50	1		
00 + 4.0N	73-D-358	25	25	20	110	85	1		
00 + 1.0N	73-D-359	10	10	10	125	40	1		
00 + 3.5N	73-D-360	30	30	20	85	70	1		
00 + 2.0N	73-D-361	20	25	10	55	70	1		
4N + 9.0E	73-D-362	15	40	15	30	60	1		
4N + 8.5E	73-D-363	25	60	20	25	75	1		
4N + 10.0E	73-D-364	10	20	10	30	40	BLD		
4N + 8.0E	73-D-365	15	35	10	30	60	1		
4N + 1.5W	73-D-366	35	35	30	75	80	1		
4N + 6.5E	73-D-367	30	45	15	50	80	1		
4N + 5.0E	73-D-368	30	20	20	125	70	1		
4N + 2.5E	73-D-369	25	10	5	115	70	BLD		
4N + 2.0W	73-D-370	30	35	10	60	85	1		
4N + 2.0E	73-D-371	10	10	10	65	40	BLD		
4N + 7.5E	73-D-372	20	35	10	35	60	1		
4N + 1.0W	73-D-373	20	15	5	90	60	BLD		
4N + 3.5E	73-D-374	35	25	10	80	125	1		
4N + 4.5E	73-D-375	20	20	10	60	60	1		
4N + 9.5E	73-D-376	10	15	BLD	70	40	BLD		
4N + 1.0E	73-D-377	15	20	5	55	55	BLD		
4N + 3E	73-D-378	20	30	10	60	70	1		
4N + 0.5W	73-D-379	20	30	15	85	80	1		
4N + 4.5E	73-D-380	20	20	10	50	50	1		
4N + 4.0W	73-D-381	45	25	20	85	80	1		
4N + 4.5W	73-D-382	10	10	5	60	30	BLD		

METHODS:

This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

Chief Chemist

930254

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007425 PROJECT No.: EL.7/68 - MACINTYRE

LAB. SHEET No.: 1305/3 SAMPLE TYPE: SOIL PROF. DATE: 11th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
4N + 3.5W	73-D-383	10	10	BLD	40	30	BLD		
4N + 5.0W	73-D-384	20	10	10	60	50	BLD		
4N + 0.5E	73-D-385	15	35	10	60	65	BLD		
4N + 7.0E	73-D-386	20	30	10	50	85	1		
4N + 3.0W	73-D-387	20	25	10	60	60	BLD		
4N + 2.5W	73-D-388	30	35	25	150	85	BLD		
4N + 5.5E	73-D-389	40	20	30	140	65	1		
4N + 1.5E	73-D-390	10	15	5	50	85	BLD		
8N + 4.5W	73-D-391	30	25	30	55	155	1		
8N + 1.0W	73-D-392	40	20	20	65	95	BLD		
8N + 2.0W	73-D-393	25	25	10	45	60	BLD		
8N + 1.5W	73-D-394	55	40	25	105	110	1		
8N + 1.0E	73-D-395	35	30	25	130	80	1		
8N + 5W	73-D-396	40	20	20	80	75	1		
8N + 2.0E	73-D-397	40	30	15	75	90	1		
8N + 0.5E	73-D-398	30	30	20	60	90	1		
8N + 3.0W	73-D-399	50	25	20	70	95	1		
8N + 0.5W	73-D-400	75	60	45	100	195	1		
8N + 3.5W	73-D-401	40	15	20	70	40	1		
8N + 4.0W	73-D-402	45	15	15	65	55	1		
8N + 2.5E	73-D-403	30	30	15	60	70	BLD		
8N + 2.5W	73-D-404	55	20	25	65	80	BLD		
8N + 1.5W	73-D-405	35	20	20	70	60	BLD		
00 + 8.1N	73-D-406	30	30	20	75	85	BLD		

METHODS:

This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

Chief Chemist

930255

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007426 PROJECT No.: EL.7/68 – MACINTYRE

LAB. SHEET No.: 1309/1 SAMPLE TYPE: SOIL PROF. DATE: 12th April, 1973

-80 FRACTION

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
12N + 7.5E	73-D-408	35	20	35	100	110	2		
12N + 2.0E	73-D-409	30	20	10	55	65	2		
12N + 1W	73-D-410	45	10	25	145	55	2		
12N + 2.5E	73-D-411	50	30	35	90	80	2		
12N + 1.5W	73-D-412	30	15	10	125	50	2		
12N + 1.5E	73-D-413	40	55	40	85	290	2		
12N + 7.0E	73-D-414	25	30	15	55	160	2		
12N + 3.5W	73-D-415	20	10	10	95	55	1		
12N + 4.5W	73-D-416	30	10	10	145	50	1		
12N + 3.0E	73-D-417	50	30	25	75	90	BLD		
12N + 1.0E	73-D-418	70	35	60	95	240	1		
12N + 2.0W	73-D-419	30	10	20	75	50	BLD		
12N + 6.5E	73-D-420	20	20	10	65	120	BLD		
12N + 3.0W	73-D-421	30	15	10	85	50	1		
12N + 5.0W	73-D-422	25	10	10	85	50	BLD		
12N + 4.0E	73-D-423	50	40	40	115	140	2		
12N + 9.0E	73-D-424	30	40	10	55	120	2		
12N + 2.5W	73-D-425	30	10	10	105	55	2		
12N + 8.5E	73-D-426	20	20	10	55	70	2		
12N + 10.0E	73-D-427	10	10	5	45	50	1		
12N + 4.5E	73-D-428	40	30	20	70	110	2		
12N + 3.5E	73-D-429	50	35	30	70	90	1		
12N + 0.5W	73-D-430	70	10	20	340	70	BLD		
12N + 9.5E	73-D-431	15	20	10	65	40	BLD		
12N + 0.5E	73-D-432	40	15	15	175	70	BLD		
12N + 4.0W	73-D-433	25	15	10	65	40	1		
12N + 5.5E	73-D-434	30	30	15	75	130	1		
12N + 6.0E	73-D-435	30	30	20	70	80	1		
12N + 5.0E	73-D-436	30	30	20	55	75	1		
00 +12.24N	73-D-437	25	10	10	85	75	1		

METHODS:

Cu, Ni, Co, Pb, An, Ag by CRC NO. 1

This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

Chief Chemist

930256

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007426/27 PROJECT No.: EL.7/68 - MACINTYRE

LAB. SHEET No.: 1309/2 SAMPLE TYPE: SOIL PROF. DATE: 12th April, 1973

-80 FRACTION

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
12N + 6.0E	73-D-438	25	25	10	65	100	2		
8N + 10.0E	73-D-439	70	120	25	75	180	2		
8N + 3.5E	73-D-440	10	20	10	65	40	BLD		
8N + 7.5E	73-D-441	10	20	BLD	35	70	BLD		
8N + 4.5E	73-D-442	10	30	10	35	50	BLD		
8N + 6.0E	73-D-443	10	BLD	BLD	55	25	BLD		
8N + 5.0E	73-D-444	20	30	10	45	40	BLD		
8N + 6.5E	73-D-445	2	5	BLD	35	20	BLD		
8N + 7.0E	73-D-446	10	5	BLD	65	20	BLD		
8N + 8.0E	73-D-447	10	30	10	55	60	1		
8N + 9.0E	73-D-448	30	50	15	45	90	1		
8N + 5.5E	73-D-449	10	20	10	35	30	BLD		
8N + 8.5E	73-D-450	20	30	10	95	110	1		
8N + 4.0E	73-D-451	30	30	10	75	60	BLD		
8N + 9.5E	73-D-452	20	35	10	80	55	BLD		
8N + 3.0E	73-D-453	25	20	15	85	70	1		
00 + 15.57N	73-D-454	20	10	10	65	30	BLD		
00 + 15.5N	73-D-455	30	15	10	95	60	BLD		
00 + 15.0N	73-D-456	30	10	10	195	35	BLD		
16N + 6E	73-D-457	10	10	5	35	30	BLD		
16N + 11.5E	73-D-458	10	30	10	40	60	BLD		
16N + 1.0W	73-D-459	40	10	10	135	50	BLD		
16N + 3.5W	73-D-460	30	20	10	65	45	1		
16N + 10.0E	73-D-461	20	30	10	85	50	BLD		
16N + 8.0E	73-D-462	15	30	10	65	50	BLD		
16N + 11.0E	73-D-463	20	50	10	75	80	BLD		
16N + 12.0E	73-D-464	10	30	10	55	50	1		
16N + 5.0W	73-D-465	20	10	10	65	20	BLD		
16N + 2.0W	73-D-466	50	20	30	105	55	2		
16N + 6.5E	73-D-467	20	20	10	70	55	BLD		

METHODS:

This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

Chief Chemist

930257

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007427 PROJECT No.: EL.7/68 - MACINTYRE

LAB. SHEET No.: 1309/3 SAMPLE TYPE: SOIL PROF. -80 FRACTION DATE: 12th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
16N + 3.0W	73-D-468	30	10	10	55	60	BLD		
16N + 9.0E	73-D-469	20	20	10	80	80	BLD		
16N + 13.5E	73-D-470	10	10	10	65	40	BLD		
16N + 2.5W	73-D-471	30	10	20	90	40	2		
16N + 4.5W	73-D-472	20	10	BLD	40	30	BLD		
16N + 13.0E	73-D-473	10	20	10	35	40	BLD		
16N + 1.5W	73-D-474	15	10	10	45	30	BLD		
16N + 4.0W	73-D-475	20	20	10	55	80	1		
16N + 6.0E	73-D-476	10	20	10	45	40	1		
16N + 9.5E	73-D-477	25	20	15	85	60	1		
16N + 0.5W	73-D-478	30	10	10	75	35	1		
16N + 14E	73-D-479	8	15	10	20	35	BLD		
16N + 14.5E	73-D-480	10	30	10	45	40	BLD		
16N + 1.5E	73-D-481	20	40	15	45	70	BLD		
16N + 10.5E	73-D-482	20	15	10	75	50	BLD		
16N + 8.5E	73-D-483	20	25	10	75	50	BLD		
16N + 2.5E	73-D-484	9	10	5	45	20	BLD		
16N + 5.0E	73-D-485	40	30	30	145	200	2		
16N + 2.0E	73-D-486	40	20	10	75	60	2		
16N + 3.5E	73-D-487	70	60	40	210	440	2		
16N + 4.0E	73-D-488	30	25	10	45	50	1		
16N + 0.5E	73-D-489	20	20	10	75	50	1		
16N + 4.5E	73-D-490	40	35	15	115	220	1		
16N + 12.5E	73-D-491	30	10	15	55	30	BLD		
16N + 3.0E	73-D-492	20	10	10	55	45	BLD		
16N + 15.0E	73-D-493	10	55	10	45	65	BLD		
16N + 7.5E	73-D-494	30	20	15	60	70	1		
24N + 5.0W	73-D-495	10	15	10	75	35	BLD		
24N + 4.5W	73-D-496	50	25	50	135	55	2		
24N + 0.5W	73-D-497	60	30	30	135	60	2		

METHODS:

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Chief Chemist

930258

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007427/28 PROJECT No.: EL.7/68 - MACINTYRE

LAB. SHEET No.: 1309/4 SAMPLE TYPE: SOIL PROF. DATE: 12th April, 1973

-80 FRACTION

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
24N + 2.0W	73-D-498	30	20	20	95	65	1		
24N + 1.5W	73-D-499	50	25	50	125	150	2		
24N + 4.0W	73-D-500	20	20	10	105	50	1		
24N + 3.5W	73-D-501	40	30	30	105	70	1		
00 + 9.5N	73-D-502	30	20	20	60	50	1		
00 + 6.5N	73-D-503	60	40	50	100	100	1		
00 + 22.0N	73-D-504	10	10	10	45	25	BLD		
00 + 21.0N	73-D-505	30	20	15	95	45	1		
00 + 22.69N	73-D-506	30	20	10	90	30	BLD		
24N + 1.0W	73-D-507	20	20	15	105	45	1		
24N + 2.5W	73-D-508	25	20	20	75	50	1		
16N + 5.5E	73-D-509	30	20	10	105	75	BLD		
00 + 16.5N	73-D-510	50	20	30	115	55	2		
00 + 13.5N	73-D-511	20	10	20	75	45	1		
00 + 10.0N	73-D-512	35	25	20	85	65	1		
00 + 11.0N	73-D-513	40	35	25	85	80	BLD		
00 + 7.5N	73-D-514	40	20	35	95	65	1		
00 + 20.0N	73-D-515	20	10	10	65	40	BLD		
00 + 22.5N	73-D-516	30	10	5	65	20	BLD		
00 + 7.0N	73-D-517	55	35	30	65	110	2		
00 + 6.0N	73-D-518	40	20	10	85	60	2		
00 + 8.5N	73-D-519	30	20	20	65	70	2		
24N + 3.0W	73-D-520	30	30	10	145	60	1		
00 + 21.5N	73-D-521	35	10	10	75	30	1		
00 + 4.5N	73-D-522	20	25	10	75	80	2		
00 + 5.0N	73-D-523	20	20	10	55	50	1		
00 + 12.0N	73-D-524	30	10	10	110	55	1		
00 + 14.0N	73-D-525	40	10	10	185	80	BLD		
00 + 4.17N	73-D-526	20	15	10	75	50	BLD		
00 + 20.5N	73-D-527	10	BLD	BLD	45	20	BLD		

METHODS:

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Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007428 PROJECT No.: EL.7/68 - MACINTYRE

LAB. SHEET No.: 1309/5 SAMPLE TYPE: SOIL PROF. DATE: 12th April, 1973

-80 FRACTION

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
00 + 16.0N	73-D-528	20	10	10	65	30	BLD		
00 + 17.0N	73-D-529	40	10	30	85	50	1		
00 + 5.5N	73-D-530	40	30	10	65	70	2		
00 + 13.0N	73-D-531	30	10	20	145	60	1		
00 + 9.0N	73-D-532	50	30	25	75	85	2		
00 + 18.0N	73-D-533	30	10	10	85	40	1		
00 + 10.5N	73-D-534	40	20	10	60	50	1		
00 + 16.5N	73-D-535	30	10	10	55	40	1		
00 + 7.5N	73-D-536	20	10	10	50	40	1		
00 + 8.0N	73-D-537	30	20	20	65	90	1		

METHODS:

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Chief Chemist

Appendix VII 930260 4

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007435/36 PROJECT No.: EL.7/68 - MacINTYRE

LAB. SHEET No.: 1316/1 SAMPLE TYPE: SOIL DATE: 27th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
24N + 5.5E	73-D-672	60	40	55	175	185	2		
24N + 4.0E	73-D-673	40	20	10	95	90	BLD		
24N + 3.5E	73-D-674	25	20	10	100	65	2		
24N + 6.0E	73-D-675	15	15	10	70	50	3		
24N + 2.0E	73-D-676	140	50	155	270	180	4		
24N + 1.0E	73-D-677	25	20	10	140	50	3		
24N + 4.5E	73-D-678	35	5	BLD	110	105	BLD		
24N + 0.5E	73-D-679	15	10	BLD	70	20	1		
24N + 2.5E	73-D-680	70	20	85	180	110	1		
24N + 5.0E	73-D-681	40	10	15	125	60	1		
24N + 1.5E	73-D-682	50	20	65	270	70	1		
24N + 3.0E	73-D-683	20	20	15	100	70	2		
00 +19.0N	73-D-684	60	20	20	130	80	1		
00 +19.5N	73-D-685	35	5	10	60	50	BLD		
00 +12.5N	73-D-686	80	10	5	190	95	BLD		
00 +11.5N	73-D-687	95	10	55	360	100	1		
20N + 7.0E	73-D-688	50	15	30	150	80	1		
20N +14.5E	73-D-689	10	10	5	45	30	1		
20N + 4.5E	73-D-690	30	10	10	130	50	1		
20N + 8.5E	73-D-691	40	20	40	130	70	2		
00 +19.16E	73-D-692	40	10	20	120	55	1		
20N + 7.5E	73-D-693	30	15	20	90	45	1		
20N + 2.5E	73-D-694	20	20	10	80	40	BLD		
20N +10.5E	73-D-695	20	30	10	60	70	1		
20N + 8.0E	73-D-696	110	55	55	265	190	1		
20N + 6.0E	73-D-697	40	20	20	125	75	1		
20N + 3.0E	73-D-698	70	30	125	255	85	1		
20N +16.5E	73-D-699	5	60	15	30	60	1		
20N +15.0E	73-D-700	10	15	5	75	70	BLD		
20N + 9.0E	73-D-701	40	20	20	110	60	1		

METHODS: Cu, Ni, Co, Pb, Zn, Ag by GRC NO. 1

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for Chief Chemist

930261

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007435/36 PROJECT No. EL.7/68 - MacINTYRE

LAB. SHEET No.: 1316/2 SAMPLE TYPE: SOIL DATE: 27th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
20N + 2.0W	73-D-702	10	BLD	BLD	35	20	BLD		
20N + 18.0E	73-D-703	20	20	100	140	50	1		
20N + 15.5E	73-D-704	15	35	15	45	60	2		
20N + 16.0E	73-D-705	BLD	BLD	BLD	30	10	BLD		
20N + 5.5E	73-D-706	25	10	10	100	55	1		
20N + 3.0W	73-D-707	40	20	15	125	70	1		
20N + 11.0E	73-D-708	15	30	15	55	90	BLD		
20N + 3.5W	73-D-709	20	20	25	80	75	1		
20N + 9.5E	73-D-710	25	10	10	70	40	1		
20N + 4.0W	73-D-711	25	15	20	105	55	BLD		
20N + 1.5W	73-D-712	30	10	10	55	50	BLD		
20N + 1.0W	73-D-713	25	10	10	70	40	BLD		
20N + 13.0E	73-D-714	30	25	15	70	60	BLD		
20N + 12.5E	73-D-715	25	20	10	65	70	BLD		
20N + 6.5E	73-D-716	45	15	25	145	70	1		
20N + 2.5E	73-D-717	20	10	10	100	35	BLD		
20N + 4.0E	73-D-718	30	15	10	110	50	BLD		
20N + 0.5W	73-D-719	65	15	10	120	80	1		
20N + 5.0E	73-D-720	20	10	10	75	35	BLD		
20N + 12.0E	73-D-721	20	20	10	60	65	BLD		
20N + 4.5W	73-D-722	40	25	25	130	65	1		
20N + 18.5E	73-D-723	30	30	10	40	40	BLD		
20N + 7.0E	73-D-724	BLD	25	5	40	30	BLD		
20N + 3.5E	73-D-725	30	20	20	130	60	1		
20N + 0.5E	73-D-726	70	20	20	180	80	1		
20N + 14.0E	73-D-727	20	20	10	70	60	1		
20N + 5.0W	73-D-728	25	20	20	125	50	1		
20N + 19.0E	73-D-729	5	15	BLD	30	35	BLD		
20N + 1.0E	73-D-730	35	10	15	120	70	1		
20N + 17.5E	73-D-731	15	35	65	125	100	BLD		

METHODS:

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for Chief Chemist R.W. Longhurst

930262

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007435/36 PROJECT No.: EL.7/68 - MACINTYRE

LAB. SHEET No.: 1316/3 SAMPLE TYPE: SOIL DATE: 27th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
20N + 1.5E	73-D-732	30	10	10	115	60	BLD		
20N + 19.5E	73-D-733	10	20	BLD	45	35	BLD		
20N + 10.0E	73-D-734	20	20	10	65	50	BLD		
20N + 2.0E	73-D-735	80	30	70	220	190	BLD		
20N + 13.5E	73-D-736	25	30	15	90	80	1		

METHODS:

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Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007304 PROJECT No.: EL.7/68 - McINTYRE RECONN. & GRID

LAB. SHEET No.: 1332/1 SAMPLE TYPE: ROCK DATE: 17th May, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
MC 1	73-E-742	5	30	5	40	75	1		
MC 2	73-E-743	20	40	15	35	125	1		
MC 3	73-E-744	5	55	30	15	120	1		
MC 4	73-E-745	5	40	20	25	110	1		
MC 5	73-E-746	40	100	25	20	155	1		
MC 6	73-E-747	50	90	20	45	135	1		
MC 7	73-E-748	30	80	10	55	90	1		
MC 8	73-E-749	65	140	45	80	190	1		
MC 9	73-E-750	35	120	30	35	150	1		
MC 10	73-E-751	50	115	20	105	200	1		
MC 11	73-E-752	40	80	20	115	110	1		
MC 12	73-E-753	45	20	15	45	220	BLD		
MC 14	73-E-754	35	70	20	35	130	1		
MC 15	73-E-755	40	80	20	25	100	1		
MC 16	73-E-756	20	20	25	15	125	BLD		
MC 17	73-E-757	40	80	30	35	125	1		
MC 18	73-E-758	50	60	15	75	100	1		
MC 19	73-E-759	70	70	30	40	120	1		
MC 20	73-E-760	10	10	10	45	45	1		
MC 23	73-E-761	30	25	15	15	100	BLD		
MC 24	73-E-762	40	30	15	10	80	1		
MC 25	73-E-763	50	40	10	45	70	1		
MC 26	73-E-764	50	50	30	75	145	1		
MC 27	73-E-765	40	50	25	70	100	1		
MC 28	73-E-766	20	40	20	35	90	1		
MC 29	73-E-767	45	65	20	50	130	1		
MC 30	73-E-768	50	50	20	45	90	1		
MC 31	73-E-769	40	40	25	50	120	BLD		
MC 32	73-E-770	10	20	20	30	90	BLD		
MC 34	73-E-771	BLD	15	10	15	80	BLD		

METHODS: Cu, Ni, Co, Pb, Zn, Ag by GRC NO. 1

BLD = Below limit of detection

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for Chief Chemist

930264

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007364/65 PROJECT No.: EL.7/68 - McINTYRE RECONN. & GRID

LAB. SHEET No.: 1332/2 SAMPLE TYPE: ROCK DATE: 17th May, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
MC 35	73-E-772	10	20	15	40	95	BLD		
MC 36	73-E-773	20	25	15	40	135	BLD		
MC 37	73-E-774	60	60	30	65	200	1		
MC 38	73-E-775	35	80	30	15	110	1		
MC 39	73-E-776	2	10	10	295	365	BLD		
MC 40	73-E-777	15	20	10	290	730	1		
MC 41	73-E-778	70	70	30	170	325	1		
MC 42	73-E-779	10	90	25	670	150	1		
MC 43	73-E-780	35	80	20	35	110	1		
MC 44	73-E-781	20	40	35	55	250	1		
MC 45	73-E-782	30	40	40	55	140	1		
MC 46	73-E-783	5	20	15	25	90	BLD		
MC 47	73-E-784	65	70	30	55	130	1		
MC 48	73-E-785	30	35	15	45	70	1		
MC 49	73-E-786	45	105	20	30	120	1		
MC 50	73-E-787	50	100	15	35	120	1		
MC 51	73-E-788	BLD	20	20	15	140	1		
MC 52	73-E-789	10	15	10	15	35	BLD		
MC 53	73-E-790	60	90	25	125	155	1		
MC 54	73-E-791	2	30	40	25	310	1		
MC 55	73-E-792	60	105	30	35	180	1		
MC 56	73-E-793	5	20	20	20	130	1		
MC 57	73-E-794	BLD	40	30	20	270	2		
MC 58	73-E-795	40	90	30	25	100	1		
MC 59	73-E-796	20	50	20	25	100	1		
MC 60	73-E-797	30	110	40	35	180	1		
MC 61	73-E-798	50	120	40	25	175	1		
MC 62	73-E-799	110	140	40	25	150	1		
MC 63	73-E-800	5	20	20	15	110	BLD		
MC A	73-E-801	45	170	55	75	260	1		

METHODS:

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for Chief Chemist

930265

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007365 PROJECT No.: EL.7/68 - McINTYRE RECONN. & GRID

LAB. SHEET No.: 1332/3 SAMPLE TYPE: ROCK DATE: 17th May, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
MC B	73-E-802	30	105	30	20	170	1		
MC D	73-E-803	25	130	30	25	125	1		
MC E	73-E-804	55	130	30	30	110	1		
MC F	73-E-805	35	150	30	50	210	1		
MC G	73-E-806	35	80	30	30	220	1		
MC H	73-E-807	70	150	35	45	280	1		
MC I	73-E-808	20	70	85	65	380	1		
MC J	73-E-809	60	120	30	50	220	1		
MC K	73-E-810	60	145	50	45	190	1		
MC L	73-E-811	20	90	15	45	110	BLD		
MC M	73-E-812	50	120	30	50	180	1		
MC N	73-E-813	70	580	155	135	670	1		
MC O	73-E-814	80	140	30	65	175	1		
MC P	73-E-815	35	120	20	40	180	1		
MC Q	73-E-816	60	115	70	90	200	2		
MC R	73-E-817	65	150	50	80	265	1		
MC S	73-E-818	10	50	30	50	145	1		
MC T	73-E-819	50	100	30	20	145	1		
MC U	73-E-820	30	30	25	50	140	1		
MC V	73-E-821	40	105	20	55	120	1		
MC W	73-E-822	25	90	20	75	100	1		
MC X	73-E-823	BLD	10	5	15	10	BLD		
MC Y	73-E-824	20	110	30	45	140	1		
MC A1	73-E-825	60	115	30	25	160	1		
MC B1	73-E-826	50	90	30	35	160	1		
MC C1	73-E-827	35	80	40	15	340	2		
MC D1	73-E-828	45	80	25	55	150	1		
MC E1	73-E-829	40	80	25	40	170	1		
MC F1	73-E-830	2	30	15	15	160	BLD		
MC G1	73-E-831	15	100	20	35	120	1		

METHODS:

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for Chief Chemist

930266

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007365/66 PROJECT No.: CL.7/68 - McINTYRE RECONN. & GRID

LAB. SHEET No.: 1332/4 SAMPLE TYPE: ROCK DATE: 17th May, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
MC H1	73-E-832	15	100	20	50	115	1		
MC I1	73-E-833	15	85	10	40	85	1		
MC J1	73-E-834	60	135	20	70	165	1		
MC L1	73-E-835	70	160	30	35	170	1		
MC M1	73-E-836	60	150	40	55	145	1		
MC N1	73-E-837	60	120	40	55	215	1		
MC O1	73-E-838	55	250	85	65	340	1		
MC P1	73-E-839	40	90	45	70	150	1		
MC Q1	73-E-840	50	70	50	80	190	1		
MC R1	73-E-841	40	60	50	40	110	1		
MC S1	73-E-842	20	100	30	20	90	1		
MC T1	73-E-843	30	175	40	35	230	1		
MC U1	73-E-844	15	90	35	55	150	1		
MC V1	73-E-845	50	125	40	30	180	1		
MC W1	73-E-846	55	150	40	35	200	1		
MC X1	73-E-847	30	70	25	65	130	1		
MC Y1	73-E-848	50	100	50	30	140	1		
MC A2	73-E-849	70	65	35	35	110	1		
MC B2	73-E-850	2	15	15	15	80	1		
MC C2	73-E-851	65	15	10	110	90	1		
MC D2	73-E-852	45	60	25	30	150	1		
MC E2	73-E-853	80	40	30	155	90	2		
MC F2	73-E-854	2	20	15	20	90	BLD		
MC G2	73-E-855	110	50	30	35	160	1		
MC H2	73-E-856	45	60	30	240	110	1		
MC I2	73-E-857	40	60	25	25	160	1		
MC J2	73-E-858	10	20	35	60	140	1		
MC K2	73-E-859	85	145	50	45	280	1		
MC M2	73-E-860	70	130	40	100	230	1		
MC N2	73-E-861	30	140	50	25	150	1		

METHODS:

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for Chief Chemist

930267

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007366/67 PROJECT No.: EL.7/68 - McINTYRE RECONN. & GRID

LAB. SHEET No.: 1332/5 SAMPLE TYPE: ROCK DATE: 17th May, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
MC O2	73-E-862	60	100	25	45	130	1		
MC P2	73-E-863	15	25	30	25	60	1		
MC Q2	73-E-864	55	130	75	65	175	1		
MC R2	73-E-865	45	110	110	80	200	1		
MC S2	73-E-866	40	95	30	55	115	1		
MC T2	73-E-867	50	140	50	35	180	1		
MC U2	73-E-868	40	140	40	20	210	1		
MC V2	73-E-869	80	260	70	45	360	1		
MC X2	73-E-870	SAMPLE MISSING							
MX Y2	73-E-871	20	60	70	35	90	1		
MC Z2	73-E-872	25	200	90	40	240	1		
MC A3	73-E-873	35	710	275	45	1020	1		
MC B3	73-E-874	30	145	50	40	180	1		
MC C3	73-E-875	80	130	45	20	185	1		
MC D3	73-E-876	25	110	35	30	130	1		
MC E3	73-E-877	50	100	30	30	160	1		
MC F3	73-E-878	10	60	25	45	210	1		
MC G3	73-E-879	10	100	30	75	240	1		
MC H3	73-E-880	30	45	40	25	200	1		
MC I3	73-E-881	60	90	30	85	120	1		
MC J3	73-E-882	40	55	20	70	110	1		
MC K3	73-E-883	40	70	30	25	95	1		
MC L3	73-E-884	40	80	40	60	160	1		
MC M3	73-E-885	50	110	45	45	150	1		
MC N3	73-E-886	75	70	20	35	170	1		
MC O3	73-E-887	40	90	30	15	140	1		
MC P3	73-E-888	35	45	15	235	135	1		
MC Q3	73-E-889	60	125	35	55	180	2		
MC *	73-E-890	60	65	20	45	60	1		
MC * 1	73-E-891	5	90	60	175	240	2		

METHODS:

This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

Chief Chemist

930268

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007367 PROJECT No.: EL.7/68 - McINTYRE RECONN. & GRID

LAB. SHEET No.: 1332/6 SAMPLE TYPE: ROCK DATE: 17th May, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
MC *2	73-E-892	50	115	50	95	180	1		
MC *3	73-E-893	40	75	20	45	125	1		
MC *4	73-E-894	15	60	20	55	75	1		
MC *5	73-E-895	55	110	30	50	160	1		
MC *6	73-E-896	75	130	50	65	210	1		
MC *7	73-E-897	60	160	40	75	250	1		
MC *8	73-E-898	55	70	10	45	50	1		
MC *9	73-E-899	100	65	40	30	85	1		
MC *10	73-E-900	80	90	55	35	250	1		
MC *11	73-E-901	20	90	30	40	120	1		
MC *12	73-E-902	60	85	40	70	140	1		
MC *13	73-E-903	180	240	65	30	400	2		
MC *14	73-E-904	20	40	40	30	475	1		

METHODS:

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c/o Chief Chemist

930269

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 000978 PROJECT No.: EL7/68 MACINTYRE

LAB. SHEET No.: 1359/1 SAMPLE TYPE: SOIL PROFILE DATE: 14/6/73

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
30N 0.5E	73-F-193	15	10	BLD	150	50	BLD		
30N 1.0E	73-F-194	10	20	5	50	50	BLD		
30N 1.5E	73-F-195	20	20	40	90	60	BLD		
30N 2.0E	73-F-196	10	20	5	40	40	BLD		
30N 2.5E	73-F-197	10	10	5	140	60	BLD		
30N 3.0E	73-F-198	20	20	5	70	50	BLD		
30N 3.5E	73-F-199	10	20	5	80	80	BLD		
30N 4.0E	73-F-200	5	10	BLD	70	30	BLD		
30N 4.5E	73-F-201	2	BLD	BLD	60	20	BLD		
30N 5.0E	73-F-202	10	5	BLD	55	15	BLD		
30N 5.5E	73-F-203	BLD	10	5	50	30	BLD		
30N 6.0E	73-F-204	5	15	5	55	50	BLD		
30N 6.5E	73-F-205	2	BLD	BLD	45	15	BLD		
30N 7.0E	73-F-206	10	15	5	40	30	1		
26N 00	73-F-207	30	45	25	125	110	1		
26N 0.5E	73-F-208	20	20	30	185	55	1		
26N 1.0E	73-F-209	20	15	15	110	40	BLD		
26N 1.5E	73-F-210	30	10	5	90	60	BLD		
26N 2.0E	73-F-211	20	5	10	120	30	BLD		
26N 2.5E	73-F-212	55	15	110	245	55	1		
26N 3.0E	73-F-213	40	15	115	230	40	1		
26N 3.5E	73-F-214	15	10	10	90	35	1		
26N 4.0E	73-F-215	20	10	10	80	35	1		
26N 4.5E	73-F-216	10	BLD	BLD	105	20	BLD		
26N 5.0E	73-F-217	30	20	10	90	65	1		
26N 5.5E	73-F-218	20	20	10	60	50	1		
26N 6.0E	73-F-219	10	10	10	65	40	1		
26N 6.5E	73-F-220	30	20	10	115	70	1		
26N 7.0E	73-F-221	40	10	5	100	30	BLD		
26N 7.5E	73-F-222	30	10	15	115	50	BLD		

METHODS: Cu Ni Co Pb Zn Ag by GRC No. 1
BLD = Below limit of Detection

NATA
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Chief Chemist Ray W. Gardyne

930270

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 00978/79 PROJECT No.: EL 7/68 MACINTYRE

LAB. SHEET No.: 1359/2 SAMPLE TYPE: SOIL PROFILE DATE: 14/6/73

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
26N 8.0E	73-F-223	55	20	110	295	90	1		
26N 8.5E	73-F-224	20	15	25	165	65	BLD		
26N 9.0E	73-F-225	30	10	10	160	40	BLD		
26N 9.5E	73-F-226	45	20	55	185	70	1		
26N 10OE	73-F-227	30	20	50	195	65	1		
26N 10.5E	73-F-228	50	10	70	235	80	1		
26N 11.0E	73-F-229	35	15	10	115	75	1		
26N 11.5E	73-F-230	40	10	5	155	60	1		
26N 12.0E	73-F-231	30	15	15	100	60	2		
26N 12.5E	73-F-232	30	5	BLD	225	60	BLD		
26N 13.0E	73-F-233	20	10	50	255	50	BLD		
26N 13.5E	73-F-234	25	90	10	55	105	BLD		
26N 14.0E	73-F-235	10	10	5	60	30	BLD		
28N 14.0E	73-F-236	20	15	15	100	60	1		
28N 13.5E	73-F-237	20	10	5	75	40	1		
28N 13.0E	73-F-238	10	10	5	75	30	BLD		
28N 12.5E	73-F-239	20	10	BLD	150	40	BLD		
28N 12.0E	73-F-240	50	10	5	80	30	1		
28N 11.5E	73-F-241	5	10	.6	40	20	BLD		
28N 11.0E	73-F-242	30	10	5	105	50	BLD		
28N 10.5E	73-F-243	10	BLD	BLD	85	25	BLD		
28N 10.0E	73-F-244	10	BLD	BLD	45	20	BLD		
28N 9.5E	73-F-245	10	BLD	BLD	190	50	BLD		
28N 9.0E	73-F-246	15	5	BLD	100	35	BLD		
28N 8.5E	73-F-247	20	10	5	120	35	BLD		
28N 8.0E	73-F-248	35	15	10	130	55	1		

METHODS:

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Chief Chemist

Ray W. Ferguson

930271 -

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 000982 PROJECT No.: EL 7-68: MACINTYRE

LAB. SHEET No.: 1364/1 SAMPLE TYPE: SOIL PROFILE DATE: 23/6/73

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Co ppm	Ni ppm	Ag ppm		
16N/ 15.5E	73-F-469	15	40	265	10	65	1		
16.0E	73-F-470	10	40	155	10	35	1		
15.5E	73-F-471	10	25	105	10	30	BLD		
17.0E	73-F-472	20	40	115	10	55	1		
17.5E	73-F-473	10	45	40	5	15	BLD		
18.0E	73-F-474	5	35	50	10	20	1		
18.5E	73-F-475	5	35	45	5	20	1		
19.0E	73-F-476	10	30	40	10	25	BLD		
19.5E	73-F-477	10	60	40	10	20	1		
16N/ 0.5E	73-F-478	40	130	65	40	15	2		
1.0E	73-F-479	30	110	65	35	15	1		
1.5E	73-F-480	55	120	80	45	30	2		
2.0E	73-F-481	10	40	45	10	10	1		
2.5E	73-F-482	45	125	115	75	20	2		
3.0E	73-F-483	40	200	75	50	15	2		
3.5E	73-F-484	20	85	55	20	20	1		
4.0E	73-F-485	20	75	50	10	20	2		
4.5E	73-F-486	25	130	55	15	20	1		
5.0E	73-F-487	45	140	70	35	20	2		
5.5E	73-F-488	35	135	120	25	20	1		
6.0E	73-F-489	20	80	45	15	15	1		
6.5E	73-F-490	30	110	90	35	20	1		
7.0E		sample missing							
7.5E	73-F-491	25	80	50	20	20	1		
8.0E	73-F-492	30	75	85	25	25	1		
8.5E	73-F-493	30	160	100	45	25	1		
9.0E	73-F-494	15	50	40	10	20	1		
9.5E	73-F-495	30	90	60	10	20	BLD		
10.0E	73-F-496	10	75	160	30	20	1		

METHODS: Cu Pb Zn Ag Co Ni by GRC No. 1

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Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 000982 PROJECT No.: EL 7-68: MACINTYRE

LAB. SHEET No.: 1364/2 SAMPLE TYPE: SOIL PROFILE DATE: 23/6/73

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Co ppm	Ni ppm	Ag ppm		
18N/ 10.5E	73-F-497	15	95	75	10	15	BLD		
11.0E			sample missing						
11.5E	73-F-498	15	140	70	60	20	BLD		
12.0E	73-F-499	30	170	80	50	25	1		
12.5E	73-F-500	15	80	50	15	20	BLD		
13.0E	73-F-501	10	90	50	5	5	BLD		
13.5E	73-F-502	20	195	115	5	5	1		
14.0E	73-F-503	10	75	50	10	15	BLD		
14.5E	73-F-504	15	150	95	15	10	BLD		
15.0E	73-F-505	15	90	90	35	30	1		
15.5E	73-F-506	5	65	45	5	10	BLD		
16.0E	73-F-507	5	70	35	5	10	BLD		
16.5E	73-F-508	10	25	40	5	20	BLD		
17.0E	73-F-509	10	25	65	10	45	BLD		
17.5E	73-F-510	25	35	55	15	40	1		
18.0E	73-F-511	15	30	45	15	30	BLD		
22N/ 0.5E	73-F-512	20	70	45	10	20	1		
1.0E	73-F-513	10	60	55	5	10	1		
1.5E	73-F-514	20	105	70	5	10	1		
2.0E	73-F-515	35	220	70	35	10	1		
2.5E	73-F-516	50	90	95	25	30	2		
3.0E	73-F-517	35	210	90	10	15	1		
3.5E	73-F-518	35	155	65	60	20	1		
4.0E	73-F-519	55	130	70	60	25	1		
4.5E	73-F-520	50	210	95	125	15	1		
5.0E	73-F-521	20	115	55	20	20	1		
5.5E	73-F-522	20	80	70	10	15	1		
6.0E	73-F-523	25	150	65	25	15	1		
6.5E	73-F-524	25	130	55	30	10	1		

METHODS:

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Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 000982 PROJECT No.: EL 7=68: MACINTYRE

LAB. SHEET No.: 1364/3 SAMPLE TYPE: SOIL PROFILE DATE: 23/6/73

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Co ppm	Ni ppm	Ag ppm		
22N/ 7.0E	73-F-525	35	115	50	25	15	1		
7.5E	73-F-526	30	105	60	20	20	1		
8.0E	73-F-527	20	90	55	20	15	1		
8.5E	73-F-528	20	85	50	15	15	1		
9.0E	73-F-529	10	80	45	15	15	BLD		
9.5E	73-F-530	25	85	105	20	15	1		
10.0E	73-F-531	35	135	80	25	20	1		
10.5E	73-F-532	35	125	80	40	25	1		
11.0E	73-F-533	50	95	90	35	25	1		
11.5E	73-F-534	30	80	80	30	30	1		
12.0E	73-F-535	30	80	90	25	25	1		
12.5E	73-F-536	15	85	125	30	35	BLD		
13.0E	73-F-537	15	45	90	15	25	1		
13.5E	73-F-538	10	70	50	20	20	BLD		
14.0E	73-F-539	10	35	40	10	15	1		
14.5E	73-F-540	30	185	490	40	80	1		
15.0E	73-F-541	15	75	80	20	20	2		
15.5E	73-F-542	15	50	55	20	25	1		
16.0E	73-F-543	20	50	55	15	25	1		
16.5E	73-F-544	15	80	75	15	20	1		
17.0E	73-F-545	10	65	45	15	25	1		
17.5E	73-F-546	5	80	50	10	15	1		
18.0E	73-F-547	15	40	65	10	30	1		
18.5E	73-F-563	10	30	50	10	25	BLD		
28N/ 0.5E	73-F-548	50	335	85	95	20	1		
1.0E	73-F-549	50	175	70	90	25	1		
1.5E	73-F-550	20	110	40	35	15	2		
2.0E	73-F-551	20	75	65	30	25	1		
2.5E	73-F-552	30	100	65	60	25	1		
3.0E	73-F-553	20	110	60	35	20	2		

METHODS:

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Chief Chemist Ray W. Richmond

930274

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 000982 PROJECT No.: EL 7-68: MACINTYRE

LAB. SHEET No.: 1364/4 SAMPLE TYPE: SOIL PROFILE DATE: 23/6/73

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Co ppm	Ni ppm	Ag ppm		
28N/ 3.5E	73-F-554	10	55	65	10	15	1		
4.0E	73-F-555	20	60	60	20	25	1		
4.5E	73-F-556	10	45	55	5	15	1		
5.0E	73-F-557	30	55	115	20	20	1		
5.5E	73-F-558	5	55	50	5	10	BLD		
6.0E	73-F-559	15	80	40	15	5	BLD		
6.5E	73-F-560	15	70	50	15	10	1		
7.0E	73-F-561	20	95	55	15	10	1		
7.5E	73-F-562	10	65	45	15	10	1		

METHODS:

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Chief Chemist

930275

APPENDIX VIII

GEOPHOTO RESOURCES CONSULTANTS

HOWARD GRID

SOIL GEOCHEMISTRY

930276

GEOPHOTO RESOURCES CONSULTANTS
CONSULTING ANALYSTS

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4th Floor Red Comb House
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LABORATORY REPORT

FIELD SHEET No.: 003105 CLIENT: EL.7/68 - HOWARD GRID

LAB. SHEET No.: 1483/1 SAMPLE TYPE: SOIL DATE: 1st November, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Cd ppm	Cr ppm
H18S+0.5W	73-K-586	25	15	10	25	50	BLD	1	20
H18S+1.0W	73-K-587	15	10	5	20	25	BLD	1	15
H18S+1.5W	73-K-588	20	15	5	30	65	BLD	1	20
H18S+2.0W	73-K-589	10	10	5	15	45	BLD	BLD	10
H18S+2.5W	73-K-590	10	15	5	20	35	BLD	BLD	10
H18S+3.0W	73-K-591	BLD	5	BLD	10	30	BLD	BLD	5
H18S+5.0W	73-K-592	5	5	5	290	15	BLD	BLD	20
H18S+5.5W	73-K-593	5	5	BLD	45	25	BLD	BLD	10
H18S+6.0W	73-K-594	5	5	BLD	15	25	BLD	BLD	10
H18S+7.0W	73-K-595	5	5	5	10	15	BLD	BLD	10
H18S+00	73-K-596	10	5	BLD	20	15	BLD	BLD	10
H18S+0.5E	73-K-597	15	10	5	10	30	1	1	15
H18S+1.0E	73-K-598	15	5	BLD	10	15	1	1	10
H18S+1.5E	73-K-599	15	10	BLD	35	25	1	BLD	10
H18S+2.0E	73-K-600	10	15	BLD	10	20	BLD	BLD	5
H16S+00	73-K-601	30	20	5	20	20	1	BLD	5
H16S+0.5W	73-K-602	5	20	10	15	40	1	BLD	BLD
H16S+1.0W	73-K-603	10	10	5	50	195	1	2	5
H16S+1.5W	73-K-604	15	30	5	20	70	1	1	5
H16S+2.0W	73-K-605	5	5	BLD	15	15	BLD	BLD	5
H16S+2.5W	73-K-606	20	15	5	15	35	1	1	15
H16S+3.0W	73-K-607	15	10	BLD	15	15	BLD	1	10
H16S+3.5W	73-K-608	10	5	5	25	10	BLD	BLD	10
H16S+4.0W	73-K-609	10	5	5	40	25	BLD	BLD	15
H16S+4.5W	73-K-610	BLD	BLD	BLD	BLD	5	BLD	BLD	5
H16S+5.0W	73-K-611	BLD	5	BLD	10	10	BLD	BLD	5
H16S+5.5W	73-K-612	BLD	5	BLD	20	5	BLD	BLD	5
H16S+6.0W	73-K-613	BLD	5	BLD	5	5	BLD	BLD	5
H16S+6.5W	73-K-614	5	5	10	10	10	BLD	BLD	10
H16S+7.0W	73-K-615	BLD	5	5	5	10	BLD	BLD	15

METHODS: Cu Ni Co Pb Zn Ag Cd Cr by Method 1

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for Chief Chemist

930277

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Telex AA41860

LABORATORY REPORT

FIELD SHEET No.: 003105/6 CLIENT: EL.7/68 - HOWARD GRID

LAB. SHEET No.: 1483/2 SAMPLE TYPE: SOIL DATE: 1st November, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Cd ppm	Cr ppm
H16S+0.5E	73-K-616	15	10	5	20	20	BLD	1	15
H16S+1.0E	73-K-617	5	5	5	5	20	BLD	BLD	5
H16S+1.5E	73-K-618	BLD	5	BLD	20	15	BLD	BLD	10
H16S+2.0E	73-K-619	BLD	BLD	BLD	30	15	BLD	BLD	10
H14S+1.0W	73-K-620	20	20	5	15	40	1	1	15
H14S+1.5W	73-K-621	10	20	10	25	45	BLD	1	20
H14S+2.0W	73-K-622	25	30	10	30	65	BLD	1	25
H14S+2.5W	73-K-623	15	10	5	20	15	1	1	10
H14S+3.0W	73-K-624	15	15	5	25	25	BLD	BLD	15
H14S+3.5W	73-K-625	40	15	10	35	30	BLD	1	10
H14S+4.0W	73-K-626	85	10	5	40	15	BLD	BLD	10
H14S+4.5W	73-K-627	5	5	BLD	5	5	BLD	BLD	5
H14S+5.0W	73-K-628	BLD	BLD	5	5	10	BLD	BLD	5
H14S+5.5W	73-K-629	5	5	5	10	10	BLD	BLD	5
H14S+6.0W	73-K-630	BLD	5	5	5	5	BLD	BLD	5
H14S+6.5W	73-K-631	BLD	5	BLD	5	5	BLD	BLD	BLD
H14S+7.0W	73-K-632	BLD	5	BLD	20	5	BLD	BLD	BLD
H14S+1.0E	73-K-633	5	5	5	10	15	BLD	BLD	5
H14S+1.5E	73-K-634	5	BLD	5	15	15	BLD	BLD	BLD
H14S+2.0E	73-K-635	5	10	5	35	20	BLD	BLD	5
H12S+2W	73-K-636	30	20	10	20	45	BLD	1	10
H12S+2.5W	73-K-637	40	30	15	35	60	1	1	15
H12S+3.0W	73-K-638	20	20	10	10	40	BLD	1	5
H12S+3.5W	73-K-639	50	25	10	15	30	BLD	1	10
H12S+4.0W	73-K-640	20	20	5	80	25	1	1	10
H12S+4.5W	73-K-641	10	10	5	30	15	BLD	BLD	15
H12S+5.5W	73-K-642	5	5	5	10	10	BLD	BLD	BLD
H12S+6.0W	73-K-643	BLD	5	5	10	5	BLD	BLD	10
H12S+6.5W	73-K-644	5	5	5	15	10	BLD	BLD	BLD
H12S+7.0W	73-K-645	10	BLD	5	15	10	BLD	BLD	BLD

METHODS:

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for Chief Chemist

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LABORATORY REPORT

FIELD SHEET No.: 003106 CLIENT: EL.7/68 - HOWARD GRID

LAB. SHEET No.: 1483/3 SAMPLE TYPE: SOIL DATE: 1st November, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Cd ppm	Cr ppm
H12S+1.0E	73-K-646	5	5	BLD	10	25	BLD	BLD	BLD
H12S+1.5E	73-K-647	5	5	5	10	5	BLD	BLD	5
H12S+2.0E	73-K-648	5	5	5	10	10	BLD	BLD	10
H105-1.5W	73-K-649	BLD	5	5	5	10	BLD	BLD	15
H105-2.0W	73-K-650	5	5	BLD	10	20	BLD	BLD	15
H105-2.5W	73-K-651	20	10	5	15	25	BLD	BLD	15
H105-3.0W	73-K-652	35	25	10	10	55	BLD	1	25
H105-3.5W	73-K-653	75	10	10	20	45	BLD	2	35
H105-4.0W	73-K-654	15	20	5	15	35	BLD	BLD	20
H105-4.5W	73-K-655	40	15	5	35	25	1	1	25
H105-5.0W	73-K-656	10	5	BLD	5	10	BLD	BLD	10
H105-7.0W	73-K-657	BLD	5	5	5	BLD	BLD	BLD	10
H105-0.5E	73-K-658	5	5	BLD	BLD	15	BLD	BLD	20
H105-1.0E	73-K-659	BLD	5	BLD	10	10	BLD	BLD	10

METHODS:

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for Chief Chemist

Appendix VIII

930279

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LABORATORY REPORT

FIELD SHEET No.: 003107 CLIENT: EL.7/68 - HOWARD GRID

LAB. SHEET No.: 1484/1 SAMPLE TYPE: ROCK DATE: 2nd November, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Cd ppm	Cr ppm
H1	73-K-660	10	40	20	45	70	1	1	10
H2	73-K-661	15	55	25	55	115	1	1	10
H3	73-K-662	20	45	15	30	80	1	1	5
H4	73-K-663	10	35	15	35	65	1	1	5
H5	73-K-664	15	60	15	40	65	1	1	5
H7	73-K-665	10	35	5	55	75	1	1	5
H8	73-K-666	10	25	10	30	60	BLD	BLD	<5
H9	73-K-667	5	10	5	10	40	1	BLD	5
H10	73-K-668	235	25	10	245	495	2	2	10
H11	73-K-669	60	65	15	55	145	BLD	1	20
H12	73-K-670	5	15	5	20	20	1	BLD	20
H13	73-K-671	40	35	15	40	70	1	1	10
H14	73-K-672	35	40	20	30	80	BLD	1	10
H15	73-K-673	20	45	15	25	100	1	1	20
H16	73-K-674	95	45	20	40	80	1	1	5
H17	73-K-675	60	50	15	15	85	BLD	1	10
H18	73-K-676	5	20	5	20	35	BLD	BLD	10
H19	73-K-677	15	50	10	30	70	BLD	1	5
H20	73-K-678	15	30	5	305	90	BLD	BLD	35
H21	73-K-679	90	40	10	65	70	BLD	1	5
H22	73-K-680	35	75	25	20	110	BLD	BLD	5
H23	73-K-681	65	35	15	135	75	1	1	5
H24	73-K-682	45	95	15	35	115	BLD	1	10
H25	73-K-683	30	70	15	30	75	1	1	5
H26	73-K-684	50	95	20	25	110	BLD	1	10
H27	73-K-685	100	75	15	20	90	BLD	1	10
H28	73-K-686	25	95	20	30	120	BLD	1	10
H29	73-K-687	25	80	25	25	105	1	1	10
H30	73-K-688	45	70	20	20	95	1	1	10
H31	73-K-689	130	90	25	15	105	1	BLD	40

METHODS: Cu Ni Co Pb Zn Ag Cd Cr by Method 1

NATA

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for Chief Chemist

930280

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LABORATORY REPORT

FIELD SHEET No.: 003107 CLIENT: EL.7/68 - HOWARD GRID

LAB. SHEET No.: 1484/2 SAMPLE TYPE: ROCK DATE: 2nd November, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Cd ppm	Cr ppm
H32	73-K-690	55	55	35	20	95	BLD	1	20
H33	73-K-691	10	50	20	30	50	1	1	10
H36	73-K-692	10	25	10	35	60	BLD	BLD	5
H37	73-K-693	10	105	10	10	45	BLD	BLD	115
H38	73-K-694	30	70	15	50	70	1	1	5
H41	73-K-695	<5	20	5	30	5	BLD	BLD	20
H42	73-K-696	40	25	5	60	10	1	BLD	25
H43	73-K-697	15	40	5	30	45	BLD	1	10
H44	73-K-698	30	70	20	20	75	BLD	1	15
H45	73-K-699	75	55	25	80	95	BLD	1	25
H46	73-K-700	40	50	15	40	55	BLD	1	25
H47	73-K-701	25	60	10	20	65	BLD	1	15

METHODS:

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for Chief Chemist

930281

APPENDIX IX

GEOPHOTO RESOURCES CONSULTANTS
DUNDAS WEST
RECONNAISSANCE ROCK GEOCHEMISTRY

930282

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007582 PROJECT No.: EL.7/68 - DUNDAS - AREA 6 RECONNAISSANCE

LAB. SHEET No.: 831/2 SAMPLE TYPE: ROCK DATE: 4th November, 1971.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
TA 5	71-K-581	15	50	70	70	140	2		
AD 2	71-K-582	1600	25	50	14.7%	625	60		
GN 2	71-K-583	30	100	60	2000	2300	3		
AD 4	71-K-584	4400	70	50	3200	1900	275		
AD 9	71-K-585	1800	30	140	12.3%	730	70		
RB 7	71-K-586	70	335	100	4000	445	6		
LD 1	71-K-587	1500	1025	1900	1000	2300	45		
GN 1	71-K-588	185	220	315	610	3600	10		
TA 7	71-K-589	30	80	100	180	210	3		
AD 6	71-K-590	8500	30	40	1.85%	3700	600		
TA 4	71-K-591	80	30	60	360	155	5		
TA 6	71-K-592	35	35	65	150	105	3		
A 2	71-K-593	15	55	30	65	135	1		
AD 7	71-K-594	7900	15	10	7750	3800	575		
AD 1	71-K-595	495	520	55	305	545	10		
A 11	71-K-596	15	40	90	60	85	2		
A 15	71-K-597	30	70	90	70	145	3		
A 7	71-K-598	620	160	195	2300	2600	5		
A 5	71-K-599	220	70	100	690	675	4		
A 4	71-K-600	40	45	80	190	275	3		
TA 8	71-K-601	20	30	55	85	160	2		
RB 5	71-K-602	10	500	175	110	380	2		
A 12	71-K-603	15	70	140	65	170	2		
AD 8	71-K-604	2400	30	110	9.0%	1300	180		
A 3	71-K-605	105	20	60	4900	140	14		
A 13	71-K-606	50	70	100	950	310	3		
AD 5	71-K-607	7300	30	30	6500	1900	650		
MR 2	71-K-608	395	110	55	4900	7600	7		
LD 3	71-K-609	60	40	60	600	860	3		
LD 2	71-K-610	2000	1350	1300	6050	2700	28		
RB 6	71-K-611	40	210	110	225	210	3		
MR 1	71-K-612	35	150	85	310	1000	3		
RB 1	71-K-613	65	80	90	75	190	2		
TA 1	71-K-614	10	35	70	60	120	2		
A 14	71-K-615	30	80	120	60	145	2		
CEB + 56N	71-K-616	450	120	80	1050	735	10		
CEE + 60N	71-K-617	70	320	135	240	1120	3		
CEA + 56N	71-K-618	90	60	70	600	260	3		
CEC + 60N	71-K-619	145	40	60	420	530	5		
CEA + 60N	71-K-620	20	160	80	425	2500	5		
CEC + 56N	71-K-621	45	175	110	1300	1600	4		
CED + 60N	71-K-622	180	70	100	530	400	5		
RBTL/10W	71-K-623	20	2350	215	140	4300	3		
RI	71-K-624	10	100	25	30	130	BLD		

METHODS:

Cu, Ni, Co, Pb, Zn, Ag by G.R.C. No. 1

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Chief Chemist

Ray W. Fischer

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Appendix IX

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007582 PROJECT No.: EL.7/68 - DUNDAS REC/AREA 6 - SPECIAL RECHECK

LAB. SHEET No.: 834/1 SAMPLE TYPE: ROCK DATE: 10th November, 1971.

SAMPLE No.	LAB. No.	Sb %	As ppm	Ag ppm	Ave.				
AD	71-K-607	0.39	135	660	660				
				660					
AD 6	71-K-590	0.47	225	620	620				
				620					
AD 7	71-K-594	0.43	165	650	640				
				630					

METHODS:

Sb by G.R.C. No. 8
As by G.R.C. No. 3
Ag by G.R.C. No. 101

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Chief Chemist

Ray W. Yerbury

File

930284

APPENDIX X

GEOPHOTO RESOURCES CONSULTANTS
SILVER GRID
SOIL GEOCHEMISTRY

930285

GEOPHOTO RESOURCES CONSULTANTS
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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007848 PROJECT No.: EL.7/68 - DUNDAS SILVER GRID

LAB. SHEET No.: 933/2 SAMPLE TYPE: SOIL PROFILE DATE: 6th March, 1972.

SAMPLE No.	LAB. No.	Pb ppm	Zn ppm	Ag ppm
LINE 0.5N/00	72-B-2541	2300	165	10
0.5N/0.25E	72-B-2542	320	100	3
0.5N/0.5E	72-B-2543	620	125	3
0.5N/0.75E	72-B-2544	45	30	BLD
0.5N/1.0E	72-B-2545	35	20	BLD
0.5N/1.25E	72-B-2546	45	10	BLD
0.5N/1.5E	72-B-2547	40	15	BLD
0.5N/1.75E	72-B-2548	35	15	BLD
0.5N/2.0E	72-B-2549	15	10	BLD
0.5N/2.25E	72-B-2550	360	425	2
0.5N/2.50E	72-B-2551	3850	800	5
0.5N/2.75E	72-B-2552	50	160	1
0.5N/3.0E	72-B-2553	80	80	1

METHODS:

Pb, Zn, Ag by G.R.C. No. 1

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Ray W. Yeates

Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007848 PROJECT No.: EL.7/68 - DUNDAS SILVER GRID

LAB. SHEET No.: 933/3 SAMPLE TYPE: SOIL PROFILE DATE: 6th March, 1972.

SAMPLE No.	LAB. No.	Pb ppm	Zn ppm	Ag ppm
LINE 1.ON/00	72-B-2554	490	245	2
1.ON/0.25E	72-B-2555	85	50	1
1.ON/0.5E	72-B-2556	475	210	2
1.ON/0.75E	72-B-2557	280	285	1
1.ON/1.0E	72-B-2558	4400	800	20
1.ON/1.25E	72-B-2559	4100	635	15
1.ON/1.5E	72-B-2560	310	105	4
1.ON/1.75E	72-B-2561	570	125	2
1.ON/2.0E	72-B-2562	245	100	1
1.ON/2.25E	72-B-2563	1450	320	7
1.ON/2.50E	72-B-2564	755	165	3
1.ON/2.75E	72-B-2565	50	50	BLD
1.ON/3.0E	72-B-2566	50	50	BLD

METHODS:

Pb, Zn, Ag by G.R.C. No. 1

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007849 PROJECT No.: EL.7/68 - DUNDAS SILVER GRID

LAB. SHEET No.: 933/4 SAMPLE TYPE: SOIL PROFILE DATE: 6th March, 1972.

SAMPLE No.	LAB. No.	Pb ppm	Zn ppm	Ag ppm
LINE 1.5N/00	72-B-2567	470	100	2
1.5N/0.25E	72-B-2568	180	65	1
1.5N/0.5E	72-B-2569	450	270	2
1.5N/0.75E	72-B-2570	210	120	1
1.5N/1.0E	72-B-2571	265	140	BLD
1.5N/1.25E	72-B-2572	270	240	1
1.5N/1.5E	72-B-2573	1050	180	3
1.5N/1.75E	72-B-2574	3500	490	16
1.5N/2.0E	72-B-2575	230	165	1
1.5N/2.25E	72-B-2576	7900	250	8
1.5N/2.5E	72-B-2577	550	145	3
1.5N/2.75E	72-B-2578	8500	940	23

METHODS:

Pb, Zn, Ag by G.R.C. No. 1

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007849 PROJECT No.: EL.7/68 - DUNDAS SILVER GRID

LAB. SHEET No.: 933/5 SAMPLE TYPE: SOIL PROFILE DATE: 6th March, 1972.

SAMPLE No.	LAB. No.	Pb ppm	Zn ppm	Ag ppm
LINE 2.0N/00	72-B-2579	160	20	1
2.0N/0.25E	72-B-2580	120	25	BLD
2.0N/0.5E	72-B-2581	120	20	BLD
2.0N/0.75E	72-B-2582	110	20	BLD
2.0N/1.0E	72-B-2583	115	10	BLD
2.0N/1.25E	72-B-2584	100	20	BLD
2.0N/1.5E	72-B-2585	490	25	BLD
2.0N/1.75E	72-B-2586	215	15	2
2.0N/2.0E	72-B-2587	75	30	BLD
2.0N/2.25E	72-B-2588	180	20	BLD
2.0N/2.5E	72-B-2589	320	55	1
2.0N/2.75E	72-B-2590	380	90	1
2.0N/3.0E	72-B-2591	1150	35	1

METHODS:

Pb, Zn, Ag by G.R.C. No. 1

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Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007849 PROJECT No.: EL.7/68 - DUNDAS SILVER GRID

LAB. SHEET No.: 933/6 SAMPLE TYPE: SOIL PROFILE DATE: 6th March, 1972.

SAMPLE No.	LAB. No.	Pb ppm	Zn ppm	Ag ppm					
LINE 2.5N/00	72-B-2592	150	55	1					
2.5N/0.25E	72-B-2593	40	20	BLD					
2.5N/0.5E	72-B-2594	85	20	BLD					
2.5N/0.75E	72-B-2595	170	10	BLD					
2.5N/1.0E	72-B-2596	250	20	BLD					
2.5N/1.25E	72-B-2597	315	15	BLD					
2.5N/1.5E	72-B-2598	370	10	BLD					
2.5N/1.75E	72-B-2599	395	45	1					
2.5N/2.0E	72-B-2600	235	20	BLD					
2.5N/2.25E	72-B-2601	315	25	1					
2.5N/2.5E	72-B-2602	1.88%	310	67					
2.5N/3.0E	72-B-2603	380	60	1					
2.5N/3.25E	72-B-2604	2550	135	3					
2.5N/3.5E	72-B-2605	290	40	1					
2.5N/3.75E	72-B-2606	1.04%	300	80					

METHODS:

Pb, Zn, Ag by G.R.C. No. 1

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007908 PROJECT No. EL.7/68 - DUNDAS SILVER GRID

LAB. SHEET No. 933/7 SAMPLE TYPE: SOIL PROFILE DATE: 6th March, 1972.

SAMPLE No.	LAB. No.	Pb ppm	Zn ppm	Ag ppm
LINE 3.0N/00	72-B-2607	25	10	BLD
3.0N/0.25E	72-B-2608	20	15	BLD
3.0N/0.5E	72-B-2609	40	25	BLD
3.0N/0.75E	72-B-2610	55	10	BLD
3.0N/1.0E	72-B-2611	75	40	BLD
3.0N/1.25E	72-B-2612	75	20	BLD
3.0N/1.5E	72-B-2613	240	40	1
3.0N/1.75E	72-B-2614	365	70	1
3.0N/2.0E	72-B-2615	560	40	1
3.0N/2.25E	72-B-2616	1050	40	1
3.0N/2.5E	72-B-2617	1050	60	2
3.0N/2.75E	72-B-2618	3700	170	5
3.0N/3.0E	72-B-2619	2750	85	2
3.0N/3.25E	72-B-2620	1600	90	2
3.0N/3.5E	72-B-2621	255	65	1

METHODS:

Pb, Zn, Ag by G.R.C. No. 1

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007908 PROJECT No.: EL.7/68 - DUNDAS SILVER GRID

LAB. SHEET No.: 933/8 SAMPLE TYPE: SOIL PROFILE DATE: 6th March, 1972.

SAMPLE No.	LAB. No.	Pb ppm	Zn ppm	Ag ppm
LINE 3.5N/00	72-B-2622	45	40	1
3.5N/0.25E	72-B-2623	30	30	BLD
3.5N/0.5E	72-B-2624	65	45	1
3.5N/0.75E	72-B-2625	50	25	BLD
3.5N/1.0E	72-B-2626	60	30	1
3.6N/1.25E	72-B-2627	90	30	2
3.6N/1.50E	72-B-2628	160	25	BLD
3.6N/1.75E	72-B-2629	230	30	BLD
3.6N/2.0E	72-B-2630	370	60	1
3.6N/2.25E	72-B-2631	435	35	BLD
3.6N/2.5E	72-B-2632	1850	90	2
3.6N/2.75E	72-B-2633	1650	45	1
3.6N/3.0E	72-B-2634	2400	85	2
3.6N/3.25E	72-B-2635	2250	110	2
3.6N/3.50E	72-B-2636	720	275	2

METHODS:

Pb, Zn, Ag by G.R.C. No. 1

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007908 PROJECT No.: EL.7/68 - DUNDAS SILVER GRID

LAB. SHEET No.: 933/9 SAMPLE TYPE: SOIL PROFILE DATE: 6th March, 1972.

SAMPLE No.	LAB. No.	Pb ppm	Zn ppm	Ag ppm					
LINE 4.ON/00	72-B-2637	50	60	1					
4.ON/0.25E	72-B-2638	40	40	1					
4.ON/0.5E	72-B-2639	20	20	BLD					
4.ON/0.75E	72-B-2640	45	30	BLD					
4.ON/1.0E	72-B-2641	40	20	BLD					
4.ON/1.25E	72-B-2642	85	20	1					
4.ON/1.5E	72-B-2643	80	80	2					
4.ON/1.75E	72-B-2644	110	30	2					
4.ON/2.0E	72-B-2645	135	30	1					
4.ON/2.25E	72-B-2646	255	85	1					
4.ON/2.5E	72-B-2647	455	50	2					
4.ON/2.75E	72-B-2648	715	50	2					
4.ON/3.0E	72-B-2649	390	20	BLD					
4.ON/3.25E	72-B-2650	2000	25	1					
4.ON/3.50E	72-B-2651	2000	40	1					

METHODS:

Pb, Zn, Ag by G.R.C. No. 1

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007909 PROJECT No.: EL.7/68 - DUNDAS SILVER GRID

LAB. SHEET No.: 933/10 SAMPLE TYPE: SOIL PROF. DATE: 6th March, 1972.

SAMPLE No.	LAB. No.	Pb ppm	Zn ppm	Ag ppm
LINE 4.5N/00	72-B-2651A	65	60	1
4.5N/0.25E	72-B-2652	75	60	1
4.5N/0.5E	72-B-2653	50	30	1
4.5N/0.75E	72-B-2654	30	15	BLD
4.5N/1.0E	72-B-2655	140	40	1
4.5N/1.25E	72-B-2656	70	20	1
4.5N/1.5E	72-B-2657	50	30	1
4.5N/1.75E	72-B-2658	140	25	1
4.5N/2.0E	72-B-2659	125	20	BLD
4.5N/2.25E	72-B-2660	190	30	1
4.5N/2.5E	72-B-2661	160	40	1
4,5N/2.75E	72-B-2662	825	50	2
4.5N/3.0E	72-B-2663	730	60	2
4.5N/3.25E	72-B-2664	535	50	1
4.5N/3.50E	72-B-2665	445	50	1

METHODS:

Pb, Zn, Ag by G.R.C. No. 1

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Appendix X

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007909 PROJECT No.: EL.7/68 - DUNDAS SILVER GRID

LAB. SHEET No.: 933/11 SAMPLE TYPE: SOIL PROFILE DATE: 6th March, 1972.

SAMPLE No.	LAB. No.	Pb ppm	Zn ppm	Ag ppm					
LINE 5.0N/00	72-B-2666	50	55	1					
5.0N/0.25E	72-B-2667	45	50	1					
5.0N/0.5E	72-B-2668	45	45	1					
5.0N/0.75E	72-B-2669	80	30	1					
5.0N/1.0E	72-B-2670	40	20	BLD					
5.0N/1.25E	72-B-2671	50	45	2					
5.0N/1.50E	72-B-2672	50	25	1					
5.0N/1.75E	72-B-2673	50	30	1					
5.0N/2.0E	72-B-2674	125	30	1					
5.0N/2.25E	72-B-2675	250	30	1					
5.0N/2.5E	72-B-2676	160	70	1					
5.0N/2.75E	72-B-2677	275	120	2					
5.0N/3.0E	72-B-2678	950	290	2					

METHODS:

Pb, Zn, Ag by G.R.C. No. 1

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Chief Chemist Ray W. Yerbury

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APPENDIX XI

GEOPHOTO RESOURCES CONSULTANTS
MONTEZUMA GRID
SOIL GEOCHEMISTRY

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007901 PROJECT No.: EL.7/68 - DUNDAS MONTEZUMA GRID

LAB. SHEET No.: 932/1 SAMPLE TYPE: SOIL PROFILE DATE: 6th March, 1972.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
51.89N/10W	72-B-2039	5	20	20	400	250	1		
51.89N/9.5W	72-B-2040	BLD	BLD	BLD	15	5	BLD		
51.89N/9W	72-B-2041	BLD	BLD	BLD	35	10	BLD		
51.89N/8.5W	72-B-2042	BLD	BLD	BLD	20	BLD	BLD		
51.89N/8.0W	72-B-2043	BLD	BLD	BLD	25	BLD	BLD		
51.89N/7.5W	72-B-2044	BLD	BLD	BLD	25	BLD	BLD		
51.89N/7.0W	72-B-2045	15	5	BLD	55	5	1		
51.89N/6.5W	72-B-2046	BLD	BLD	BLD	50	5	BLD		
51.89N/6.0W	72-B-2047	BLD	BLD	BLD	20	BLD	BLD		
51.89N/5.5W	72-B-2048	BLD	BLD	BLD	45	BLD	BLD		
51.89N/5.0W	72-B-2049	BLD	BLD	BLD	45	BLD	BLD		
51.89N/4.5W	72-B-2050	BLD	BLD	BLD	40	BLD	BLD		
51.89N/4.0W	72-B-2051	BLD	BLD	BLD	60	5	BLD		
51.89N/3.5W	72-B-2052	BLD	BLD	BLD	15	BLD	BLD		
51.89N/3.0W	72-B-2053	BLD	BLD	BLD	35	BLD	BLD		
51.89N/2.5W	72-B-2054	BLD	BLD	BLD	50	2	1		
51.89N/2.0W	72-B-2055	BLD	BLD	BLD	250	2	1		
51.89N/1.75W	72-B-2056	BLD	BLD	BLD	155	5	1		
51.89N/1.50W	72-B-2057	BLD	BLD	BLD	245	5	1		
51.89N/1.25W	72-B-2058	BLD	BLD	BLD	230	10	1		
51.89N/1.0W	72-B-2059	2	BLD	BLD	255	2	2		
51.89N/0.75W	72-B-2060	25	30	90	285	100	1		
51.89N/0.50W	72-B-2061	30	25	80	535	150	2		
51.89N/0.25W	72-B-2062	BLD	BLD	BLD	100	10	1		
51.89N/00	72-B-2063	20	30	45	125	65	1		
51.89N/0.25E	72-B-2064	20	15	50	535	80	2		
51.89N/0.50E	72-B-2065	30	40	15	55	55	1		
51.89N/0.75E	72-B-2066	35	25	30	350	110	1		
51.89N/1.0E	72-B-2067	95	100	395	4400	480	3		
51.89N/1.25E	72-B-2068	2	5	BLD	165	10	2		

METHODS:

Cu, Ni, Co, Pb, Zn, Ag by G.R.C. No. 1

B.L.D. = Below Limit of Detection

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GEOCHEMICAL LABORATORY REPORT

93099

FIELD SHEET No.: 007901 PROJECT No.: EL. 7/68 - DUNDAS - MONTEZUMA GRID

LAB. SHEET No.: 932/2 SAMPLE TYPE: SOIL PROFILE DATE: 6th March, 1972.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
51.89N/1.50E	72-B-2069	10	5	5	285	170	2		
51.89N/1.75E	72-B-2070	10	10	5	40	15	BLD		
51.89N/2.0E	72-B-2071	10	5	BLD	45	10	1		
51.89N/2.25E	72-B-2072	40	10	5	55	30	1		
51.89N/2.50E	72-B-2073	20	20	10	40	35	BLD		
51.89N/2.75E	72-B-2074	35	20	10	40	65	1		
51.89N/3.0E	72-B-2075	10	10	BLD	25	10	BLD		
51.89N/3.5E	72-B-2076	10	10	BLD	45	10	BLD		
51.89N/4.0E	72-B-2077	10	15	5	40	10	BLD		
51.89N/4.5E	72-B-2078	20	35	10	55	30	BLD		
51.89N/5.0E	72-B-2079	40	65	30	80	90	1		
51.89N/5.5E	72-B-2080	35	80	45	105	190	1		
51.89N/6.0E	72-B-2081	40	55	40	75	135	1		
51.89N/6.5E	72-B-2082	30	140	50	15	190	1		
51.89N/7.0E	72-B-2083	25	50	30	45	100	1		

METHODS:

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007902 PROJECT No.: EL.7/68 - DUNDAS MONTEZUMA GRID

LAB. SHEET No.: 932/3 SAMPLE TYPE: SOIL PROFILE DATE: 6th March, 1972.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
47.5N/9.5W	72-B-2084	5	BLD	BLD	620	20	4		
47.5N/9.25W	72-B-2085	BLD	BLD	BLD	210	5	1		
47.5N/9.0W	72-B-2086	BLD	BLD	BLD	255	5	3		
47.5N/8.75W	72-B-2087	10	BLD	BLD	4300	10	3		
47.5N/8.50W	72-B-2088	BLD	BLD	BLD	290	BLD	1		
47.5N/8.25W	72-B-2089	BLD	BLD	BLD	175	5	BLD		
47.5N/8.0W	72-B-2090	5	BLD	BLD	215	20	BLD		
47.5N/7.75W	72-B-2091	2	BLD	BLD	200	15	BLD		
47.5N/7.50W	72-B-2092	BLD	BLD	BLD	195	BLD	BLD		
47.5N/7.25W	72-B-2093	BLD	BLD	BLD	260	2	BLD		
47.5N/7.0W	72-B-2094	2	5	BLD	70	10	1		
47.5N/6.75W	72-B-2095	2	BLD	BLD	45	5	BLD		
47.5N/6.50W	72-B-2096	BLD	BLD	BLD	25	BLD	BLD		
47.5N/6.25W	72-B-2097	BLD	BLD	BLD	35	5	BLD		
47.5N/6.0W	72-B-2098	BLD	BLD	BLD	35	BLD	BLD		
47.5N/5.75W	72-B-2099	BLD	BLD	BLD	25	5	BLD		
47.5N/5.50W	72-B-2100	BLD	BLD	BLD	25	BLD	BLD		
47.5N/5.75W	72-B-2101	BLD	BLD	BLD	35	15	BLD		
47.5N/5.0W	72-B-2102	BLD	BLD	BLD	25	BLD	BLD		
47.5N/4.75W	72-B-2103	10	5	BLD	275	5	1		
47.5N/4.50W	72-B-2104	BLD	BLD	BLD	100	BLD	BLD		
47.5N/4.25W	72-B-2105	5	BLD	BLD	1550	5	BLD		
47.5N/4.00W	72-B-2106	110	15	BLD	1300	500	1		
47.5N/3.75W	72-B-2107	950	80	10	.95%2850		2		
47.5N/3.50W	72-B-2108	40	5	BLD	665	30	2		
47.5N/3.75W	72-B-2109	520	70	5	2400	130	6		
47.5N/3.0W	72-B-2110	280	30	20	1600	130	5		
47.5N/2.75W	72-B-2111	390	20	10	1100	510	2		
47.5N/2.50W	72-B-2112	270	40	10	850	1000	2		
47.5N/2.25W	72-B-2113	250	95	90	1400	1300	6		

METHODS:

Cu, Ni, Co, Pb, Zn, Ag by G.R.C. No. 1

B.L.D. = Below Limit of Detection

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007902 PROJECT No.: EL.7/68 - DUNDAS - MONTEZUMA GRID

LAB. SHEET No.: 932/4 SAMPLE TYPE: SOIL PROFILE DATE: 6th March, 1972.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
47.5N/2.00W	72-B-2114	15	BLD	BLD	55	5	1		
47.5N/1.75W	72-B-2115	75	5	10	70	150	BLD		
47.5N/1.50W	72-B-2116	BLD	BLD	BLD	10	10	BLD		
47.5N/1.25W	72-B-2117	100	5	15	85	140	BLD		
47.5N/1.0W	72-B-2118	40	30	35	35	90	1		
47.5N/0.75W	72-B-2119	20	20	15	400	480	BLD		
47.5N/9.80W	72-B-2120	2	BLD	BLD	25	25	BLD		
47.5N/0.25W	72-B-2121	BLD	BLD	BLD	15	10	BLD		
47.5N/00	72-B-2122	2	BLD	BLD	50	15	BLD		

METHODS:

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007903 PROJECT No.: EL.7/68 - DUNDAS MONTEZUMA GRID

LAB. SHEET No.: 932/5 SAMPLE TYPE: SOIL PROFILE DATE: 6th March, 1972.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
40N/7.0W	72-B-2123	40	15	5	60	15	BLD		
40N/6.5W	72-B-2124	10	5	BLD	170	10	BLD		
40N/6.0W	72-B-2125	10	5	BLD	145	10	BLD		
40N/5.5W	72-B-2126	25	10	5	105	40	1		
40N/5.0W	72-B-2127	30	5	10	170	50	1		
40N/4.75W	72-B-2128	45	BLD	10	110	20	1		
40N/4.5W	72-B-2129	30	5	5	125	20	BLD		
40N/4.25W	72-B-2130	75	20	60	650	255	1		
40N/4.0W	72-B-2131	15	10	10	100	25	1		
40N/3.75W	72-B-2132	30	25	50	755	265	1		
40N/3.5W	72-B-2133	10	10	55	410	180	1		
40N/3.25W	72-B-2134	45	20	15	100	250	1		
40N/3.0W	72-B-2135	15	10	70	2100	230	3		
40N/2.75W	72-B-2136	10	5	10	400	80	1		
40N/2.5W	72-B-2137	20	10	10	2400	480	9		
40N/2.25W	72-B-2138	40	5	45	1.86%	185	14		
40N/2.0W	72-B-2139	10	BLD	BLD	555	35	1		
40N/1.75W	72-B-3240	35	BLD	5	455	80	1		
40N/1.5W	72-B-3241	45	5	10	570	40	2		
40N/1.25W	72-B-3242	40	BLD	10	610	10	1		
40N/1.0W	72-B-3243	10	BLD	BLD	605	10	1		

METHODS:

Cu, Ni, Co, Pb, Zn, Ag by G.R.C. No. 1

B.L.D. = Below Limit of Detection

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930071

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007904 PROJECT No. EL.7/68 - DUNDAS MONTEZUMA GRID

LAB. SHEET No.: 932/6 SAMPLE TYPE: SOIL PROFILE DATE: 6th March, 1972.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
36N/3.0W	72-B-2144	BLD	BLD	BLD	20	BLD	BLD		
36N/2.5W	72-B-2145	BLD	BLD	BLD	25	BLD	BLD		
36N/2.0W	72-B-2146	40	15	15	55	95	BLD		
36N/1.5W	72-B-2147	5	BLD	BLD	20	BLD	BLD		
36N/1.0W	72-B-2148	40	5	5	50	15	BLD		
36N/0.75W	72-B-2149	5	BLD	BLD	30	BLD	BLD		
36N/0.5W	72-B-2150	10	5	5	30	10	BLD		
36N/0.25W	72-B-2151	BLD	BLD	BLD	20	BLD	BLD		
36N/00	72-B-2152	BLD	BLD	BLD	20	BLD	BLD		
36N/0.25E	72-B-2153	10	BLD	BLD	30	BLD	BLD		
36N/0.5E	72-B-2154	BLD	BLD	BLD	20	BLD	BLD		
36N/0.75E	72-B-2155	BLD	BLD	BLD	20	BLD	BLD		
36N/1.0E	72-B-2156	BLD	BLD	BLD	35	BLD	BLD		
36N/1.25E	72-B-2157	BLD	BLD	BLD	25	BLD	BLD		
36N/1.5E	72-B-2158	2	BLD	BLD	65	BLD	1		
36N/1.75E	72-B-2159	BLD	BLD	BLD	30	2	BLD		
36N/2.0E	72-B-2160	BLD	BLD	BLD	25	10	BLD		
36N/2.25E	72-B-2161	BLD	BLD	BLD	45	10	BLD		
36N/2.5E	72-B-2162	BLD	BLD	BLD	50	10	1		
36N/2.75E	72-B-2163	10	5	BLD	545	10	3		
36N/3.0E	72-B-2164	BLD	BLD	BLD	40	2	1		
36N/3.25E	72-B-2165	BLD	BLD	BLD	30	BLD	BLD		
36N/3.5E	72-B-2166	5	BLD	BLD	110	35	BLD		
36N/3.75E	72-B-2167	BLD	BLD	BLD	40	20	BLD		
36N/4.0E	72-B-2168	BLD	BLD	BLD	55	BLD	BLD		
36N/4.25E	72-B-2169	BLD	BLD	BLD	40	BLD	BLD		
36N/4.5E	72-B-2170	BLD	BLD	BLD	15	BLD	BLD		
36N/4.75E	72-B-2171	5	BLD	BLD	25	10	BLD		
36N/5.0E	72-B-2172	2	BLD	BLD	45	35	BLD		
36N/5.5E	72-B-2173	BLD	BLD	BLD	25	BLD	BLD		

METHODS:

Cu, Ni, Co, Pb, Zn, Ag by G.R.C. No. 1

B.L.D. = Below Limit of Detection

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007904 PROJECT No.: EL. 7/68 - DUNDAS MONTEZUMA GRID

LAB. SHEET No.: 932/7 SAMPLE TYPE: SOIL PROFILE DATE: 6th March, 1972.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
36N/6.0E	72-B-2174	BLD	BLD	BLD	30	2	BLD		
36N/6.5E	72-B-2175	BLD	BLD	BLD	30	2	1		
36N/7.0E	72-B-2176	2	BLD	BLD	60	BLD	1		
36N/7.5E	72-B-2177	BLD	BLD	BLD	40	BLD	BLD		
36N/8.0E	72-B-2178	2	5	BLD	40	BLD	1		

METHODS:

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007905 PROJECT No.: EL.7/68 - DUNDAS MONTEZUMA GRID

LAB. SHEET No.: 932/8 SAMPLE TYPE: SOIL PROFILE DATE: 6th March, 1972.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm
28N/3.0W	72-B-2179	40	10	10	100	25	1
28N/2.75W	72-B-2180	25	10	10	40	15	BLD
28N/2.5W	72-B-2181	30	15	10	65	25	1
28N/2.25W	72-B-2182	10	10	10	45	20	1
28N/2.0W	72-B-2183	5	5	BLD	50	10	1
28N/1.75W	72-B-2184	40	20	10	110	70	1
28N/1.5W	72-B-2185	20	BLD	10	115	30	BLD
28N/1.25W	72-B-2186	10	10	BLD	65	20	BLD
28N/1.0W	72-B-2187	5	BLD	BLD	25	5	BLD
28N/0.75W	72-B-2188	10	10	BLD	75	5	BLD
28N/0.5W	72-B-2189	5	BLD	BLD	70	5	1
28N/0.25W	72-B-2190	2	BLD	BLD	50	BLD	BLD
28N/00	72-B-2191	S A M P L E		M I S S I N G			
28N/0.25E	72-B-2192	2	10	5	40	10	BLD
28N/0.5E	72-B-2193	BLD	5	BLD	40	5	1
28N/0.75E	72-B-2194	BLD	BLD	BLD	30	2	BLD
28N/1.0E	72-B-2195	BLD	BLD	BLD	35	5	BLD
28N/1.25E	72-B-2196	10	BLD	BLD	40	10	BLD
28N/1.5E	72-B-2197	10	5	BLD	50	10	BLD
28N/1.75E	72-B-2198	5	5	5	50	10	BLD
28N/2.0E	72-B-2199	10	BLD	BLD	65	10	1
28N/2.25E	72-B-2200	5	10	5	65	15	1
28N/2.5E	72-B-2201	10	10	5	100	25	1
28N/2.75E	72-B-2202	15	15	10	105	35	1
28N/3.0E	72-B-2203	15	15	10	80	40	1
28N/3.25E	72-B-2204	30	20	15	90	80	1
28N/3.5E	72-B-2205	15	10	5	80	30	BLD
28N/3.75E	72-B-2206	15	20	5	120	45	1
28N/4.0E	72-B-2207	20	10	5	170	40	1
28N/4.25E	72-B-2208	5	5	BLD	100	10	BLD

METHODS:

Cu, Ni, Co, Pb, Zn, Ag by G.R.C. No. 1

B.L.D. = Below Limit of Detection

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007905 PROJECT No.: EL.7/68 - DUNDAS - MONTEZUMA GRID

LAB. SHEET No.: 932/9 SAMPLE TYPE: SOIL PROFILE DATE: 6th March, 1972.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
28N/4.5E	72-B-2209	20	10	10	85	35	1		
28N/4.75E	72-B-2210	10	10	5	35	20	BLD		
28N/5.0E	72-B-2211	25	30	15	75	70	1		
28N/5.25E	72-B-2112	20	30	10	60	60	BLD		
28N/5.5E	72-B-2113	20	35	10	70	50	1		
28N/5.75E	72-B-2114	30	45	20	85	90	1		
28N/6.0E	72-B-2115	50	80	25	70	155	1		
28N/6.25E	72-B-2116	95	245	40	75	270	1		
28N/6.5E	72-B-2117	30	60	20	70	85	1		
28N/6.75E	72-B-2118	30	40	20	55	75	1		
28N/7.0E	72-B-2119	30	30	20	65	60	1		
28N/7.25E	72-B-2120	15	30	15	30	55	1		
28N/7.5E	72-B-2121	20	30	20	45	75	BLD		
28N/7.75E	72-B-2122	20	30	15	30	70	1		
28N/8.0E	72-B-2123	20	70	40	25	155	1		
28N/8.25E	72-B-2124	15	25	20	50	80	BLD		
28N/8.5E	72-B-2125	2	10	5	40	20	BLD		
60E/28N	72-B-2126	20	5	BLD	45	10	1		

METHODS:

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007907 PROJECT No.: EL.7/68 - DUNDAS MONTEZUMA GRID

LAB. SHEET No.: 932/10 SAMPLE TYPE: SOIL PROFILE DATE: 6th March, 1972.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
12N/10W	72-B-2227	BLD	BLD	BLD	5	BLD	BLD		
12N/9.5W	72-B-2228	BLD	BLD	BLD	20	BLD	BLD		
12N/9W	72-B-2229	BLD	BLD	BLD	10	BLD	BLD		
12N/8.5W	72-B-2230	BLD	BLD	BLD	10	BLD	BLD		
12N/8W	72-B-2231	BLD	BLD	BLD	20	BLD	BLD		
12N/7.5W	72-B-2232	25	BLD	BLD	25	5	BLD		
12N/7W	72-B-2233	BLD	BLD	BLD	25	2	BLD		
12N/6.5W	72-B-2234	BLD	BLD	BLD	30	2	BLD		
12N/6W	72-B-2235	BLD	25	10	35	10	BLD		
12N/5.5W	72-B-2236	15	20	10	45	30	BLD		
12N/5W	72-B-2237	45	10	5	30	10	BLD		
12N/4.5W	72-B-2238	10	5	BLD	35	10	BLD		
12N/4W	72-B-2239	30	30	15	120	100	1		
12N/3.5W	72-B-2240	BLD	BLD	BLD	25	BLD	BLD		
12N/3.25W	72-B-2241	2	BLD	BLD	20	BLD	BLD		
12N/3W	72-B-2242	5	BLD	BLD	30	2	BLD		
12N/2.75W	72-B-2243	5	BLD	BLD	35	BLD	BLD		
12N/2.5W	72-B-2244	5	BLD	BLD	65	10	BLD		
12N/2.25W	72-B-2245	BLD	BLD	BLD	20	BLD	BLD		
12N/2W	72-B-2246	2	BLD	BLD	30	2	BLD		
12N/1.75W	72-B-2247	5	BLD	BLD	30	BLD	1		
12N/1.5W	72-B-2248	BLD	BLD	BLD	50	10	BLD		
12N/1.25W	72-B-2249	60	50	25	60	85	1		
12N/1W	72-B-2250	2	BLD	BLD	50	BLD	BLD		
12N/0.75W	72-B-2251	40	25	20	140	100	BLD		
12N/0.5W	72-B-2252	70	65	35	120	275	1		
12N/0.25W	72-B-2253	50	50	30	85	140	1		
60E/12N	72-B-2254	50	55	25	55	75	1		
12N/0.25E	72-B-2255	65	70	30	60	105	1		
12N/0.5E	72-B-2256	100	75	30	70	150	1		

METHODS:

Cu, Ni, Co, Pb, Zn, Ag by G.R.C. No. 1

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007907 PROJECT No.: EL.7/68 - DUNDAS - MONTEZUMA GRID

LAB. SHEET No.: 932/11 SAMPLE TYPE: SOIL PROFILE DATE: 6th March, 1972.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
12N/0.75E	72-B-2257	30	25	10	55	40	BLD		
12N/1E	72-B-2258	50	40	20	75	80	BLD		
12N/1.25E	72-B-2259	BLD	BLD	BLD	35	10	BLD		
12N/1.5E	72-B-2260	40	50	30	60	90	1		
12N/1.75E	72-B-2261	70	90	35	40	160	1		
12N/2E	72-B-2262	60	50	20	70	80	1		
12N/2.25E	72-B-2263	40	50	20	40	80	1		
12N/2.5E	72-B-2264	125	100	25	105	140	1		
12N/2.75E	72-B-2265	30	30	10	40	40	1		
12N/3E	72-B-2266	30	30	10	55	40	BLD		
12N/3.25E	72-B-2267	55	40	10	90	75	BLD		
12N/3.5E	72-B-2268	70	60	20	75	105	BLD		
12N/3.75E	72-B-2269	60	125	60	35	165	1		
12N/4E	72-B-2270	45	175	50	40	150	1		
12N/4.25E	72-B-2271	10	20	5	65	25	BLD		
12N/4.5E	72-B-2272	20	25	10	45	35	BLD		
12N/4.75E	72-B-2273	35	35	10	60	55	BLD		
12N/5E	72-B-2274	30	50	10	30	70	BLD		
12N/5.5E	72-B-2275	5	10	5	80	15	BLD		
12N/00W	72-B-2276	95	95	30	60	195	1		

METHODS:

NATA

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Appendix XI

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007850 PROJECT No.: EL.7/68 - DUNDAS MONTEZUMA

LAB. SHEET No.: 934/1 SAMPLE TYPE: SOIL PROFILE DATE: 6th March, 1972.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
LT.2.50	72-B-2703	60	BLD	5	70	5	BLD		
LT.3.00	72-B-2704	20	10	5	80	20	BLD		
LT.3.50	72-B-2705	5	BLD	BLD	45	5	BLD		
LT.4.00	72-B-2706	2	BLD	BLD	45	10	BLD		
LT.4.25	72-B-2707	2	BLD	BLD	40	15	BLD		
LT.4.5	72-B-2708	BLD	BLD	BLD	35	5	BLD		
LT.4.75	72-B-2709	2	5	BLD	35	10	BLD		
LT.5.0	72-B-2710	2	5	BLD	35	10	BLD		
LT.5.25	72-B-2711	BLD	BLD	BLD	20	5	BLD		
LT.5.5	72-B-2712	2	BLD	BLD	40	10	BLD		
LT.5.75	72-B-2713	2	BLD	BLD	30	BLD	BLD		
LT.6.0	72-B-2714	10	10	BLD	70	30	BLD		
LT.6.25	72-B-2715	BLD	BLD	BLD	55	10	1		
LT.6.5	72-B-2716	5	5	BLD	60	10	1		
LT.6.75	72-B-2717	20	15	5	100	50	BLD		
LT.7.0	72-B-2718	BLD	BLD	BLD	25	5	BLD		
LT.7.25	72-B-2719	20	5	5	55	30	BLD		
LT.7.5	72-B-2720	95	90	30	100	165	1		
LT.7.75	72-B-2721	55	120	15	140	265	BLD		
LT.8.0	72-B-2722	75	125	30	250	1300	2		
LT.8.25	72-B-2723	45	45	20	75	135	1		
LT.8.5	72-B-2724	60	85	45	85	345	1		
LT.8.75	72-B-2725	140	45	15	55	170	1		
LT.9.0	72-B-2726	20	30	10	80	65	BLD		
LT.9.25	72-B-2727	165	10	10	180	65	1		
LT.9.5	72-B-2728	15	30	10	40	40	1		
LT.9.75	72-B-2729	15	20	10	55	25	BLD		
LT.10.0	72-B-2730	10	15	10	70	20	1		
LT.10.25	72-B-2731	20	20	20	50	30	BLD		
LT.10.5	72-B-2732	50	35	10	20	70	1		
LT.10.75	72-B-2733	10	20	10	40	35	BLD		
LT.11.0	72-B-2734	20	20	10	45	40	BLD		
LT.11.5	72-B-2735	50	25	10	60	60	BLD		
LT.12.0	72-B-2736	55	40	15	45	115	BLD		
LT.12.5	72-B-2737	55	40	20	45	110	BLD		
LT.13.0	72-B-2738	100	30	20	45	125	1		
LT.13.5	72-B-2739	20	10	BLD	90	30	BLD		
LT.14.0	72-B-2740	325	125	65	90	235	1		
LT.14.5	72-B-2741	465	50	30	140	300	1		
LT.15.0	72-B-2742	160	65	20	30	280	1		
LT.15.5	72-B-2743	50	45	20	40	240	2		
LT.16.0	72-B-2744	20	55	5	30	20	BLD		
LT.16.5	72-B-2745	15	40	10	25	30	1		

METHODS:

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Cu, Ni, Co, Pb, Zn, Ag by G.R.C. No. 1

B.L.D. = Below Limit of Detection

Ray W. Yeates

Chief Chemist

930308

APPENDIX XII

GEOPHOTO RESOURCES CONSULTANTS
MONTEZUMA GRID
DRILLING GEOCHEMISTRY AND LOGS

MZN-1 was drilled through pyritic gossan from the surface to 72', then Concert Group metasediments to the bottom at 726'. The faulted Concert-Oonah contact was not penetrated as had been planned. The hole steepened considerably with depth.

No economic mineralization was encountered in this hole. The gossan between 26-71' had variable values ranging between 0.2-0.5% Pb and 0.2-0.56% Zn with 1.34 ozs Ag between 46-71' and 0.2% Cu between 6-11'. Core recovery was poor throughout the gossan.

MZN-2 was set back from but on the same azimuth as MZN-1, in order to test the gossan zone at depth.

The hole penetrated similar rocks as MZN-1 and had a similar lack of significant mineralization. Only minor uneconomic galena-sphalerite mineralization was encountered.

The hole did not intersect a mineralized zone corresponding to the surface gossan (and MZN-1). Probably the most likely reason is that the mineralized zone dips easterly instead of westerly, although other possibilities exist such as additional faulting, lensoidal ore bodies, etc. This hole also steepened at depth, although not as much as MZN-1.

930310

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

Montezuma

Project: EL 7/68 Co-ords. Collar: 47.5N/2.1E +0.3S Drill: LY 5

Hole No: MzN 3 (DDH) Bearing: 255°T Bit Size:

R.L. Site: Line approx. 2080' ASL Depression: 60° Core Size: NQ/BQ

Geologist: DKershaw Sampler: Date Logged: 15/2/73 56.6

From m	To m	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
0	1.52	1.52	1.45		0-25.19m Quartzose slate, dark grey-black, banding			
1.52	4.88	3.36	3.16		@65° c/a, plastic distortion and folding of banding.			
4.88	7.32		2.60		At 1.06m, carbonate vein 5mm wide (siderite?) At 2.06m intense brecciation (slumping) and			
7.32	8.69		1.03		folding for 0.3m. At 4.88m, very minor disseminated pyrite.			
8.69	10.97		2.41		At 5.48m minor galena for 0.3m. At 7.87m Breccia with carbonate veins for			
10.97	(13.78)?	5.87	5.80		0.2m. At 10m, minor galena for 0.6cm.			
(13.78)?	16.84				At 11.81m, Pyrite in thin widely spaced veins At 12.81m, The banded nature of light grey			
16.84	18.06	1.22	1.20		quartzite and shale more pronounced. Boud-onage structures developed.			
18.06	20.12		2.19		At 15.41m, Pb-Zn mineralization for 0.8cm. At 14.60m, Pyrite disseminated along carbon-			
20.12	24.38		4.10		ate veins about 7mm wide and @ varying angles to c/a (35°-80°) to 15.60m.			
24.38	24.99		0.90		At 15.74m, Quartzite most prominant for 2m. There after shale very rich with quartz.			
24.99	26.21		1.05		Pyrite pod. At 24.40 to 25.19m, Laminated black shale			
					and grey quartzite severely distorted-35° c/a. From 24.74m to 24.85m, siderite veins.			

930311

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

Montezuma

Project: EL 7/68 Co-ords. Collar: 47.5N/2.1E Page 2 Drill: LY5
+0.3S

Hole No: Mzn 3(DDH) Bearing: 225°T Bit Size:

R.L. Site: Line approx 2080'ASL Depression: 60° Core Size: NQ/BQ

Geologist: DK Sampler: Date Logged: 15/2/~~73~~ 56.69

From m	To m	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
26.21	29.26		3.61		25.19-26.08m Quartzite ~~light~~ grey grained, fine/banded.			
29.26	30.79		1.50		26.08m-26.45m: Quartzose slate banded med. grey.			
30.79	31.69		0.98		26.45-26.71m Breccia with quartzite and slate fragments disseminated and bands of pyrite.			
31.69	34.59		2.90		26.71-28.92m Slate, black, pods of pyrite occasional bands of quartzite and thin veins of carbonate (siderite? dolomite?)			
34.59	34.75		0.12		28.92-29.95m Quartzite, medium grey fine grained.			
34.75	38.10		3.42		29.95-34.75m Slate, black quartzose bands distorted and broken, minor pyrite and siderite.			
38.10	44.42		6.40		34.75-34.98 Quartzite, light grey with minor slate bands very minor pyrite mineralization.			
44.42	47.55		2.96		34.98-41.32m ~~Slate, black, minor pyrite.~~			
47.55	50.60		2.93		41.32-44.70m Slatey quartzite medium grey, minor pyrite and chalcopyrite. Quartz increases over interval to quartzite.			
50.60	53.65		3.00		44-70-46.97m Slate, black broken quartzite bands, stronger development of pyrite.			
53.65	56.69		3.89					
56.69	59.74		2.69					
59.74	61.19		0.70					

930312

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

Montezuma

Project: EL 7/68 Co-ords. Collar: 47.5N/2.1E +0.3S Drill: LY 5

Hole No: Mzn 3 (DDH) Bearing: 255°T Bit Size:

R.L. Site: Line approx. 2080'ASL Depression: 60° Core Size: NQ/BQ 56.69

Geologist: DK Sampler: Date Logged: 15/2/73

From m	To m	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
61.19	62.18		1.02		46.97-47.88m			
62.18	65.84		3.47		Quartzite, light grey with slate bands well developed pyrite mineralization.			
65.84	68.88		3.07		47.88-49.11m,			
68.66	71.93		2.39		Slatey quartzite mottled grey and white pyrite mineralization.			
71.93	74.98		3.05		49.11-49.26m			
					Quartzite.			
74.98	77.32		2.20		49.26-49.91m			
77.32	79.55		2.35		Slatey quartzite medium grey. Banded.			
					49.91-58.23m			
79.55	80.08		1.48		Quartzite, with slate bands or slate with quartzose bands. Banding about 2 to 4 mm.			
80.08	84.13		3.02		Very minor sulphide mineralization (pyrite).			
					58.23-59.06m			
84.13	87.17		3.02		Quartzite, medium-dark grey, fine grained.			
					59.06-71.93m			
					Alternating bands of slate and quartzite with slate dominating.			
					At 59.57, distinct quartzite band for 0.3m.			
					At 63.37m, for 0.3m o.27m quartzite.			

930313

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

Project: EL 7/68 Montezuma Co-ords. Collar: 47.5N/2.1E +0.3S Drill: LY 5

Hole No: Mzn 3(DDH) Bearing: 255°T Bit Size:

R.L. Site: Line approx 2080'ASL Depression: 60° Core Size:

Geologist: DK Sampler: Date Logge 56 15/2

From m	To m	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geologi Log
87.17	90.22		3.22		71.93-72.23m Slate, black with alternating white qu			
90.22	92.35		2.06		veins with pyrite @ about 80°c/a. 72.23-73.52m;			
92.35	96.32		3.88		Slatey quartzite, medium grey, very th banding about 1mm.			
96.32	97.54		1.39		73.52-74.02m; Quartzose slate, dark grey to black.			
97.54	99.36		1.77		74.02m 78.41m; Slatey quartzite, light grey, with dar			
99.36	102.41		3.09		slate bands < 5mm Minor distorted brecciated zones as at 77.47m			
102.41	105.10		2.57		78.41-78.76m Quartzite, light grey fine grained.			
105.10	108.51		3.43		78.76-79.85m Quartzose slate, dark grey, well banded			
108.51	110.03		1.50		79.85-87.07m			
110.03	111.51		1.34		Quartzite, light grey irregular quartz about parallel to c/a.			
111.51	112.78		1.22		From 80.05m-80.65m, not well banded. From 81.40-81.60, Quartzose slate with q			
112.73	114.30		1.37		ite banding. From 81.88-82.01m, Slatey quartzite wel			
					banded. From 82.48-82.50m, white quartz veining			

930314

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

Project: EL 7/68 Co-ords. Collar: Montezuma 47.5N/2.1E +0.3S Drill: LY 5

Hole No: Mzn 3 (DDH) Bearing: 255°T Bit Size:

R.L. Site: Line approx. 2080'ASL Depression: 60° Core Size: NQ/BQ 56.69

Geologist: DK Sampler: Date Logged: 15/2/73

From m	To m	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
					about 45° c/a.			
114.30	116.74		2.31		From 83.73-84.59m, Quartzite shows the typical			
116.74	119.86		3.10		banding. From 85.65-85.90m, Slate, black.			
119.86	122.92		3.14		87.07-88.00m Disturbed zone sheared, brecciated slate and			
122.92	126.03		2.97		quartzite, in filled with white quartz and siderite. Fault at 87.07m. Minor Pyrite.			
126.03	126.33		0.37		88.00-90.92m Quartzite, light grey with thin slate bands			
126.33	129.39		3.17		minor brecciated zone @ 88.24m 90.92m-92.67m			
129.39	132.89		3.60		Slate, black with small quartzite bands, 92.67-94.44m			
132.89	135.94		3.05		Slatey quartzite medium to dark grey.			
135.94	136.86		0.95		94.44m-95.24m Quartzose slate black, folded, and disturbed.			
					95.44-103.75m Slatey quartzite medium to dark grey. Dis-			
					turbed zones of small folds and faults. 103.75-103.80m			
					Pyrite pod. 103.80-110.13m			
					Slate, black, thin			< 2mm white dolomite

930315

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

Project: EL 7/68 Montezuma Co-ords. Collar: 47.5N/2.1E +0.3S Drill: LY 5

Hole No: Mzn 3 (DDH) Bearing: 255°T Bit Size:

R.L. Site: Line approx. 2080' ASL Depression: 60° Core Size: NQ/BQ 56.69

Geologist: DK Sampler: Date Logged: 15/2/73

From	To	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
					veins widely spaced. 110.13-136.86m			
					Quartzite, light grey to white with strong dolomite veining throughout. Minor Pyrite disseminated throughout.			
					END OF HOLE AT 136.86m			
	SUMMARY: Hole was drilled to investigate VLF anomaly. Rock type is essentially black shale and quartzites interbedded. No significant mineralization was found but pyrite was finely disseminated in both rock types.							

930316

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

Project: EL 7/68 | Co-ords. Collar: 47.5N + 4.1E + 0.3S | Drill: LY 5

Hole No: MzN 4 | Bearing: | Bit Size:

R.L. Site: | Depression: 75° | Core Size: NQ-BQ 79.24

Geologist: D. KERSHAW | Sampler: | Date Logged: 6/3/73

From m	To m	Length Run	Length Core m	% Rec.	Sludge Wt.	No. Metres with	Assay Value feet in brackets.	Summary Geological Log
0	5.18		2.98					0-11.20m (0-36.64'): Predominantly slate, dark grey, with thin (<1mm) quartzite bands.
5.18	8.23		3.17					Commonly quartzite bands have been deformed by folding and slip planes to give breccia-
8.23	10.36		2.04					ted texture or boudins. Minor pyrite stringers are parallel to cleavage particularly
10.36	11.89		1.46					with disturbed zones. Quartzite has been chloritized in places.
11.89	14.33		2.33					Talc has developed along some shears. Dolomite and siderite? veins are present often
14.33	20.42		6.02					associated with milky quartz veins. 0.5-0.62m (1.64'-2.02'): Predominantly
20.42	23.47		2.67					quartzite 0.62-1.50m (2.02'-4.92): Disturbed zone.
23.47	25.47		2.35					2.62-5.57m (8.60'-18.27') Disturbed zone. Siderite @ 5.18m with pyrite stringers.
25.47	26.05		0.37					~~5.57-7.00m (18.27'-22.86'); Predominantly~~ quartzite medium grey, fine grained.
26.05	29.10		3.23					~~At 5.37m (17.60') Dolomite vein @ 40° c/a~~ and 5mm wide.
29.10	35.66		6.36					~~9.03-9.36m (29.48'-30.62'); Minor stringers~~ of pyrite @ 38° c/a.
35.66	38.70		3.70					~~At 9.06m (29.62'); Dolomite vein 2 cm wide.~~ 11.20-11.89m (36.64'-38.97'); Slate, black
38.70	41.76		2.46					

N.B. % Recovery only approx. due to metric/imperial conversions.

930317

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

Project: EL 7/68 Co-ords. Collar: 47.5N + 4.1E + 0.3S Drill: Ly 5

Hole No: MzN 4 Bearing: Bit Size:

R.L. Site: Depression: 75° Core Size: NQ-BQ 79.24

Geologist: D. Kershaw Sampler: Date Logged: 6/3/73

From m	To m	Length Run	Length Core m	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
41.76	44.81		2.97					with minor quartzite banding. Broken dolominite veining @ 11.20m (36.64')
44.81	47.55		2.67					11.89-15.92m (38.97'-52.30'): Quartzite and slate banding with quartzite dominating, light grey.
47.55	50.90		3.26					
50.90	53.95		3.01					15.92-16.14m (52.30'-53.00'):Black slate.
53.95	55.93		2.03					16.14-20.08m (53.00'-65.70'): Slate dominant with finely banded quartzite. At 18.25m shear zone 5 cm wide.
55.93	58.98		2.99					
58.98	60.05		1.03					20.08-21.85m (65.70'-71.80): Disturbed zone predominantly quartzite with minor carbonate veins and associated minor pyrite.
60.05	63.09		3.00					
63.09	66.14		3.00					21.85-42.00m (71.80'-137.8'):Slate, dark grey, predominant, with quartzite in thin banding <1mm, pyrite disseminated mostly throughout. Minor, irregular <2mm carbonate veins particularly from 24.57m-24.87m.
66.14	68.28		2.09					
68.28	71.17		2.97					
71.17	72.24		0.54					23.47m-31.30m (77.30'-102.60'): Pyrite well developed in both slate and quartzite 28.14-28.30m (92.20-92.80') Light grey
72.24	78.18		6.62					

930318

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

Project: EL 7/68 Co-ords. Collar: 47.5N+ 4.1E+0.3S Drill: LY 5

Hole No: MzN 4 Bearing: Bit Size:

R.L. Site: Depression: Core Size: NQ-BQ 79.24

Geologist: D. Kershaw Sampler: Date Logged: 6/3/73

From m	To m	Length Run	Length Core m	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
78.18	78.33		0.18		quartzite. 27.05-27.45m (88.80'-90.20'): Quartzite			
78.33	79.24		0.98		predominant with disseminated pyrite. At 34.58m; 1mm wide dolomite vein 50° to			
79.24	81.38		2.12		c/a and foliation possibly original bedding @ 30° c/a. After 28.50 the amount of			
81.38	84.43		3.00		pyrite is negligible.			
84.43	87.48		3.01		42-42.42m (137.80'-139.20'): Light grey			
87.48	90.53		2.94		quartzite and black slate in alternating bands. Quartzite is better developed than			
90.53	93.57		3.00		above with bands (or continuous boudins) 2cm wide.			
93.57	96.70		2.53		42.42-42.79m (139.20'-140.50'): Slate			
96.70	99.80		3.05		dominant with slate and quartzite laminae.			
99.80	102.50		2.63		42.79-43.10m (140.50'-141.4'): Quartzite			
102.50	105.80		3.12		bands and boudins with slate. Quartzite bands @ 18° c/a .			
105.80	109.00		3.12		43.10-55.70m (141.4'-182.50'): Slate			
109.00	112.00		3.91		dominant but quartzite foliatious bands and boudins well developed in places.			

930319

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

Project: EL 7/68 Co-ords. Collar: 47.5N + 4.1E+0.3S. Drill: LY 5

Hole No: MzN 4 Bearing: Bit Size:

R.L. Site: Depression: 75° Core Size: NQ-BQ 79.24

Geologist: D. KERSHAW Sampler: Date Logged: 6/3/73

From m	To m	Length Run	Length Core m	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
112.00	115.00		2.30					48.50-48.76m; Bands of quartzite boudins with minor pyrite mineralization.
115.00	117.40		2.09					At 50.00m; Quartzite very rich in pyrite for 4 cm @ 20° c/a.
117.40	120.00		2.78					At 52.57m; Carbonate vein <1mm @ 22° c/a. At 53.75m for 0.16m broken quartzite with
120.00	121.00		1.10					slip planes and slump structure. At 55.21m; Pink calcite vein <1mm.
121.00	123.60		2.43					55.70-57.24m (182.50'-187.3'): Quartzite
123.60	126.20		2.65					and slate, quartzite dominant with pyrite mineralization.
126.20	127.10		0.97					57.24-71.17m (187.3'-232.5'): Dominantly
127.10	129.20		2.13					slate with quartzite foliations or laminae. Minor pyrite veins cut c/a @30° at 57.21m,
129.10	130.10		0.90					57.94m, 58.11m, 58.44m, 58.60m, 59.24m, 60.52m, 62.16m, 62.66m, 61.27. From
130.10	131.40		1.22					60.82-61.08m zone of broken quartzite foliation with pyrite pods and veins well developed. From 63.37 to 63.57m; Pods, veins
131.40	131.90		0.70					and massive pyrite well developed with
131.90	135.90		3.90					slate and broken quartzite bands. From 63.57-77.17m; Pyrite is irregularly
135.90	138.50		2.83					distributed throughout the core in veins and pods and is particularly associated

930320

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

Project: EL 7/68 Co-ords. Collar: 47.5N + 4.1E+0.3S Drill: LY 5

Hole No: MzN 4 Bearing: Bit Size:

R.L. Site: Depression: 75° Core Size: NQ-BQ 79.24

Geologist: D. Kershaw Sampler: Date Logged: 6/3/73

From m	To m	Length Run	Length Core m	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
					with quartzite.			
138.50	142.00		2.83		68.17-69.1m; Minor galena and sphalerite.			
142.00	143.60		1.60		71.17-75.02m (232.5'-246.3'): Quartzite			
143.60	145.50		0.96		dominates black slate, quartzite largely broken up.			
145.50	147.50		2.14		From 71.17-73.24m; Minor Pb-Zn mineralization and pyrite.			
147.50	150.00		2.26		75.02-79.24m (246.3'-250.9'): Foliated			
150.00	152.10		1.93		quartzite and shale in near equal proportions. Laminae about 90°c/a. Minor Pb-Zn			
152.10	153.00		0.77		mineralization and pyrite particularly from 76.69-77.10m, and at 78.18m and from			
153.00	154.00		1.02		78.43-78.73m as irregular thin <2mm veins. 78.75-79.08m; Minor Pb-Zn associated with			
154.00	154.20		0.36		pyrite.			
154.20	155.90		1.23		79.24-82.21m (250.9'-269.8'): Dominantly			
155.90	156.30		0.70		slate, dark grey, with quartzite laminae. Minor pyrite.			
156.30	157.00		0.72		82.21-84.64m (269.8'-276.8'): Broken			
157.00	158.80		1.60		quartzite dominates over black shale. Some Pb-Zn. Pyrite @ 82.62m.			

930321

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

Project: EL 7/68 Co-ords. Collar: 47.5N + 4.1E + 0.3S Drill: LY5

Hole No: MzN 4 Bearing: Bit Size:

R.L. Site: Depression: 75° Core Size: NQ-BQ

Geologist: D. Kershaw Sampler: Date Logged: 6/3/73

79.24

From m	To m	Length Run	Core m	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
158.80	160.20		1.27					84.64-92.38m (276.8'-302.1'): Medium grey quartzitic slate and quartzite. Medium grey. Minor pyrite.
160.20	161.50		1.60					
161.50	163.50		1.76					92.38-96.22m (302.1'-315.0'): Black slate and broken light grey quartzite boudins.
163.50	165.00		1.30					
165.00	166.20		1.14					96.22-98.78m (315.0'-325.4'): Quartzite light grey minor sphalerite @ 97.92m. Occasional black slate bands @ 40° c/a.
166.20	168.00		1.35					
168.00	169.10		1.20					98.78-107.08m (325.4-350.8'): Medium grey, quartzitic slate containing zones of broken quartzite. Massive sphalerite and siderite follows half core from 99.70-99.99m and for 3 cm at 104.91m. Sphalerite veins < 2mm @ 103.14m and @ 103.72m and @ 103.79. Thin siderite stock works from 104.12 for 0.25m. Minor pyrite veins and pods in places. Sphalerite with pyrite and siderite vein follows core from 106.21m for 0.13m.
169.10	170.69		1.30					
END OF HOLE AT 170.69m (560')								

930322

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

Project: EL 7/68 Co-ords. Collar: 47.5N + 4.1E+0.3S Drill: LY 5

Hole No: MzN 4 Bearing: Bit Size:

R.L. Site: Depression: 75° Core Size: NQ-BQ

Geologist: D. KERSHAW Sampler: Date Logged: 6/3/73 79.24

From	To	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
								107.08-108.25m (350.8'-354.00'): Quartzite, light grey.
								108.25-138.68m (354.0'-454.0'): Alternating laminae and bands of dark grey to black slate and quartzite. Banding in general <1mm but zones of both slate and quartzite up to 0.3m in places and also minor sphalerite. One zone of massive pyrite is developed. At 113.00m for 0.1m massive pyrite with quartzite. At 114.27m; 0.01m wide vein of pyrite and galena. At 115.55m; 0.02m wide siderite vein with a spec of chacopyrite. At 116.22 for 0.15m coarsely disseminated pyrite in quartzite. From 116.37-116.78m; black slate with stringers of milky quartz. At 116.88 for 0.02m Quartzite with pyrite. At 118.43; 0.5cm vein of siderite, sphalerite pyrite with spec of chalcopyrite. From 120m-125.46m; pyrite gradually increases in quantity with over 40 veins (<1mm)

930323

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

Project: EL 7/68 Co-ords. Collar: 47.5N + 4.1E + 0.3S Drill: LY 5

Hole No: MzN 4 Bearing: Bit Size:

R.L. Site: Depression: 75° Core Size: NQ-BQ 79.24

Geologist: D. KERSHAW Sampler: Date Logged: 6/3/73

From	To	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
								developed along with pods and disseminations in the quartzite.
								From 125.46-126.42m; Pyrite and milky quartz stringers well developed with quartzite and also slate.
								From 126.42-126.72m; Massive pyrite.
								At 130.22m; Carbonate vein.
								At 131.13m; Massive milky quartz and carbonate veins.
								At 132.44m; white quartz and carbonate veins for 0.2m.
								At 133.49m; White quartz and carbonate veins for 0.22m.
								138.68-139.74m (454.0'-457.0'): Quartzite with some black shale banding in places. Pyrite vein at 136.18m.
								139.74-143.37m (457'-470'): Alternating slate and quartzite.
								143.37-145.00m (470'-475'): Micaceous quartzite light grey, medium grained.

930324

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

Project: EL 7/68 Co-ords. Collar: 47.5N + 4.1E+0.3S Drill: LY 5

Hole No: MzN 4 Bearing: Bit Size:

R.L. Site: Depression: 75° Core Size: NQ-BQ

Geologist: D. KERSHAW Sampler: Date Logged: 6/3/73 79.24

From	To	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
					145.00-148.79m (475'-487'): Alternating quartzite and slate.			
					148.79-150.50m (487'-493'): Quartzite medium grained, light grey.			
					150.50-170.69m (493'-560'): Alternating quartzite and slate. From 152.22-153.00m; Light grey medium grained quartzite. From 154.20-155.30m; Black slate. From 157.53-158.50m; Quartzite, light grey. From 162.74m-163.31m; White quartz and cream siderite. From 163.63-163.83m; White quartz and siderite.			

930325

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

Project: EL 7/68 | Co-ords. Collar: 47.5N - 4.1E/0.3S | Drill: LY 5

Hole No: MzN5 | Bearing: 300° | Bit Size: NQ-310'-BQ

R.L. Site: 2150' | Depression: 70° | Core Size: NQ

Geologist: D. KERSHAW | Sampler: | Date Logged: 9/3/73

From '	To '	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
0'	11'0"	11'	1'3"		0-9'9": No recovery.			
11'3"	14'6"	3'6"	3'6"		9'9"-14'11": Black slate, thin quartzite			
14'6"	24'0"	9'6"	10'10"		laminae and boudins. Minor pyrite (secondary) infills shears @ 50° c/a with serpentinite and talc.			
24'0"	32'4"	8'4"	7'9"					
32'4"	41'0"	8'8"	8'7½"		14'11"-20'2": Quartzite, dark grey medium grained.			
41'0"	46'0"	5'0"	5'1"					
46'0"	50'6"	4'6"	3'11"		20'2"-83'2": Black slate, thin quartzite laminae and boudins. At 23' for 7" black slate with carbonate veining and minor pyrite. At 33'3" for 1'0" shale has conspicuous finely disseminated pyrite. At 35'3" for 1'3" white quartz and cream carbonate veins cut core @about 40°. At 39'6" for 11", Quartz, dolomite veining trending at 35° c/a. Graphite present. At 55'9", White quartz and dolomite vein 2½" wide. At 59'; Several pyrite pods for 2".			
50'6"	57'0"	6'6"	6'9"					
57'0"	65'0"	8'0"	7'10"					
65'0"	71'0"	6'0"	5'10"					
71'0"	75'0"	4'0"	3'6"					
75'0"	84'6"	9'6"	9'8"					
84'6"	89'0"	3'6"	3'8"					

930326

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

Project: EL 7/68 | Co-ords. Collar: 47.5N - 4.1E/0.3S | Drill: LY 5

Hole No: MzN 5 | Bearing: 300° | Bit Size: NQ-310'-B(

R.L. Site: 2150' | Depression: 70° | Core Size: NQ

Geologist: D. KERSHAW | Sampler: | Date Logged: 9/3/73

From	To	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
89'0"	96'0"	7'0"	6'9"					At 62'9": Pyrite pods. From 67'-98' very minor pyrite disseminated throughout core with occasional pods. From 80'2"-83'2": Quartzite boundins with disseminated pyrite well developed.
96'0"	105'6"	9'6"	10'2"					
105'6"	112'0"	6'6"	6'3"					
112'0"	122'0"	10'0"	9'11"					83'2"-90'1": Quartzite light grey, pyrite mineralization throughout. Sphalerite quartz (clear) veining particularly from 85'3" for 8".
122'0"	126'0"	4'0"	3'11"					
126'0"	136'0"	10'0"	9'11"					
136'0"	145'0"	9'0"	9'10"					90'1"-125'1": Shale and quartzite in alternating laminae with zones of quartzite but slate dominant. Minor pyrite from 94'1" for about 2'. Pyrite pod at 116'1".
145'0"	156'0"	9'10"	9'10"					
156'0"	164'6"	8'6"	8'0"					
164'6"	174'0"	9'6"	9'5"					125'1"-141'7": Quartzite light grey, fine to medium grain size, slate occasional. Carbonate veining at 129'6" for 8" at varying degrees to c/a (5° and 40°). Dolomite veins cut previous milky quartz veins.
174'0"	184'0"	10'	10'1"					
184'0"	195'0"	11'	10'2"					
195'0"	206'0"	11'	11'3"					

930327

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

Project: EL 7/68 **Co-ords. Collar:** 47.5N - 4.1E/0.3S **Drill:** LY 5

Hole No: MzN 5 **Bearing:** 300° **Bit Size:** NQ-310'-BQ

R.L. Site: 2150' **Depression:** 70° **Core Size:** NQ

Geologist: D. KERSHAW **Sampler:** **Date Logged:** 9/3/73

From '	To '	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
206'0"	216'0"	10'	10'					141'7"-222'3": Black slate and quartzite
216'0"	226'0"	10'	10'					laminae or boudins. Black slate dominant. At 163'11"; 1'x2' pyrite pod. The slate
226'0"	236'0"	10'	10'					becomes more quartzitic down the run. Also quartized laminae are more distinct and
236'0"	246'0"	10'	9'9"					numerous. At 182'9"; light grey quartzite for 1'6".
246'0"	256'0"	10'	10'1"					At 192'11"; light grey quartzite with pyrite stringers and disseminations for 3'.
256'0"	266'0"	10'	9'11"					At 215'6" ¼" wide pyrite vein @ 10°c/a. At 120'2"; Quartzitic slate with pyrite
266'0"	276'0"	10'	10'1"					veinlets.
276'0"	286'0"	10'	9'10"					222'3"-227'8": Massive pyrite @ 35° c/a?.
286'0"	296'0"	10'	9'8"					Veins of Pb-Sb sulphide stibnite, galena, arsenopyrites.
296'0"	306'0"	10'	9'10"					227'8"-240': Black graphitic slate with
306'0"	309'0"	3'0"	3'0"					pyrite veinlets spec of galena and minor Pb-Sb sulphide.
Change to BQ at 309'								
309'0"	316'0"	7'0"	5'9"					240'-408 3": Contact @ about 35° c/a.
316'0"	326'0"		9'11"					~~Slate and quartzite lamina or boudins.~~ Occasional dolomitic veins. Slate slightly

930328

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Drilling Record Sheets

Project: EL 7/68 Co-ords. Collar: 47.5N - 4.1E/0.3S Drill: LY 5

Hole No: MzN 5 Bearing: 300° Bit Size: NQ-310'-B(

R.L. Site: 2150' Depression: 70° Core Size: NQ

Geologist: D. KERSHAW Sampler: Date Logged: 9/3/73

From	To	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
326'0"	336'0"		9'10"					dominant. Six inches of quartzite at 268'11".
336'0"	346'0"		9'7"					At 271'6"; Carbonate vein ¼" wide follows core for 8 inches.
346'0"	356'0"		9'10"					At 275'6"; Carbonate vein at low angle to core axis for 12".
356'0"	366'0"		9'4"					At 296'6"; Irregular pink 1" wide carbonate veins.
366'0"	376'0"		9'9"					At 307'2"; Minor sphalerite and galena? associated with <one-eight inch carbonate vein.
376'0"	386'0"		9'7"					At 311'5"; ¼" wide carbonate vein containing pyrite and chlorite @25°c/a.
386'0"	396'0"		9'6"					At 312'5": Galena mineralization less than ½".
396'0"	406'0"		10'0"					At 313'11"; ¼" siderite pyrite vein.
406'0"	425'0"		18'11"					From 313'-315'3": Quartzite, light grey with minor pyrite.
425'0"	434'0"		9'0"					From 315'3"-327': Occasional, thin≈one-sixteenth degree veinlets of carbonate (siderite) with pyrite and occasional
434'0"	446'		11'7"					galena and sphalerite. At 330'5"; spec of galena.
446'	455'6"		9'3"					At 3'10" 1" wide chlorite quartz carbonate vein.
455'6"	464'		7'10"					At 350'2"; Carbonate veins, broken and irregular trend along core for 8". Spec

930329

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

Project: EL 7/68 Co-ords. Collar: 47.5N - Drill: LY 5

Hole No: MzN 5 Bearing: 300° 4.1E/0.3S Bit Size: NQ-310'-BQ

R.L. Site: 2150' Depression: 70° Core Size: NQ

Geologist: D. KERSHAW Sampler: Date Logged: 9/3/73

From	To	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
					of galena at 372'10½".			
					From 391'9"-406'3": Quartzite with occas-			
					ional broken slate bands. Minor spharlite			
					galena and pyrite veinlets contact @ 40°c/a.			
					408'3"-419'8": Quartzite, light grey			
					At 423'4"; Quartz pyrite with minor spha-			
					lerite 1" wide 40°c/a.			
					419'8"-464': Black slate and quartzite			
					laminae and bands.			

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Drilling Record Sheets

Project: EL 7/68 Co-ords. Collar: Drill: LY 5

Hole No: MzN 6 Bearing: 220° Bit Size:

R.L. Site: Depression: 60° Core Size:

Geologist: D. KERSHAW Sampler: Date Logged:

From '	To '	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
0'	13'6"	13'6'	9'11'		0'-181'11": Dominately black slate with			
13'6'	16'	2'6'	1'3"		medium to light grey quartzite laminae and			
16'	22'	6'0"	6'3"		bands. Quartzite tends to be broken into boudins in places.			
22'	26'	4'	3'4"		At 18'5" for 7" graphitic slate with carbonate (secondary) veining.			
26'	32'	6'	5'8"		At 27'3", 28'4", and 29'0" are biotite			
32'	43'	11'	10'10'		carbonate infills or veins ¼" wide and @35° c/a.			
43'	51'	7'1"	8'		At 38'8½"; 2" zone of carbonate stockworks			
51'	56'	5'0"	5'3"		and black graphitic slate.			
56'	65'	9'0"	8'9"		At 39'8½"; fault gouge.			
65'	71'	6'0"	6'0"		From 40'3" to 43'3"; zone dominantly quartzite, with an irregular carbonate			
71'	76'	5'0"	5'0"		vein at 40'6".			
76'	85'	9'0"	8'8"		From 55'4" to 60' disturbed zone of black slate and quartzite boudins			
85'	95'	10'0"	10'0'		containing very minor pyrite with minor galena at 57'1".			

930331

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Drilling Record Sheets

Project: EL 7/68 Co-ords. Collar: Drill: LY 5

Hole No: MzN 6 Bearing: 220° Bit Size:

R.L. Site: Depression: Core Size:

Geologist: D. KERSHAW Sampler: Date Logged:

From '	To '	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
95'	105'	10'0"	10'1"		Pyrite pod at 69', 70'8", 86'10".			
105'	115'	10'0"	9'10"		At 97'1" for 2'4" quartzite, mid to dark grey.			
115'	125'6"	10'6"	9'10"					
125'6"	126'	6"	11"		From 104' to 149'; The relationship between slate and quartzite is a distinctive "ribbon" structure with laminae of greater thickness (½"to 2") more numerous, also grey quartzite bands less distorted and well developed.			
126'	135'	9'	8'8"					
135'	142'	7'	7'1"					
142'	146'	4'	3'9"		At 119'5" to 119'9"; ½" pyrite vein.			
146'	154'	8'	7'10"		At 137'1"; Minor carbonate and milky quartz veining. Pyrite pods at 140'4", 140'8", 141'1", 143'4" and associated with quartzite.			
154'	160'6"	6'6"	7'10"					
160'6"	166'	5'6"	5'3"					
					At 161'1"; Black graphitic slate to 162'6". At 163'4" for 10"; Massive to intensely veined pyrite zone. At 167'6"; Pyrite disseminated in quartzite.			
					181'11" to 195' Quartzite, medium grey.			

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930332

Drilling Record Sheets

Project: EL 7/68 | Co-ords. Collar: | Drill: Longyear

Hole No: MzN6 | Bearing: | Bit Size: NQ

R.L. Site: | Depression: | Core Size:

Geologist: A.C. Johnston | Sampler: | Date Logged: 23/3/73

From '	To '	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
182'	194'10"				Quartzite; Medium grey, compact but has been highly fractured- fracture surfaces lined with very thin black graphitic slate.- permeated with random quartz stringers and pods which in turn cut across randomly orientated carbonate stringers (Siderite) Very minor disseminated pyrite associated with quartz/carbonate veining.			
194'10"	197'7"				Interbanded, fractured/brecciated quartzite and intensely sheared graphitic black slate, minor random quartz/carbonate veinlets.			
197'7"	221'8"				Slate; Black, graphitic, laminated and occasional thin bands of grey quartzite. Whole section highly sheared and disrupted appearance, i.e. laminations/quartzite bands highly contorted/broken and quartzite bands often brecciated and impregnated with pyrite. Fine, randomly orientated carbonate veinlets common throughout section and usually associated with minor			

930333

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

Project: EL 7/68 Co-ords. Collar: Drill: Longyear

Hole No: MzN6 Bearing: Bit Size: NQ

R.L. Site: Depression: Core Size:

Geologist: A.C. JOHNSTON Sampler: Date Logged: 23/3/73

From	To	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
		Section sampled 215'-220'			) pyrite.) abundant	Section 216'-217'7" carries pyrite, finely disseminated		
						and as randomly orientated network veinlets/pods; associated with minor		
						galena? and silver grey (pink tinge) mineral-arsenopyrite?; high degree of		
						tarnishing may indicate presence of pyrrhotite.		
221'8"	230'10"					Slate; black, graphitic, often finely		
						interbanded with grey quartzite giving coarsely laminated appearance. Particularly		
						interval (229'3"-230'10") Section 222'6"-225'6" permeated with		
						network fine pyrite/carbonate veinlets. Minor fine random pyrite veining throughout		
						remainder of section. Pyrite mineralization takes two forms a) fracture filling and		
						b) replacement, particularly W.RJ to quartzite b.angle 55°c/a-227'8".		
230'10"	241'1"					Quartzite; grey/dark grey; saccharoidal		
						texture, occasional thinly interbanded black graphitic slate- interval (235'-241'1"		
						fractured disrupted as reflected by the graphitic slate. Entire section		

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Drilling Record Sheets

Project: EL 7/68 Co-ords. Collar: Drill: Longyear

Hole No: MzN6 Bearing: Bit Size: NQ

R.L. Site: Depression: Core Size:

Geologist: A.C.Johnston Sampler: Date Logged:

From	To	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
		Sections sampled			permeated extensively with network dominantly			
		233'2"-243'2" (2x5' sections)			~~fine pyrite veinlets and associated minor~~ galena/sphalerite-usually associated quartz/			
					carbonate gangue-small bands of granular replacement pyrite within quartzite			
					occur at 233'4" (3" wide) and 237'7" (1" wide)			
					Sections sampled; 233'2" - 243'2" (2x5' sectio			
					bedding angle c/a 40°-233'.			
241'1"	260'				Slate, black, graphtic and thinly interbanded			
					with grey saccharoidal quartzite, generally			
					section is highly disrupted/brecciated and			
					commonly permeated with light brown carbonate			
					veinlets (siderite) carrying minor pyrite			
					and very minor sphalerite. Section (241'6"-			
					242'1") permeated with random pyrite veinlets.			
					Other mineralization:			
					241'6" - 1" wide pyrite veinlets angle 42°c/a.			
					242'1" - 1" wide Pb-As veinlet angle 40°c/a.			
260'	290'				Slate: Dark grey/black, graphitic laminated			
					with thin bands grey/dark grey sacchraoidal			
					quartzite generally disrupted throughout			

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

Project: EL 7/68 Co-ords. Collar: Drill: Longyear

Hole No: MzN6 Bearing: Bit Size:

R.L. Site: Depression: Core Size:

Geologist: A.C.Johnston Sampler: Date Logged: 23/3/73

From	To	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
					section but including sporadic brecciation.			small intervals Interval (265'2"-
					266'9") brecciated and white calcite carrying			infilled with pink- minor pyrite,
					sphalerite; throughout minor sphalerite pyrite			remainder of section associated with
					minor and as replacement			carbonate veining (Siderite) within the quartzite.
					Bedding angle to core			axis 45°-284'.
290'	302'11"				Similar to above; but			generally intensely
					disrupted and often brecciated. Minor pyrite/sphalerite to mineralization			
					throughout commonly associated with quartz/carbonate gangue-as at 294' and 292'0".			
					Bedding ∠ c/a 300'2" : 40°.			
302'11"	328'2"				Slate; black graphitic, finely laminated			
					with grey/dark grey quartzite bands. Only mildly and sporadically disrupted. Minor			
					random carbonate veining throughout usually			
					associated with minor sphalerite/pyrite mineralization. Bedding 322'9" ≈ 60° c/a.			

930336

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

7.

Project: EL 7/68 Co-ords. Collar: Drill: Longyear

Hole No: MzN6 Bearing: Bit Size: NQ

R.L. Site: Depression: Core Size:

Geologist: A.C. Johnston Sampler: Date Logged: 23/3/73

From	To	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
328'2"	350'9"							Quartzite; grey, saccharoidal, texture generally highly fractured/disrupted as evidenced by highly contorted thinly interbedded slate and brecciation. Section sampled. (328'2"-333'7")
		Section sampled 328'2"-333'2".						Section 328'2"-331'7" extensively permeated with network of pyrite rich quartz/carbonate veinlets-silver grey mineral associated with pyrite-arsenopyrite-pyrite also occurs as fine impregnations associated with the quartzite. Remainder of interval 328'2"-331'7" as above but to lesser extent.
350'9"	385'6"							Slate; black graphitic and finely laminated. Section 366'8"-385'6" thinly interbedded with grey quartzite giving coarsely laminated appearance. SECTIONS SAMPLED: a) 349'8"-354'8" b) 381'4"-386'4" Section (350'9"-352'6") highly contorted brecciated and extensively permeated with pyrite/arsenopyrite veinlets - pyrite/arsenopyrite also occurs, fine impregnations.

930337

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Drilling Record Sheets

8.

Project: EL 7/68 Co-ords. Collar: Drill: Longyear

Hole No: MzN6 Bearing: Bit Size: NQ

R.L. Site: Depression: Core Size:

Geologist: A.C. Johnston Sampler: Date Logged: 23/3/73

From	To	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
								Section (371'5" - 385'6") highly disrupted brecciated. Brecciation more pronounced in interval 381'7"-385'6" and here is associated with extensive network pyrite/arsenopyrite veinlets/blebs and also pyrite impregnation; Throughout remainder of interval;- moderately abundant randomly orientated pyrite veinlets. In all cases pyrite veinlets associated with quartz gangue and to a lesser extent carbonate and light green talc. Bedding 375'10"-50°c/a.
385'6"	398'2"							Quartzite; grey, saccharoidal texture, moderately abundant quartz and to lesser extent carbonate veining throughout. 1½" wide quartz vein 386' carries abundant sphalerite pyrite - 15° c/a.
398'2"	422'							Slate: black, graphitic thinly interbedded with quartzite bands giving coarsely laminated appearance. Only mildly disrupted throughout. Minor quartzite/carbonate random veinlets throughout. Bedding 60° c/a-403'2".

930338

GEOPHOTO RESOURCES CONSULTANTS

Drilling Record Sheets

Project: EL 7/68 Co-ords. Collar: Drill: Longyear

Hole No: MZn6 Bearing: Bit Size: NQ

R.L. Site: Depression: Core Size:

Geologist: A.C. Johnston Sampler: Date Logged: 23/3/73

From	To	Length Run	Length Core	% Rec.	Sludge Wt.	No.	Assay Value	Summary Geological Log
422'	423'				Dominantly quartzite; grey sacchradoidal texture; thinly interbedded with highly contorted/sheared black graphitic slate. 4" wide quartz/carbonate vein 422'9" very minor disseminated pyrite.			
					END OF HOLE D.D.H. MzN6			

930339

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007407 PROJECT No.: EL.7/68 - DDH.MNZ.4

LAB. SHEET No.: 1278/1 SAMPLE TYPE: CORE DATE: 14th March, 1973

SAMPLE No.	LAB. No.	Cu ppm	Pb %	Zn ppm	Ag ppm	Bi ppm	Sn %	Sb ppm	
METRES									
27.20- 28.56	73-C-710						0.1		
68.55- 69.83	73-C-711		0.78	325	38	30		300	
76.44- 77.58	73-C-712	220	2.3	2.2%	76			BLD	
84.43- 85.22	73-C-713		0.70	1.60%	22				
122.23-123.40	73-C-714		0.64	400	325	240	0.4		

METHODS: Cu, Pb, Zn, Ag by G.R.C. NO. 101
Bi by G.R.C.NO. 102 - Sn by G.R.C. NO. 5
Sb by G.R.C. NO.108

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Chief Chemist Roy W. Parker

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007408 PROJECT No.: EL.7/68 - DUNDAS - (DDH.MNZ # 5)

LAB. SHEET No.: 1285/1 SAMPLE TYPE: CORE DATE: 19th March, 1973

Recd 26/3

SAMPLE No.	LAB. No.	Cu ppm	Pb %	Zn %	Ag ppm	Bi ppm	As %	Sn ppm	Sb %
83'3- 88'0	73-C-715		0.30	1.20	15				
220'3-221'3	73-C-716		285 ppm	330 ppm	7				
221'3-222'2	73-C-717		0.32	270 ppm	25				
222'2-223'0	73-C-718		0.22	0.20	72		1.85		2.2
223'0-223'9	73-C-719	0.29%	0.58	0.60	78				3.6
223'9-224'6	73-C-720		0.34	1950 ppm	30	210	6.2		2.2
224'6-225'5	73-C-721	1100	0.45	1250 ppm	33			BLD	1.55
225'5-226'6	73-C-722		0.58	240 ppm	60		7.3		1.05
226'0-226'9	73-C-723		0.22	470 ppm	33	100			2.0
226'9-227'7	73-C-724		0.63	480 ppm	62		2.1	BLD	3.75
227'7-229'0	73-C-725		0.26	560 ppm	23				

DEPTH	SAMPLE NOS.	* Sn ppm
220'3-223'0	2-3-4	0.20%
223'0-226'6	5-6-7-8	1200ppm
226'0-229'0	9-10-11	1100ppm

NOTE: Recheck on DDH MNZ 4

		* Sn ppm %
122.23-123.40	73-C-714	0.88

METHODS: Cu, Pb, Zn, Ag by G.R.C. NO. 101
Bi by G.R.C.NO. 102
As by G.R.C. NO.103
Sn by G.R.C. NO. 5 & G.R.C. NO. 105 *
Sb by G.R.C. NO. 108

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Chief Chemist

Roy W. Godfrey

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007410 PROJECT No.: EL.7/68 - DUNDAS - DDH.MZN.3

LAB. SHEET No.: 1291/1 SAMPLE TYPE: DDH.CORE DATE: 27th March, 1973

SAMPLE No.	LAB. No.	Cu	Sn % Geochem	Sn % Assay
METRES				
44.95-46.45	73-C-1046	110	0.04%	305
46.8 -48.3	73-C-1047	340	0.06%	855

METHODS: Cu by G.R.C. NO. 101
Sn by G.R.C. NO. 5 & G.R.C. NO. 105

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Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 002616 PROJECT No.: EL.7/68 - DUNDAS - MONTEZUMA NORTH DDH.4

LAB. SHEET No.: 1292/1 SAMPLE TYPE: DDH.CORE DATE: 27th March, 1973

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Sb ppm	Bi ppm	Sn GEO. %	Sn ASSAY ppm
METRES									
113 -114	73-C-1031	40	1250	545	7	100	20	0.02	100
114 -115	73-C-1032	45	0.34%	290	13	100	10	BLD	75
115 -116	73-C-1033	20	500	305	3	BLD	10	0.02	75
116 -117	73-C-1034	15	220	65	2	100	15	0.06	200
117 -118	73-C-1035	25	155	245	3	100	BLD	0.04	75
118 -119	73-C-1036	45	1550	1400	6	100	BLD	0.04	285
119 -120	73-C-1037	45	1050	495	5	100	10	0.04	75
120 -121	73-C-1038	45	0.23%	380	12	150	10	0.03	235
121 -122	73-C-1039	20	140	60	6	100	15	0.03	210
122 -122.23	73-C-1040	10	90	40	3	BLD	10	0.03	265
122.23-123	73-C-1041	200	345	105	75	250	20	0.09	0.22%
123 -124	73-C-1042	45	250	140	14	100	20	0.08	0.12%
124 -125	73-C-1043	460	440	175	100	350	45	0.08	0.09%
125 -126	73-C-1044	1175	1900	130	150	1350	125	0.39	0.71%
126 -127	73-C-1045	1050	0.22%	125	125	1350	115	0.32	0.69%

Frank,

Note different results obtained for Sn by Geochem & Assay techniques. From these results and our experience it would appear the cut-off point is approximately 0.05% Sn, i.e. Geochem determinations with samples from EL.7/68 whose results are >0.05% must be considered suspect, i.e. will read low. The assay method will give the correct result.

Ray

METHODS: Cu, Pb, Zn, Ag by G.R.C. NO. 101
Bi by G.R.C. NO. 102
Sb by G.R.C. NO. 108
Sn by G.R.C. NO. 5 & G.R.C. NO. 105
BLD = Below limit of detection

This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

Ray W. [illegible]

Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007423 PROJECT No.: EL.7/68 - DUNDAS - DDH.MZN.6

LAB. SHEET No.: 1294/1 SAMPLE TYPE: CORE DATE: 3rd April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Sn %
233'2-238'2	73-D-1	110	0.04
238'2-243'2	73-D-2	170	0.03
328'2-333'2	73-D-3	95	0.03
215' - 217'	73-D-4	80	0.06
217' - 218'	73-D-5	1225	0.04
218' - 220'	73-D-6	140	0.03
349'8-354'8	73-D-7	60	0.06
* 381'4-382'10	73-D-8	75	0.24
382'10-384'10	73-D-9	45	0.09
384'10-386'4	73-D-10	140	0.08
162'6-166'6	73-D-11	50	0.03
119'5-119'9	73-D-12	20	0.03

* This sample if assayed would probably yield a Sn value of approx 0.5%.

METHODS: Cu by G.R.C. NO. 1
Sn by G.R.C. NO. 5

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 002628 PROJECT No.: EL.7/68 - MZN.4-5

LAB. SHEET No.: 1304/1 SAMPLE TYPE: CORE DATE: 12th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Sn %	Au ppm
1	73-C-710	25		
2	73-C-711	270	0.06	
3	73-C-712		0.02	
4	73-C-713	130	0.03	
5	73-C-714	0.30%		
1	73-C-715		0.02	
2	73-C-716	75		
3	73-C-717	400		
4	73-C-718	1040		
6	73-C-720	1000		BLD
8	73-C-722	80		BLD
9	73-C-723	75		
10	73-C-724	330		
11	73-C-725	255		

METHODS: Cu by GRC NO. 1
Sn by GRC NO. 5
Au by GRC NO. 122

REFER LAB SHEETS 1278/1
1285/1

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GEOCHEMICAL LABORATORY · REPORT

FIELD SHEET No.: 007430 PROJECT No.: EL.7/68 - MZN - DDH.5

LAB. SHEET No.: 1307/1 SAMPLE TYPE: DDH.CORE DATE: 12th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ag ppm	Sn %					
33'- 38'	73-D-538	40	2	0.03					
163'-168'	73-D-539	35	2	0.03					
192'-197'	73-D-540	55	2	0.02					
214'-216'	73-D-541	70	5	0.02					
216'-218'	73-D-542	50	2	0.04					
218'-219'	73-D-543	20	2	0.02					
219'-220'3"	73-D-544	60	3	0.03					
235'-240'	73-D-545	30	2	0.02					
315'-320'	73-D-546	10	8	0.03					
400'-405'	73-D-547	35	2	0.02					
420'-425'	73-D-548	20	2	0.02					

METHODS:
Cu, Ag by GRC NO. 1
Sn by GRC NO. 5

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007431 PROJECT No.: EL.7/68 - DUNDAS - MZN.DDH.4

LAB. SHEET No.: 1312/1 SAMPLE TYPE: DDH.CORE DATE: 12th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ag ppm	Sn %					
METRES									
24 - 25	73-D-602	25	2	0.03					
25 - 26	73-D-603	30	1	0.03					
26 - 27	73-D-604	10	2	0.02					
27 - 27.20	73-D-605	10	1	0.03					
28.56- 29	73-D-606	15	2	0.04					
29 - 31	73-D-607	20	2	0.02					
65 - 66	73-D-608	110	10	0.03					
66 - 67	73-D-609	820	25	0.03					
67 - 68.55	73-D-610	85	5	0.03					
69.83- 71	73-D-611	150	60	0.03					
71 - 73	73-D-612	135	45	0.03					
127 - 128	73-D-613	10	3	0.03					
128 - 129	73-D-614	15	1	0.03					
129 - 130	73-D-615	20	1	0.03					
130 - 132	73-D-616	10	1	0.03					
136 - 137	73-D-617	10	1	0.03					

METHODS: Cu, Ag by GRC NO. 1
Sn by GRC NO. 5

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007432 PROJECT No.: EL.7/68 - DUNDAS - MZN.DDH.4

LAB. SHEET No.: 1314/1 SAMPLE TYPE: DDH.CORE DATE: 16th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ag ppm	Sn %					
METRES									
63.4 -64.10	73-D-618	1350	65	BLD					
64.01-64.62	73-D-619	900	59	0.03					
64.62-65.23	73-D-620	50	10	0.02					

METHODS: Cu, Ag by CRC NO. 1
Sn by CRC NO. 5

BLD = Below limit of detection

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Chief Chemist

E.L. 7/68 Dundas · Drill Hole Mineralised Sections

	Montezuma North 3		Length ft		Width ft		Chemical Assay			Value		Host Rock		A.S.L.
								Data						Interv
1			From	To	Appr	True		Sn %						
2	Location: Montezuma													
3	47.5N/2.1E + 0.3S		147.5	152.4	4.9			0.4				graphitic bl.		
4												slate		1,956'
5	A.S.L. collar: 2,080' approx.		153.5	158.4	4.9			0.6				qtzite/slate		
6												(black)		1,952'
7	Azimuth: 255°T													
8														
9	Depression: 60°													
10														
11	Length: 449'													
12														
13	A.S.L. bottom: 1,732'													
14														
15	Year drilled: 1973													
16														
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OPERATING UNIT:

PREPARED BY: A.C.J.

DATE: 2.74

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	Montezuma North 4		Length ft		Width ft		Chemical Assay Data		Value		Host Rock		A.S.L. Interv.
			From	To	Appr	True	Sn%	Ag oz					
1	Location: Montezuma North												
2													
3													
4	47.5N + 4.1E + 3'S		401	416.7	15.7	11.9	0.36				Qzite, pl, gr.sl.		
5													1,753'
6	A.S.L. collar: 2,135'	or											
7			410.1	416.7	6.6	5.0	0.7	3.8			"	"	1,748'
8	Azimuth: 265°T												
9													
10	Depression: 75°												
11													
12	Length: 560'												
13													
14	A.S.L. bottom: 1,625'												
15													
16	Year drilled: 1973												
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OPERATING UNIT:

PREPARED BY: A.C.J.

DATE: 2.74

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E.[illegible] 7/68 Dundas Drill Hole Mineralized Sections

	Montezuma North 5		Length ft		Width ft		Chemical Assay	Data		Value		Host Rock		A.S.L. Interv
1	Location: Montezuma		From	To	Appr	True	Sn%							
2	North													
3	4.75N + 4.1E + 3'S		220.3	223	209	2.9	0.2					Bl.slate/		
4												qzite		1,929'
5	A.S.L. collar: 2,135'													
6														
7	Azimuth: 300°T													
8														
9	Depression: 70°													
10														
11	Length: 464'													
12														
13	A.S.L. bottom: 1,714'													
14														
15	Year drilled: 1973													
16														
17														
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OPERATING UNIT:

PREPARED BY: A.C.J.

DATE: 2.74

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	Montezuma North 6		Length ft		Width ft		Chemical Assay	Data		Value		Host Rock		A.S.L. Inters.
1			From	To	Appr	True	Sn%							
2	Location: Montezuma													
3	North													
4	47.5N + 4.1E + 3'S		381.3	382.8	1.5	1.5	0.24					bl.gr.		
5												slate		1,831'
6	A.S.L. collar: 2,135'													
7														
8	Azimuth: 220°T													
9														
10	Depression: 60°													
11														
12	Length: 423'													
13														
14	A.S.L. bottom: 1,805'													
15														
16	Year drilled: 1973													
17														
18														
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OPERATING UNIT:

PREPARED BY: A.C.J.

DATE: 2.74

93031

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Prospect 602

CSR LIMITED - MINERALS DIVISION

EXPLORATION GROUP

PAST EXPLORATION WITHIN THE AREA OF EXPLORATION LICENCE 15/76 DUNDAS - TASMANIA

VOLUME IV - Appendices XIII-XXIV EMR 188/82

HOBART
February 1983

P.D. ELLIS

930353

APPENDIX XIII

GEOPHOTO RESOURCES CONSULTANTS
HASSETT GRAVEL PIT
SOIL GEOCHEMISTRY

930354

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 001495 PROJECT No.: EL 7/68

LAB. SHEET No.: 291/1 SAMPLE TYPE: SOIL PROFILE DATE: 1st September, 1970.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Cr %
4N 800E	70-H-250	30	305	55	140	155	2	0.15
4N 810E	70-H-251	10	180	40	110	80	1	0.08
4N 820E	70-H-252	20	260	45	110	110	2	0.08
4N 830E	70-H-253	70	725	90	255	460	3	0.19
4N 840E	70-H-254	30	480	90	325	340	3	0.18
4N 850E	70-H-255	50	405	110	550	670	4	0.19
4N 860E	70-H-256	25	475	100	265	360	3	0.26
4N 870E	70-H-257	25	500	120	230	425	3	0.34
4N 880E	70-H-258	45	465	95	360	500	3	0.32
4N 890E	70-H-259	30	350	70	325	360	2	0.22
4N 900E	70-H-260	10	125	35	135	130	1	0.11
4N 910E	70-H-261	25	260	60	170	235	2	0.18
4N 920E	70-H-262	35	330	75	320	490	2	0.18
4N 930E	70-H-263	40	285	95	710	940	3	0.22
4N 940E	70-H-264	80	165	95	850	600	4	0.27
4N 950E	70-H-265	55	260	95	730	1080	3	0.19
4N 960E	70-H-266	85	260	165	1780	560	5	0.24
4N 970E	70-H-267	55	225	220	1880	245	3	0.29
4N 980E	70-H-268	340	260	120	705	650	6	0.20
4N 990E	70-H-269	35	150	65	370	480	3	0.18
4N 1000E	70-H-270	40	200	70	610	850	3	0.16
4N 1010E	70-H-271	60	220	95	1780	760	4	0.18
4N 1020E	70-H-272	110	285	130	2950	940	3	0.12
4N 1030E	70-H-273	50	290	160	1970	715	3	0.20
4N 1040E	70-H-274	65	875	860	2080	260	3	0.14
4N 1050E	70-H-275	65	470	135	1580	660	4	0.27
4N 1060E	70-H-276	40	225	85	690	740	3	0.27
4N 1070E	70-H-277	60	430	100	535	800	4	0.35
4N 1080E	70-H-278	55	360	95	1000	1545	5	0.25
4N 1090E	70-H-279	60	265	95	1780	940	4	0.18
4N 1100E	70-H-280	85	350	230	1970	1095	5	0.19
4N 1110E	70-H-281	145	500	205	3920	2000	7	0.10
4N 1120E	70-H-282	115	570	210	4310	6300	5	0.07
4N 1130E	70-H-283	120	435	170	3920	5500	3	0.10
4N 1140E	70-H-284	115	465	175	3340	1790	3	0.08
4N 1150E	70-H-285	120	530	165	3920	1980	4	0.08
4N 1160E	70-H-286	105	570	170	4420	5500	4	0.08
4N 1170E	70-H-287	165	750	210	5360	7000	7	0.08
4N 1180E	70-H-288	155	690	190	4730	6600	11	0.11
4N 1190E	70-H-289	65	590	185	4730	5900	10	0.10
4N 1200E	70-H-290	70	690	210	5150	6600	10	0.10
4N 1205E	70-H-291	90	325	140	1780	1040	5	0.13
4N 1210E	70-H-292	100	530	180	4220	1600	9	0.14
4N 1215E	70-H-293	70	465	190	5150	1920	4	0.11
4N 1220E	70-H-294	65	570	165	3340	1680	3	0.12
4N 1225E	70-H-295	S A M P L E				M I S S I N G		

METHODS:
Cu, Ni, Co, Pb, Zn, Ag, Cr, by GRC No. 1

B.L.D.= Below Limit of Detection

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Ray W. Hardgrave

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 001495/96 PROJECT No.: EL 7/68

LAB. SHEET No.: 391/2 SAMPLE TYPE: SOIL PROFILE DATE: 1st September, 1970.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Cr %
4N 1230E	70-H-296	65	360	180	4100	1020	3	0.12
4N 1235E	70-H-297	70	410	225	3160	1440	3	0.08
4N 1240E	70-H-298	115	475	190	5790	1770	4	0.10
4N 1245E	70-H-299	90	465	200	4000	1720	4	0.11
4N 1250E	70-H-300	90	590	295	2380	940	7	0.15
4N 1255E	70-H-301	60	500	260	2280	940	5	0.15
4N 1260E	70-H-302	70	530	225	2860	1000	7	0.21
4N 1265E	70-H-303	110	875	280	5150	1620	6	0.13
4N 1270E	70-H-304	70	375	220	2090	980	5	0.15
4N 1275E	70-H-305	55	315	160	1580	1010	4	0.14
4N 1280E	70-H-306	65	280	140	2480	910	5	0.11
4N 1285E	70-H-307	65	325	140	2180	1140	5	0.10
4N 1290E	70-H-308	55	255	110	1980	740	3	0.07
4N 1295E	70-H-309	45	160	105	1200	510	3	0.07
4N 1300E	70-H-310	45	205	100	1580	730	4	0.08
4N 1305E	70-H-311	40	175	60	600	650	3	0.08
4N 1310E	70-H-312	40	215	65	600	825	3	0.08
4N 1315E	70-H-313	35	265	70	600	770	3	0.07
4N 1320E	70-H-314	55	215	90	1000	1050	4	0.08
4N 1325E	70-H-315	75	260	95	1290	1260	4	0.10
4N 1330E	70-H-316	45	190	60	600	895	3	0.07
4N 1335E	70-H-317	35	170	55	490	625	3	0.05
4N 1340E	70-H-318	30	100	45	490	400	2	0.04
4N 1345E	70-H-319	65	110	65	800	535	3	0.04
4N 1350E	70-H-320	20	50	30	300	200	2	0.02
4N 1355E	70-H-321	35	180	45	205	245	2	0.04
4N 1360E	70-H-322	40	500	65	225	370	2	0.11
4N 1365E	70-H-323	40	330	55	275	425	2	0.05
4N 1370E	70-H-324	50	260	60	370	335	2	0.07
4N 1375E	70-H-325	55	165	60	780	735	4	0.07
4N 1380E	70-H-326	45	165	60	685	535	3	0.07
4N 1385E	70-H-327	65	160	75	1390	625	4	0.10
4N 1390E	70-H-328	80	295	85	1580	1155	4	0.07
4N 1395E	70-H-329	55	160	65	1200	690	4	0.06
4N 1400E	70-H-330	85	95	50	1090	360	3	0.03
4N 1405E	70-H-331	100	400	45	460	445	2	0.07
4N 1410E	70-H-332	25	30	25	230	110	1	0.01
4N 1415E	70-H-333	75	65	40	415	380	1	0.02
4N 1420E	70-H-334	105	85	60	890	670	3	0.03
4N 1425E	70-H-335	120	100	55	890	780	3	0.03
4N 1430E	70-H-336	150	70	60	690	560	3	0.07
4N 1435E	70-H-337	185	90	60	1000	650	3	0.06
4N 1440E	70-H-338	155	100	70	1000	625	3	0.07
4N 1445E	70-H-339	290	210	70	1200	870	3	0.08
4N 1450E	70-H-340	275	345	60	400	515	2	0.13
4N 1455E	70-H-341	345	375	65	520	400	2	0.10

METHODS:

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Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 001496 PROJECT No.: EL 7/68

LAB. SHEET No.: 391/3 SAMPLE TYPE: SOIL PROFILE DATE: 1st September, 1970.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Cr %
4N 1460E	70-H-342	300	215	70	1780	1390	3	0.05
4N 1465E	70-H-343	140	100	55	800	535	3	0.05
4N 1470E	70-H-344	50	95	30	800	360	2	0.03
4N 1475E	70-H-345	175	660	140	2950	680	3	0.04
4N 1480E	70-H-346	145	140	65	890	515	3	0.04
4N 1485E	70-H-347	110	235	85	5260	700	4	0.05
4N 1490E	70-H-348	70	85	35	690	235	2	0.03
4N 1495E	70-H-349	35	55	15	475	90	2	0.03

METHODS:

NATA

This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 001497 PROJECT No.: EL 7/68

LAB. SHEET No.: 391/4 SAMPLE TYPE: SOIL PROFILE DATE: 1st September, 1970.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Cr ppm
4N 1500E	70-H-350	35	80	25	490	130	2	330
4N 1505E	70-H-351	55	170	50	560	290	2	500
4N 1510E	70-H-352	40	170	45	400	220	4	250
4N 1515E	70-H-353	50	125	45	300	220	2	330
4N 1520E	70-H-354	70	150	55	370	220	2	150
4N 1525E	70-H-355	40	195	35	250	290	2	150
4N 1530E	70-H-356	50	220	50	420	270	2	150
4N 1535E	70-H-357	155	130	45	810	390	2	400
4N 1540E	70-H-358	80	145	50	665	335	3	330
4N 1545E	70-H-359	95	55	25	220	130	2	500
4N 1550E	70-H-360	95	135	45	600	310	3	500
4N 1555E	70-H-361	90	95	40	400	220	3	500
4N 1560E	70-H-362	70	65	25	500	120	2	330
4N 1565E	70-H-363	35	50	10	265	90	2	150
4N 1570E	70-H-364	30	40	10	240	40	2	150
4N 1575E	70-H-365	65	110	25	275	210	2	150
4N 1580E	70-H-366	15	60	10	200	40	2	330
4N 1585E	70-H-367	35	90	25	210	130	2	250
4N 1590E	70-H-368	80	55	20	440	130	2	130
4N 1595E	70-H-369	70	50	15	370	130	1	100
4N 1600E	70-H-370	55	65	20	440	270	2	150
4N 1610E	70-H-371	130	75	35	750	650	2	150
4N 1620E	70-H-372	110	135	50	1290	760	3	250
4N 1630E	70-H-373	135	120	60	5150	800	4	150
4N 1640E	70-H-374	135	140	30	2380	410	3	150
4N 1650E	70-H-375	135	160	40	610	680	2	400
4N 1660E	70-H-376	185	125	40	1580	490	4	250
4N 1670E	70-H-377	205	180	60	1400	680	3	150
4N 1680E	70-H-378	165	250	60	1000	1155	4	150
4N 1690E	70-H-379	250	265	80	900	1180	6	150
4N 1690E (dump sample)	70-H-380	245	265	185	600	1130	4	150
4N 1700E	70-H-381	5	15	5	25	5	BLD	150
4N 1710E	70-H-382	5	20	5	30	5	BLD	330
4N 1720E	70-H-383	5	10	BLD	25	5	BLD	150
4N 1730E	70-H-384	5	10	BLD	30	10	BLD	150
4N 1740E	70-H-385	5	10	BLD	45	5	BLD	150
4N 1750E	70-H-386	5	15	5	30	10	BLD	330
4N 1760E	70-H-387	5	15	BLD	30	5	BLD	150
4N 1770E	70-H-388	5	15	5	30	5	BLD	250
4N 1780E	70-H-389	5	10	5	30	5	BLD	150
4N 1790E	70-H-390	5	10	BLD	130	10	BLD	250
4N 1800E	70-H-391	5	10	BLD	25	5	BLD	150
4N 1810E	70-H-392	BLD	10	BLD	40	5	BLD	120
4N 1820E	70-H-393	10	20	BLD	30	10	BLD	400
4N 1830E	70-H-394	5	15	BLD	30	10	BLD	250

METHODS:

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Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 001497 PROJECT No.: EL. 7/68

LAB. SHEET No.: 391/5 SAMPLE TYPE: SOIL PROFILE DATE: 1st September, 1970.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Cr ppm
4N 1840E	70-H-395	S A M P L E			M I S S I N G			
4N 1850E	70-H-396	5	15	5	25	10	BLD	330
4N 1860E	70-H-397	5	15	BLD	25	10	BLD	330
4N 1870E	70-H-398	5	15	BLD	30	5	BLD	150
4N 1880E	70-H-399	5	10	5	40	10	BLD	150

METHODS:

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Chief Chemist Ray W. Ferguson

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 001498 PROJECT No.: EL. 7/68

LAB. SHEET No.: 391/6 SAMPLE TYPE: SOIL PROFILE DATE: 1st September, 1970.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Cr %
4N 1890E	70-H-500	10	20	BLD	30	10	BLD	0.03
4N 1900E	70-H-501	10	15	BLD	25	10	BLD	0.03
REC B1	70-H-502	60	690	60	130	335	1	0.22
REC B2	70-H-503	20	625	120	130	390	2	0.34
REC B3	70-H-504	40	500	105	120	200	2	0.38
REC B4	70-H-505	35	625	95	140	245	2	0.32
REC B5	70-H-506	60	750	95	180	310	3	0.35
REC B7	70-H-507	45	465	150	255	270	3	0.53
REC B9	70-H-508	5	75	30	35	110	1	1.24
REC B10	70-H-509	15	410	100	145	200	3	0.68
REC B11	70-H-510	5	35	15	20	65	BLD	0.63
REC B13	70-H-511	40	4080	240	750	7000	3	0.33
REC B14	70-H-512	35	1670	285	1480	960	1	0.35
REC B15	70-H-513	5	55	10	30	270	BLD	0.34
REC B16	70-H-514	5	40	15	20	180	BLD	1.01
REC B17	70-H-515	5	25	5	20	165	1	0.39
REC B18	70-H-516	95	780	55	335	390	2	0.50
REC B20	70-H-517	15	115	15	210	40	1	0.11
REC B21	70-H-518	5	10	5	60	10	BLD	0.01
REC B22	70-H-519	450	910	95	1680	570	4	0.30
REC B24	70-H-520	25	180	25	120	65	1	0.10
REC B25	70-H-521	10	40	15	50	20	1	0.03
REC B26	70-H-522	20	45	10	45	30	BLD	0.07
REC B52	70-H-523	265	410	35	120	145	2	0.01
REC B53	70-H-524	10	35	10	25	10	BLD	0.04
8N 1200E	70-H-525	10	1200	145	125	210	4	0.63
8N 1205E	70-H-526	10	950	140	180	220	3	0.68
8N 1210E	70-H-527	10	625	115	120	180	3	0.46
8N 1215E	70-H-528	15	410	90	110	155	3	0.35
8N 1220E	70-H-529	10	445	85	120	155	2	0.32
8N 1225E	70-H-530	20	560	100	135	220	3	0.47
8N 1230E	70-H-531	10	810	115	130	165	3	0.46
8N 1235E	70-H-532	10	875	125	160	270	4	0.54
8N 1240E	70-H-533	10	590	105	130	155	3	0.48
8N 1245E	70-H-534	10	750	115	150	220	3	0.51
8N 1250E	70-H-535	10	660	110	140	180	4	0.56
8N 1255E	70-H-536	10	875	115	150	160	4	0.49
8N 1260E	70-H-537	10	725	120	170	200	4	0.47
8N 1265E	70-H-538	5	810	110	160	180	3	0.41
8N 1270E	70-H-539	5	560	90	145	180	3	0.37
8N 1275E	70-H-540	5	365	70	110	110	2	0.22
8N 1280E	70-H-541	5	370	70	125	155	2	0.22
8N 1285E	70-H-542	10	450	95	180	270	3	0.35
8N 1290E	70-H-543	10	530	100	300	580	3	0.35
8N 1295E	70-H-544	10	625	110	190	280	3	0.46
8N 1300E	70-H-545	15	690	105	215	600	3	0.49

METHODS:

NATA

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Chief Chemist Ray W. Yerbury

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 001499 PROJECT No.: EL.7/68

LAB. SHEET No.: 391/7 SAMPLE TYPE: SOIL PROFILE & ROCK DATE: 1st. September, 1970.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Cr %
8N 1305E	70-H-546	15	590	110	220	380	3	0.52
8N 1310E	70-H-547	10	690	115	335	270	4	0.47
8N 1315E	70-H-548	15	590	110	235	310	3	0.54
8N 1320E	70-H-549	15	625	105	200	270	3	0.48
8N 1325E	70-H-550	10	690	110	245	290	3	0.45
8N 1330E	70-H-551	10	625	100	185	230	3	0.44
8N 1335E	70-H-552	10	465	75	140	180	2	0.26
8N 1340E	70-H-553	10	500	80	150	190	2	0.27
8N 1345E	70-H-554	10	750	80	150	220	3	0.35
8N 1350E	70-H-555	10	690	95	165	200	3	0.39
8N 1355E	70-H-556	5	660	90	140	200	3	0.37
8N 1360E	70-H-557	5	750	100	140	200	3	0.52
8N 1365E	70-H-558	10	810	110	125	230	4	0.61
8N 1370E	70-H-559	10	690	80	105	220	3	0.59
8N 1375E	70-H-560	15	875	80	110	270	3	0.61
8N 1380E	70-H-561	15	750	75	110	230	3	0.54
8N 1385E	70-H-562	20	625	70	115	220	3	0.62
8N 1390E	70-H-563	20	625	75	110	220	3	0.56
8N 1395E	70-H-564	15	450	55	100	140	3	0.37
8N 1400E	70-H-565	30	560	80	130	245	3	0.76
8N 1405E	70-H-566	30	440	65	110	190	3	0.73
8N 1410E	70-H-567	25	310	55	120	145	2	0.49
8N 1415E	70-H-568	40	400	80	115	190	3	0.49
8N 1420E	70-H-569	90	310	70	130	180	3	0.49
8N 1425E	70-H-570	70	440	90	210	255	3	0.51
8N 1430E	70-H-571	100	840	95	315	360	3	0.74
8N 1435E	70-H-572	95	2770	480	1390	940	4	0.69
8N 1440E	70-H-573	300	2070	1000	1880	850	3	0.57
8N 1445E	70-H-574	285	1200	420	1200	615	4	0.94

METHODS:

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Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: CO1500 PROJECT No.: EL 7/68 - DUNDAS HASSETS

LAB. SHEET No.: 410/1 SAMPLE TYPE: SOIL PROFILE DATE: 14th September, 1970.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Cr ppm
1450 E	70-H-575	315	3750	2375	800	1320	2	4800
1455 E	70-H-576	95	3200	1500	625	1360	3	3550
1460 E	70-H-577	20	4500	930	2300	1270	4	6950
1465 E	70-H-578	10	6250	390	800	1040	3	6250
1470 E	70-H-579	15	6750	290	1000	840	3	6900
1475 E	70-H-580	20	3200	205	285	525	3	7650
1480 E	70-H-581	20	2750	150	225	460	2	7100
1485 E	70-H-582	65	1500	175	800	350	2	7300
1490 E	70-H-583	65	1440	135	550	345	2	6300
1495 E	70-H-584	55	1220	130	545	330	3	6500
1500 E	70-H-585	40	900	100	550	275	2	5300
1505 E	70-H-586	25	415	65	350	170	2	3600
1510 E	70-H-587	25	690	75	180	205	3	4400
1515 E	70-H-588	35	540	120	390	290	3	7950
1520 E	70-H-589	30	640	125	360	305	2	7950
1525 E	70-H-590	35	1000	110	220	270	4	8150
1530 E	70-H-591	25	1130	110	210	270	3	7600
1535 E	70-H-592	25	1130	105	210	295	3	7100
1540 E	70-H-593	30	1130	115	350	305	2	8800
1545 E	70-H-594	25	870	90	250	240	2	5850
1550 E	70-H-595	25	765	80	210	230	2	5250
1555 E	70-H-596	35	610	75	205	230	2	4300
1560 E	70-H-597	20	510	70	175	235	2	1850
1565 E	70-H-598	15	165	35	115	100	1	3850
1570 E	70-H-599	20	415	70	195	310	2	5950
1575 E	70-H-600	25	685	85	205	290	2	5850
1580 E	70-H-601	20	605	80	215	285	2	6150
1585 E	70-H-602	25	520	80	180	245	2	4900
1590 E	70-H-603	20	410	90	480	465	6	5000
1595 E	70-H-604	50	390	80	370	570	5	4950
1600 E	70-H-605	45	600	85	280	455	4	4950
1605 E	70-H-606	40	470	85	290	340	3	3200
1610 E	70-H-607	150	280	90	330	640	3	3050
1615 E	70-H-608	120	515	100	500	1380	3	1550
1620 E-R	70-H-609	185	1100	130	1400	1170	3	530
1625 E	70-H-610	30	130	40	160	130	1	3250
1630 E	70-H-611	20	475	70	180	205	3	5425
1635 E	70-H-612	100	575	110	305	430	3	5200
1640 E	70-H-613	230	650	100	1100	780	3	1575
1645 E-R	70-H-614	2525	320	85	1.30%	3075	7	460
1650 E	70-H-615	250	340	110	2600	785	4	2550
1655 E	70-H-616	190	345	110	290	200	2	2250
1660 E	70-H-617	135	315	75	180	150	2	2000
1665 E	70-H-618	120	335	70	170	160	BLD	2000
1670 E	70-H-619	190	460	150	130	205	BLD	2250
1675 E	70-H-620	210	125	30	195	285	1	50

METHODS:

Cu, Ni, Co, Pb, Zn, Ag by GRC No. 1

Cr by GRC No. 5

B.L.D.= Below Limit of Detection

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Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 001500/ni PROJECT No.: EL. 7/68 - DUNDAS HASSETS

LAB. SHEET No.: 410/2 SAMPLE TYPE: SOIL PROFILE DATE: 14th September, 1970.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Cr ppm
1680 E	70-H-621	200	130	35	260	350	BLD	110
1685 E	70-H-622	10	20	BLD	70	15	BLD	80
1690 E	70-H-623	BLD	BLD	BLD	35	BLD	BLD	40
1695 E	70-H-624	2	5	BLD	55	10	BLD	220
1700 E	70-H-625	2	5	BLD	40	10	BLD	260
1705 E	70-H-626	2	BLD	BLD	40	10	BLD	360
1710 E	70-H-627	2	10	BLD	40	25	BLD	640
1715 E	70-H-628	5	5	BLD	60	10	BLD	110
1720 E	70-H-629	BLD	BLD	BLD	15	5	BLD	50
1725 E	70-H-630	BLD	BLD	BLD	20	5	BLD	90
1730 E	70-H-631	BLD	BLD	BLD	15	5	BLD	80
1735 E	70-H-632	BLD	BLD	BLD	15	5	BLD	50
1740 E	70-H-633	BLD	BLD	BLD	10	5	BLD	60
1745 E	70-H-634	BLD	BLD	BLD	15	5	BLD	30
1750 E	70-H-635	BLD	BLD	BLD	15	5	BLD	50
1755 E	70-H-636	BLD	BLD	BLD	10	5	BLD	50
1760 E	70-H-637	BLD	BLD	BLD	10	5	BLD	100
1765 E	70-H-638	BLD	BLD	BLD	15	5	BLD	90
1770 E	70-H-639	BLD	BLD	BLD	5	BLD	BLD	60
1775 E	70-H-640	5	5	BLD	10	BLD	BLD	110
1780 E	70-H-641	2	5	BLD	10	5	BLD	160
1785 E	70-H-642	BLD	BLD	BLD	10	BLD	BLD	60
1790 E	70-H-643	2	BLD	BLD	15	5	BLD	90
1795 E	70-H-644	5	BLD	BLD	10	BLD	BLD	70
1800 E	70-H-645	5	BLD	BLD	10	BLD	BLD	50

METHODS:

NATA

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Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 001405 PROJECT No.: EL.7/68 - DUNDAS HASSELT'S

LAB. SHEET No.: 431/1 SAMPLE TYPE: SOIL PROFILE DATE: 8th October, 1970.

SAMPLE No.	LAB. No.	Pt ppm
4N/800E	70-H-250	BLD
4N/810E	70-H-251	BLD
4N/820E	70-H-252	BLD
4N/830E	70-H-253	BLD
4N/840E	70-H-254	BLD
4N/850E	70-H-255	BLD
4N/860E	70-H-256	BLD
4N/870E	70-H-257	BLD
4N/880E	70-H-258	BLD
4N/890E	70-H-259	BLD
4N/900E	70-H-260	BLD
4N/910E	70-H-261	1.0
4N/920E	70-H-262	BLD
4N/930E	70-H-263	BLD
4N/940E	70-H-264	BLD
4N/950E	70-H-265	BLD
4N/960E	70-H-266	BLD
4N/970E	70-H-267	1.0
4N/980E	70-H-268	BLD
4N/990E	70-H-269	BLD
4N/1000E	70-H-270	BLD
4N/1010E	70-H-271	BLD
4N/1020E	70-H-272	BLD
4N/1030E	70-H-273	BLD
4N/1040E	70-H-274	BLD
4N/1050E	70-H-275	BLD
4N/1060E	70-H-276	BLD
4N/1070E	70-H-277	BLD
4N/1080E	70-H-278	BLD
4N/1090E	70-H-279	BLD
4N/1100E	70-H-280	BLD
4N/1110E	70-H-281	BLD
4N/1120E	70-H-282	BLD
4N/1130E	70-H-283	BLD
4N/1140E	70-H-284	BLD
4N/1150E	70-H-285	BLD
4N/1160E	70-H-286	BLD
4N/1170E	70-H-287	BLD
4N/1180E	70-H-288	BLD
4N/1190E	70-H-289	BLD
4N/1200E	70-H-290	BLD
4N/1205E	70-H-291	BLD
4N/1210E	70-H-292	BLD
4N/1215E	70-H-293	BLD
4N/1220E	70-H-294	BLD
4N/1225E	70-H-295	S A M P L E M I S S I N G

METHODS:

Pt by GRC No. 12
B.L.D.= Below Limit of Detection

Refer Lab. Sheet No. 391 for further analyses of these samples

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Chief Chemist. Ray W. Ferguson

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 001496 PROJECT No.: EL. 7/68 - DUNDAS - HASETTS

LAB. SHEET No.: 546/1 SAMPLE TYPE: Soil Prof. DATE: 3rd March, 1971.

SAMPLE No.	LAB. No.	Pt ppm
1250 E	70-H-300	BLD
1255 E	70-H-301	BLD
1260 E	70-H-302	BLD
1265 E	70-H-303	BLD
1270 E	70-H-304	BLD
1275 E	70-H-305	BLD
1280 E	70-H-306	BLD
1285 E	70-H-307	BLD
1290 E	70-H-308	BLD
1295 E	70-H-309	BLD
1300 E	70-H-310	BLD
1305 E	70-H-311	BLD
1310 E	70-H-312	BLD
1315 E	70-H-313	BLD
1320 E	70-H-314	BLD
1325 E	70-H-315	BLD
1330 E	70-H-316	BLD
1335 E	70-H-317	BLD
1340 E	70-H-318	BLD
1345 E	70-H-319	BLD
1350 E	70-H-320	BLD
1355 E	70-H-321	BLD
1360 E	70-H-322	BLD
1365 E	70-H-323	BLD
1370 E	70-H-324	BLD
1375 E	70-H-325	BLD
1380 E	70-H-326	1
1385 E	70-H-327	BLD
1390 E	70-H-328	1
1395 E	70-H-329	BLD
1400 E	70-H-330	BLD
1405 E	70-H-331	BLD
1410 E	70-H-332	BLD
1415 E	70-H-333	BLD
1420 E	70-H-334	BLD
1425 E	70-H-335	BLD
1430 E	70-H-336	BLD
1435 E	70-H-337	BLD
1440 E	70-H-338	BLD
1445 E	70-H-339	BLD
1450 E	70-H-340	BLD
1455 E	70-H-341	BLD
1460 E	70-H-342	1
1465 E	70-H-343	BLD
1470 E	70-H-344	2

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METHODS:
Pt by G.R.C. no. 12
B.L.D. = Below Limit of Detection
(REFER LAB. SHEET NO. 391/1-7)

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 001496/7 PROJECT No.: EL.7/68 - DUNDAS - HASSETTS

LAB. SHEET No.: 546/2 SAMPLE TYPE: Soil Prof. DATE: 3rd March, 1971.

SAMPLE No.	LAB. No.	Pt ppm
1475 E	70-H-345	BLD
1480 E	70-H-346	1
1485 E	70-H-347	BLD
1490 E	70-H-348	BLD
1495 E	70-H-349	1
1500 E	70-H-350	BLD
1505 E	70-H-351	BLD
1510 E	70-H-352	BLD
1515 E	70-H-353	1
1520 E	70-H-354	BLD
1525 E	70-H-355	BLD
1530 E	70-H-356	BLD
1535 E	70-H-357	BLD
1540 E	70-H-358	1
1545 E	70-H-359	BLD
1550 E	70-H-360	BLD
1555 E	70-H-361	1
1560 E	70-H-362	BLD
1565 E	70-H-363	1
1570 E	70-H-364	BLD
1575 E	70-H-365	BLD
1580 E	70-H-366	BLD
1585 E	70-H-367	BLD
1590 E	70-H-368	BLD
1595 E	70-H-369	BLD
1600 E	70-H-370	BLD
1610 E	70-H-371	BLD
1620 E	70-H-372	BLD
1630 E	70-H-373	BLD
1640 E	70-H-374	BLD
1650 E	70-H-375	BLD
1660 E	70-H-376	BLD
1670 E	70-H-377	BLD
1680 E	70-H-378	BLD
1690 E	70-H-379	BLD
1690 E (Dump Sampl.)	70-H-380	BLD
1700 E	70-H-381	BLD
1710 E	70-H-382	BLD
1720 E	70-H-383	BLD
1730 E	70-H-384	BLD
1740 E	70-H-385	BLD
1750 E	70-H-386	BLD
1760 E	70-H-387	BLD
1770 E	70-H-388	BLD
1780 E	70-H-389	BLD

METHODS:

REFER LAB. SHEET NO. 391/1-7

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 001497/98 PROJECT No.: EL.7/68 - DUNDAS - HASSETTS

LAB. SHEET No.: 546/3 SAMPLE TYPE: Soil Prof. DATE: 3rd March, 1971.

SAMPLE No.	LAB. No.	Pt ppm
1790 E	70-H-390	BLD
1800 E	70-H-391	BLD
1810 E	70-H-392	BLD
1820 E	70-H-393	BLD
1830 E	70-H-394	BLD
1840 E	70-H-395	SAMPLE MISSING
1850 E	70-H-396	BLD
1860 E	70-H-397	BLD
1870 E	70-H-398	BLD
1880 E	70-H-399	BLD
1890 E	70-H-500	BLD
1900 E	70-H-501	BLD
REC B1	70-H-502	BLD
REC B2	70-H-503	BLD
REC B3	70-H-504	BLD
REC B4	70-H-505	BLD
REC B5	70-H-506	BLD
REC B7	70-H-507	BLD
REC B9	70-H-508	1
REC B10	70-H-509	BLD
REC B11	70-H-510	BLD
REC B13	70-H-511	BLD
REC B14	70-H-512	1
REC B15	70-H-513	BLD
REC B16	70-H-514	BLD
REC B17	70-H-515	BLD
REC B18	70-H-516	BLD
REC B20	70-H-517	BLD
REC B21	70-H-518	BLD
REC B22	70-H-519	BLD
REC B24	70-H-520	BLD
REC B25	70-H-521	BLD
REC B26	70-H-522	BLD
REC B52	70-H-523	BLD
REC B53	70-H-524	BLD
1200E	70-H-525	BLD
1205E	70-H-526	BLD
1210E	70-H-527	BLD
1215E	70-H-528	BLD
1220E	70-H-529	1
1225E	70-H-530	1
1230E	70-H-531	1
1235E	70-H-532	1
1240E	70-H-533	1
1245E	70-H-534	1

METHODS:

REFER LAB. SHEET NO. 391/1-7

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 001498/99 PROJECT No.: EL.7/68 - DUNDAS - HASSETTS

LAB. SHEET No.: 546/4 SAMPLE TYPE: Soil Prof. DATE: 3rd March, 1971.

SAMPLE No.	LAB. No.	Pt ppm
1250E	70-H-535	1
1255E	70-H-536	1
1260E	70-H-537	1
1265E	70-H-538	1
1270E	70-H-539	1
1275E	70-H-540	1
1280E	70-H-541	BLD
1285E	70-H-542	BLD
1290E	70-H-543	BLD
1295E	70-H-544	BLD
1300E	70-H-545	BLD
1305E	70-H-546	BLD
1310E	70-H-547	BLD
1315E	70-H-548	BLD
1320E	70-H-549	BLD
1325E	70-H-550	BLD
1330E	70-H-551	BLD
1335E	70-H-552	BLD
1340E	70-H-553	BLD
1345E	70-H-554	BLD
1350E	70-H-555	BLD
1355E	70-H-556	BLD
1360E	70-H-557	BLD
1365E	70-H-558	BLD
1370E	70-H-559	BLD
1375E	70-H-560	BLD
1380E	70-H-561	BLD
1385E	70-H-562	BLD
1390E	70-H-563	BLD
1395E	70-H-564	BLD
1400E	70-H-565	BLD
1405E	70-H-566	BLD
1410E	70-H-567	BLD
1415E	70-H-568	BLD
1420E	70-H-569	BLD
1425E	70-H-570	BLD
1430E	70-H-571	BLD
1435E	70-H-572	BLD
1440E	70-H-573	BLD
1445E	70-H-574	BLD

METHODS:

REFER LAB. SHEET NO. 391/1-7

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 1500 PROJECT No.: EL.7/68 - DUNDAS - HASSETTS

LAB. SHEET No.: 546/5 SAMPLE TYPE: SOIL PROF. ROCK DATE: 3rd March, 1971.

SAMPLE No.	LAB. No.	Pt ppm
1450E	70-H-575	BLD
1455E	70-H-576	BLD
1460E	70-H-577	BLD
1465E	70-H-578	BLD
1470E	70-H-579	BLD
1475E	70-H-580	BLD
1480E	70-H-581	BLD
1485E	70-H-582	BLD
1490E	70-H-583	BLD
1495E	70-H-584	BLD
1500E	70-H-585	BLD
1505E	70-H-586	BLD
1510E	70-H-587	BLD
1515E	70-H-588	BLD
1520E	70-H-589	BLD
1525E	70-H-590	BLD
1530E	70-H-591	BLD
1535E	70-H-592	BLD
1540E	70-H-593	BLD
1545E	70-H-594	BLD
1550E	70-H-595	BLD
1555E	70-H-596	BLD
1560E	70-H-597	BLD
1565E	70-H-598	BLD
1570E	70-H-599	BLD
1575E	70-H-600	BLD
1580E	70-H-601	BLD
1585E	70-H-602	BLD
1590E	70-H-603	BLD
1595E	70-H-604	BLD
1600E	70-H-605	BLD
1605E	70-H-606	BLD
1610E	70-H-607	BLD
1615E	70-H-608	BLD
1620E-R	70-H-609	BLD
1625E	70-H-610	BLD
1630E	70-H-611	BLD
1635E	70-H-612	BLD
1640E	70-H-613	BLD
1645E-R	70-H-614	BLD
1650E	70-H-615	BLD
1655E	70-H-616	BLD
1660E	70-H-617	1
1665E	70-H-618	1
1670E	70-H-619	BLD
1675E	70-H-620	BLD

METHODS: REFER LAB. SHEET NO. 410/1-2

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 001500/01 PROJECT No.: EL. 7/68 - DUNDAS - HASSETTS

LAB. SHEET No.: 546/6 SAMPLE TYPE: SOIL PROF. ROCK DATE: 3rd March, 1971.

SAMPLE No.	LAB. No.	Pt ppm
1680E	70-H-621	BLD
1685E	70-H-622	BLD
1690E	70-H-623	BLD
1695E	70-H-624	BLD
1700E	70-H-625	BLD
1705E	70-H-626	BLD
1710E	70-H-627	1
1715E	70-H-628	BLD
1720E	70-H-629	BLD
1725E	70-H-630	BLD
1730E	70-H-631	BLD
1735E	70-H-632	BLD
1740E	70-H-633	BLD
1745E	70-H-634	BLD
1750E	70-H-635	BLD
1755E	70-H-636	BLD
1760E	70-H-637	BLD
1765E	70-H-638	BLD
1770E	70-H-639	BLD
1775E	70-H-640	BLD
1780E	70-H-641	BLD
1785E	70-H-642	BLD
1790E	70-H-643	BLD
1795E	70-H-644	BLD
1800E	70-H-645	BLD

METHODS:

NATA

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 001543 PROJECT No.: EL.7/68 - DUNDAS - HASSETT - N. COMET

LAB. SHEET No.: 637/2 SAMPLE TYPE: SOIL PROFILE DATE: 25th May, 1971.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm
7.5N + 0	71-D-1788	BLD	10	BLD	25	BLD	1
7.5N + 5W	71-D-1789	2	5	BLD	20	BLD	BLD
7.5N + 10W	71-D-1790	5	10	BLD	20	BLD	BLD
7.5N + 15W	71-D-1791	35	20	15	70	15	1
7.5N + 20W	71-D-1792	35	25	15	50	90	BLD
7.5N + 25W	71-D-1793	2	BLD	BLD	20	BLD	BLD
7.5N + 30W	71-D-1794	2	5	BLD	20	BLD	BLD
7.5N + 35W	71-D-1795	2	10	BLD	15	5	BLD
7.5N + 40W	71-D-1796	2	10	BLD	25	10	BLD
7.5N + 45W	71-D-1797	2	BLD	BLD	20	5	BLD
7.5N + 50W	71-D-1798	BLD	BLD	BLD	20	BLD	BLD
7.5N + 55W	71-D-1799	2	BLD	BLD	20	5	BLD
7.5N + 60W	71-D-1800	2	10	BLD	40	5	BLD
7.5N + 65W	71-D-1801	10	10	5	40	15	BLD
7.5N + 70W	71-D-1802	10	10	BLD	75	20	BLD
7.5N + 75W	71-D-1803	15	10	BLD	90	25	BLD
7.5N + 80W	71-D-1804	10	10	10	55	10	BLD
7.5N + 85W	71-D-1805	10	10	BLD	40	10	BLD
7.5N + 90W	71-D-1806	5	10	5	60	10	1
7.5N + 95W	71-D-1807	10	20	5	60	10	1
7.5N + 100W	71-D-1808	BLD	15	BLD	30	BLD	BLD
7.5N + 105W	71-D-1809	BLD	5	BLD	20	BLD	BLD
7.5N + 110W	71-D-1810	BLD	5	BLD	25	BLD	BLD
7.5N + 115W	71-D-1811	5	5	BLD	20	BLD	BLD
7.5N + 120W	71-D-1812	BLD	5	BLD	30	BLD	1
7.5N + 125W	71-D-1813	BLD	BLD	BLD	10	BLD	BLD
7.5N + 130W	71-D-1814	BLD	BLD	BLD	20	BLD	BLD
7.5N + 135W	71-D-1815	2	BLD	BLD	50	BLD	BLD
7.5N + 140W	71-D-1816	10	5	BLD	40	5	BLD
7.5N + 145W	71-D-1817	10	5	BLD	75	10	BLD
7.5N + 150W	71-D-1818	5	5	BLD	95	10	BLD
7.5N + 155W	71-D-1819	BLD	10	BLD	65	BLD	BLD
7.5N + 160W	71-D-1820	5	10	BLD	70	BLD	BLD
7.5N + 165W	71-D-1821	5	15	BLD	65	10	BLD
7.5N + 175W	71-D-1822	50	210	40	330	300	1
7.5N + 180W	71-D-1823	205	575	80	400	600	3
7.5N + 185W	71-D-1824	65	385	85	285	430	3
7.5N + 190W	71-D-1825	120	315	95	345	285	3
7.5N + 195W	71-D-1826	70	330	75	280	455	3
7.5N + 200W	71-D-1827	90	285	60	415	710	2
7.5N + 205W	71-D-1828	35	135	30	200	305	1
7.5N + 210W	71-D-1829	40	115	30	170	150	1
7.5N + 215W	71-D-1830	10	30	BLD	30	30	BLD
7.5N + 220W	71-D-1831	10	30	10	20	15	BLD
7.5N + 225W	71-D-1832	5	10	BLD	15	10	BLD
7.5N + 230W	71-D-1833	70	150	45	160	140	2

METHODS:
Cu, Ni, Co, Pb, Zn, Ag by G.R.C. No. 1
B.L.D. = Below Limit of Detection

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 001543 PROJECT No.: EL.7/68 - DUNDAS - HASSETT - N. COMET

LAB. SHEET No.: 637/3 SAMPLE TYPE: SOIL PROFILE DATE: 25th May, 1971.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
7.5N + 235W	71-D-1834	70	140	30	100	120	1		
7.5N + 240W	71-D-1835	80	125	35	130	115	1		
7.5N + 245W	71-D-1836	70	140	50	125	130	2		
7.5N + 250W	71-D-1837	75	60	20	80	75	1		
7.5N + 255W	71-D-1838	10	15	BLD	40	10	BLD		
7.5N + 260W	71-D-1839	15	25	5	20	10	BLD		
7.5N + 265W	71-D-1840	20	30	BLD	20	15	1		
7.5N + 270W	71-D-1841	95	175	35	85	130	1		
7.5N + 280W	71-D-1842	75	90	15	90	70	1		
7.5N + 285W	71-D-1843	90	160	25	70	110	1		
7.5N + 290W	71-D-1844	165	170	45	110	180	2		
7.5N + 295W	71-D-1845	185	270	40	100	210	2		
7.5N + 300W	71-D-1846	90	145	20	65	110	1		
7.5N + 305W	71-D-1847	190	205	30	90	190	1		
7.5N + 310W	71-D-1848	185	260	30	95	260	1		
7.5N + 315W	71-D-1849	500	305	50	130	360	1		
7.5N + 320W	71-D-1850	380	390	65	120	455	1		
7.5N + 325W	71-D-1851	355	375	55	120	460	2		
7.5N + 330W	71-D-1852	320	410	70	160	525	3		
7.5N + 335W	71-D-1853	170	255	35	100	345	1		
7.5N + 340W	71-D-1854	275	280	40	120	450	2		
7.5N + 345W	71-D-1855	205	345	50	100	355	2		
7.5N + 350W	71-D-1856	260	345	60	160	425	2		
7.5N + 355W	71-D-1857	355	310	55	190	480	2		
7.5N + 360W	71-D-1858	240	290	40	140	255	1		
7.5N + 365W	71-D-1859	240	280	60	130	280	1		
7.5N + 370W	71-D-1860	210	240	50	120	245	2		
7.5N + 380W	71-D-1861	210	260	60	120	275	2		
7.5N + 385W	71-D-1862	130	240	55	120	265	2		
7.5N + 390W	71-D-1863	175	215	60	140	280	2		
7.5N + 395W	71-D-1864	110	270	45	130	205	1		
7.5N + 400W	71-D-1865	150	190	50	155	380	1		
7.5N + 405W	71-D-1866	410	320	90	340	1425	4		
7.5N + 410W	71-D-1867	425	315	75	1150	2800	3		
7.5N + 415W	71-D-1868	215	285	85	725	1300	4		
7.5N + 420W	71-D-1869	160	245	70	230	495	2		
7.5N + 425W	71-D-1870	130	250	70	305	790	2		
7.5N + 430W	71-D-1871	130	255	80	260	850	2		
7.5N + 435W	71-D-1872	120	255	70	300	550	2		
7.5N + 440W	71-D-1873	160	290	80	295	510	3		
7.5N + 445W	71-D-1874	155	345	85	1000	1800	3		
7.5N + 450W	71-D-1875	145	250	195	1800	825	4		
7.5N + 455W	71-D-1876	190	395	170	2550	825	7		
7.5N + 460W	71-D-1877	230	235	220	2100	1450	3		
7.5N + 465W	71-D-1878	435	300	260	4800	1950	3		
7.5N + 470W	71-D-1879	190	325	180	1800	1450	2		

METHODS:

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 001544/5 PROJECT No.: EL.7/68 - DUNDAS

LAB. SHEET No.: 637/4 . SAMPLE TYPE: SOIL PROFILE DATE: 25th May, 1971.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
7.5N + 475W	71-D-1880	380	400	295	4000	2400	9		
7.5N + 480W	71-D-1881	175	265	285	1800	850	4		
7.5N + 485W	71-D-1882	140	240	240	950	510	2		
7.5N + 490W	71-D-1883	135	260	260	2400	735	4		
7.5N + 495W	71-D-1884	130	290	400	2950	770	4		
7.5N + 500W	71-D-1885	170	440	280	3800	2250	7		
7.5N + 505W	71-D-1886	185	395	255	3750	1650	5		
7.5N + 510W	71-D-1887	140	325	215	2250	925	4		
7.5N + 515W	71-D-1888	150	270	175	2800	850	4		
7.5N + 520W	71-D-1889	295	280	220	7550	1800	7		
7.5N + 525W	71-D-1890	155	240	145	2150	825	5		
7.5N + 530W	71-D-1891	285	665	305	3350	1450	16		
7.5N + 535W	71-D-1892	185	340	165	2800	850	6		
7.5N + 540W	71-D-1893	105	140	205	340	110	3		
7.5N + 545W	71-D-1894	120	150	190	440	140	3		
7.5N + 550W	71-D-1895	190	325	100	2100	2050	3		
7.5N + 555W	71-D-1896	220	330	170	3000	2000	4		
7.5N + 560W	71-D-1897	105	155	170	275	105	3		
7.5N + 565W	71-D-1898	95	155	170	170	70	2		
7.5N + 570W	71-D-1899	80	160	70	120	75	2		
7.5N + 580W	71-D-1900	65	155	60	90	70	2		
7.5N + 585W	71-D-1901	55	120	35	70	80	1		
7.5N + 590W	71-D-1902	45	120	50	65	75	2		
7.5N + 595W	71-D-1903	55	110	30	60	70	1		
7.5N + 600W	71-D-1904	60	105	30	60	70	1		
7.5N + 605W	71-D-1905	60	100	25	55	75	1		
7.5N + 610W	71-D-1906	70	100	25	60	70	1		
7.5N + 615W	71-D-1907	80	95	30	70	80	1		
7.5N + 620W	71-D-1908	70	100	20	75	55	1		
7.5N + 625W	71-D-1909	60	100	30	160	45	2		
7.5N + 630W	71-D-1910	60	115	25	80	45	2		
7.5N + 635W	71-D-1911	55	110	30	80	45	2		
7.5N + 640W	71-D-1912	50	105	30	95	50	1		
7.5N + 645W	71-D-1913	40	100	20	70	40	2		
7.5N + 650W	71-D-1914	50	100	30	80	30	1		
7.5N + 655W	71-D-1915	55	145	30	85	45	1		
7.5N + 660W	71-D-1916	40	95	25	70	40	1		
7.5N + 665W	71-D-1917	40	110	25	75	35	1		
7.5N + 670W	71-D-1918	40	70	20	65	25	1		
7.5N + 675W	71-D-1919	40	60	20	70	20	1		
7.5N + 680W	71-D-1920	40	50	15	70	20	1		
7.5N + 685W	71-D-1921	40	50	10	70	20	1		
7.5N + 690W	71-D-1922	40	50	20	55	15	1		
7.5N + 695W	71-D-1923	40	40	20	60	20	1		
7.5N + 700W	71-D-1924	45	80	20	60	30	1		
7.5N + 705W	71-D-1925	55	120	40	85	55	1		

METHODS:

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 001545/6 PROJECT No.: EL.7/68 - DUNDAS - HASSETT - N. COMET

LAB. SHEET No.: 637/5 SAMPLE TYPE: SOIL PROFILE DATE: 25th May, 1971.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
7.5N + 710W	71-D-1926	40	100	30	90	45	1		
7.5N + 715W	71-D-1927	45	110	35	100	40	1		
7.5N + 720W	71-D-1928	55	120	40	90	40	1		
7.5N + 725W	71-D-1929	50	110	30	80	30	1		
7.5N + 730W	71-D-1930	65	240	105	115	65	2		
7.5N + 735W	71-D-1931	60	140	45	100	45	2		
7.5N + 740W	71-D-1932	70	85	30	70	20	1		
7.5N + 745W	71-D-1933	70	90	25	75	25	1		
7.5N + 750W	71-D-1934	80	90	35	90	25	2		
10.5N+ 00	71-D-1935	2	10	BLD	45	10	BLD		
10.5N+ 5 W	71-D-1936	2	10	BLD	100	15	BLD		
10.5N+ 10W	71-D-1937	BLD	BLD	BLD	40	5	BLD		
10.5N+ 15W	71-D-1938	2	10	BLD	45	10	BLD		
10.5N+ 20W	71-D-1939	2	10	BLD	45	10	1		
10.5N+ 25W	71-D-1940	2	10	BLD	35	10	BLD		
10.5N+ 30W	71-D-1941	2	10	BLD	30	5	BLD		
10.5N+ 35W	71-D-1942	BLD	10	BLD	40	10	BLD		
10.5N+ 40W	71-D-1943	BLD	10	BLD	30	5	BLD		
10.5N+ 45W	71-D-1944	BLD	10	BLD	40	5	BLD		
10.5N+ 50W	71-D-1945	BLD	5	BLD	35	10	BLD		
10.5N+ 55W	71-D-1946	BLD	10	5	30	10	BLD		
10.5N+ 60W	71-D-1947	BLD	10	BLD	30	10	BLD		
10.5N+ 65W	71-D-1948	BLD	10	10	55	30	2		
10.5N+ 70W	71-D-1949	2	15	5	65	10	2		
10.5N+ 75W	71-D-1950	10	20	10	105	35	3		
10.5N+ 80W	71-D-1951	15	30	30	170	190	4		
10.5N+ 85W	71-D-1952	15	25	15	170	90	2		
10.5N+ 90W	71-D-1953	35	55	40	265	310	3		
10.5N+ 95W	71-D-1954	30	50	40	270	355	3		
10.5N+ 100W	71-D-1955	40	60	50	460	400	3		
10.5N+ 105W	71-D-1956	70	60	40	455	345	2		
10.5N+ 110W	71-D-1957	30	50	35	295	285	2		
10.5N+ 115W	71-D-1958	30	45	30	220	265	1		
10.5N+ 120W	71-D-1959	90	60	45	210	270	2		
10.5N+ 125W	71-D-1960	70	60	50	180	275	1		
10.5N+ 130W	71-D-1961	130	85	75	255	425	2		
10.5N+ 135W	71-D-1962	155	90	75	530	475	3		
10.5N+ 140W	71-D-1963	45	30	20	475	95	2		
10.5N+ 145W	71-D-1964	80	55	50	240	230	1		
10.5N+ 150W	71-D-1965	75	50	50	545	310	2		
10.5N+ 155W	71-D-1966	30	20	10	900	70	1		
10.5N+ 160W	71-D-1967	30	35	10	1050	125	2		
10.5N+ 165W	71-D-1968	25	45	10	1200	55	1		
10.5N+ 170W	71-D-1969	20	25	5	685	20	1		
10.5N+ 175W	71-D-1970	10	20	5	690	15	1		
10.5N+ 180W	71-D-1971	15	25	5	630	25	1		

METHODS:

NATA

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 001546/7 PROJECT No.: EL. 7/68 - DUNDAS - HASSETTS - N. COMET

LAB. SHEET No.: 637/6 SAMPLE TYPE: SOIL PROFILE DATE: 25th May, 1971.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
10.5N+ 185W	71-D-1972	10	15	BLD	355	10	BLD		
10.5N+ 190W	71-D-1973	BLD	10	BLD	330	5	1		
10.5N+ 195W	71-D-1974	5	10	BLD	320	5	BLD		
10.5N+ 200W	71-D-1975	5	10	BLD	240	5	BLD		
10.5N+ 205W	71-D-1976	5	10	BLD	200	BLD	BLD		
10.5N+ 210W	71-D-1977	5	20	BLD	140	BLD	1		
10.5N+ 215W	71-D-1978	2	30	5	85	10	BLD		
10.5N+ 220W	71-D-1979	BLD	30	BLD	80	5	1		
10.5N+ 225W	71-D-1980	2	20	BLD	205	10	BLD		
10.5N+ 230W	71-D-1981	40	125	30	190	110	1		
10.5N+ 235W	71-D-1982	85	310	65	250	230	3		
10.5N+ 240W	71-D-1983	70	200	60	235	245	2		
10.5N+ 245W	71-D-1984	60	245	50	200	190	2		
10.5N+ 250W	71-D-1985	50	185	60	180	205	2		
10.5N+ 255W	71-D-1986	45	260	55	170	185	2		
10.5N+ 260W	71-D-1987	45	170	50	180	120	2		
10.5N+ 265W	71-D-1988	95	510	80	185	300	3		
10.5N+ 270W	71-D-1989	60	485	80	180	180	3		
10.5N+ 275W	71-D-1990	75	345	80	175	170	3		
10.5N+ 280W	71-D-1991	70	330	65	180	190	3		
10.5N+ 285W	71-D-1992	45	220	55	185	130	2		
10.5N+ 290W	71-D-1993	35	140	40	195	120	1		
10.5N+ 295W	71-D-1994	60	275	75	240	300	3		
10.5N+ 300W	71-D-1995	80	465	60	245	780	2		
10.5N+ 305W	71-D-1996	80	250	70	270	490	3		
10.5N+ 310W	71-D-1997	80	320	75	275	385	2		
10.5N+ 315W	71-D-1998	65	270	80	240	300	3		
10.5N+ 320W	71-D-1999	90	300	85	520	550	3		
10.5N+ 325W	71-D-2000	100	570	90	490	650	3		
10.5N+ 330W	71-D-2001	125	420	80	280	435	3		
10.5N+ 335W	71-D-2002	65	290	75	450	670	3		
10.5N+ 340W	71-D-2003	50	205	45	230	405	1		
10.5N+ 345W	71-D-2004	190	815	90	340	735	2		
10.5N+ 350W	71-D-2005	90	500	90	310	595	3		
10.5N+ 355W	71-D-2006	155	730	100	295	650	3		
10.5N+ 360W	71-D-2007	70	400	90	350	585	3		
10.5N+ 365W	71-D-2008	65	490	95	455	900	3		
10.5N+ 370W	71-D-2009	80	410	90	630	1000	3		
10.5N+ 375W	71-D-2010	80	330	105	1600	1525	4		
10.5N+ 380W	71-D-2011	90	365	130	2750	1950	5		
10.5N+ 385W	71-D-2012	120	500	205	3400	2950	5		
10.5N+ 390W	71-D-2013	100	400	195	3300	2475	5		
10.5N+ 395W	71-D-2014	110	485	275	4650	2675	6		
10.5N+ 400W	71-D-2015	105	465	290	3850	2175	6		
10.5N+ 405W	71-D-2016	150	720	370	5550	3000	8		
10.5N+ 410W	71-D-2017	155	560	315	4250	2300	9		

METHODS:

NATA

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D Langhorne
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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 001547/8 PROJECT No.: EL.7/68 - DUNDAS

LAB. SHEET No.: 637/7 SAMPLE TYPE: SOIL PROFILE DATE: 25th May, 1971.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
10.5N+ 415W	71-D-2018	190	780	340	4650	2925	13		
10.5N+ 420W	71-D-2019	170	750	320	5300	3200	13		
10.5N+ 425W	71-D-2020	150	715	270	4500	2600	9		
10.5N+ 430W	71-D-2021	150	545	255	3300	2300	7		
10.5N+ 435W	71-D-2022	220	1125	260	3700	870	13		
10.5N+ 440W	71-D-2023	215	790	300	5300	2625	15		
10.5N+ 445W	71-D-2024	185	675	300	4550	2600	17		
10.5N+ 450W	71-D-2025	120	350	195	2450	1050	5		
10.5N+ 455W	71-D-2026	145	465	205	3000	1850	4		
10.5N+ 460W	71-D-2027	130	540	230	3850	2950	10		
10.5N+ 465W	71-D-2028	60	200	185	2450	620	4		
10.5N+ 470W	71-D-2029	50	190	165	2400	510	4		
10.5N+ 475W	71-D-2030	50	170	180	2750	535	2		
10.5N+ 480W	71-D-2031	75	380	295	5250	1825	4		
10.5N+ 485W	71-D-2032	115	430	370	5550	1650	5		
10.5N+ 490W	71-D-2033	50	210	225	3550	780	3		
10.5N+ 495W	71-D-2034	95	735	460	6900	1150	6		
10.5N+ 500W	71-D-2035	75	425	350	8100	2175	4		
10.5N+ 505W	71-D-2036	40	180	275	2300	445	2		
10.5N+ 510W	71-D-2037	125	565	440	6800	2400	9		
10.5N+ 515W	71-D-2038	70	315	315	3450	950	3		
10.5N+ 520W	71-D-2039	120	745	310	4800	2375	5		
10.5N+ 525W	71-D-2040	110	660	310	3800	1600	5		
10.5N+ 530W	71-D-2041	65	405	315	5400	1475	4		
10.5N+ 535W	71-D-2042	120	750	585	6200	1950	13		
10.5N+ 540W	71-D-2043	70	505	375	6200	1450	5		
10.5N+ 545W	71-D-2044	105	900	280	5150	2525	8		
10.5N+ 550W	71-D-2045	80	540	135	5500	2300	6		
10.5N+ 555W	71-D-2046	40	145	110	6050	1075	3		
10.5N+ 560W	71-D-2047	25	50	80	4100	435	2		
10.5N+ 565W	71-D-2048	30	85	80	3700	720	3		
10.5N+ 570W	71-D-2049	10	25	70	2050	85	1		
10.5N+ 575W	71-D-2050	15	40	105	1800	150	1		
10.5N+ 580W	7u-D-2051	10	30	35	745	160	1		
10.5N+ 585W	71-D-2052	50	170	165	1800	530	3		
10.5N+ 590W	71-D-2053	10	40	20	350	230	1		
10.5N+ 595W	71-D-2054	10	40	10	110	30	1		
10.5N+ 600W	71-D-2055	15	50	10	75	25	1		

METHODS:

NATA

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930376

APPENDIX XIV

GEOPHOTO RESOURCES CONSULTANTS
RAZORBACK GRID
SOIL GEOCHEMISTRY

930377

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 003563/4 PROJECT No. EL. 7/68 - DUNDAS RAZORBACK GRID (SOUTH)

LAB. SHEET No. 684/1 SAMPLE TYPE SOIL PROFILE DATE: 15th July, 1971

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Sn %
6 N + 300 W	71-F-750	BLD	10	5	15	170	BLD	0.04
6 N + 310 W	71-F-751	BLD	15	5	40	60	BLD	0.03
6 N + 320 W	71-F-752	BLD	15	5	75	50	BLD	0.03
6 N + 330 W	71-F-753	2	10	5	70	50	BLD	0.04
6 N + 340 W	71-F-754	BLD	10	5	15	65	BLD	0.04
6 N + 350 W	71-F-755	BLD	10	10	10	110	BLD	0.04
6 N + 360 W	71-F-756	BLD	10	10	5	100	BLD	0.08
6 N + 370 W	71-F-757	BLD	10	10	10	110	BLD	0.04
6 N + 380 W	71-F-758	BLD	15	15	10	275	BLD	BLD
6 N + 390 W	71-F-759	BLD	15	15	10	190	BLD	0.03
6 N + 400 W	71-F-760	BLD	10	10	5	110	BLD	0.04
6 N + 410 W	71-F-761	BLD	20	10	10	130	BLD	0.04
6 N + 420 W	71-F-762	BLD	15	10	5	100	BLD	0.04
6 N + 430 W	71-F-763	BLD	10	10	15	100	BLD	0.03
6 N + 440 W	71-F-764	BLD	15	10	20	80	BLD	0.03
6 N + 450 W	71-F-765	10	140	20	150	140	1	BLD
6 N + 460 W	71-F-766	BLD	35	15	55	120	BLD	0.03
6 N + 470 W	71-F-767	BLD	85	20	20	110	BLD	0.02
6 N + 480 W	71-F-768	BLD	15	10	5	65	BLD	0.03
6 N + 490 W	71-F-769	BLD	2325	90	55	335	1	0.03
6 N + 500 W	71-F-770	BLD	950	160	55	270	1	0.03
6 N + 510 W	71-F-771	2	240	70	55	180	1	0.03
6 N + 520 W	71-F-772	BLD	2125	80	165	410	1	0.03
6 N + 530 W	71-F-773	BLD	255	40	45	180	1	0.03
6 N + 540 W	71-F-774	BLD	130	80	70	170	1	BLD
6 N + 550 W	71-F-775	BLD	10	5	10	100	BLD	0.03
8 N + 400 W	71-F-776	BLD	10	20	15	100	BLD	0.02
8 N + 410 W	71-F-777	BLD	10	10	10	80	BLD	0.04
8 N + 420 W	71-F-778	BLD	5	BLD	5	10	BLD	0.02
8 N + 430 W	71-F-779	5	10	BLD	45	10	BLD	0.02
8 N + 440 W	71-F-780	40	20	5	10	20	BLD	0.02
8 N + 450 W	71-F-781	30	5	5	15	20	BLD	0.04
8 N + 460 W	71-F-782	15	10	BLD	25	10	BLD	0.03
8 N + 470 W	71-F-783	BLD	5	BLD	15	15	BLD	0.04
8 N + 480 W	71-F-784	BLD	BLD	BLD	5	25	BLD	0.06
8 N + 490 W	71-F-785	BLD	BLD	BLD	5	40	BLD	0.02
8 N + 500 W	71-F-786	BLD	5	BLD	5	30	BLD	0.04
8 N + 510 W	71-F-787	BLD	5	BLD	5	10	BLD	0.03
8 N + 520 W	71-F-788	BLD	BLD	BLD	25	25	BLD	0.02
8 N + 530 W	71-F-789	BLD	10	5	10	70	BLD	0.02
8 N + 540 W	71-F-790	BLD	5	BLD	5	15	BLD	0.03
8 N + 550 W	71-F-791	BLD	5	5	5	60	BLD	0.04
8 N + 560 W	71-F-792	BLD	10	BLD	5	25	BLD	0.02
8 N + 570 W	71-F-793	BLD	10	10	5	90	BLD	0.02
8 N + 580 W	71-F-794	BLD	50	15	15	95	BLD	BLD
8 N + 590 W	71-F-795	BLD	220	55	35	140	1	0.02

METHODS:

Cu, Ni, Co, Pb, Zn, Ag by G.R.C. No. 1
Sn by G.R.C. No. 5
B.L.D. = Below Limit of Detection

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Chief Chemist

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930378

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 003563/4 PROJECT No.: EL. 7/68 - DUNDAS RAZORBACK GRID (SOUT

LAB. SHEET No.: 684/2 SAMPLE TYPE: SOIL PROFILE DATE: 15th July, 1971.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Sn %
8 N + 600 W	71-F-796	BLD	345	70	55	190	1	BLD
8 N + 610 W	71-F-797	BLD	200	65	65	140	1	BLD
8 N + 620 W	71-F-798	2	510	120	65	235	2	BLD
8 N + 630 W	71-F-799	2	95	20	35	85	BLD	BLD
8 N + 640 W	71-F-800	BLD	20	15	10	55	BLD	0.03
8 N + 650 W	71-F-801	BLD	10	5	10	20	BLD	0.03
8 N + 660 W	71-F-802	BLD	25	15	5	60	BLD	0.02
8 N + 670 W	71-F-803	BLD	30	15	10	70	BLD	0.02
8 N + 680 W	71-F-804	BLD	30	20	15	80	BLD	0.02
8 N + 690 W	71-F-805	BLD	80	50	35	135	1	0.06
8 N + 700 W	71-F-806	5	190	110	105	200	1	0.04
8 N + 710 W	71-F-807	20	280	250	390	320	1	BLD
8 N + 720 W	71-F-808	20	215	100	195	260	1	BLD
8 N + 730 W	71-F-809	5	140	30	45	90	1	BLD
8 N + 740 W	71-F-810	BLD	45	15	20	60	BLD	0.03
8 N + 750 W	71-F-811	BLD	15	BLD	35	40	BLD	BLD
8 N + 760 W	71-F-812	10	90	20	35	80	1	BLD
8 N + 770 W	71-F-813	10	135	35	85	150	1	0.02
8 N + 780 W	71-F-814	20	345	45	65	250	2	BLD
8 N + 790 W	71-F-815	15	345	40	75	235	1	0.08
8 N + 800 W	71-F-816	BLD	40	10	25	65	BLD	0.04
8 N + 810 W	71-F-817	BLD	20	10	10	85	BLD	0.08
8 N + 820 W	71-F-818	BLD	10	5	5	60	BLD	0.02
8 N + 830 W	71-F-819	BLD	20	10	10	65	BLD	0.03
8 N + 840 W	71-F-820	BLD	45	10	25	65	BLD	0.03
8 N + 850 W	71-F-821	BLD	40	5	65	40	BLD	BLD
8 N + 860 W	71-F-822	5	170	10	110	100	BLD	0.03
8 N + 870 W	71-F-823	BLD	40	10	95	40	BLD	0.02
8 N + 880 W	71-F-824	10	145	20	195	110	1	0.03
8 N + 890 W	71-F-825	25	260	20	265	200	1	0.04
8 N + 900 W	71-F-826	30	330	50	395	220	1	0.03
8 N + 910 W	71-F-827	15	190	10	140	110	1	0.02
8 N + 920 W	71-F-828	25	70	20	355	115	BLD	0.03
8 N + 930 W	71-F-829	30	525	80	175	1950	2	BLD
8 N + 940 W	71-F-830	30	950	100	250	1175	1	BLD
8 N + 950 W	71-F-831	10	3500	270	205	2000	2	BLD
8 N + 960 W	71-F-832	BLD	1600	170	55	1450	2	0.02
8 N + 970 W	71-F-833	10	4700	400	75	1800	2	BLD
8 N + 980 W	71-F-834	25	3350	220	165	2650	3	0.03
8 N + 990 W	71-F-835	25	2850	210	165	2850	2	BLD
8 N + 1000 W	71-F-836	25	2300	555	315	2150	1	BLD
10N + 300 W	71-F-837	BLD	30	20	15	90	BLD	0.03
10N + 310 W	71-F-838	BLD	15	10	5	95	BLD	0.02
10N + 320 W	71-F-839	BLD	20	10	5	120	BLD	0.03
10N + 330 W	71-F-840	BLD	30	10	10	130	BLD	0.02
10N + 340 W	71-F-841	BLD	30	15	15	130	1	0.02

METHODS:

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930379

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 003564/65 PROJECT No.: EL.7/68 - DUNDAS RAZORBACK GRID (SO

LAB. SHEET No.: 684/3 SAMPLE TYPE: SOIL PROFILE DATE: 15th July, 1971

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Sn %
10N + 350 W	71-F-842	BLD	125	40	25	165	BLD	BLD
10N + 360 W	71-F-843	BLD	30	10	5	75	BLD	0.04
10N + 370 W	71-F-844	BLD	25	10	5	100	BLD	0.04
10N + 380 W	71-F-845	5	20	15	15	100	BLD	0.03
10N + 390 W	71-F-846	BLD	60	20	15	135	BLD	0.03
10N + 400 W	71-F-847	BLD	160	30	25	170	1	BLD
10N + 410 W	71-F-848	2	160	30	30	145	1	BLD
10N + 420 W	71-F-849	BLD	70	25	15	130	BLD	0.04
10N + 430 W	71-F-850	BLD	20	5	5	40	BLD	0.03
10N + 440 W	71-F-851	10	175	50	40	150	1	BLD
10N + 450 W	71-F-852	BLD	335	70	40	140	1	BLD
10N + 460 W	71-F-853	5	370	90	55	150	2	BLD
10N + 470 W	71-F-854	10	365	140	70	235	2	BLD
10N + 480 W	71-F-855	5	380	105	55	170	1	0.02
10N + 490 W	71-F-856	2	520	90	45	160	1	BLD
10N + 500 W	71-F-857	5	760	90	50	200	2	BLD
10N + 510 W	71-F-858	10	320	100	65	195	1	BLD
10N + 520 W	71-F-859	5	535	100	45	190	1	BLD
10N + 530 W	71-F-860	10	555	115	75	230	2	BLD
10N + 540 W	71-F-861	10	780	155	70	240	2	BLD
10N + 550 W	71-F-862	BLD	40	10	10	60	BLD	0.04
10N + 560 W	71-F-863	BLD	50	15	15	70	BLD	0.03
10N + 570 W	71-F-864	BLD	15	10	10	70	BLD	0.03
10N + 580 W	71-F-865	BLD	10	10	5	70	BLD	0.06
10N + 590 W	71-F-866	BLD	5	5	5	50	BLD	0.03
10N + 600 W	71-F-867	BLD	10	5	5	60	BLD	0.06
10N + 610 W	71-F-868	BLD	10	BLD	5	40	BLD	0.03
10N + 620 W	71-F-869	BLD	100	35	35	120	1	0.02
10N + 630 W	71-F-870	5	30	15	25	95	BLD	0.04
10N + 640 W	71-F-871	BLD	15	5	5	25	BLD	0.04
10N + 650 W	71-F-872	BLD	15	BLD	5	40	BLD	0.03
10N + 660 W	71-F-873	BLD	20	10	10	70	BLD	0.04
10N + 670 W	71-F-874	BLD	10	5	5	40	BLD	0.06
10N + 680 W	71-F-875	BLD	15	5	5	55	BLD	0.06
10N + 690 W	71-F-876	BLD	15	20	25	90	BLD	BLD
10N + 700 W	71-F-877	10	425	115	50	230	1	BLD
10N + 710 W	71-F-878	5	365	140	60	240	1	BLD
10N + 720 W	71-F-879	10	485	145	75	285	1	BLD
10N + 730 W	71-F-880	BLD	50	15	25	65	BLD	0.09
10N + 740 W	71-F-881	BLD	60	30	15	90	BLD	0.02
10N + 750 W	71-F-882	10	500	140	85	260	1	BLD
10N + 760 W	71-F-883	15	420	125	85	240	2	BLD
10N + 770 W	71-F-884	10	345	125	85	215	1	BLD
10N + 780 W	71-F-885	10	330	150	135	270	2	BLD
10N + 790 W	71-F-886	10	365	190	115	325	2	BLD

METHODS:

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Chief Chemist

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Appendix IV

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 003565/66 PROJECT No.: EL.7/68 - DUNDAS RAZORBACK GRID (S

LAB. SHEET No.: 684/4 SAMPLE TYPE: SOIL PROFILE DATE: 15th July, 1971.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Sn %
10N + 800 W	71-F-887	20	170	55	65	145	BLD	BLD
10N + 810 W	71-F-888	10	540	290	190	395	2	BLD
10N + 820 W	71-F-889	10	660	390	270	425	1	0.02
10N + 830 W	71-F-890	20	730	820	415	575	1	BLD
10N + 840 W	71-F-891	10	950	570	205	685	2	BLD
10N + 850 W	71-F-892	10	685	285	180	605	2	BLD
10N + 860 W	71-F-893	10	415	165	120	380	2	BLD
10N + 870 W	71-F-894	10	500	105	115	330	2	BLD
10N + 880 W	71-F-895	5	570	95	75	280	1	BLD
10N + 890 W	71-F-896	5	505	220	150	400	1	BLD
10N + 900 W	71-F-897	5	1525	450	110	410	2	BLD
10N + 910 W	71-F-898	10	900	150	95	700	2	BLD
10N + 920 W	71-F-899	10	1225	240	205	900	2	BLD
10N + 930 W	71-F-900	10	1300	150	140	1050	2	BLD
10N + 940 W	71-F-901	10	1225	130	135	925	2	BLD
10N + 950 W	71-F-902	10	1050	140	95	950	2	BLD
10N + 960 W	71-F-903	10	655	90	65	575	2	BLD
10N + 970 W	71-F-904	10	1000	120	70	775	2	BLD
10N + 980 W	71-F-905	5	710	100	65	585	2	BLD
10N + 990 W	71-F-906	5	675	70	55	710	2	BLD
10N + 1000W	71-F-907	10	570	85	95	725	2	BLD

METHODS:

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 006882 PROJECT No.: EL7/68 Dundas Razorback Grid..

LAB. SHEET No.: 791/ 1 SAMPLE TYPE: Soil Profile DATE: 1/10/71.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm			
12N-1150 W	71-H-4531	10	720	100	470	2			
1160	2	15	745	190	505	3			
1170	3	35	145	120	255	1			
1180	4	20	135	100	110	1			
1190	5	10	50	40	60	BLD			
1200	6	10	30	50	45	BLD			
1210	7	BLD	35	10	30	BLD			
1220	8	BLD	5	25	10	BLD			
1230	9	5	10	65	25	BLD			
1240	40	BLD	5	140	30	BLD			
1250	1	5	10	30	20	BLD			
1260	2	5	10	55	30	BLD			
1270	3	30	60	60	160	BLD			
1280	4	BLD	100	35	95	BLD			
1290	5	20	610	150	595	3			
1300	6	30	1000	400	545	2			
1310	7	15	650	110	555	3			
1320	8	20	610	130	515	2			
1330	9	20	790	185	520	2			
1340	4550	20	570	80	465	2			
1350	1	30	660	125	600	2			
1360	2	40	620	170	650	2			
1370	3	30	355	185	425	1			
1380	4	30	390	270	350	2			
1390	5	15	80	140	140	1			
1400	6	10	35	45	80	BLD			
1410	7	20	50	150	65	1			
1420	8	10	50	60	30	1			
1430	9	5	30	30	50	BLD			
1440	4560	20	50	110	65	1			
1450	1	20	50	85	100	BLD			
1460	2	10	20	20	45	BLD			
1470	3	15	260	125	120	1			
1480	4	35	620	60	60	1			
1490	5	20	4150	30	670	1			
1500	6	5	50	65	50	BLD			
1510	7	20	40	160	65	1			
1520	8	20	35	1050	85	3			
1530	9	35	20	660	140	3			
1540	4570	55	15	3000	145	12			
1550	1	535	45	3.85%	3550	90			
1560	2	520	55	3.20%	4350	75			
12N - 1570W	3	75	50	3900	950	10			

METHODS:

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 006883 PROJECT No.: EL7/68 Dundas Razorback Grid

LAB. SHEET No.: 791/2 SAMPLE TYPE: Soil Profile DATE: 1/10/71.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
6N - 560W	71-H-4574	BLD	330	120	190	2
570	5	10	170	140	190	1
580	6	10	160	110	230	1
590	7	5	500	75	240	2
600	8	2	210	40	210	1
610	9	BLD	20	10	50	BLD
620	4580	BLD	15	5	95	BLD
630	1	BLD	10	20	45	BLD
640	2	5	10	45	40	BLD
650	3	BLD	5	20	30	BLD
660	4	BLD	5	90	10	BLD
670	5	10	BLD	80	10	BLD
680	6	5	BLD	115	10	BLD
690	7	2	5	70	30	BLD
700	8	30	5	30	20	BLD
710	9	BLD	5	25	40	BLD
720	4590	10	5	90	40	BLD
730	1	5	5	25	40	BLD
740	2	BLD	BLD	10	10	BLD
750	3	BLD	BLD	25	20	BLD
760	4	BLD	BLD	15	10	BLD
770	5	10	10	70	50	BLD
780	6	5	20	35	150	BLD
790	7	20	30	110	215	1
800	8	10	70	60	310	BLD
810	9	5	20	65	25	BLD
820	4600	55	190	160	240	1
830	1	35	1650	180	1675	1
840	2	50	1025	310	1050	1
850	3	110	740	290	425	2
860	4	20	150	75	130	1
870	5	65	475	160	310	2
880	6	50	210	125	210	1
890	7	40	120	100	160	1
900	8	50	215	130	240	1
910	9	65	435	130	280	1
920	10	50	660	175	340	1
930	11	25	100	70	140	BLD
940	12	70	400	240	280	2
950	13	25	25	70	30	1
960	14	10	20	45	20	1
970	15	5	20	35	15	1
980	16	BLD	15	30	10	1
990	17	10	15	45	20	1
6N - 1000W	18	BLD	10	20	10	1

METHODS: Cu Ni Pb Zn Ag by GRCl.

BLD- below limit of detection.

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Chief Chemist Ray W. Ford

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 006884 PROJECT No.: EL7/68 Dundas Razorback Grid

LAB. SHEET No.: 791/3 SAMPLE TYPE: Soil Profile DATE: 1/10/71.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
6.6N-1000W	71-H-4619	50	230	360	255	1
1010	4620	50	130	445	170	1
1020	1	60	160	440	210	1
1030	2	10	15	55	20	BLD
1040	3	BLD	10	25	10	BLD
1050	4	2	10	20	10	BLD
1060	5	BLD	5	20	10	BLD
1070	6	5	10	25	10	BLD
1080	7	10	20	30	10	BLD
1090	8	BLD	10	25	10	BLD
1100	9	10	10	30	10	BLD
1110	4630	10	15	50	10	BLD
1120	1	10	15	45	10	BLD
1130	2	10	15	40	15	1
1140	3	10	15	40	10	BLD
1150	4	20	30	40	40	BLD
1160	5	5	10	30	10	BLD
1170	6	10	10	50	10	BLD
1180	7	5	10	30	10	BLD
1190	8	2	10	20	10	BLD
6.6N-1200W	9	BLD	5	10	5	BLD

METHODS:

Cu Ni Pb Zn Ag by GRCl.

BLD - below limit of detection.

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Chief Chemist

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 006885 • PROJECT No.: EL7/68 Dundas Razorback Grid

LAB. SHEET No.: 791/5 SAMPLE TYPE: Soil Profile DATE: 1/10/71.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
8-6N-1410	71-H-4681	BLD	5	10	5	BLD
1420	2	BLD	5	BLD	5	BLD
1430	3	BLD	BLD	5	BLD	BLD
1440	4	BLD	BLD	5	5	BLD
1450	5	BLD	BLD	5	5	BLD
1460	6	BLD	BLD	15	10	BLD
1470	7	BLD	BLD	10	5	BLD
1480	8	BLD	BLD	10	2	BLD
1490	9	BLD	BLD	10	5	BLD
8-6N-1500W	4690	BLD	BLD	10	5	BLD

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 006885 PROJECT No. EL7/68 Dundas Razorback Grid

LAB. SHEET No.: 791/4 SAMPLE TYPE: Soil Profile DATE: 1/10/71.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
8.6N-1000W	71-H-4640	20	595	250	565	1
1010	1	35	1150	245	1075	2
1020	2	20	460	200	570	1
1030	3	10	90	500	145	BLD
1040	4	35	750	290	650	1
1050	5	20	20	140	30	BLD
1060	6	10	15	50	30	BLD
1070	7	5	10	10	20	BLD
1080	8	15	20	25	35	BLD
1090	9	10	40	150	140	BLD
1100	4650	20	25	100	70	BLD
1110	1	50	20	40	40	BLD
1120	2	BLD	5	40	20	BLD
1130	3	15	35	60	85	BLD
1140	4	BLD	10	50	10	BLD
1150	5	10	10	50	10	BLD
1160	6	BLD	BLD	20	10	BLD
1170	7	BLD	10	20	5	BLD
1180	8	5	10	15	10	BLD
1190	9	65	575	35	480	1
1200	4660	25	140	90	90	1
1210	1	35	160	165	300	1
1220	2	5	10	20	15	BLD
1230	3	40	210	260	150	1
1240	4	70	530	480	335	2
1250	5	60	285	250	270	1
1260	6	55	290	285	240	1
1270	7	90	800	700	470	2
1280	8	50	315	345	320	1
1290	9	35	180	250	300	1
1300	70	140	595	160	390	1
1310	1	15	30	20	30	BLD
1320	2	BLD	15	10	20	BLD
1330	3	10	20	10	25	BLD
1340	4	2	10	10	10	BLD
1350	5	BLD	5	15	10	BLD
1360	6	BLD	BLD	5	10	BLD
1370	7	BLD	10	10	10	BLD
1380	8	BLD	5	10	10	BLD
1390	9	BLD	10	10	15	BLD
1400	80	BLD	25	10	10	BLD

930385

APPENDIX XV

GEOPHOTO RESOURCES CONSULTANTS
PLATT GRID
SOIL GEOCHEMISTRY

930386

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007575 PROJECT No.: EL.7/68 - DUNDAS PLATT GRID

LAB. SHEET No.: 817/1 SAMPLE TYPE: SOIL PROFILE DATE: 26th October, 1971.

SAMPLE No.	LAB. No.	Ni ppm	Pb ppm	Zn ppm	Ag ppm	Cr ppm	Sn %		
2S/00'	71-K-161	90	5450	890	5	55	0.02		
2S/10'E	71-K-162	145	7200	1280	5	90	.02		
2S/20'	71-K-163	120	8500	1410	9	80	.02		
2S/30'	71-K-164	195	1.07%	1900	7	70	BLD		
2S/40'	71-K-165	150	8650	1460	6	60	BLD		
2S/50'	71-K-166	120	1.27%	1800	5	50	.02		
2S/60'	71-K-167	150	8500	2000	6	50	.03		
2S/70'	71-K-168	200	4850	2300	9	70	.02		
2S/80'	71-K-169	260	6250	3200	12	70	.02		
2S/90'	71-K-170	120	4200	1440	9	100	.02		
2S/100'	71-K-171	140	765	725	5	40	.02		
2S/110'	71-K-172	110	85	290	2	25	.02		
2S/120'	71-K-173	140	60	375	1	35	.02		
2S/130'	71-K-174	145	65	160	1	35	.03		
2S/140'	71-K-175	75	270	620	2	120	.04		
2S/150'	71-K-176	130	8750	1410	28	30	.02		
2S/160'	71-K-177	220	5100	3000	17	55	BLD		
2S/170'	71-K-178	295	3850	2900	10	55	BLD		
2S/180'	71-K-179	160	7750	1100	20	50	.03		
2S/190'	71-K-180	650	4400	2700	23	15	BLD		
2S/200'	71-K-181	305	2000	2000	25	40	.02		
2S/210'	71-K-182	220	4450	1280	19	25	.02		
2S/220'	71-K-183	185	3600	1200	13	40	.03		
2S/230'	71-K-184	415	6150	2900	49	30	.03		
2S/240'	71-K-185	550	5750	3500	30	50	.03		
2S/250'	71-K-186	200	2200	2100	13	10	.02		
2S/260'	71-K-187	70	1950	630	6	10	.02		
2S/270'	71-K-188	95	1900	570	7	15	.02		
2S/280'	71-K-189	70	1950	530	3	10	.03		
2S/290'	71-K-190	50	1550	320	2	15	.03		
2S/300'	71-K-191	70	1000	345	3	10	.04		
2S/310'	71-K-192	75	1500	400	2	5	.04		
2S/320'	71-K-193	170	1.01%	1600	7	15	BLD		
2S/330'	71-K-194	40	2750	665	2	10	.02		
2S/340'	71-K-195	110	1950	630	3	25	.02		
2S/350'	71-K-196	40	900	330	2	10	.04		
2S/360'	71-K-197	95	3200	340	5	10	.02		
2S/370'	71-K-198	25	200	120	1	20	.04		
2S/380'	71-K-199	35	140	200	1	15	.03		
2S/390'	71-K-200	15	60	50	1	20	.03		
2S/400'	71-K-201	10	45	25	1	15	.04		
2S/410'	71-K-202	10	70	20	1	20	.06		
2S/420'	71-K-203	5	95	10	1	25	.03		
2S/430'	71-K-204	5	110	20	1	10	.04		
2S/440'	71-K-205	BLD	110	2	1	10	.04		
2S/450'	71-K-206	BLD	40	10	BLD	30	.04		

METHODS:

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Ni, Pb, Zn, Ag by G.R.C. No. 1
Cr by G.R.C. No. 6
Sn by G.R.C. No. 5
B.L.D. = Below Limit of Detection

Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007575/6 PROJECT No. EL.7/68 - DUNDAS PLATT GRID

LAB. SHEET No.: 817/2 SAMPLE TYPE: SOIL PROFILE DATE: 26th October, 1971

SAMPLE No.	LAB. No.	Ni ppm	Pb ppm	Zn ppm	Ag ppm	Cr ppm	Sn %		
2S/460'	71-K-207	BLD	50	10	BLD	15	.03		
2S/470'	71-K-208	BLD	50	5	1	10	.06		
2S/480'	71-K-209	5	110	10	1	15	.03		
2S/490'E	71-K-210	5	155	10	1	20	.06		
2S/500'E	71-K-211	5	65	10	1	10	.04		
2S/510'	71-K-212	5	40	10	BLD	10	.06		
2S/520'	71-K-213	5	40	5	1	10	.04		
2S/530'	71-K-214	5	15	10	1	10	.04		
2S/540'	71-K-215	BLD	30	10	BLD	25	.06		
2S/550'	71-K-216	BLD	10	BLD	BLD	BLD	.06		
2S/560'	71-K-217	BLD	10	10	BLD	20	.06		
2S/570'	71-K-218	BLD	10	BLD	BLD	10	.04		
2S/580'	71-K-219	BLD	15	10	BLD	30	.04		
2S/590'	71-K-220	BLD	15	BLD	BLD	20	.04		
2S/600'	71-K-221	BLD	5	2	1	25	.04		
2S/610'	71-K-222	BLD	10	BLD	BLD	15	.04		
2S/620'	71-K-223	BLD	15	BLD	BLD	15	.03		
2S/630'	71-K-224	BLD	10	10	BLD	40	.02		
2S/640'	71-K-225	BLD	10	BLD	BLD	30	.03		
2S/650'	71-K-226	BLD	BLD	BLD	BLD	20	.04		
2S/660'	71-K-227	BLD	90	BLD	3	10	.04		
2S/670'	71-K-228	BLD	10	BLD	1	30	.03		
2S/680'	71-K-229	BLD	BLD	BLD	1	10	.04		
2S/690'	71-K-230	BLD	10	BLD	BLD	10	.04		
2S/700'	71-K-231	BLD	10	10	BLD	10	.02		
2S/710'	71-K-232	BLD	BLD	BLD	BLD	10	.04		
2S/720'	71-K-233	BLD	10	5	BLD	20	.04		
2S/730'	71-K-234	BLD	10	BLD	BLD	10	.04		
2S/740'	71-K-235	BLD	20	10	BLD	45	.06		
2S/750'	71-K-236	BLD	25	15	BLD	40	.02		
2S/760'	71-K-237	BLD	30	20	BLD	30	.04		
2S/770'	71-K-238	BLD	10	10	BLD	25	.06		
2S/780'	71-K-239	BLD	10	10	BLD	45	.06		
2S/790'	71-K-240	BLD	BLD	BLD	BLD	25	.04		
2S/800'E	71-K-241	BLD	BLD	BLD	BLD	50	.04		
2S/810'	71-K-242	BLD	BLD	10	BLD	55	.06		
2S/820'	71-K-243	BLD	70	20	BLD	20	.04		
2S/830'	71-K-244	BLD	BLD	5	BLD	10	.04		
2S/840'	71-K-245	BLD	10	5	BLD	45	.04		
2S/850'	71-K-246	BLD	BLD	BLD	BLD	40	.03		
2S/860'	71-K-247	BLD	BLD	10	BLD	30	.03		
2S/870'	71-K-248	BLD	BLD	5	BLD	30	.03		
2S/880'	71-K-249	BLD	10	10	BLD	50	.03		
2S/890'	71-K-250	BLD	10	10	BLD	20	.06		
2S/900'	71-K-251	BLD	BLD	BLD	1	25	.03		
4S/00'	71-K-252	180	7950	1800	19	20	.02		

METHODS:

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Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007577 PROJECT No.: EL.7/68 - DUNDAS - PLATT GRID

LAB. SHEET No.: 817/3 SAMPLE TYPE: SOIL PROFILE DATE: 26th October, 197

SAMPLE No.	LAB. No.	Ni ppm	Pb ppm	Zn ppm	Ag ppm	Cr ppm	Sn %		
4S/10'E	71-K-253	175	7550	3200	19	70	.02		
4S/20'	71-K-254	310	1.01%	8400	21	205	BLD		
4S/30'	71-K-255	1050	2500	3200	80	325	BLD		
4S/40'	71-K-256	610	8300	2700	37	225	.02		
4S/50'	71-K-257	90	3000	715	6	75	.02		
4S/60'	71-K-258	110	2450	650	5	65	BLD		
4S/70'	71-K-259	140	4100	1900	5	100	BLD		
4S/80'	71-K-260	170	6000	1000	14	70	.03		
4S/90'	71-K-261	120	6250	725	8	60	.02		
4S/100'	71-K-262	100	1650	520	5	60	.02		
4S/110'	71-K-263	135	3600	940	7	110	.03		
4S/120'	71-K-264	225	6350	2300	13	150	.02		
4S/130'	71-K-265	260	8000	2400	16	100	BLD		
4S/140'	71-K-266	340	8750	2800	38	110	.02		
4S/150'	71-K-267	225	8600	2800	31	50	BLD		
4S/160'	71-K-268	275	8650	3550	17	30	BLD		
4S/170'	71-K-269	265	6350	2000	16	20	BLD		
4S/180'	71-K-270	260	5250	1900	13	20	.02		
4S/190'	71-K-271	70	1100	430	3	40	.03		
4S/200'	71-K-272	285	580	1600	11	90	BLD		
4S/210'	71-K-273	70	510	240	3	45	.03		
4S/220'	71-K-274	25	120	105	1	20	.03		
4S/230'	71-K-275	30	90	110	2	20	.02		
4S/240'	71-K-276	20	130	85	2	20	.04		
4S/250'	71-K-277	70	100	140	2	25	.03		
4S/260'	71-K-278	10	70	25	1	20	.02		
4S/270'	71-K-279	10	50	20	1	10	.04		
4S/280'	71-K-280	10	145	30	1	20	.03		
4S/290'	71-K-281	5	30	5	BLD	15	.04		
4S/300'	71-K-282	5	25	5	BLD	20	.03		
4S/310'	71-K-283	5	35	10	BLD	40	.03		
4S/320'	71-K-284	5	35	15	BLD	40	.03		
4S/330'	71-K-285	5	20	10	1	30	.04		
4S/340'	71-K-286	10	65	20	1	10	.03		
4S/350'	71-K-287	5	50	10	1	20	.03		
4S/360'	71-K-288	10	120	10	1	10	.04		
4S/370'	71-K-289	10	160	10	1	10	.04		
4S/380'	71-K-290	5	180	5	1	15	.04		
4S/390'	71-K-291	10	210	10	1	15	.04		
4S/400'	71-K-292	5	100	10	1	20	.06		
4S/410'	71-K-293	5	30	5	1	10	.04		
4S/420'	71-K-294	5	35	5	1	15	.03		
4S/430'	71-K-295	5	45	BLD	1	15	.03		
4S/440'	71-K-296	5	25	10	1	20	.03		
4S/450'	71-K-297	5	20	5	1	20	.04		
4S/460'	71-K-298	5	20	BLD	BLD	10	.04		

METHODS:

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Chief Chemist

LAB. SHEET No.: 817/2 SAMPLE TYPE: SOIL PROFILE DATE: 26th October, 1971.

930389

Appendix IV

SAMPLE No.	LAB. No.	Ni ppm	Pb ppm	Zn ppm	Ag ppm	Cr ppm	Sn %		
4S/930'	71-K-345	5	50	30	BLD	50	.03		
4S/940'	71-K-346	5	15	5	BLD	40	.06		
4S/950'	71-K-347	5	15	2	BLD	30	.03		
4S/960'	71-K-348	BLD	20	BLD	BLD	15	.04		
4S/970'	71-K-349	5	20	5	BLD	20	.06		
4S/980'	71-K-350	BLD	20	5	1	30	.04		
4S/990'	71-K-351	BLD	10	2	BLD	25	.06		
4S/1000'E	71-K-352	BLD	25	15	1	35	.04		

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007577 PROJECT No.: EL.7/68 - DUNDAS - PLATT GRID

LAB. SHEET No.: 817/4 SAMPLE TYPE: SOIL PROF. DATE: 26th October, 1971

SAMPLE No.	LAB. No.	Ni ppm	Pb ppm	Zn ppm	Ag ppm	Cr ppm	Sn %		
4S/470'	71-K-299	5	30	BLD	1	10	.04		
4S/480'	71-K-300	5	20	BLD	1	15	.06		
4S/490'	71-K-301	5	40	2	BLD	10	.03		
4S/500'E	71-K-302	5	25	5	BLD	20	.04		
4S/510'	71-K-303	BLD	20	BLD	1	20	.04		
4S/520'	71-K-304	BLD	15	BLD	BLD	30	.03		
4S/530'	71-K-305	BLD	35	10	BLD	30	.06		
4S/540'	71-K-306	BLD	40	BLD	1	20	.06		
4S/550'	71-K-307	BLD	40	5	BLD	20	.06		
4S/560'	71-K-308	5	25	5	BLD	20	.04		
4S/570'	71-K-309	5	35	40	BLD	50	.04		
4S/580'	71-K-310	BLD	20	10	1	20	.04		
4S/590'	71-K-311	BLD	35	10	BLD	30	.04		
4S/600'	71-K-312	BLD	30	10	BLD	40	.06		
4S/610'	71-K-313	BLD	15	2	1	30	.03		
4S/620'	71-K-314	BLD	20	2	BLD	15	.03		
4S/630'	71-K-315	BLD	15	2	1	15	.03		
4S/640'	71-K-316	BLD	10	BLD	1	30	.04		
4S/650'	71-K-317	BLD	10	BLD	BLD	30	.02		
4S/660'	71-K-318	BLD	15	2	1	25	.03		
4S/670'	71-K-319	BLD	10	BLD	BLD	30	.04		
4S/680'	71-K-320	5	10	BLD	1	20	.04		
4S/690'	71-K-321	5	10	BLD	1	25	.03		
4S/700'	71-K-322	5	15	BLD	1	30	.06		
4S/710'	71-K-323	5	35	10	1	30	.04		
4S/720'	71-K-324	5	15	5	2	30	.03		
4S/730'	71-K-325	5	10	2	BLD	30	.03		
4S/740'	71-K-326	5	5	BLD	BLD	45	.03		
4S/750'	71-K-327	5	10	BLD	BLD	40	.06		
4S/760'	71-K-328	10	20	10	1	25	.04		
4S/770'	71-K-329	5	35	5	1	25	.04		
4S/780'	71-K-330	5	75	BLD	1	30	.06		
4S/790'	71-K-331	5	30	10	1	15	.06		
4S/800'	71-K-332	10	20	10	BLD	15	.03		
4S/810'	71-K-333	5	45	2	BLD	20	.03		
4S/820'	71-K-334	5	50	15	BLD	45	.04		
4S/830'	71-K-335	5	60	20	BLD	50	.06		
4S/840'	71-K-336	5	10	BLD	1	40	.04		
4S/850'	71-K-337	10	10	BLD	BLD	30	.04		
4S/860'	71-K-338	5	15	BLD	1	20	.06		
4S/870'	71-K-339	5	10	BLD	1	25	.03		
4S/880'	71-K-340	5	15	BLD	BLD	30	.06		
4S/890'	71-K-341	5	10	BLD	BLD	30	.03		
4S/900'	71-K-342	5	20	BLD	BLD	20	.04		
4S/910'	71-K-343	5	20	BLD	1	20	.03		
4S/920'	71-K-344	5	10	5	BLD	20	.04		

METHODS:

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930390

APPENDIX XVI

GEOPHOTO RESOURCES CONSULTANTS
WEST COMET AND PLATT GRIDS
DRILLING SUMMARY

WEST COAST AREA

W.C. 1, 1A, 2 and 3 drill holes have been discussed in Geophoto Report 1969/29.

After a reappraisal of the area, targets were redefined to include Ni, Cr and Ti mineralization with serpentinite, and Pb-Zn mineralization in a small volcanic unit and along the Crimson Creek-Oonah Formation contact, as well as mineralization below surface gossans and in the old mine workings.

W.C. 4 was drilled to test a "gossan" zone. Geology down the hole was more complicated than expected and drilling was rather difficult with poor core recovery, particularly of potentially mineralized zones. "Gossanous" zones were intersected at 315-365' and 502-522' with an additional "gossanous" zone possible in a zone of no core recovery 445-502'. Serpentinite was penetrated from the surface to 176' followed by a dolomite sequence with tuff (?) and siltstone of the Crimson Creek(?)Fm.

Assays of available core and partial sludge returns indicate that no significant mineralization is present. A subeconomic mineralized zone was intersected between 613-621'2" (0.84% Pb, 0.70% Zn)* in a dolomite host rock.

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*These and successive values are averaged over the stated interval.

W.C. 5 was also drilled to test the "gossan" zone. The collar of this hole was moved west of the planned location about 100 feet in order to try to drill below the highly weathered "gossanous" rock.

Serpentinite was penetrated from the surface to 356', followed by dolomite to 424' where the hole had to be abandoned. Core recovery was poor.

No significant mineralization was encountered although the poor core recovery made this less conclusive.

W.C. 6: Serpentinite was penetrated from the surface to 478 feet, followed by talc-carbonate rock to the bottom at 618 feet. No significant mineralization was encountered.

Recommendations:

This prospect has been considerably downgraded by the drilling. It appears that there is little chance of appreciable tonnages of ore being located here. Drilling difficulties and poor core recovery have made this evaluation less conclusive than desirable. As a low priority prospect one or two additional holes drilled to intersect the "gossanous" lode(?) at depth where it is perhaps less weathered, may be justified, but probably only when and if other viable mining operations are proved in the vicinity.

Available data indicate that the conspicuous "gossan" zones are probably genetically related to the serpentinite and/or silica-carbonate alteration rock around the serpentinite and not to a concentration of sulphides. The existing lead-zinc mineralization may be relatively minor and associated with relatively small fractures

PLATT AREA

The one hole (P-1) here was drilled to test mineralized gossans and to penetrate under old mineralized workings as proposed in Geophoto Report 1969/55.

Subeconomic mineralization (0.77% Pb, 0.13% Zn, 0.43 ozs Ag) as disseminated galena and sphalerite in siltstone and shale, was encountered between 321'9-328'. The altered siliceous dolomitic rock intersected between 131-148'6" probably correlates with and is the source of the surface gossan. The hole appears to be in Crimson Creek rocks for its entire length.

Additional drill holes have been recommended to test other nearby gossan zones in Geophoto Reports 1969/55 and 1970/41. The old workings should be carefully mapped prior to additional drilling. The possibility also exists here, that the gossans are genetically related to serpentinite and/or silica-carbonate rock with relatively minor associated mineralization. Future drilling in the vicinity will probably be related to developments in the nearby main Kosminsky trend.

930394

APPENDIX XVII

GEOPHOTO RESOURCES CONSULTANTS
COMET AND NORTH COMET GRIDS
DRILLING SUMMARY

NORTH COMET

This area has been discussed in Geophoto Report 1970/41 and 1970/71 as a long linear gossan with anomalous soil geochemistry (Pb-Zn-Ni). Targets here were better defined after the VLF survey in early 1971 revealed the most intense VLF anomaly in the E.L. 7/68 area.

NC-1 was drilled through Oonah and Concert rocks to test the intense VLF anomaly thought to represent the best target along the North Comet trend.

No significant mineralization was encountered.

A zone of Black slate with disseminated pyrite was intersected and at this time it is interpreted that this zone forms a relatively good conductive mass expressed as the VLF anomaly.

This was drilled to test the same VLF anomaly as NC-1.

No significant mineralization was encountered in Concert/Oonah rocks.

COMET ~~MINE~~

This prospect and the two Geophoto drill holes (C-1 and C-2), as well as earlier Mines Department and Broken Hill South drilling, has been discussed in Geophoto Report 1969/30 and 1970/71. The lode horizons were found to be weakly mineralized siderite-ankerite.

Drilling to date has been disappointing but not yet conclusive. Not enough data are available to properly evaluate the prospect, especially when the erratic nature of the Kosminsky-South Comet mineralization is considered.

Recommendations for additional drill holes have been made in Geophoto Reports 1970/41 and 1970/71. At the present time it would appear that further drilling in the Comet area will have to await future developments in the Kosminsky-South Comet area. These developments could affect the Comet area by establishing additional, possibly richer tonnage or by establishing some connection between the mineralized trends.

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APPENDIX XVIII

GEOPHOTO RESOURCES CONSULTANTS
KOSMINSKY-SOUTH COMET PROSPECT
DRILLING SUMMARY

930398

LEGEND

Fault dashed where indefinite, questioned where inferred. Arrows showing relative movement

Contact dashed where indefinite, questioned where inferred

Brecciation

Pb, Zn mineralization

0·29 0·52 1·21 — Pb% Zn% Ag oz.
6·5' — True width (feet)

KH20 3 — Mineralization projected to this section from adjacent drill hole. Subnumbers indicate the sequence of mineralization from collar of projected hole.

CAMBRIAN

DUNDAS GROUP

Hodge Formation

- ϵh_1 — SILTSTONE: dark grey, finely laminated and banded with pale grey micaceous, dolomitic sandstone.
- ϵh_2 — SILTSTONE: medium-dark grey, laminated and interbedded with pale grey sandstone — both distinctly micaceous.
- ϵh_3 — SANDSTONE: medium-dark grey, micaceous and dolom… with thin bands dark grey siltstone often giving coarsely …
- ϵh_4 — GRIT: dark grey.

Red Lead Formation

- ϵr — CONGLOMERATE: grey-sub-rounded pebbles of pale-dark… medium-dark grey siltstone, set in dolomitic gritty/sandy… irregular patches dark green fuchsite.
- ϵr_1 — CONGLOMERATE AND SANDSTONE: grey overall, with… variegated grey, red, brown chert pebbles and green fuchsite (?) clasts, partially sheared matrix.
- ϵr_2 — DOLOMITE, DOLOMITIC SHALE AND SANDSTONE: grey cream-grey.

Crimson Creek Formation

- ϵc_1 — SILTSTONE / FINE SANDSTONE: medium grey, dolomitic often quartzose.
- ϵc_2 — DOLOMITIC: pale grey, arenaceous.
- ϵc_3 — SILTSTONE: dark grey-black, pyrite and highly graphit…
- ϵc_4 — META-VOLCANICS: dark grey-green grey, carrying abu… white/pink kaolinized feldspar.
- ϵc_5 — SLATE: black, pyrite and highly graphitic.
- ϵc_6 — SANDSTONE: pale grey, dolomitic and commonly pyritic, thin bands khaki/dark grey siltstones and mudstones.
- ϵc_7 — MUDSTONES AND SILTSTONES: khaki, pale-dark gre… sediment deformation structures common; some thinly inte…

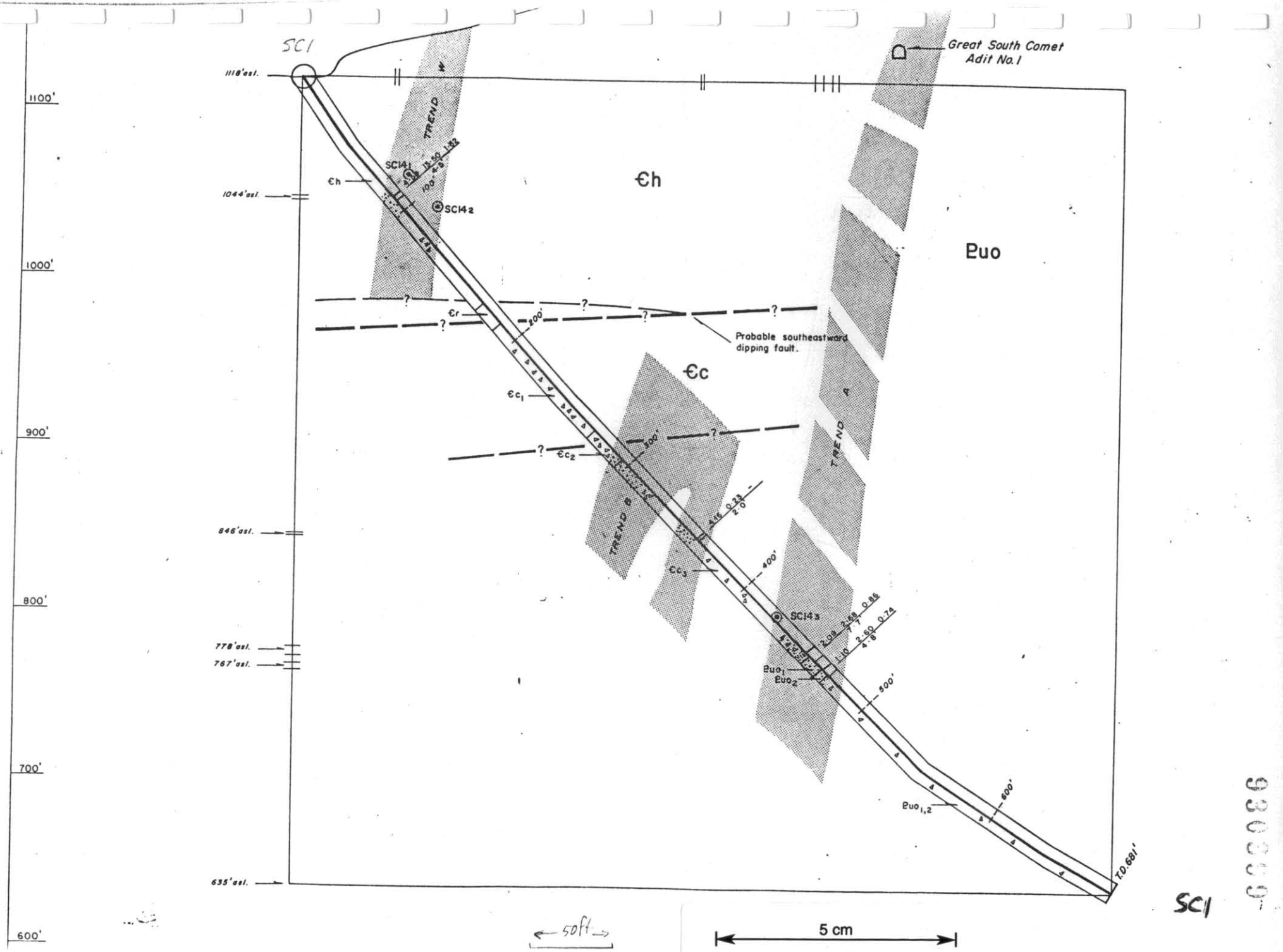
Serpentine

- ϵs — DOLOMITE-SERPENTINITE(?) greenish grey and pale grey

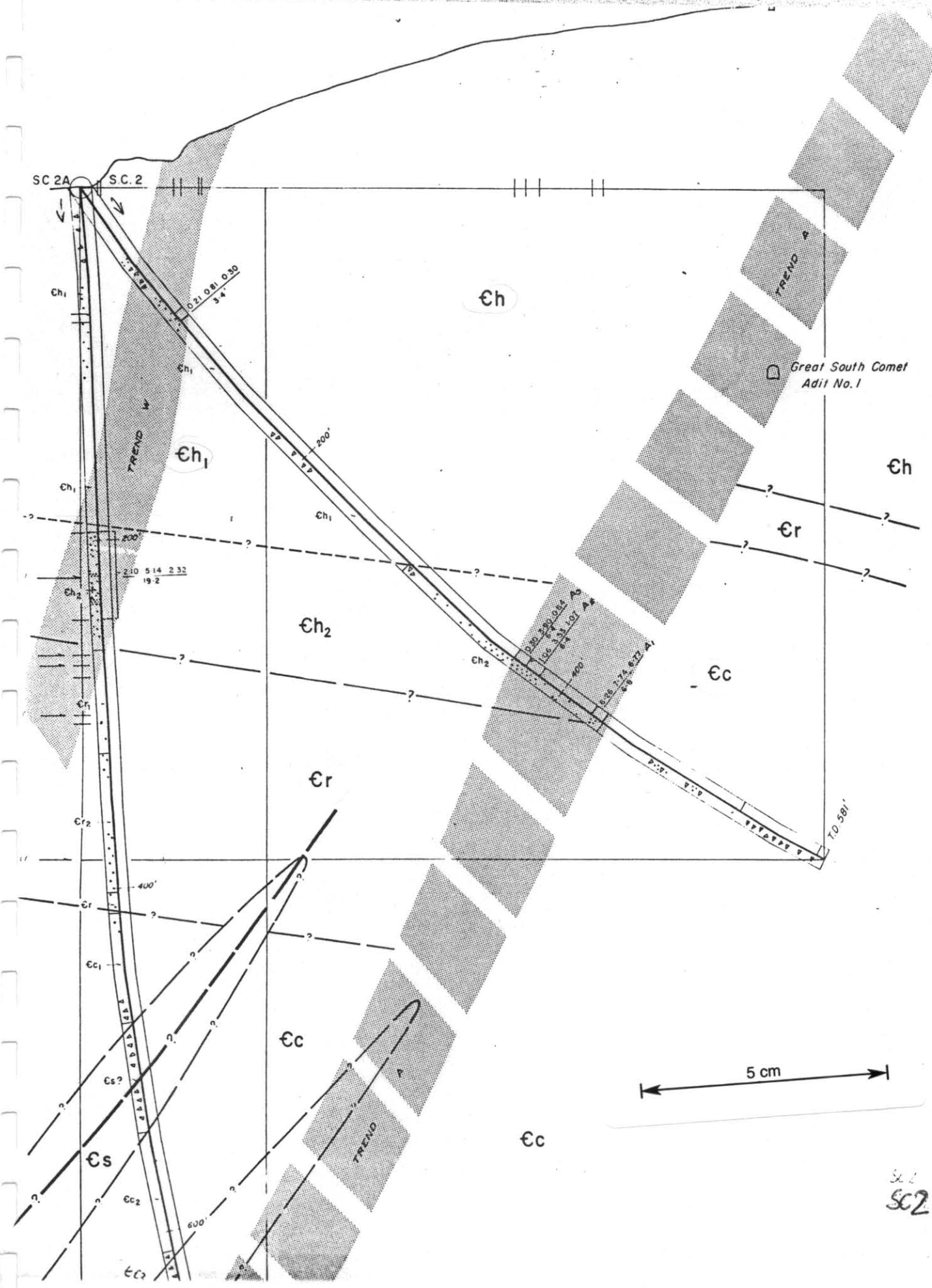
PROTEROZOIC

Oonah Formation

- Puo_1 — SLATE: black, graphitic
- Puo_2 — QUARTZITE: grey, micaceous

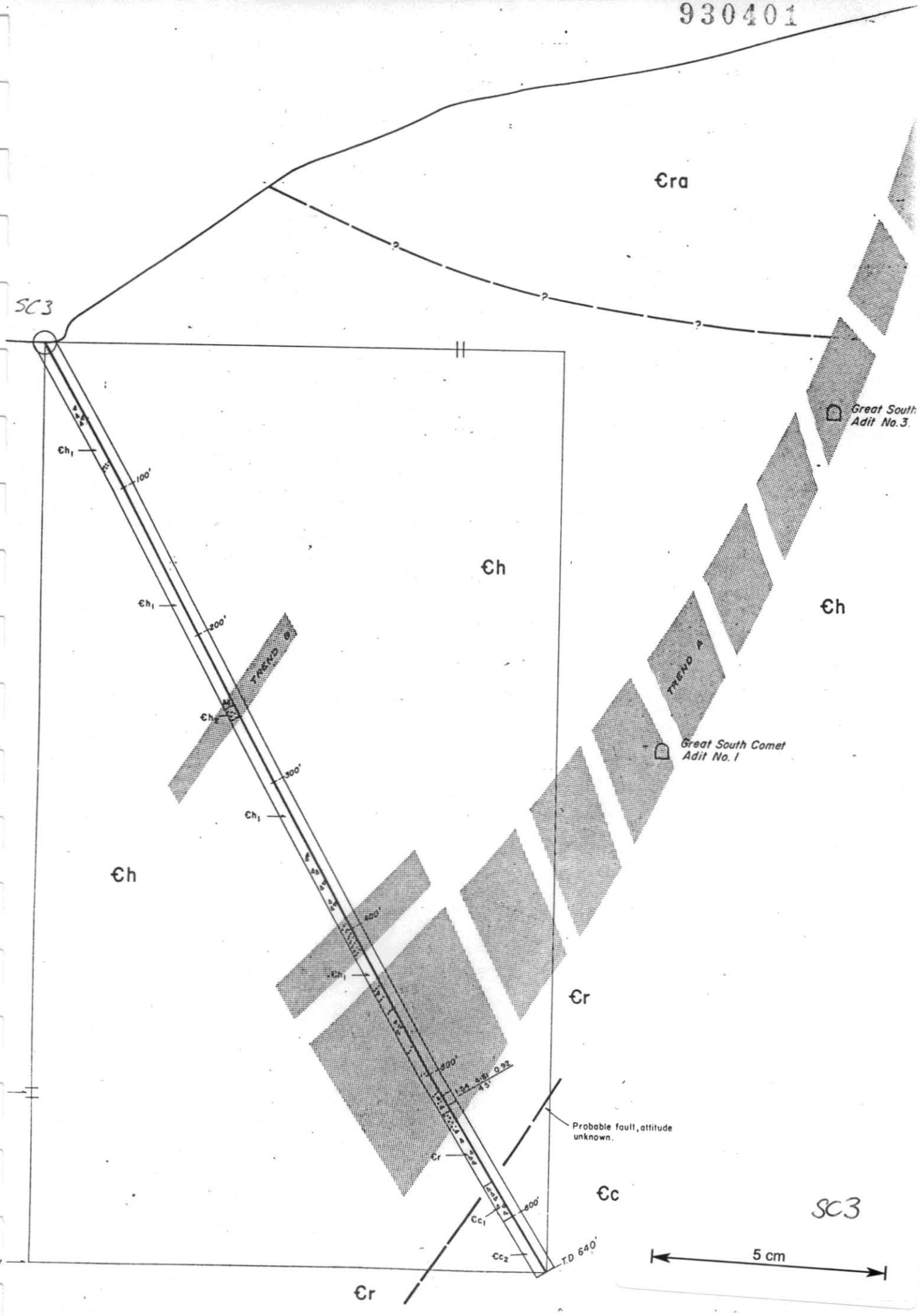

SC1
1118'asl.
Great South Comet Adit No.1
1100'
1000'
900'
800'
700'
600'
1044'asl.
846'asl.
778'asl.
767'asl.
635'asl.
TREND A
TREND B
TREND C
SC14 1
SC14 2
SC14 3
€h
€r
€c
€c1
€c2
€c3
Puo
Puo1
Puo2
Puo1,2
Probable southeastward dipping fault.
100'
200'
300'
400'
500'
600'
T.D. 681'
soft
5 cm
SC1

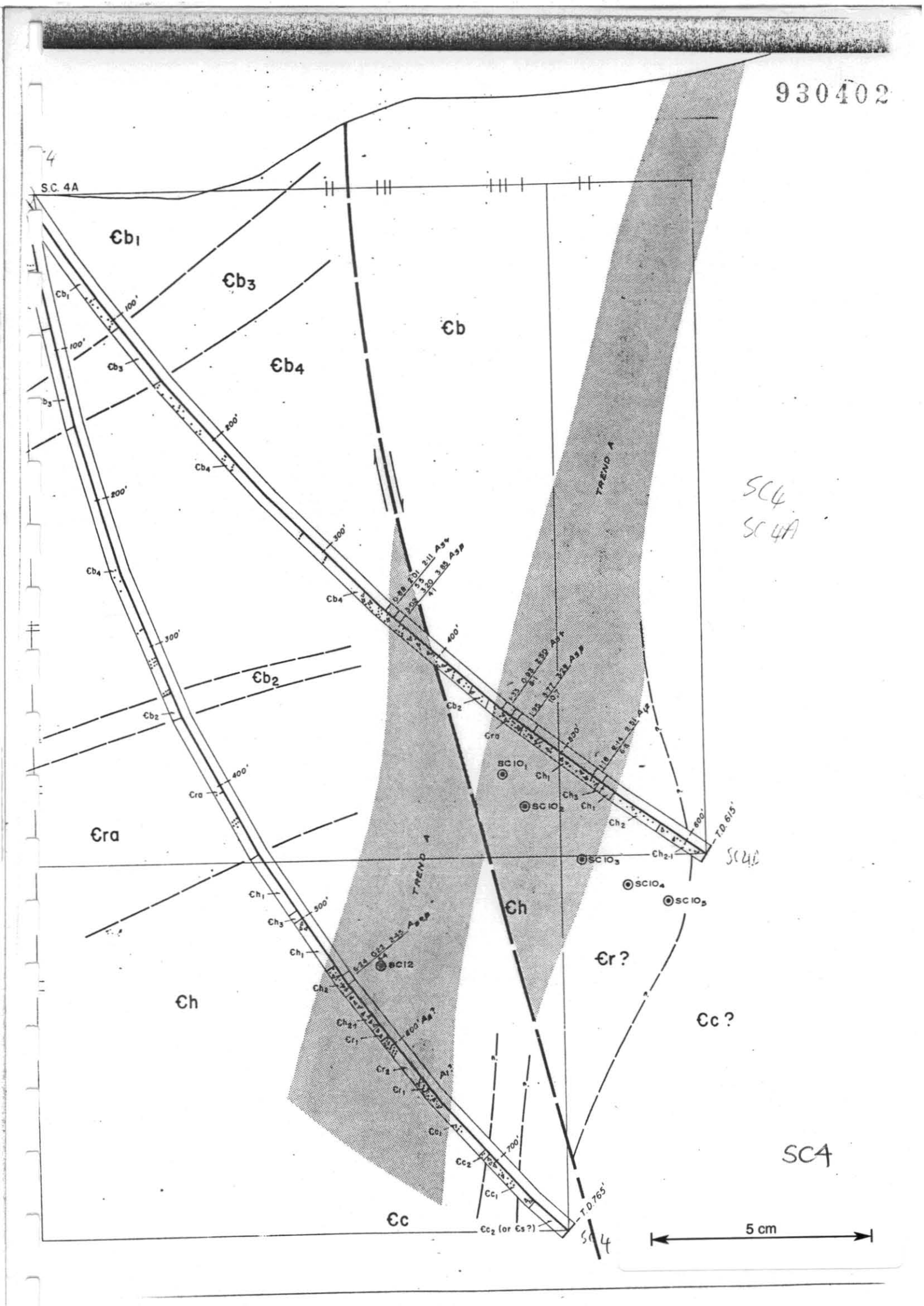
930400



SC 2A
S.C. 2
Ꞓh
Ꞓh₁
Ꞓh₂
Ꞓr
Ꞓc
Ꞓs
Ꞓc₁
Ꞓc₂
Ꞓr₁
Ꞓr₂
TREND W
TREND A
Great South Comet Adit No. 1
T.D. 581'
200'
400'
600'
5 cm
SC2

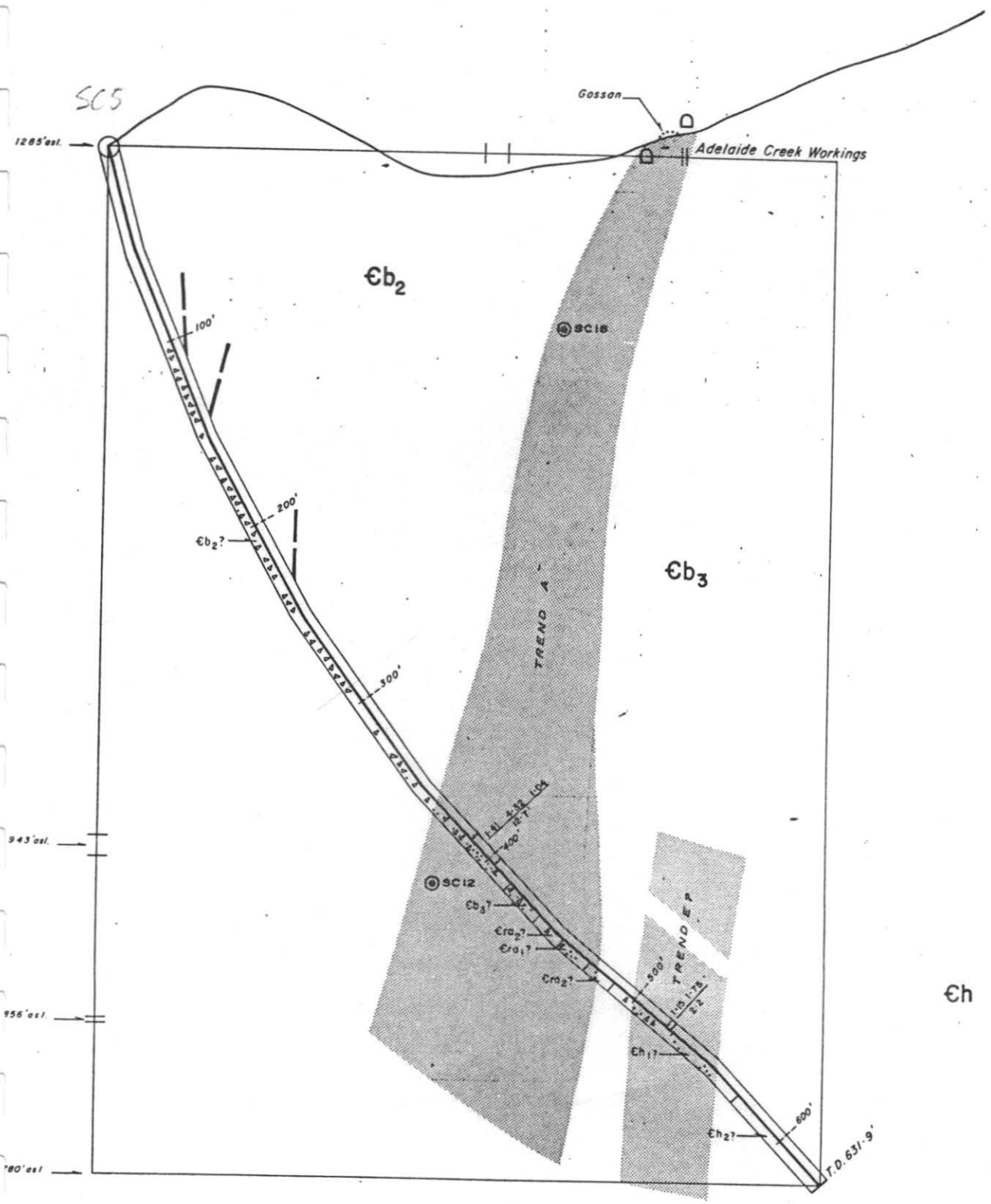
930401


€ra
SC3
Great South
Adit No. 3.
€h
€h
TREND B
TREND A
Great South Comet
Adit No. 1
€h
€r
Probable fault, attitude
unknown.
€r
€c
SC3
TD 640'
€r
5 cm


930402
S.C. 4A
Cb1
Cb3
Cb
Cb4
Cb2
Cra
Ch
Cr?
Cc?
TREND A
TREND F
SC10₁
SC10₂
SC10₃
SC10₄
SC10₅
SC12
T.D. 615'
T.D. 765'
SC4
SC4A
5 cm

930403

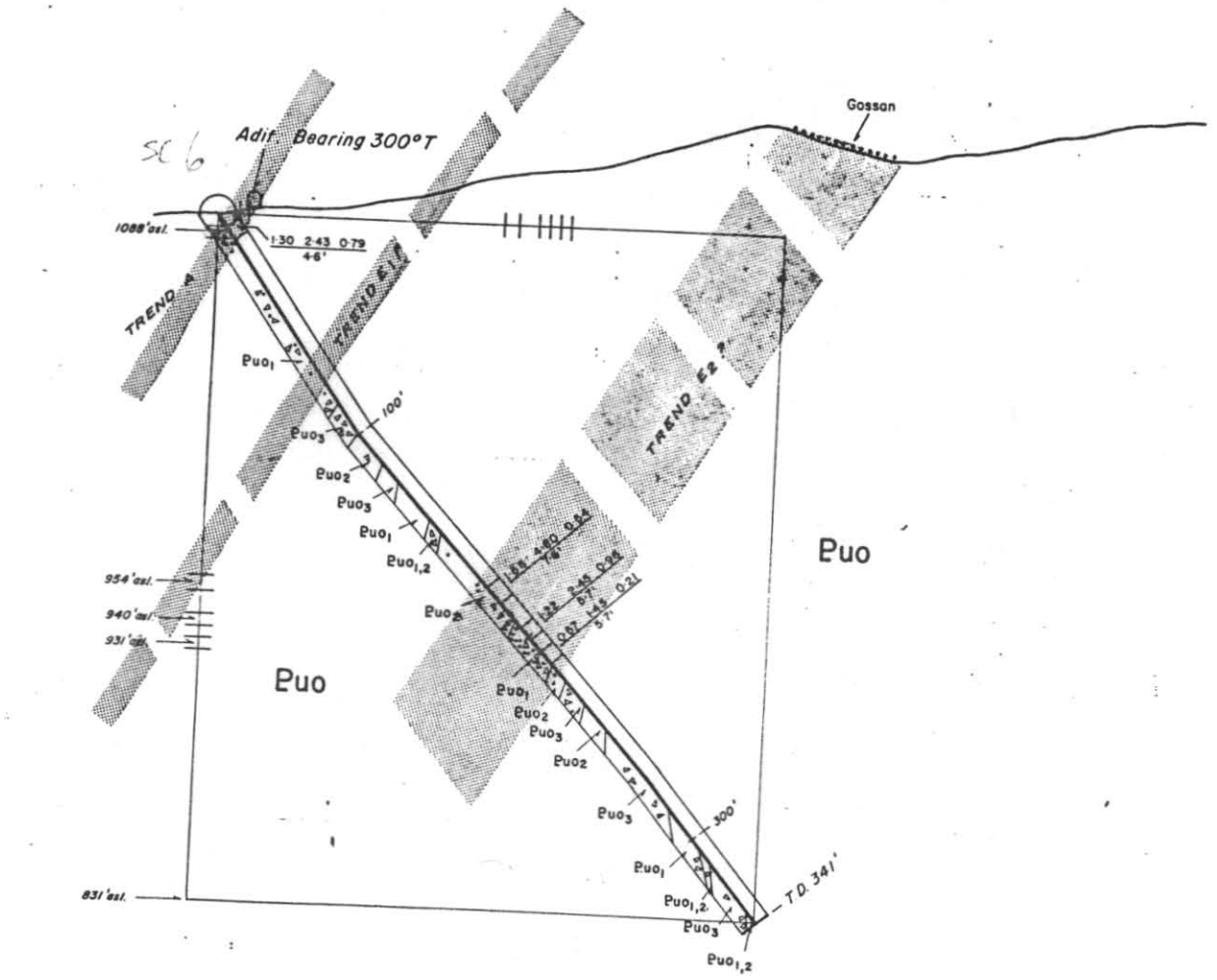
SC5



SC5

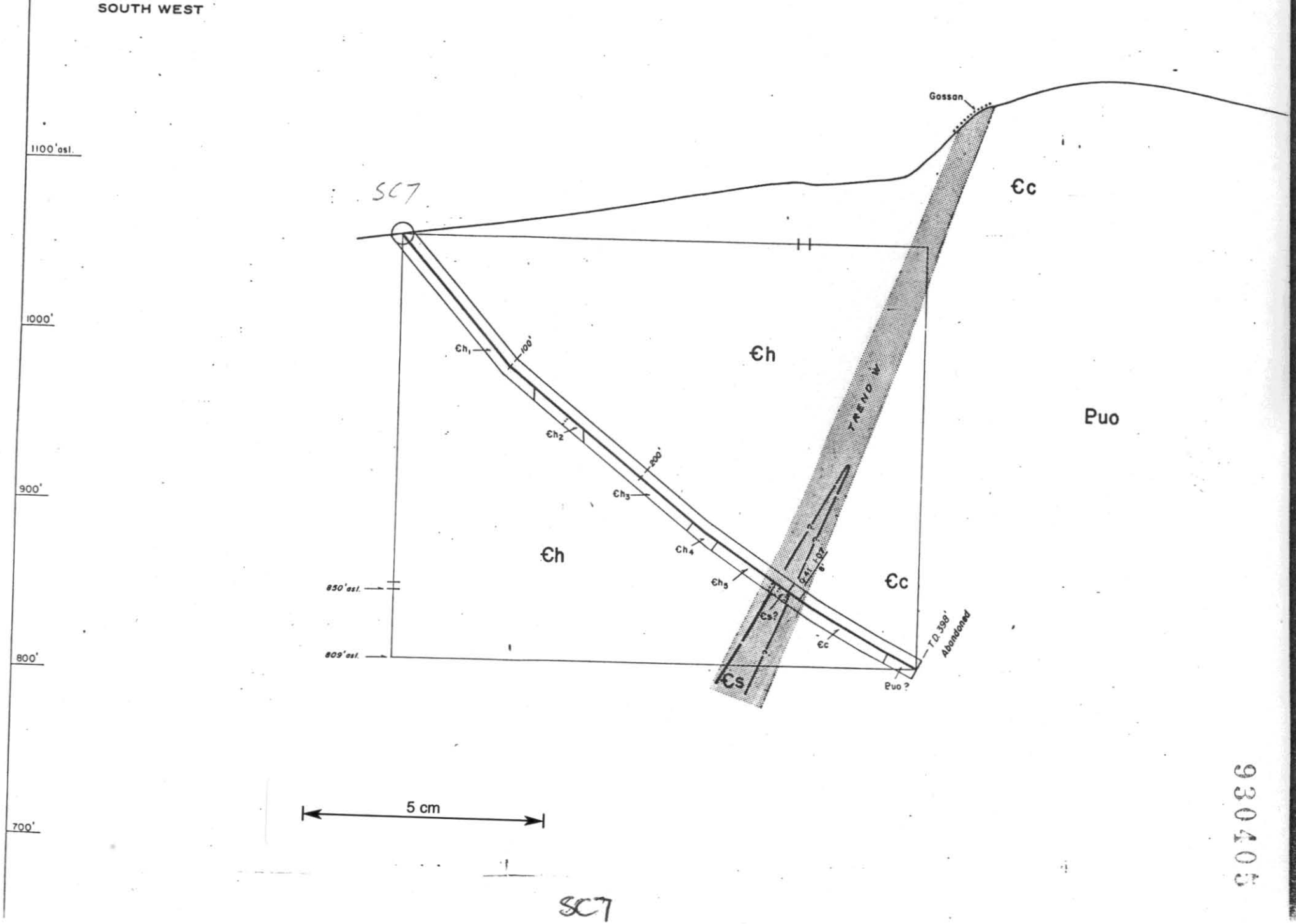
SC5

TH WEST

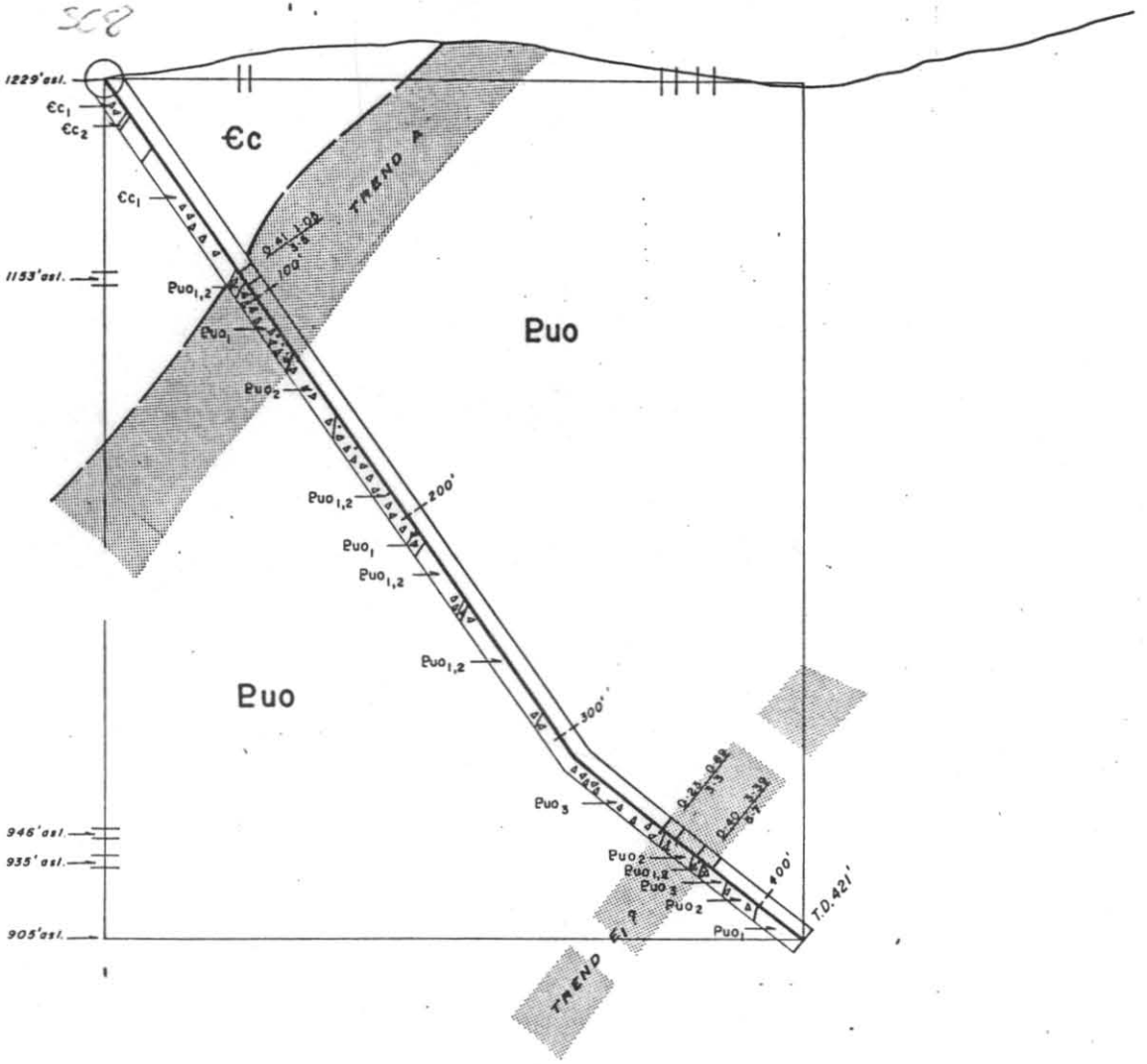


SC6

930401


SOUTH WEST
1100' asl.
1000'
900'
800'
700'
SC7
Gossan
€c
€h
Puo
TREND W
€h1
100'
€h2
200'
€h3
€h4
€h5
€h
€c
850' asl.
809' asl.
€s?
€c
€s
T.D. 398'
Abandoned
Puo ?
5 cm
SC7

930405

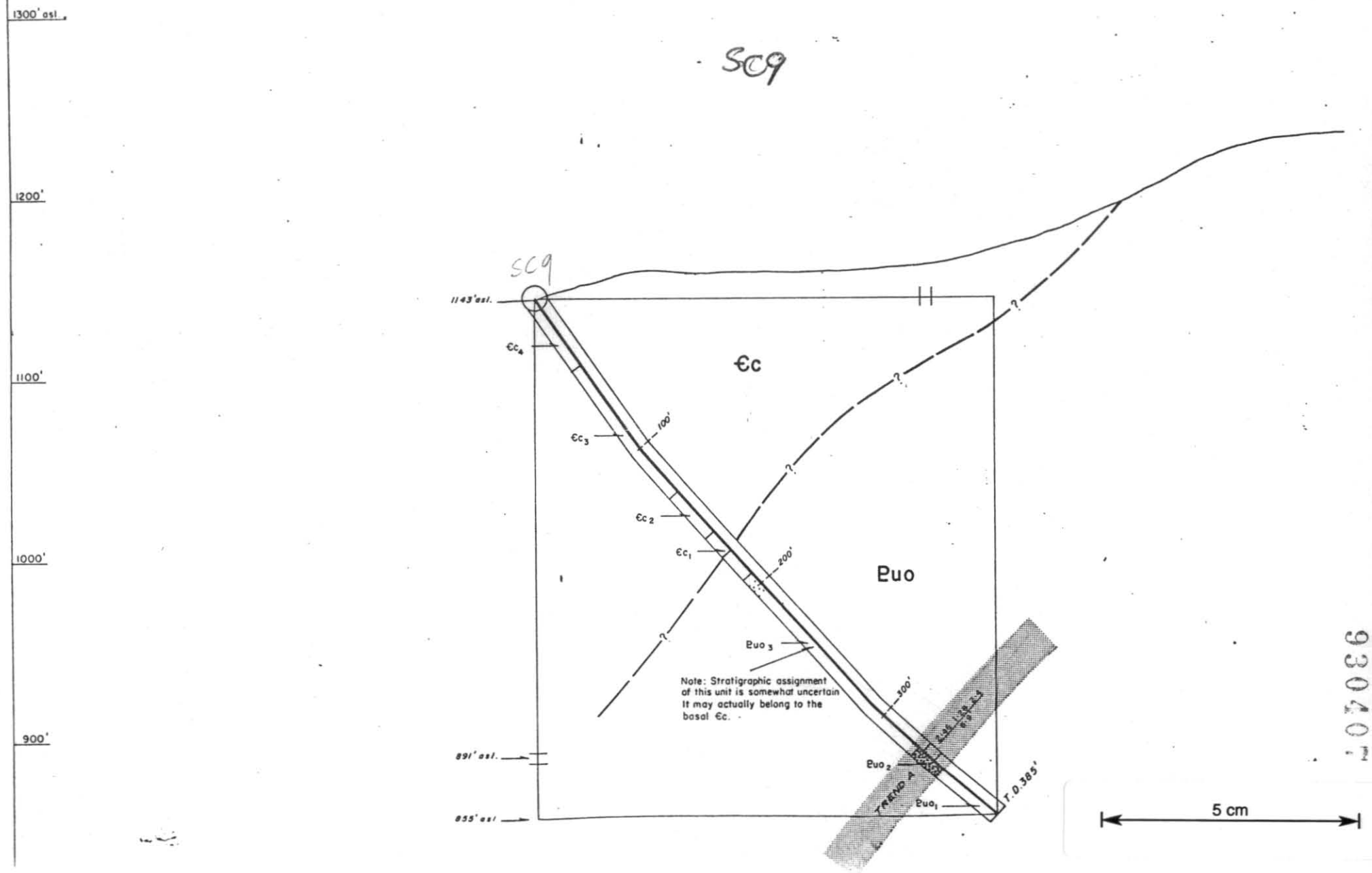


5 cm

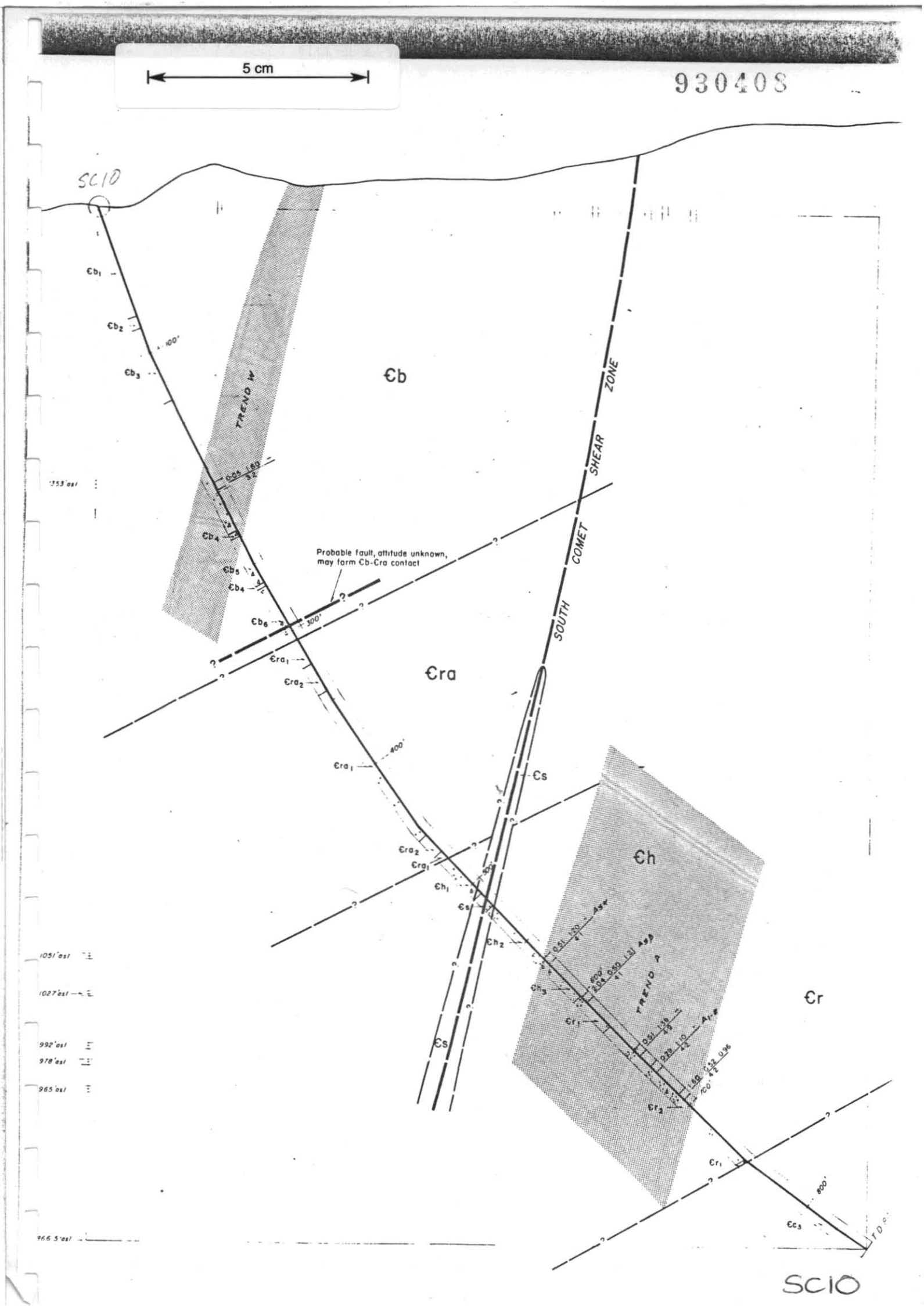
SC8

930406

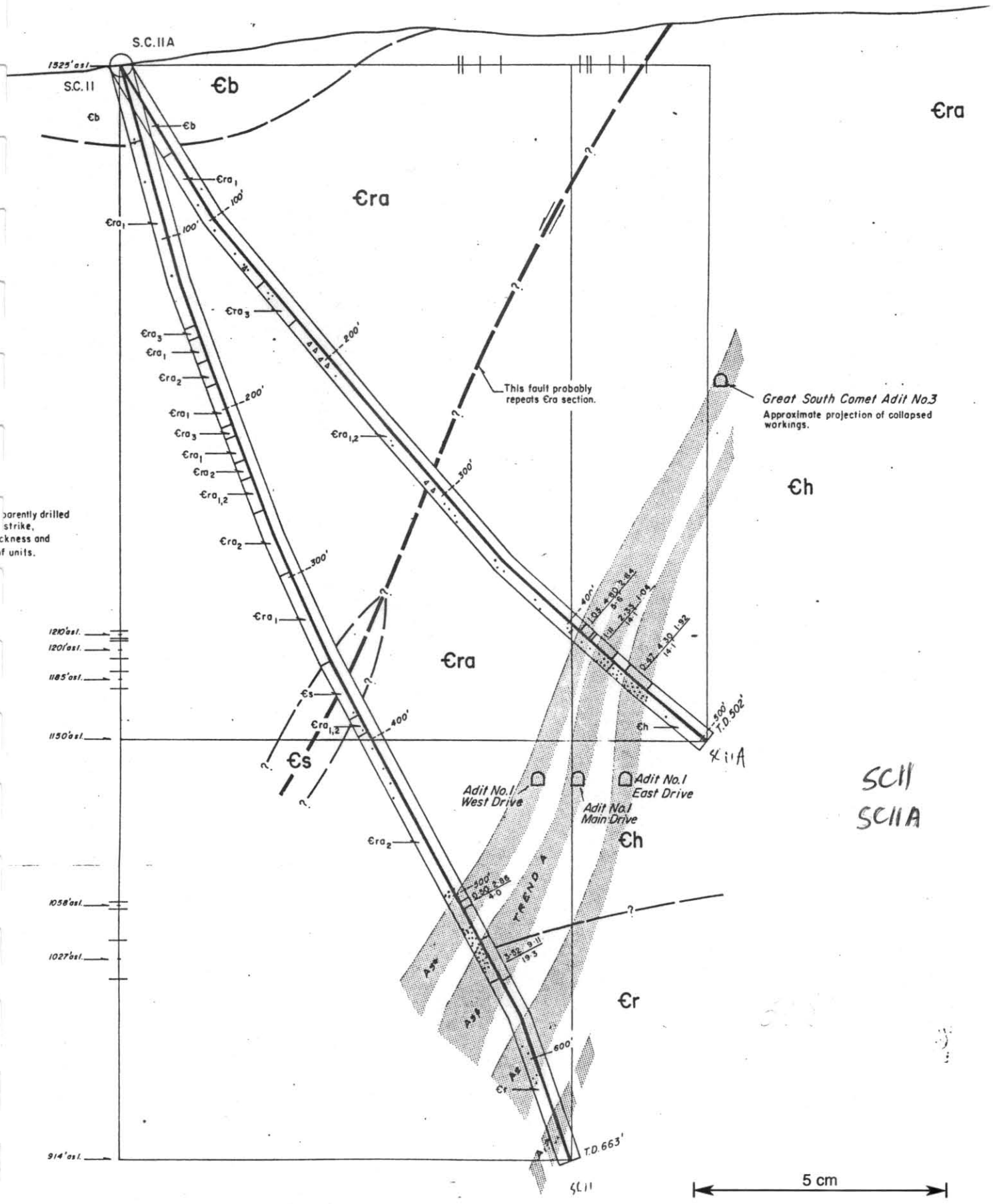
SC9


1300' asl.
1200'
1100'
1000'
900'
SC9
1143' asl.
€c4
€c
€c3
100'
€c2
€c1
200'
Euo
Euo3
Note: Stratigraphic assignment of this unit is somewhat uncertain It may actually belong to the basal €c.
300'
891' asl.
Euo2
TREND A
Euo1
T.D. 385'
855' asl
5 cm

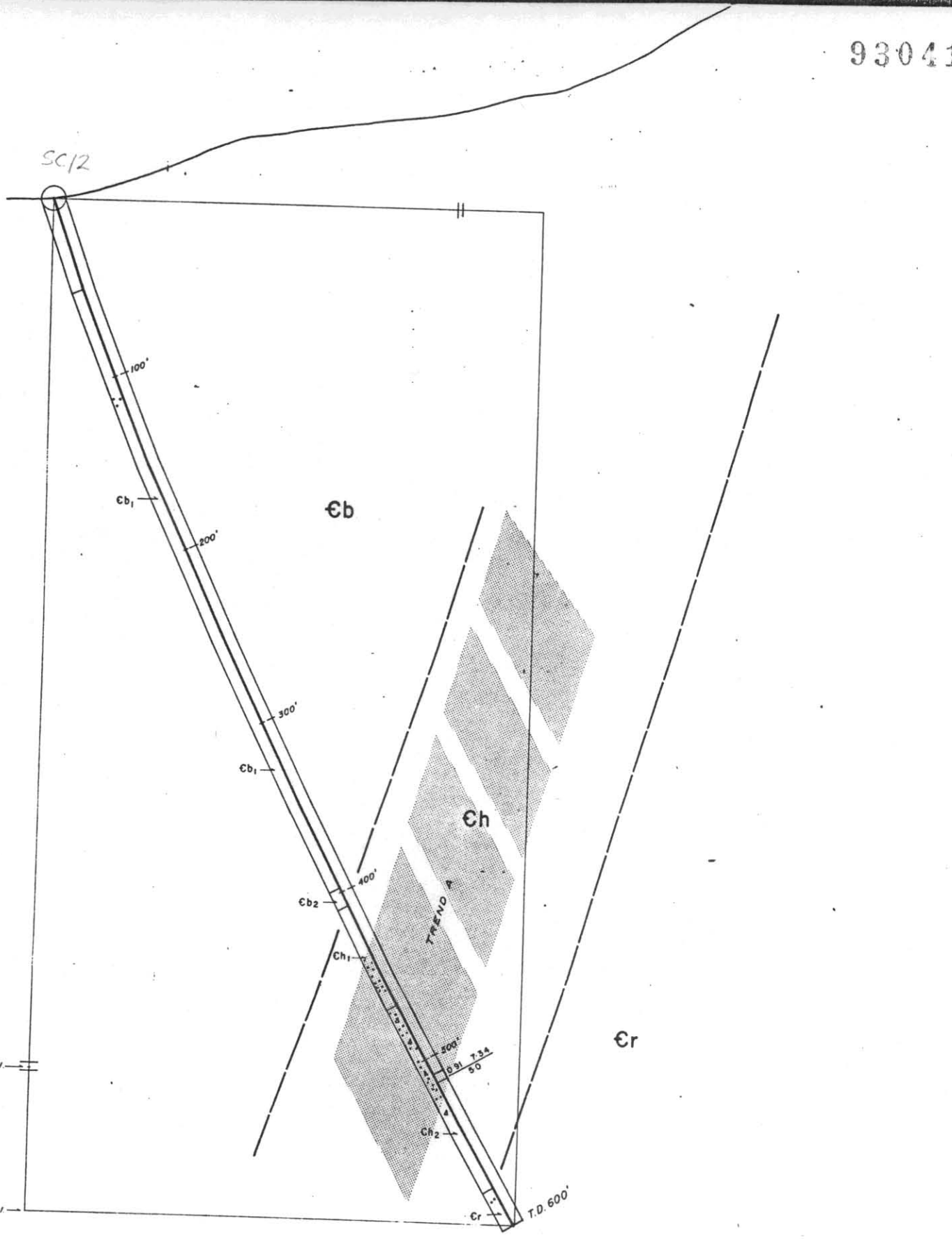
930401


5 cm
930408
SC10
€b
€ra
€h
€r
€s
TREND W
TREND A
SOUTH COMET SHEAR ZONE
Probable fault, attitude unknown, may form €b-€ra contact
€b1
€b2
€b3
€b4
€b5
€b6
€ra1
€ra2
€h1
€h2
€r1
€r2
€r3
€s
100'
300'
400'
600'
353' asl
1051' asl
1027' asl
992' asl
978' asl
965' asl
966.5' asl
SC10

930409

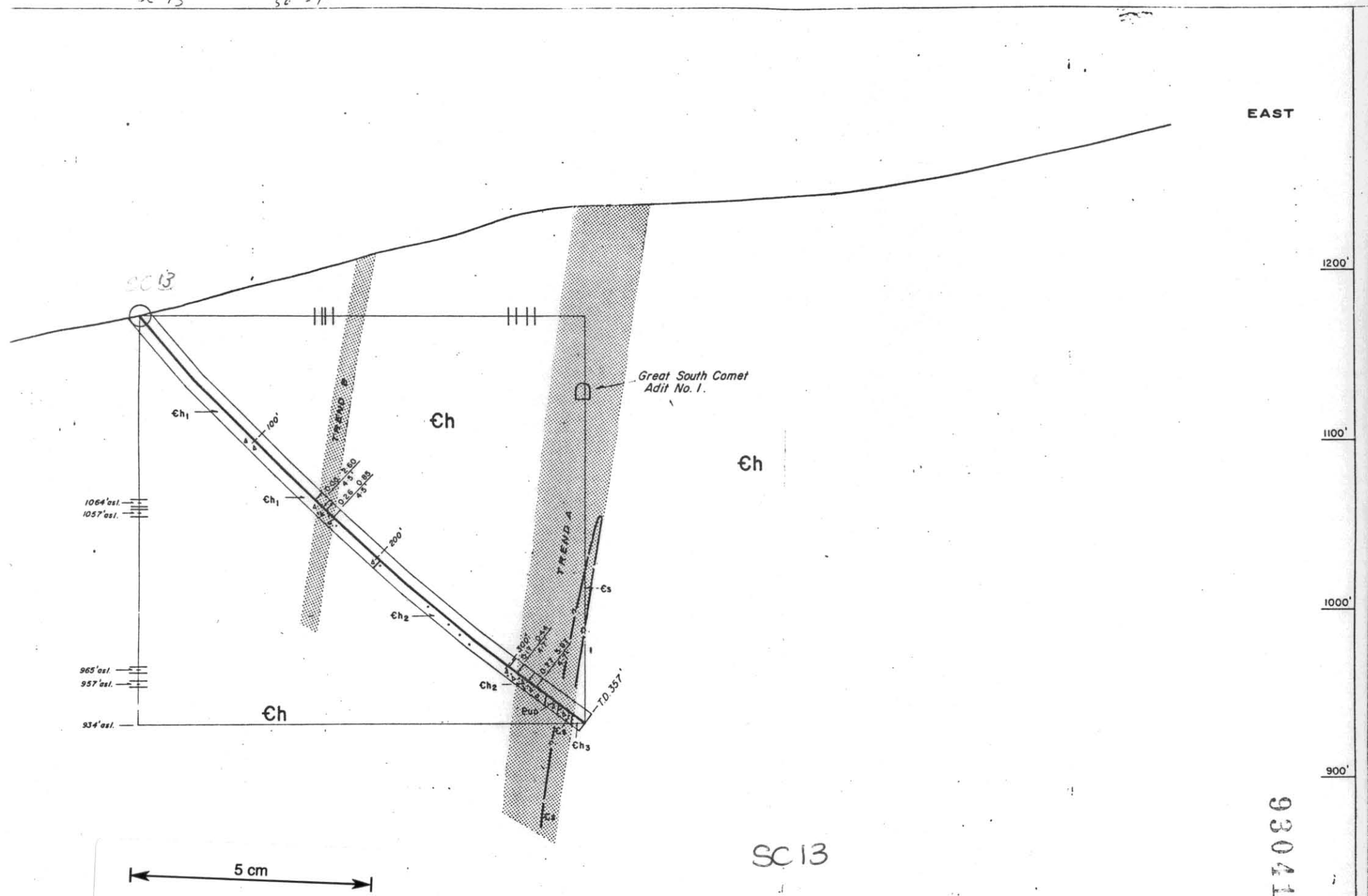

S.C.IIA
1525'asl.
S.C.II
€b
€ra
€ra1
€ra3
€ra2
€ra1,2
€s
€h
€r
100'
200'
300'
400'
500'
600'
This fault probably repeats €ra section.
Great South Comet Adit No.3
Approximate projection of collapsed workings.
Adit No.1 West Drive
Adit No.1 Main Drive
Adit No.1 East Drive
T.D. 502'
T.D. 663'
1210'asl.
1201'asl.
1185'asl.
1150'asl.
1058'asl.
1027'asl.
914'asl.
SCII
SCIIA
5 cm

930410



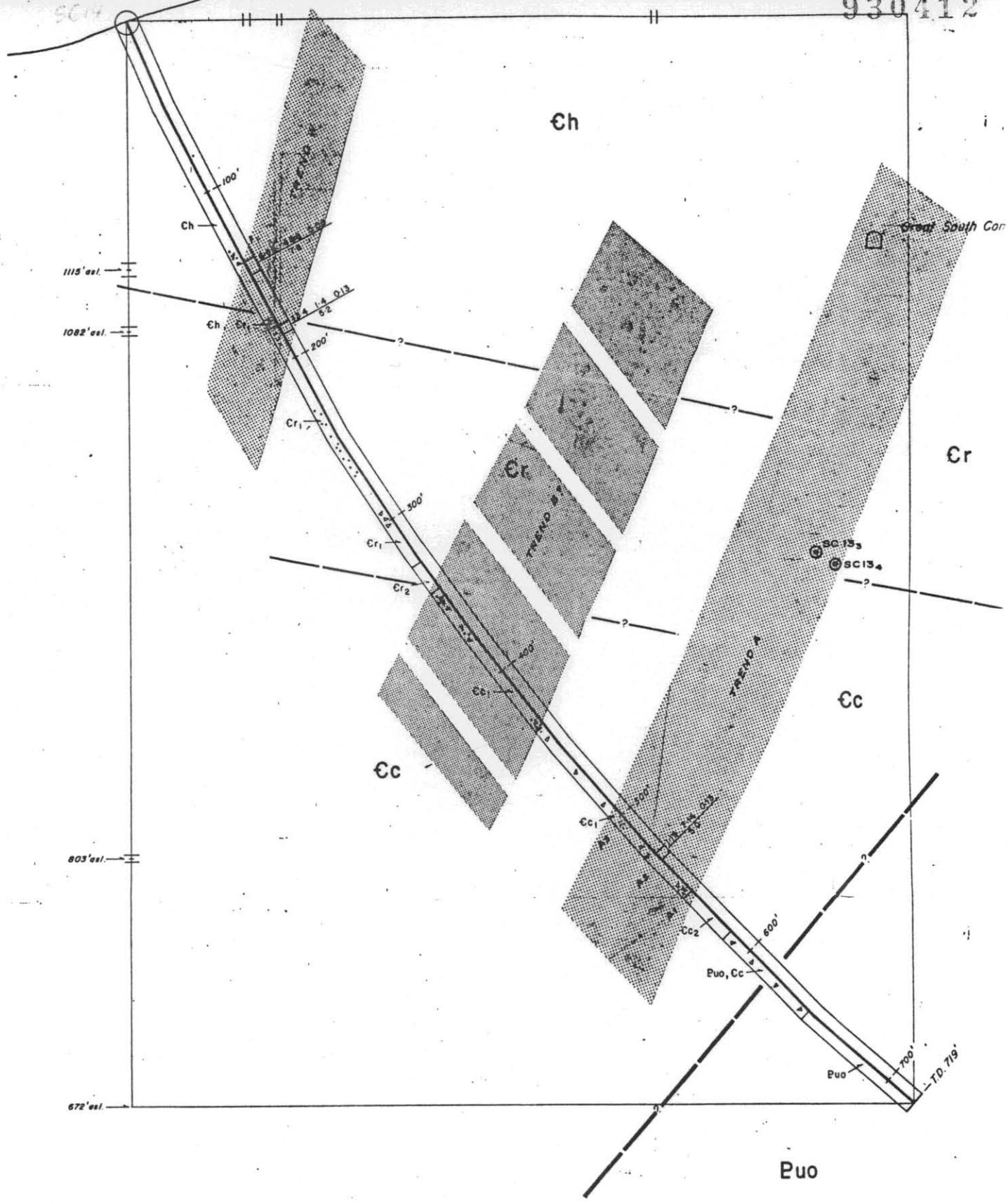
SC12

5 cm


SC 13
50' = 1"
EAST
1200'
1100'
1000'
900'
SC 13
Great South Comet
Adit No. 1.
€h
€h
€h
€h₁
€h₁
€h₂
€h₂
€h₃
€s
€s
€s
TREND B
TREND A
100'
200'
300'
T.D. 357'
1064' asl.
1057' asl.
965' asl.
957' asl.
934' asl.
5 cm
SC 13

930411

930412

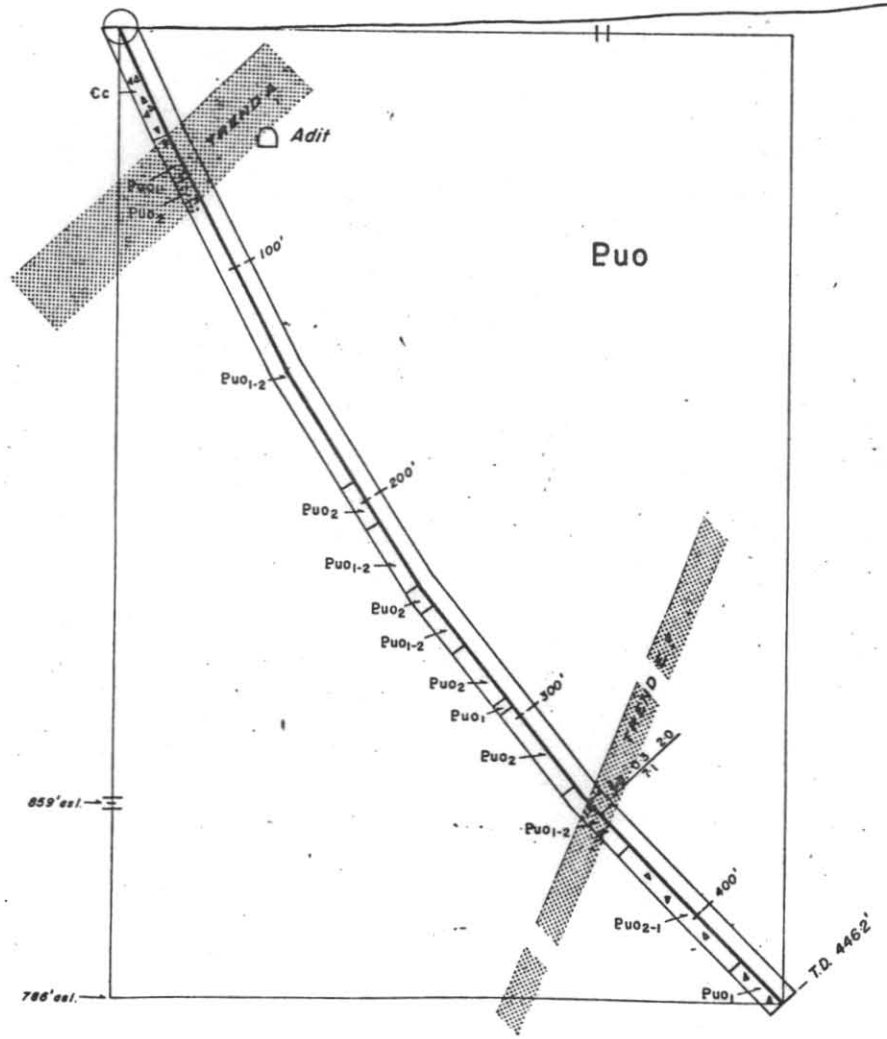


LEGEND

SC14

SC 15

WEST

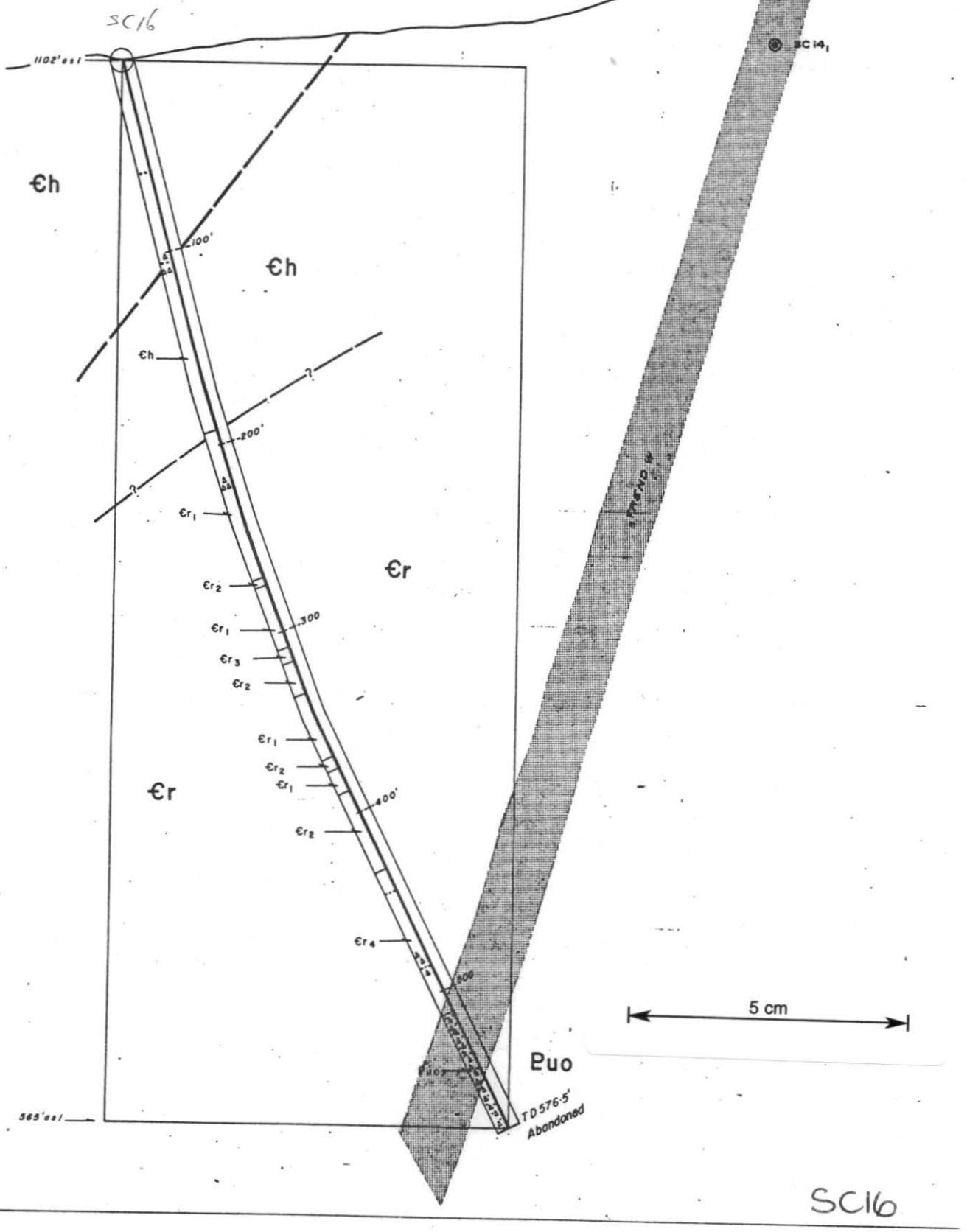


5 cm

SC15

930413

930414

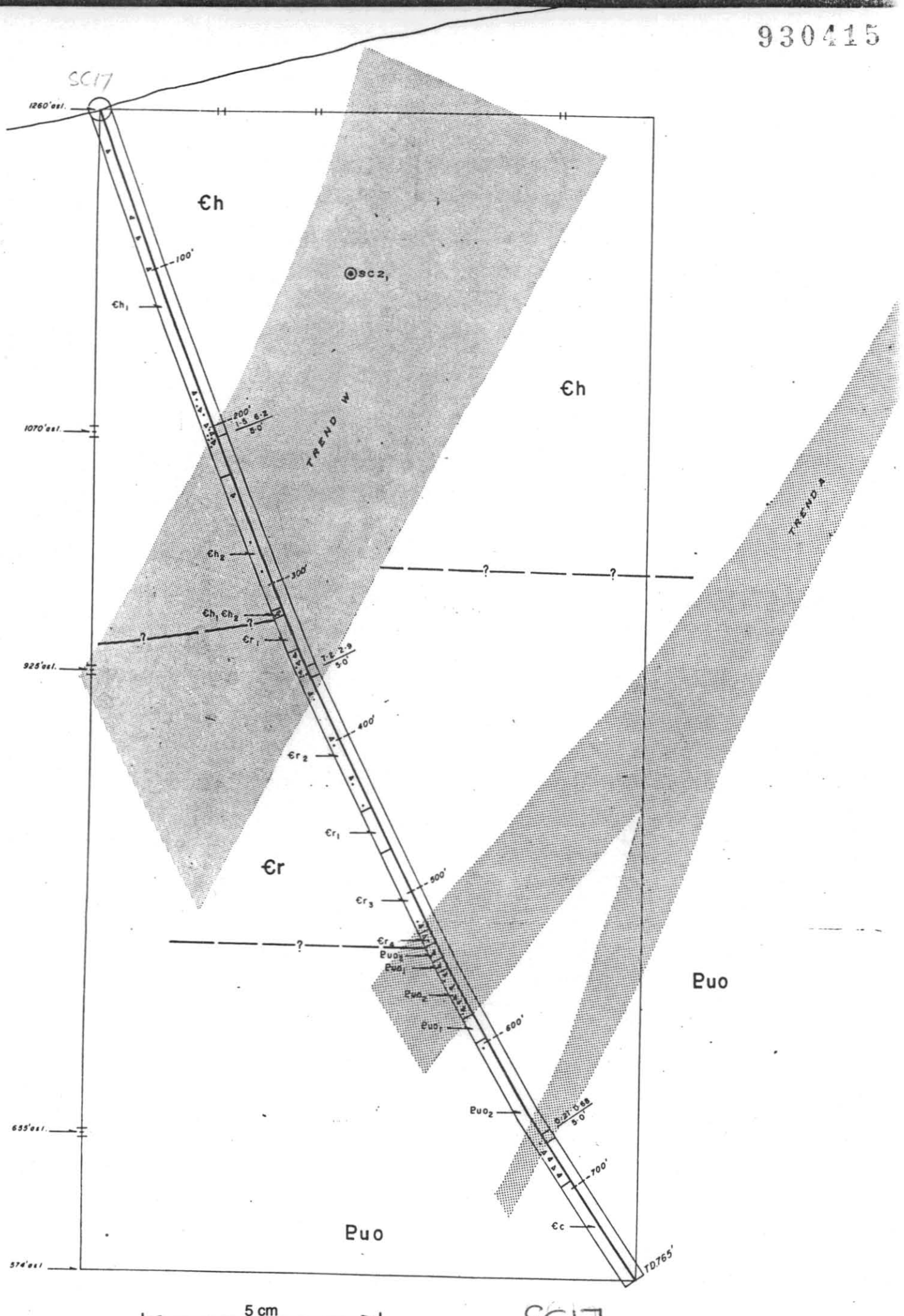


LEGEND

SC 16 .. 1" = 50'

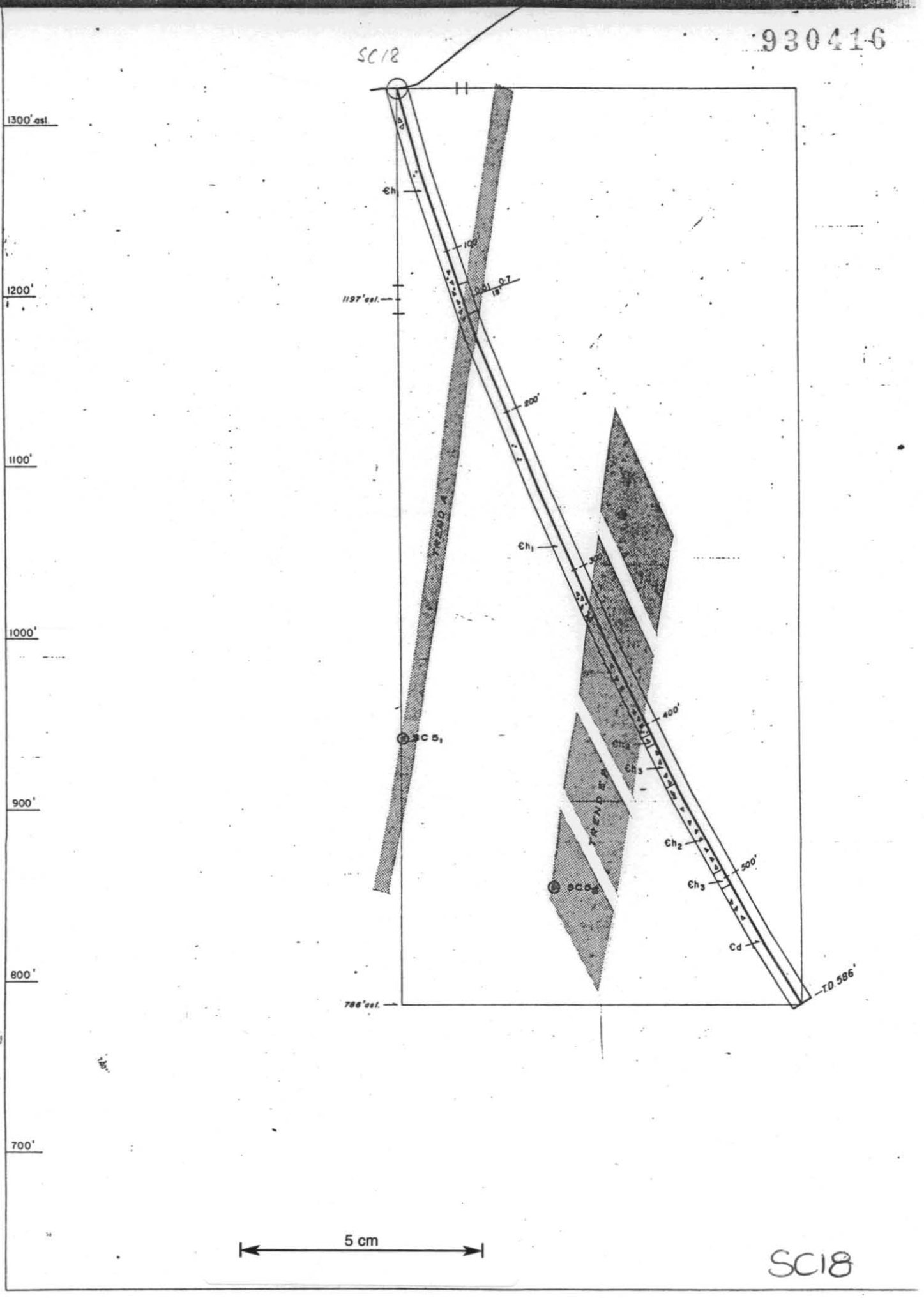
- €h — SILTSTONE: from light to dark grey. MUDSTONE: cream and grey. SHALE: dark grey.
- €r1 — DOLOMITE: grey-greenish, with interbedded layers of fuchsite conglomerate.
- Fault dashed where indefinite, questioned where inferred. Arrows showing relative movement.
- Contact dashed where indefinite, questioned where inferred.
- Bedding

930415


SC17
1260'asl.
Єh
100'
SC2₁
Єh₁
Єh
200'
1·5 6·2
5·0'
1070'asl.
TREND W
TREND A
Єh₂
300'
Єh₁ Єh₂
Єr₁
7·2 2·9
5·0'
925'asl.
400'
Єr₂
Єr₁
Єr
500'
Єr₃
Єr₄
Ꝑuo₃
Ꝑuo₁
Ꝑuo₂
Ꝑuo₁
600'
Ꝑuo
Ꝑuo₂
5·27 0·68
5·0'
655'asl.
700'
Єc
Ꝑuo
574'asl
TD765'
5 cm
SC17

930416

SC18



SC18

LEGEND

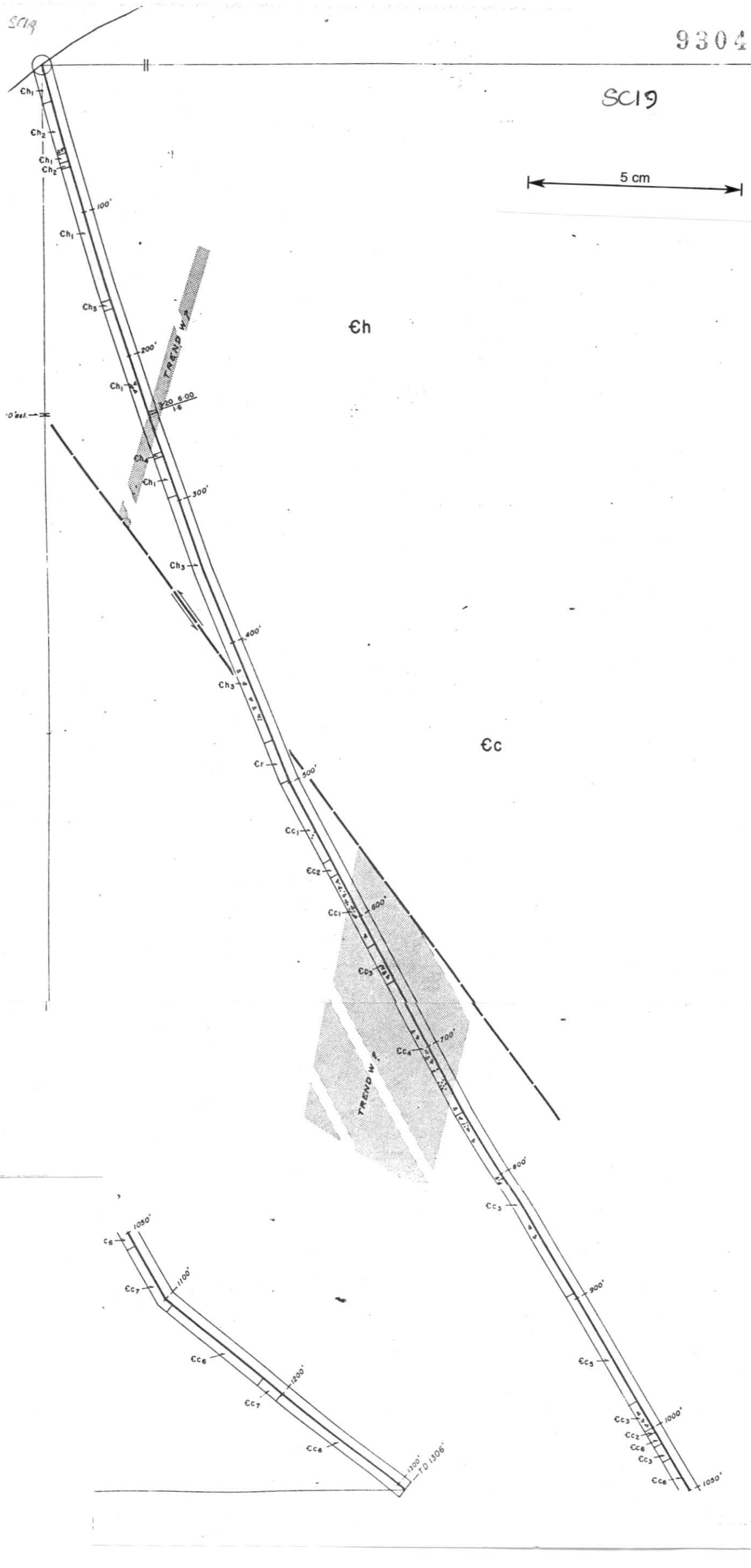
SC18

SC19

930417

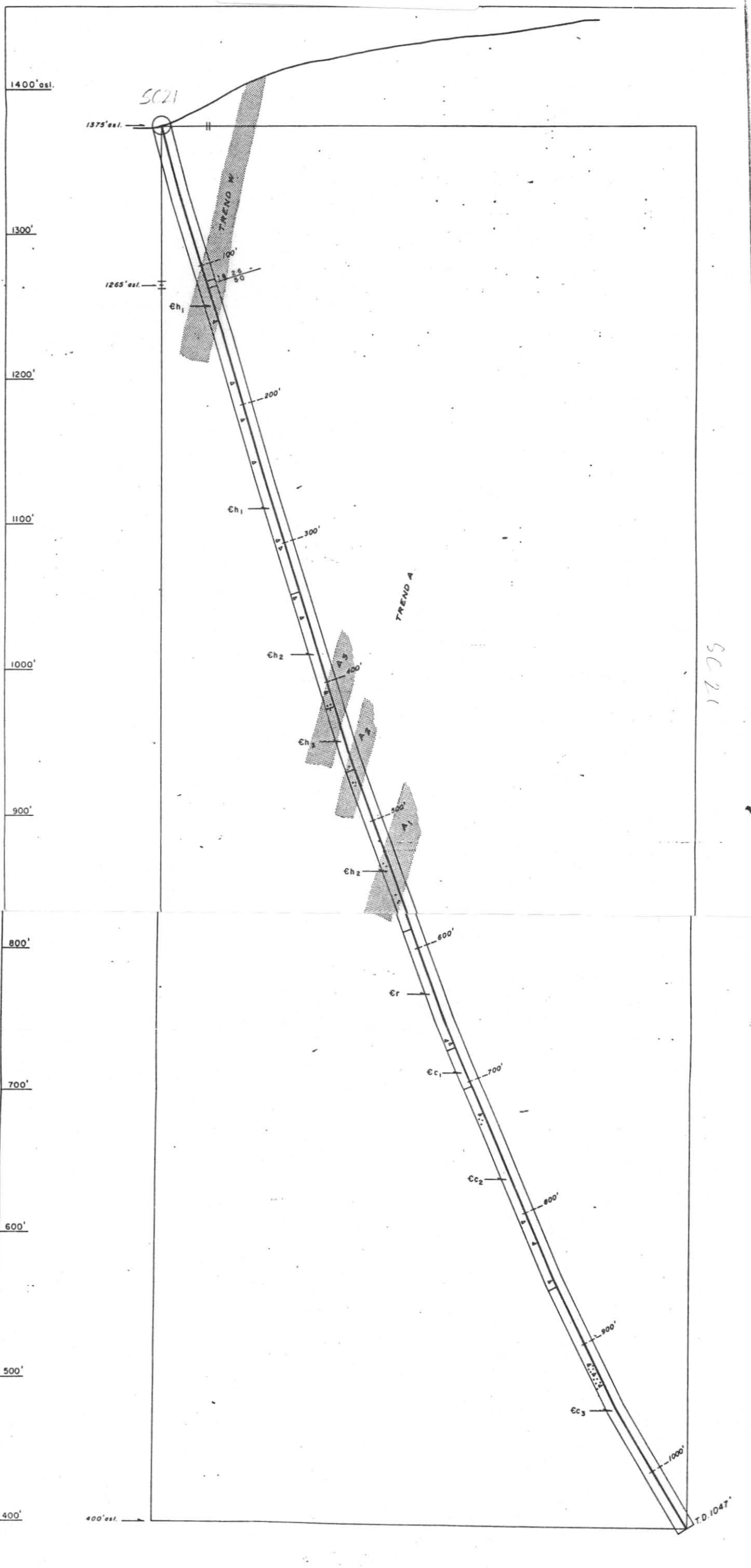
SC19

5 cm

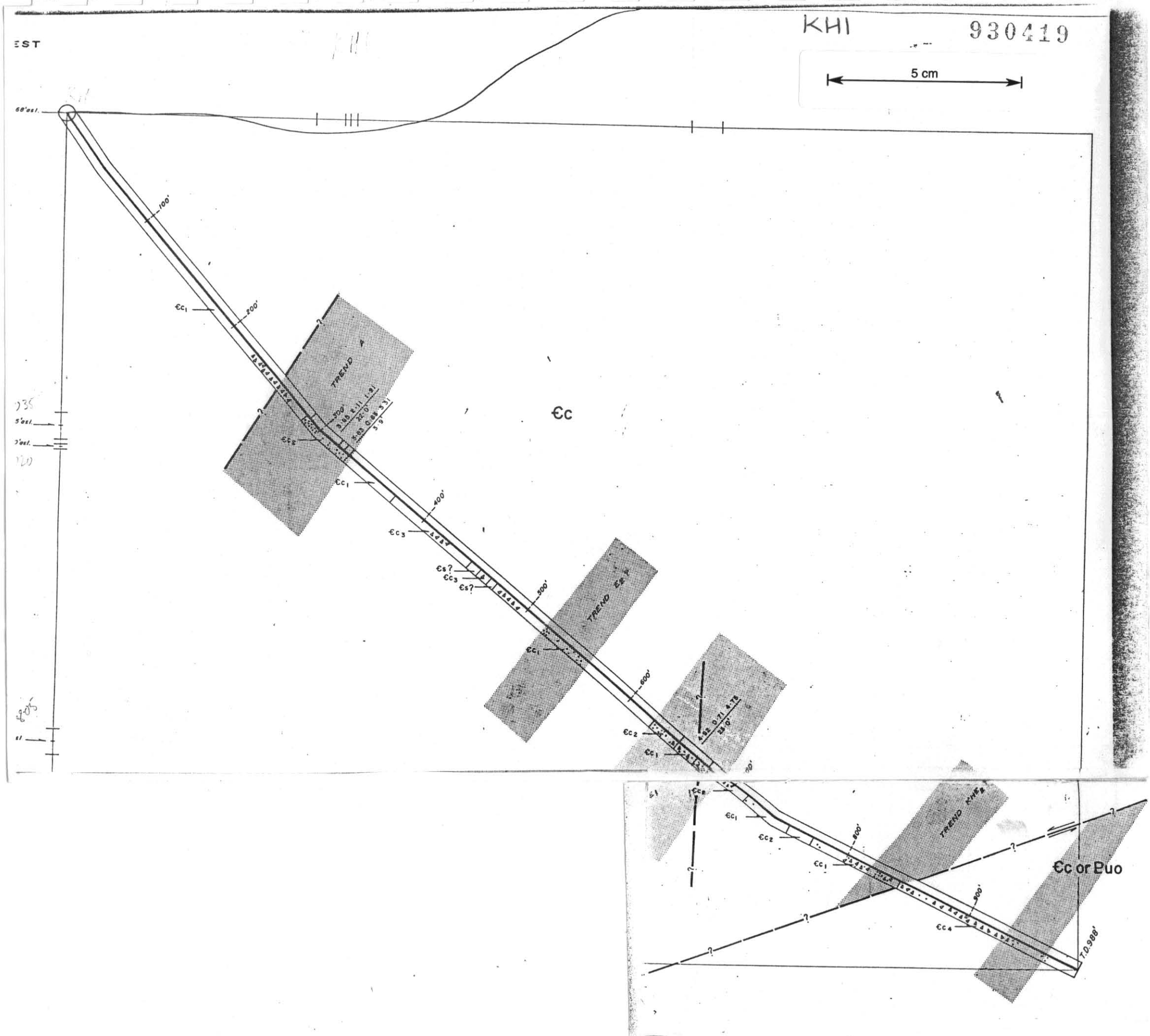


930418

SC21

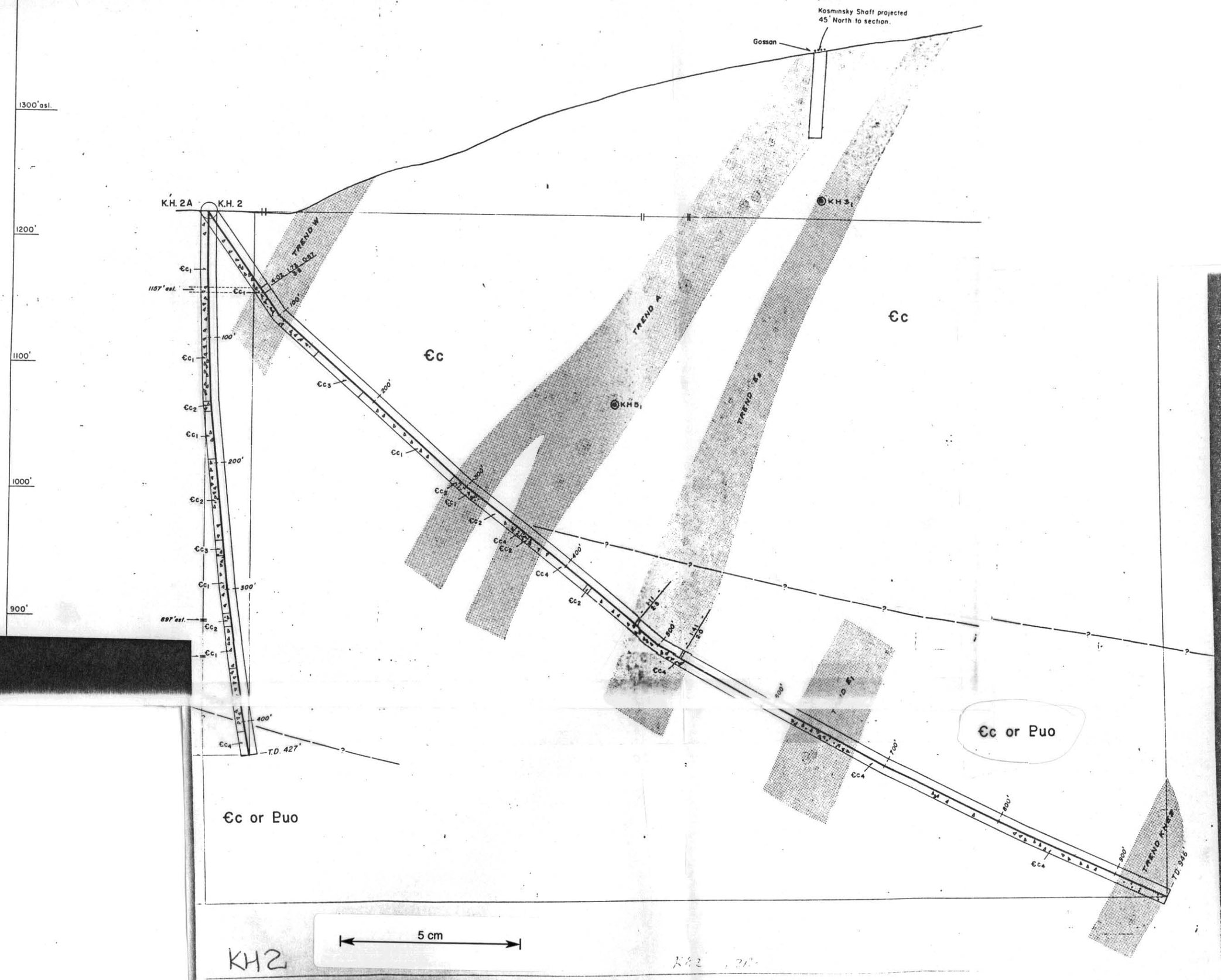


5 cm
1400' asl.
1375' asl.
1300'
1265' asl.
1200'
1100'
1000'
900'
800'
700'
600'
500'
400'
400' asl.
SC21
TREND W
TREND A
100'
200'
300'
400'
500'
600'
700'
800'
900'
1000'
Єh1
Єh2
Єh3
Єr
Єc1
Єc2
Єc3
T.D. 1047'



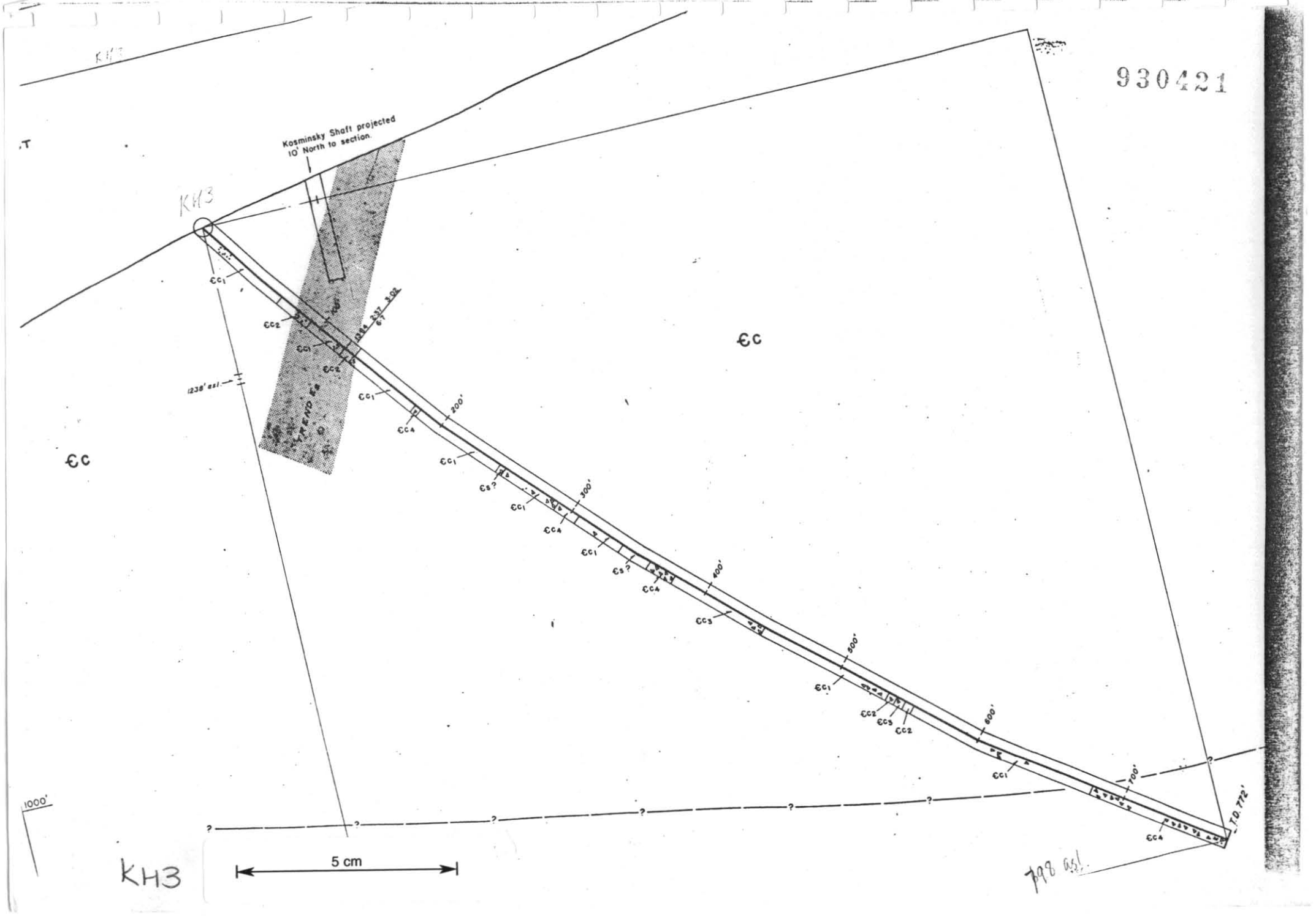
KHI
930419
5 cm
EST
68'asl.
100'
200'
300'
400'
500'
600'
800'
900'
Єc
Єc1
Єc2
Єc3
Єc4
Єs?
TREND A
TREND E2
TREND KHE2
Єc or Ꝑuo
T.D.988'

930420



Kosminsky Shaft projected 45' North to section.
Gossan
1300' asl.
1200'
1100'
1000'
900'
K.H. 2A
K.H. 2
TREND W
TREND A
TREND E2
TREND E1
TREND KH2
KH3
KH5
€c
€c or Ꝑuo
€c or Ꝑuo
1157' asl.
897' asl.
T.D. 427'
T.D. 946'
5 cm
KH2

930421

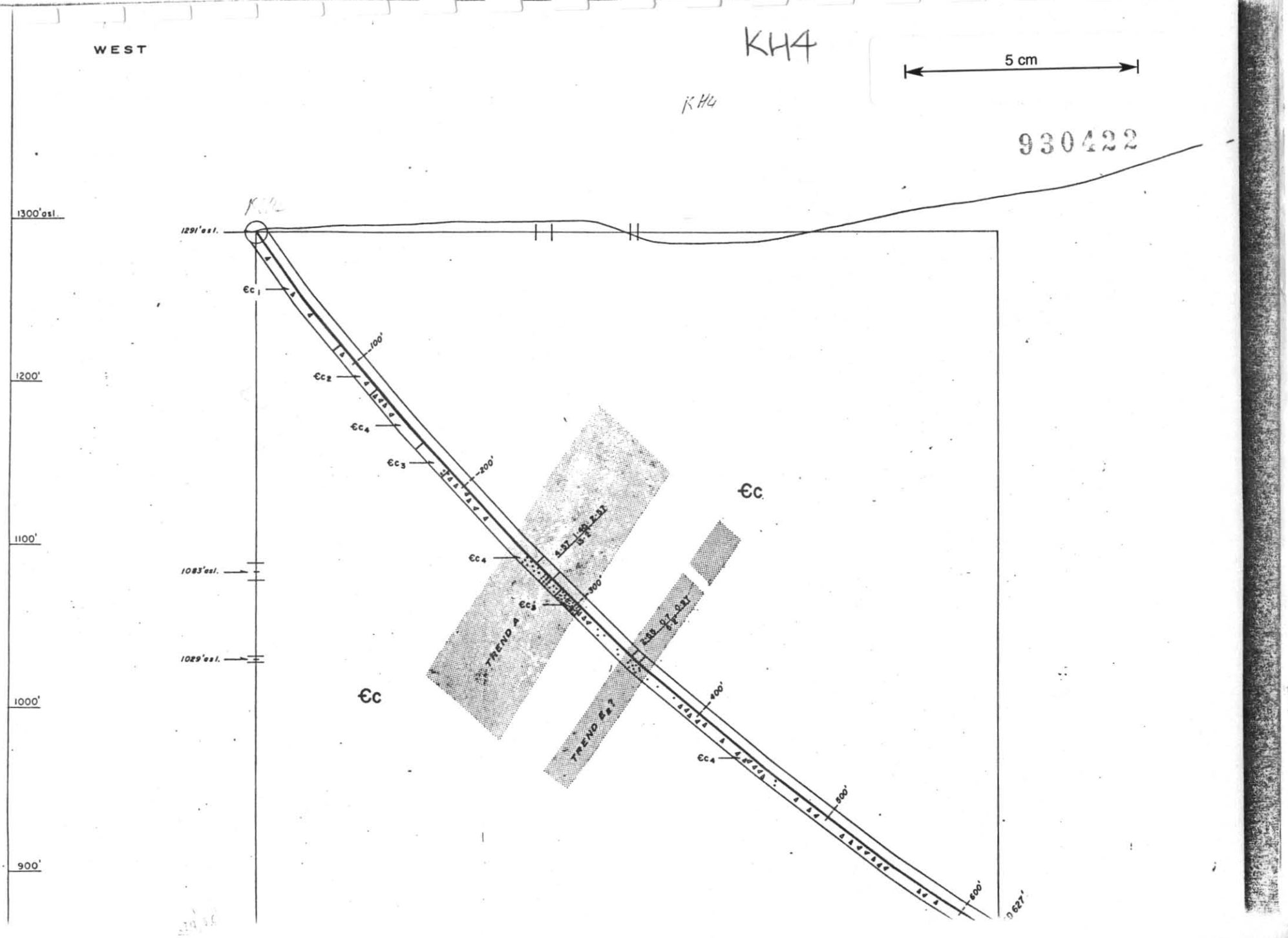


Kosminsky Shaft projected 10' North to section.
KH3
€c
€c
€c1
€c2
€c4
€s?
€c3
1238' asl.
200'
300'
400'
500'
600'
700'
T.D. 772'
1000'
5 cm
KH3
798 asl.

KH4

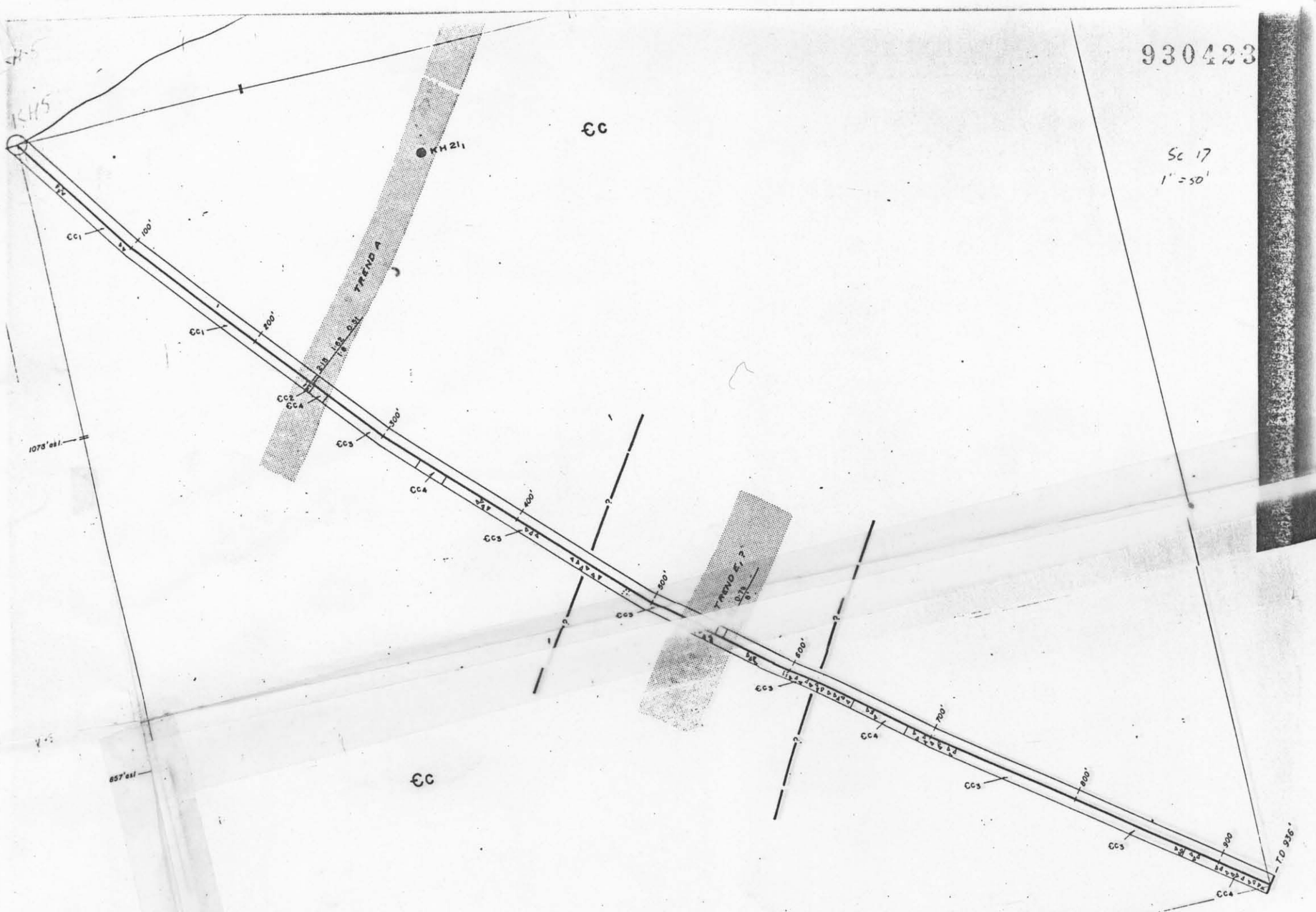
KH4

930422



930423

Sc 17
1" = 50'



LEGEND

SHALE AND SILTSTONE : variegated purple, pink, red-brown and green. €c1

DOLOMITE : light grey. €c2

SHALE (and probably SILTSTONE): light to dark grey, commonly laminated. €c3

SHALE (and probably SLATE): medium-dark grey, commonly graphitic €c4

Fault dashed where indefinite, questioned where inferred. Arrows showing relative movement.

Contact dashed where indefinite, questioned where inferred.

Brecciation.

Pb, Zn mineralization.

0·29 0·52 1·21 / 6·5 — Pb% Zn% Ag oz. / True width (feet)

KH2O3 — Mineralization projected to this section from adjacent drill hole. Subnumbers indicate the sequence of mineralization from collar of projected hole.

5 cm

Sc

50 0

25 0

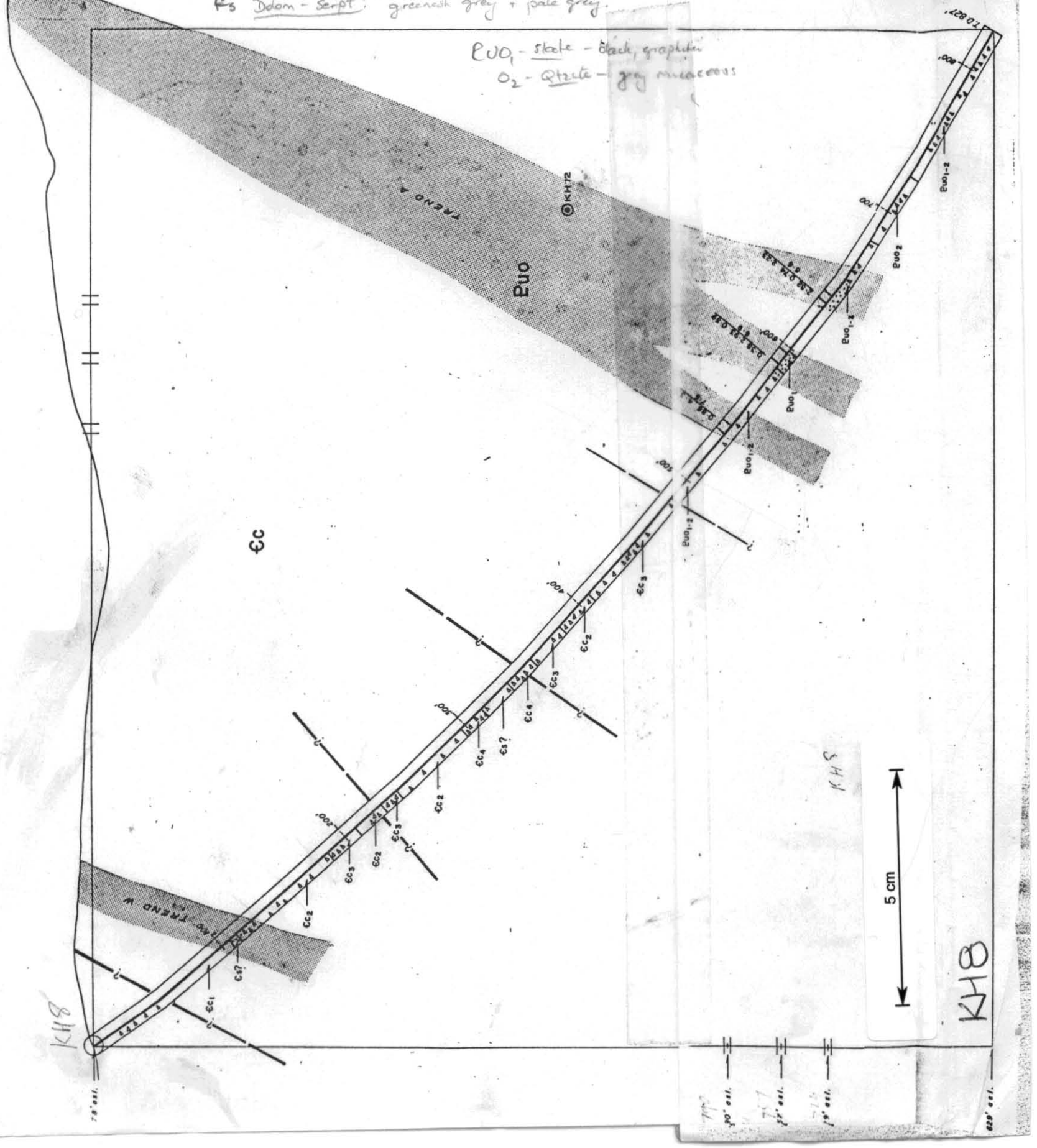
KH5

KH5

930424

Ꞓc1 Slst/sst med grey, dolomitic, often qtzose
C2 Dolomitic pale grey arenaceous
C3 Slst - dark grey-black, pyrite + highly graphitic
C4 Meta Volcanics - dark grey - greeny grey, abundant white-pink kaolinised clay
C5 Slate - black, pyrite + highly graphitic
C6 SST - pale grey, dolomitic + commonly pyritic, thin bands slst/mdst (khaki - dark grey)
C7 Mdst + Slst - khaki, pale-dark grey sedi, deform struct common
Ꞓs Dolom - Serpt? greenish grey + pale grey.

ꝑuo1 - Slate - black, graphitic
O2 - Qtzite - grey micaceous



930425

KH9

5 cm

KH9

KH 14

KH 13

Cc

Cc

Cc1

Cc2

400'

300'

757' est.

743' est.

635' est.

625' est.

Puo

Puo?

T.D. 923'

850'

750'

650'

550'

Fault dashed where indefinite, questiona where inferred. Arrows showing relative movement.

Contact dashed where indefinite, questil where inferred.

Brecciation.

Pb, Zn mineralization.

0.52 1.21 / 6.5 — Pb% Zn% Ag oz / True width (feet)

KH20 — Mineralization projected to this section adjacent drill hole. Subnumbers indicate the sequence of mineralization from collar of projected

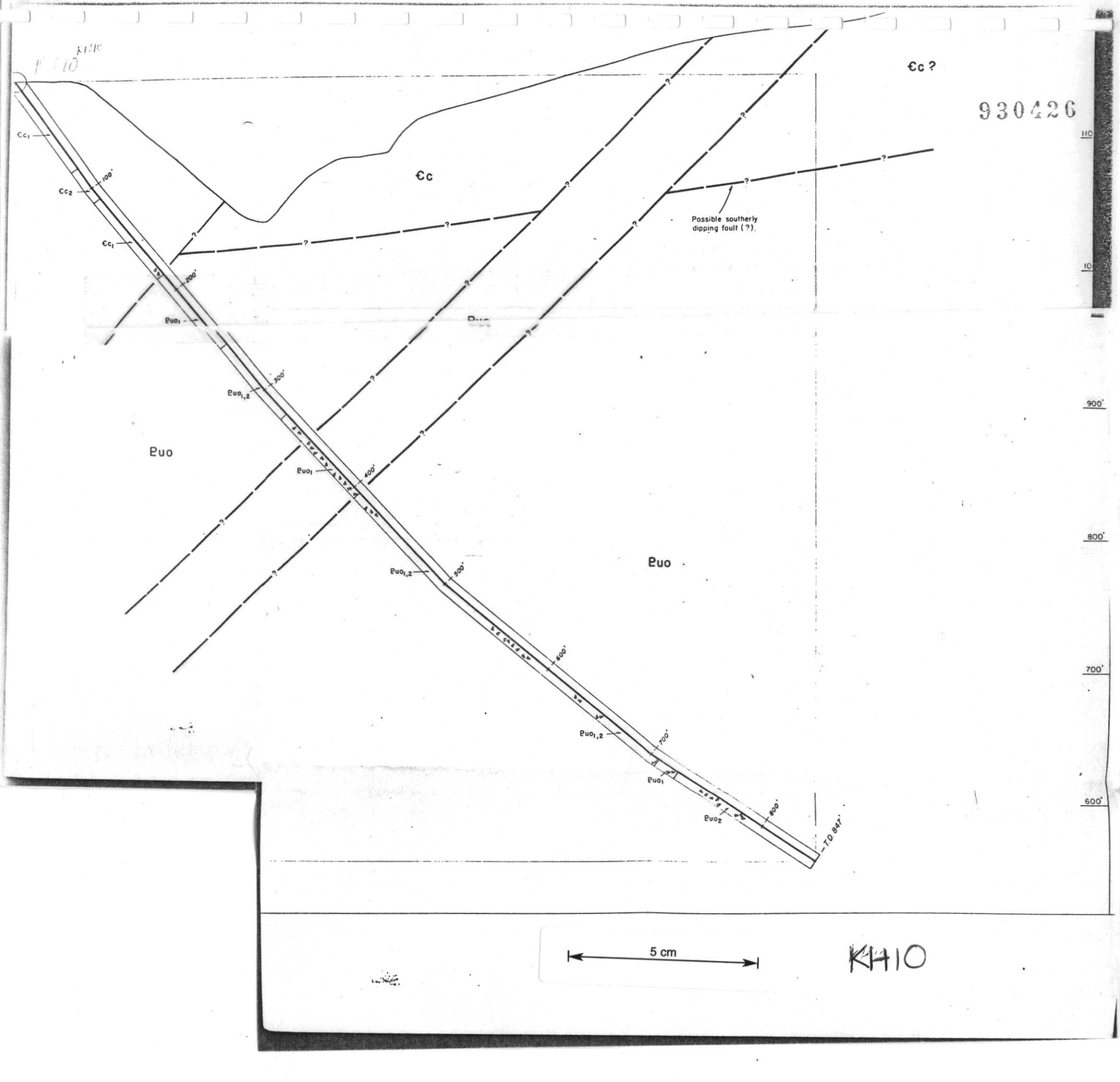
Scale: 50 Feet to 1 Inch

50 0 50 100

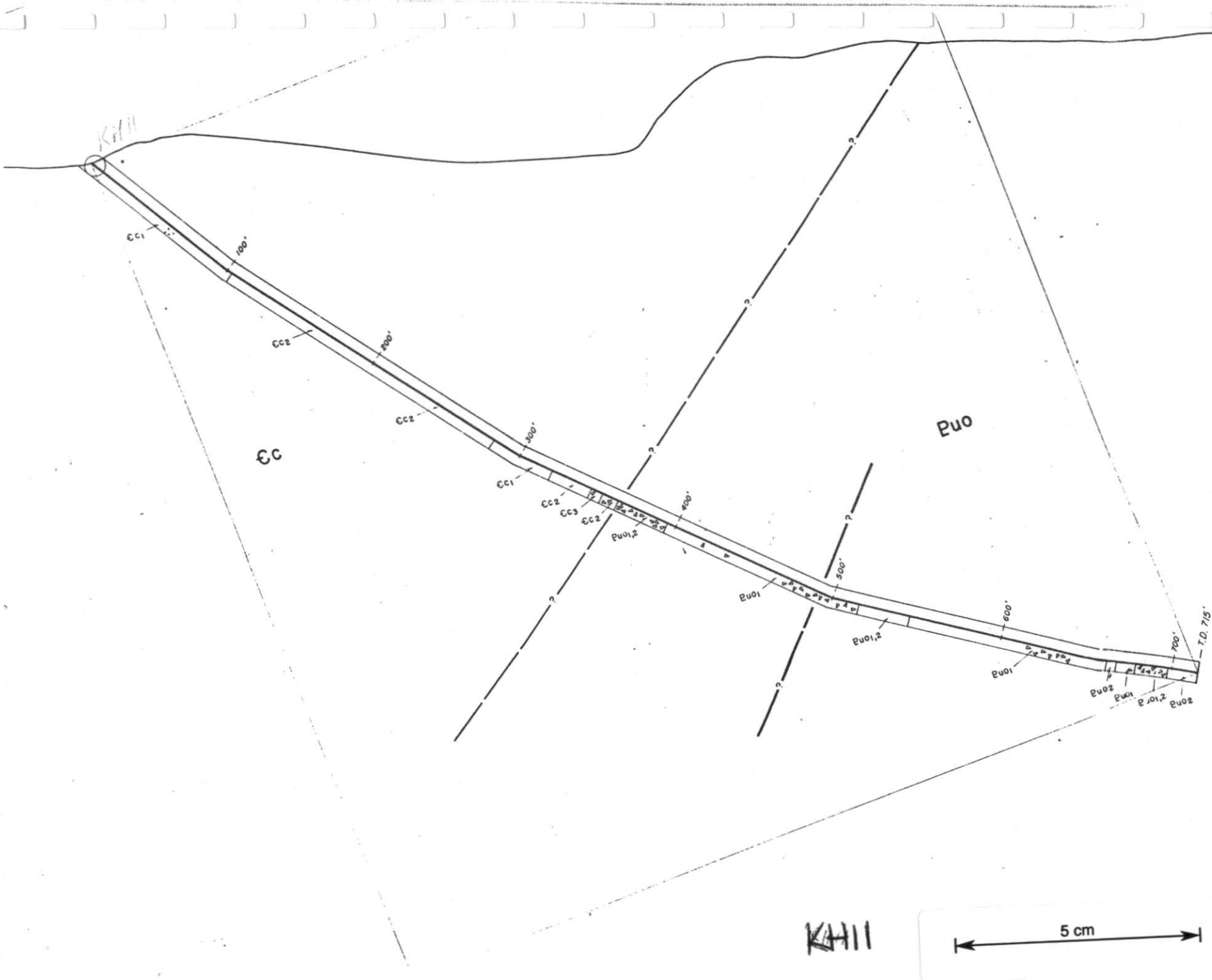
25 0 25

KH9

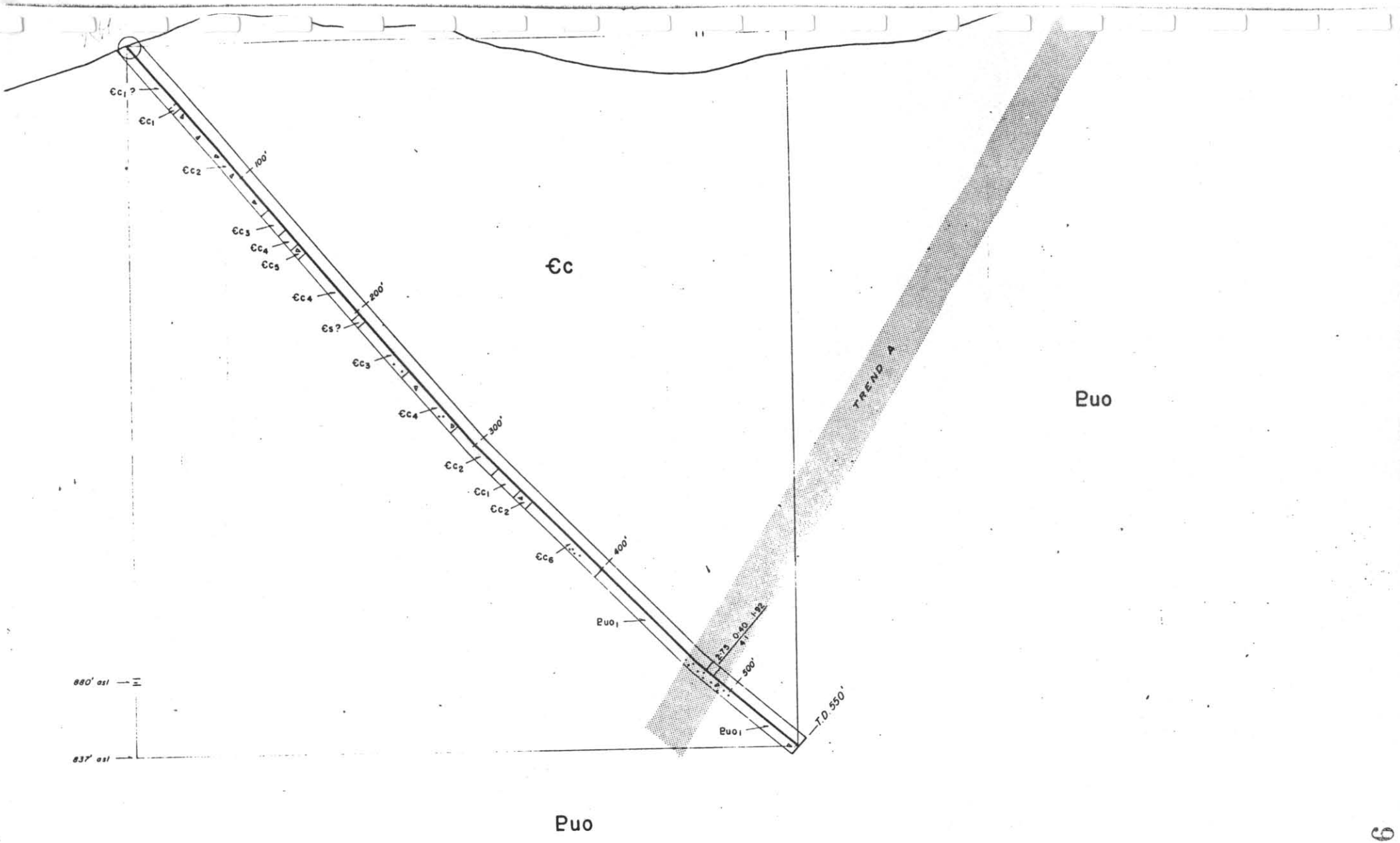
930426


Cc ?
Cc
Possible southerly dipping fault (?).
Cc1
Cc2
100'
Cc1
200'
Puo1
Puo1,2
300'
Puo
Puo1
400'
Puo1,2
500'
Puo
600'
Puo1,2
700'
Puo1
Puo2
800'
T.D 847'
110
10
900'
800'
700'
600'
5 cm

KH10


KH11
CC1
100'
CC2
200'
CC2
CC
300'
CC1
CC2
CC3
CC2
Puo1,2
400'
Puo
Puo1
500'
Puo1,2
600'
Puo1
700'
T.D. 715'
Puo2
Puo1
Puo1,2
Puo2
KH11
5 cm

930427

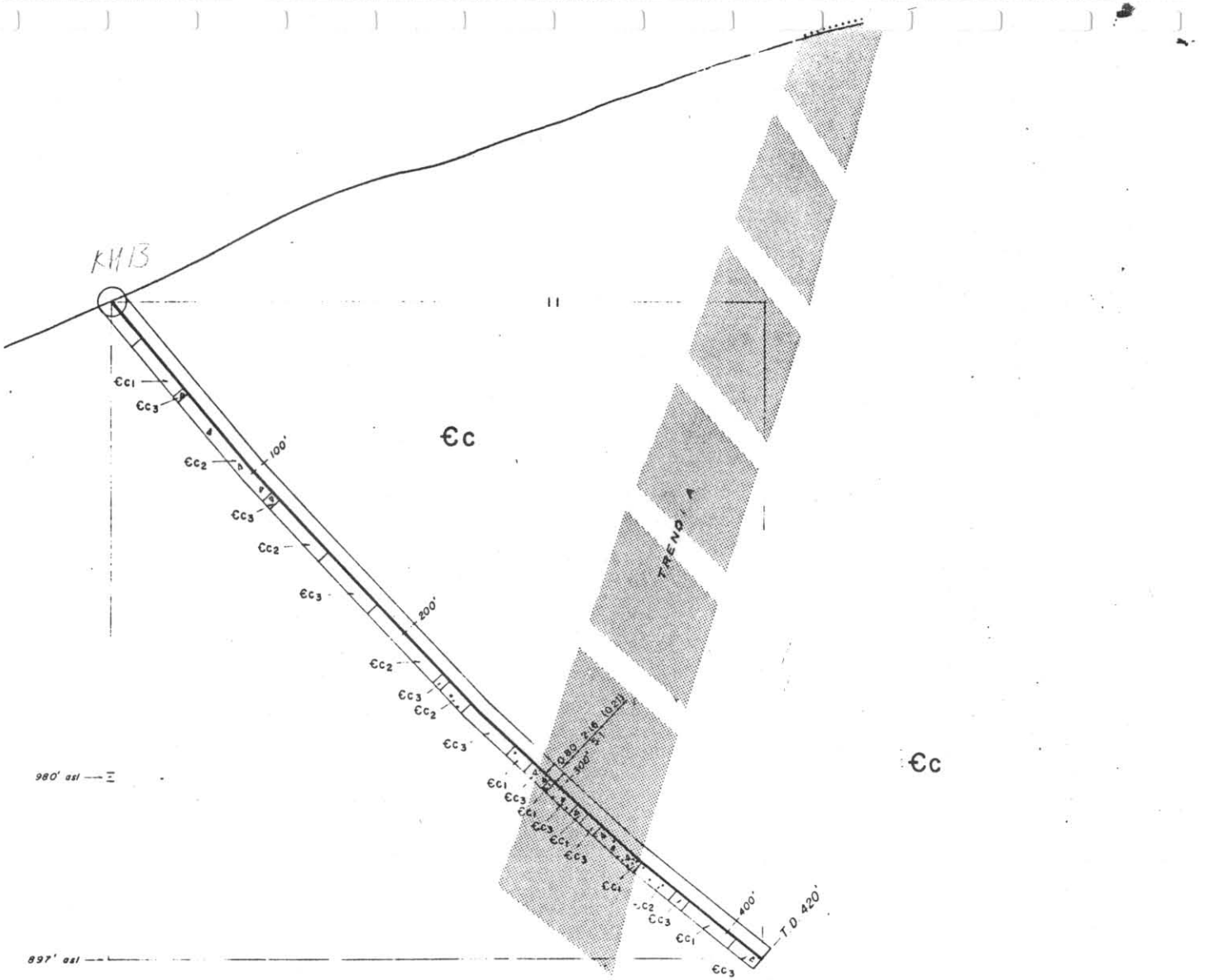


KH12

KH12

5 cm

930428

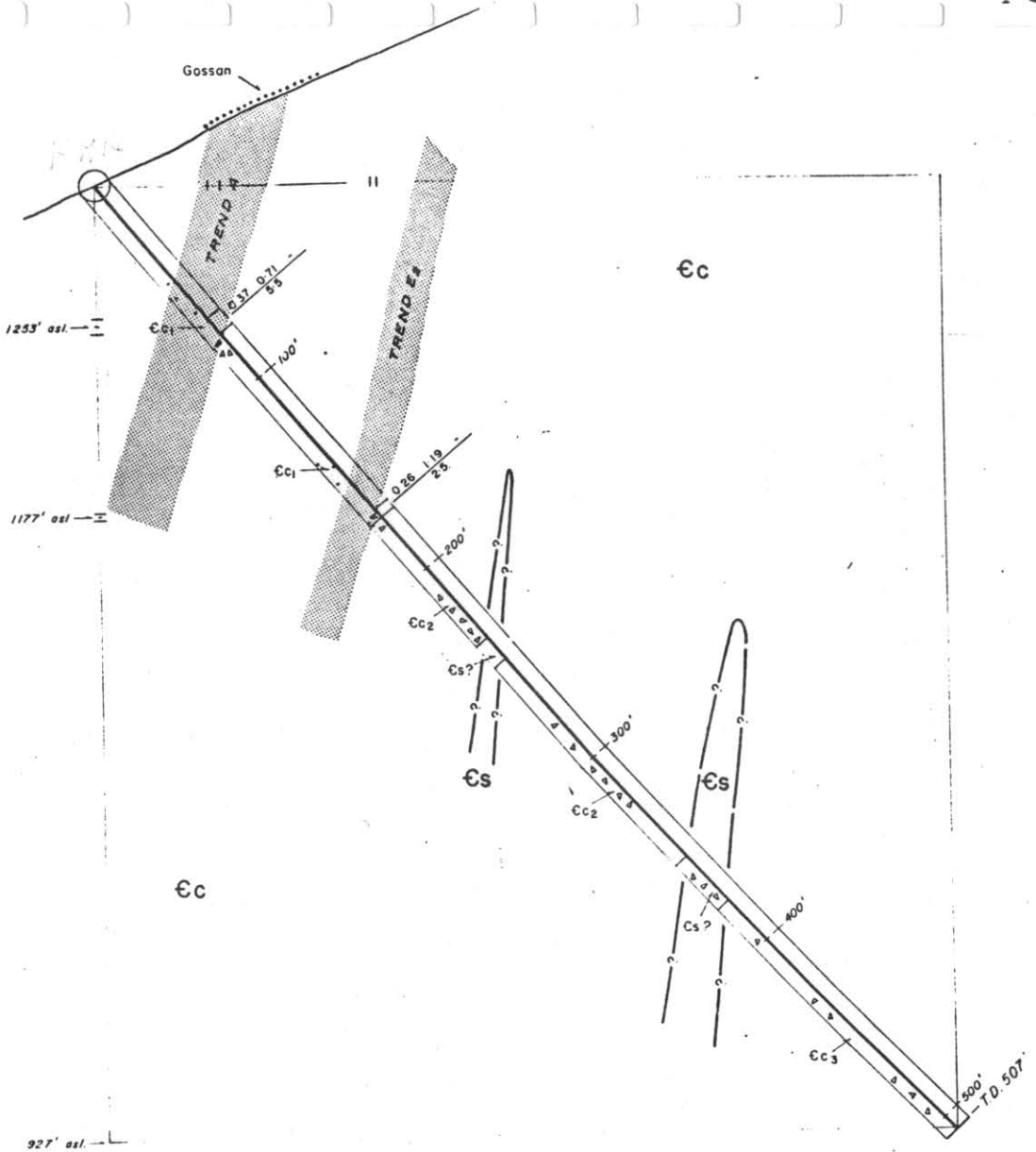


5 cm

KH13

KH13

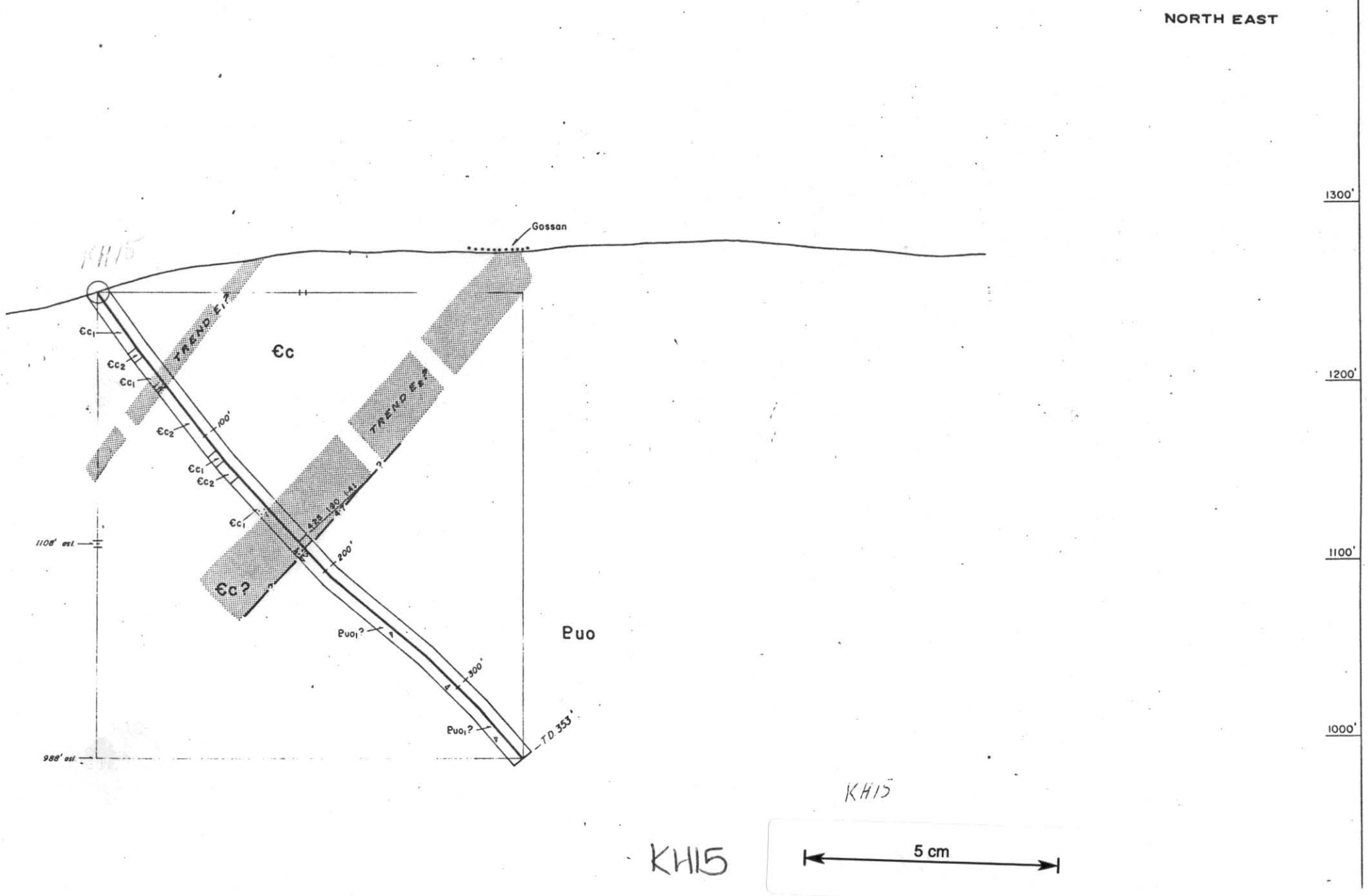
930429



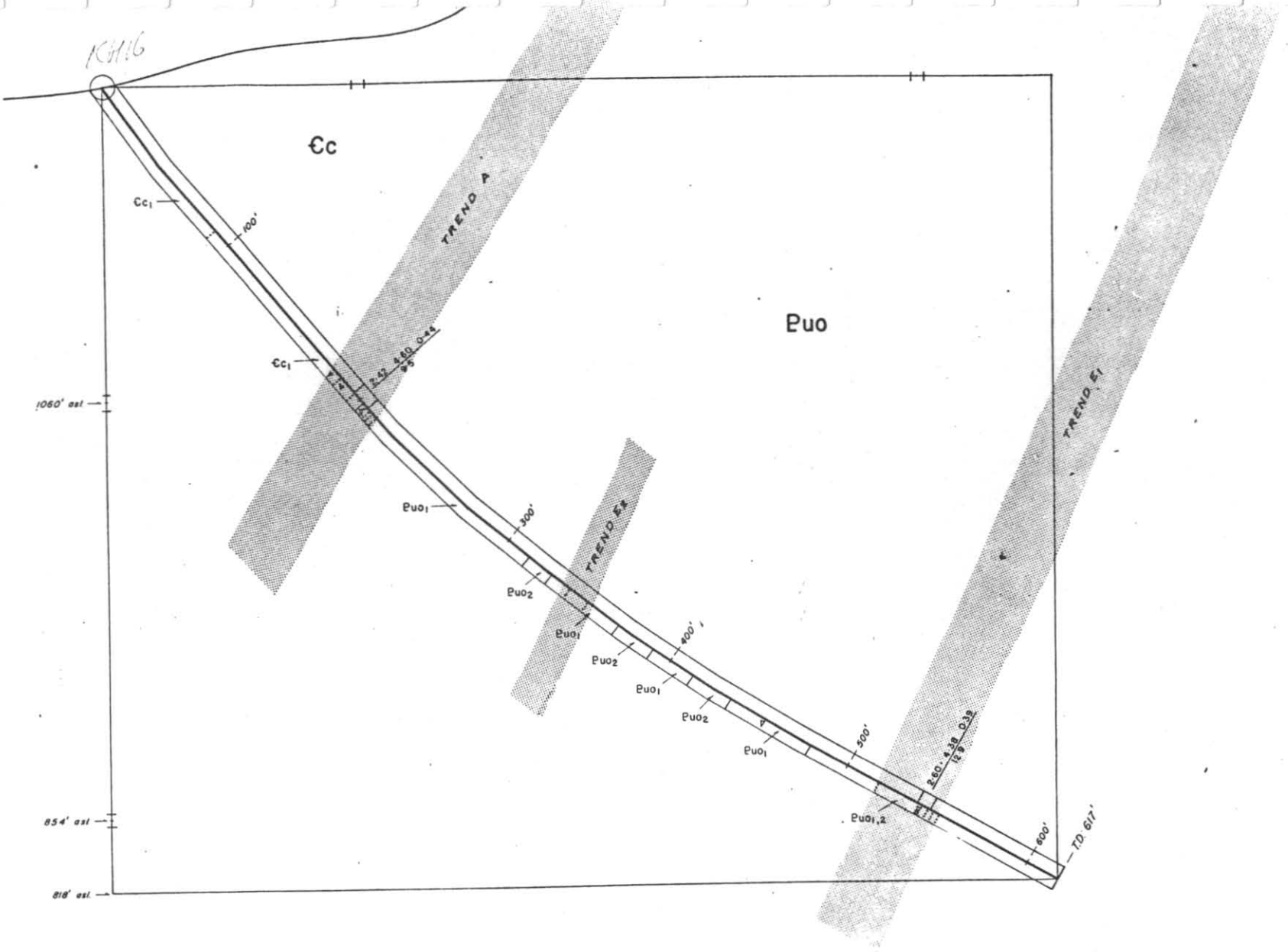
KH14

5 cm

930430


NORTH EAST
1300'
1200'
1100'
1000'
Gossan
KH15
TREND E1?
TREND E2?
€c
€c?
€c1
€c2
100'
200'
300'
Puo
Puo1?
T.D. 353'
1108' asl
988' asl
KH15
KH15
5 cm

930431



KH16

KH16

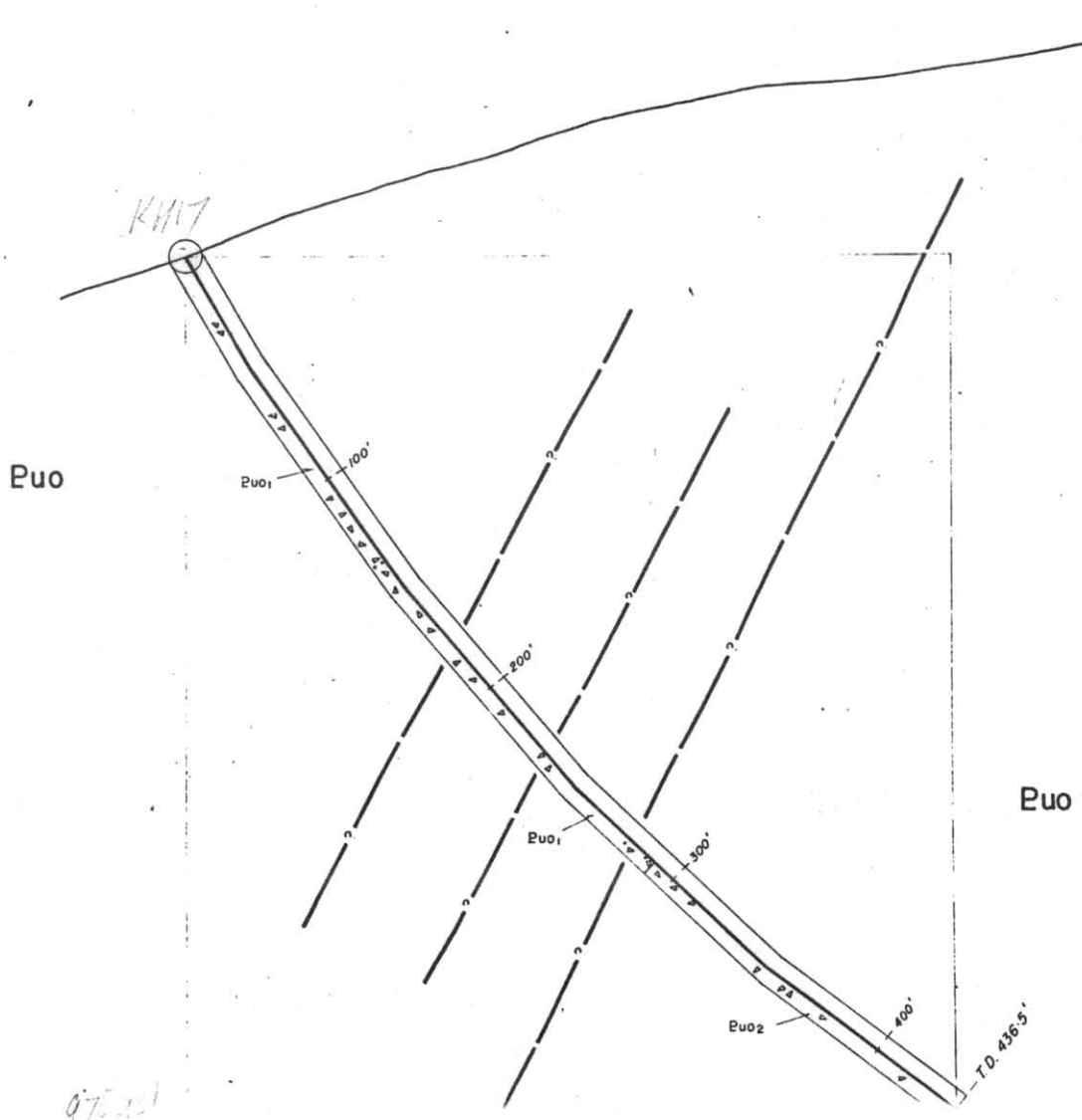
5 cm

9307232

KH17 KH17

UTH WEST

5 cm

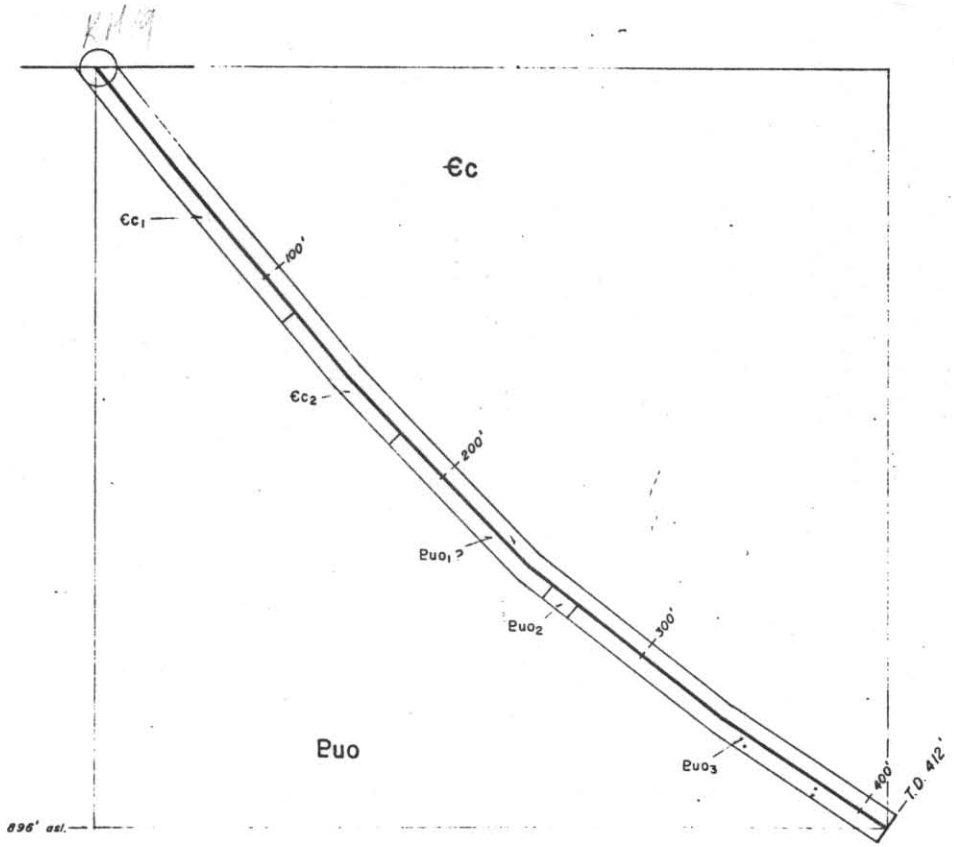


9304363

KH 13

KH18

930434



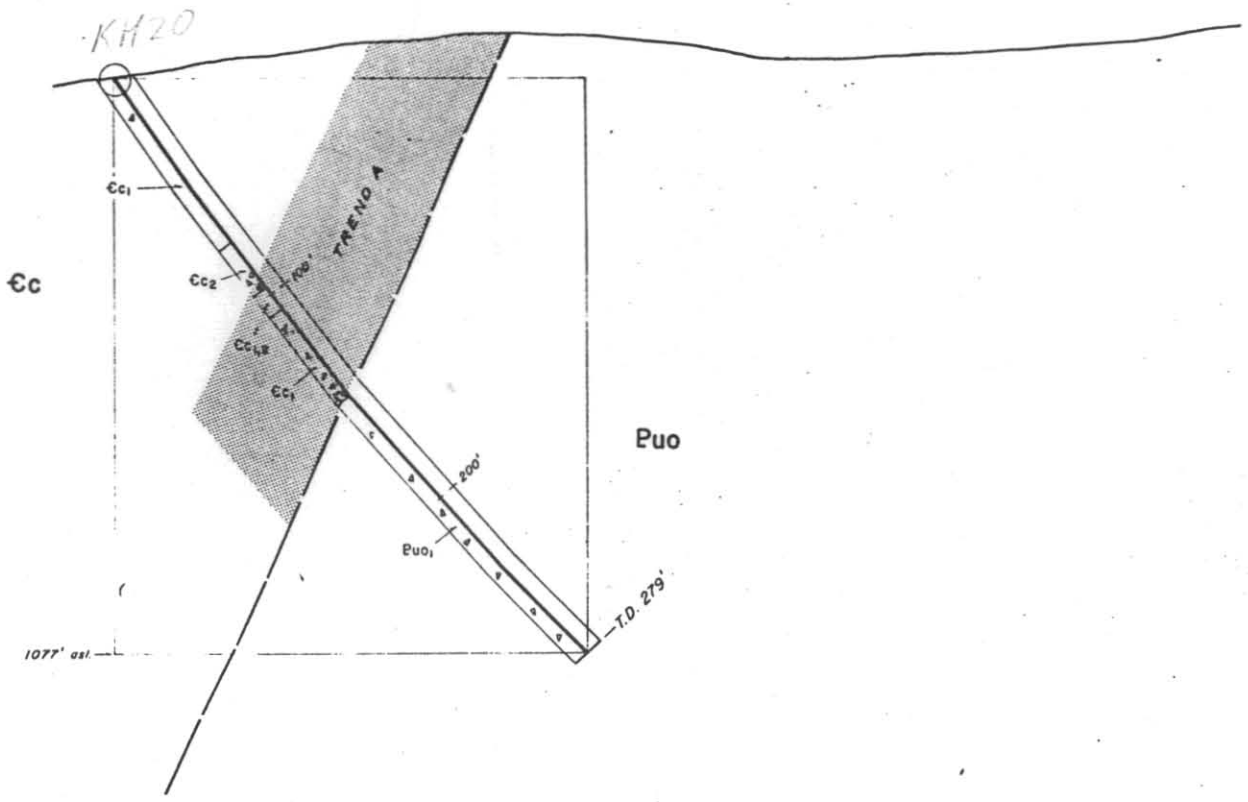
KH19

KH19

5 cm

930435

UTH WEST



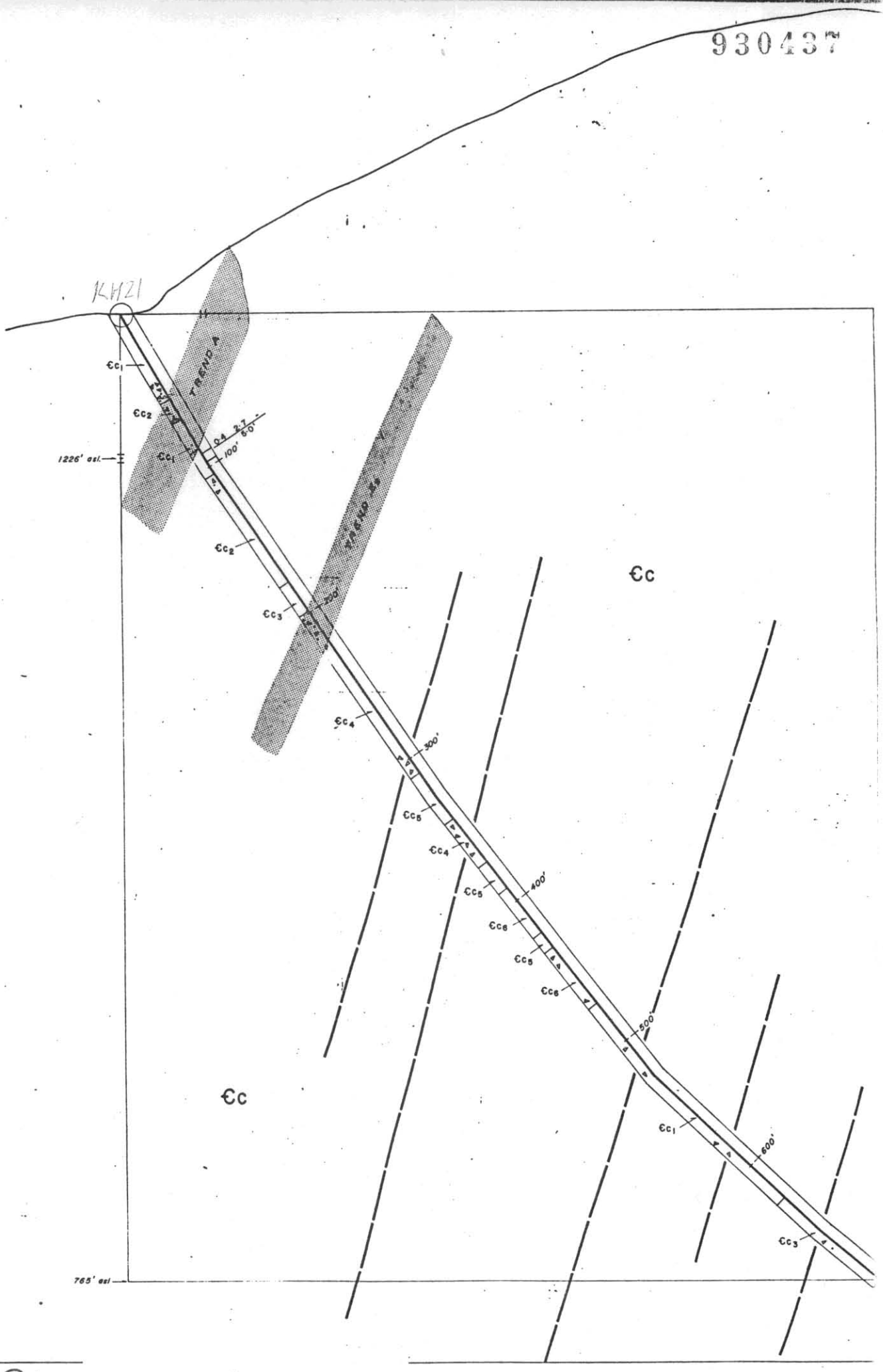
KH20

5 cm

KH20

930436

930437

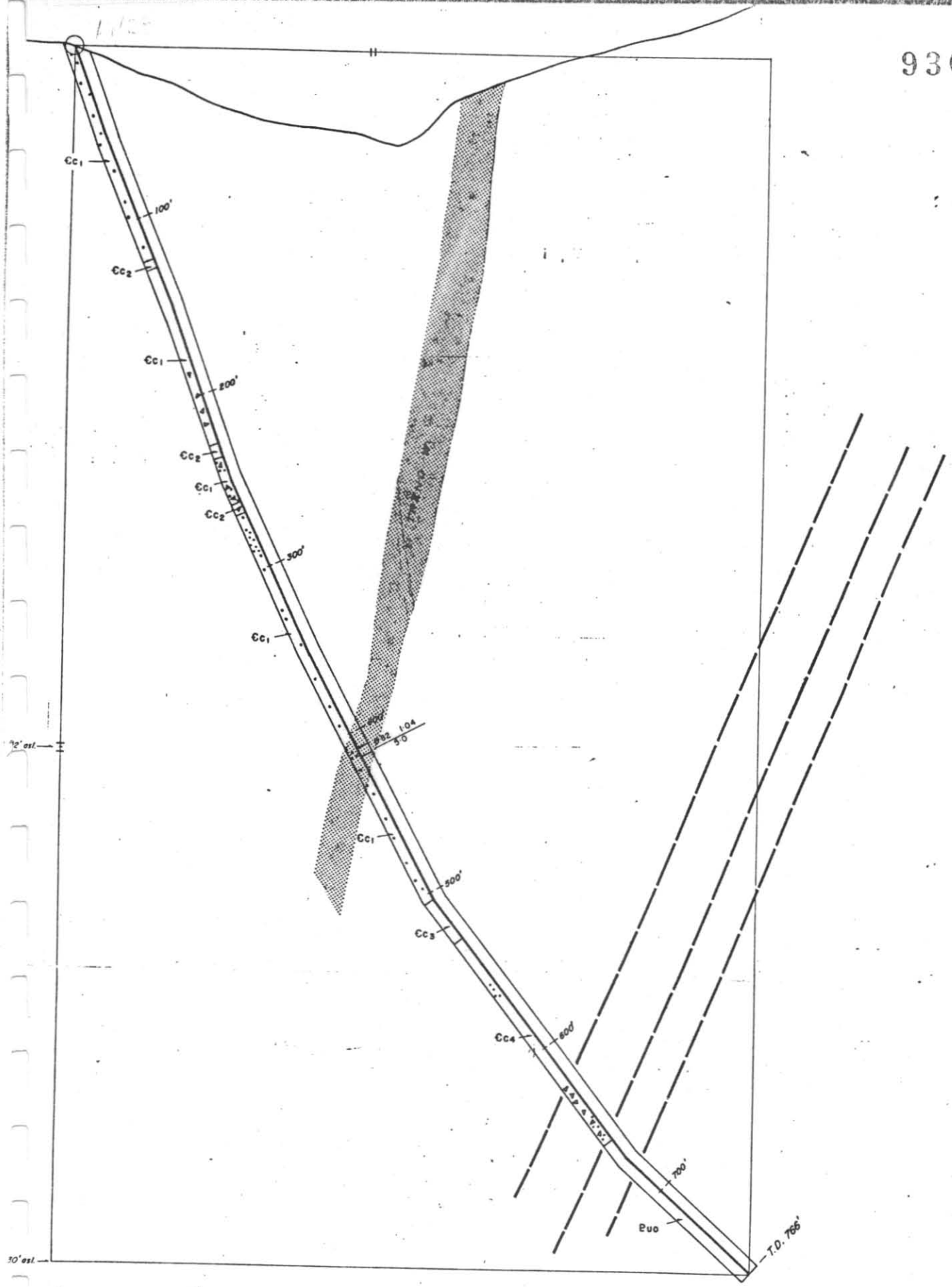


KH21

5 cm

LEGEND

930438



5 cm

KH23

930439

APPENDIX XIX

GEOPHOTO RESOURCES CONSULTANTS
KOSMINSKY HILL WEST
DRILLING SUMMARY

and 5) were discussed in Geophoto Report 1970/41. The proposals for KHW-2 onwards had been later refined somewhat before these holes were drilled.

KHW-1A was proposed in Geophoto Report 1970/41, and drilled at a steeper angle under KHW-1, mainly as a control on the dip of the lithologic units and mineralized zones intersected in KHW-1.

Results indicate that the dip is westerly instead of easterly as previously assumed and that the mineralized zones are weaker. Several moderately rich but narrow mineralized zones were intersected. These zones are weakened by averaging to mineable widths, i.e., 152'3-156' (1.43% Pb, 0.78% Zn, 0.72 ozs Ag) as disseminated blebs and veinlets of galena-sphalerite in siltstone with carbonate; 191-196'4" (0.98% Pb, 1.44% Zn, 0.69 ozs Ag), as blebs and disseminations of galena, sphalerite and pyrite with one 6" vein of siltstone; 199'9-205' (2.27% Pb, 1.76% Zn, 1.05 ozs Ag) as siderite, pyrite, galena and sphalerite veins in calcareous siltstones; and 279'6-279'6" (1.5% Pb, 2.53% Zn, 0.76 ozs Ag) as small veins and blebs of sphalerite with galena and pyrite in a breccia of black slaty shale and carbonate rock.

KHW-2 and successive holes were drilled easterly under a surface "gossan" anomalously high in Pb and Zn. Only limited

Mines Department VLF data were available at the time. KHW-2 was planned to intersect the potentially mineralized contact between serpentinite and Crimson Creek siltstone, mudstone, and dolomite, and to traverse the potentially mineralized Crimson Creek rocks. This hole was drilled in serpentinite from the surface to 118', "gossan" to 237', serpentinite to 265', and then into probable Crimson Creek rocks. Drilling was very difficult and had to be temporarily abandoned before finally being completed.

Core recovery was poor, particularly in the "gossan" but partial core assayed: 118'1"-177' (1.85% Pb, 0.63% Zn, 2.28 ozs Ag).

Nickel values up to 0.26% (177-184') were also encountered. No other significant mineralization was detected, but the poor data from this hole should be considered as inconclusive.

KHW-3 was planned to test the serpentinite, the Crimson Creek Formation and both contacts, as well as to test the main Kosminsky mineralized zone at depth. A long hole, up to 1500 feet, was necessary to reach the latter targets.

The hole was drilled in serpentinite to 17', gossan to 84', serpentinite to 424', then in Crimson Creek rocks to the

bottom of the hole at 1469'. Originally it was thought that the main Kosminsky mineralized zone had not been reached, especially since this zone was interpreted to be a fault contact between the Crimson Creek and Oonah formations. It now appears likely that the main Kosminsky mineralized zone or a subsidiary zone was intersected within Crimson Creek rocks at 1369-1374'. It is likely that considerable lateral deflection exists in this hole. This deflection would shorten the horizontal projection of the intersection (Drawing No. 1/316). Otherwise considerable, possibly excessive, steepening of the main lode or additional faulting of the main lode would be necessary if the 1369-1374' intersection does correlate with the main lode as inferred.

One galena-rich, with pyrite and some chalcopyrite, mineralized zone (5.26% Pb, 0.07% Zn, 2.72 ozs Ag, and 0.40% Cu) in shale with carbonate veining was intersected between 1369-1374'. Other weak mineralization included 1360-1365' (0.27% Pb, 0.32% Zn and 0.27% Cu) and 1421'6-1424'. As mentioned above, the 1369-1374' intersection probably is, or is related to, the main Kosminsky mineralized zone. The first intersections of KH-9 and the KHW-1 and 1A intersections were apparently not intersected in KHW-3. This suggests that these intersections are discontinuous. Additional drilling is required to trace these mineralized zones.

KHW-4 was planned to test a surface geochemical anomaly,

surface mineralization (massive pyrite in a trench), and an aligned series of VLF anomalies, as well as inferred mineralization near the serpentinite contact.

The hole was drilled in Dundas Group rocks, including the Red Lead Conglomerate from the surface to 152', a siderite zone to 161', serpentinite to 674', silica-carbonate alteration rock to 702', and then Crimson Creek rocks to the bottom at 1058'.

Mineralization is weak throughout, with several thin subeconomic zones. The only intersection of interest is between 688-693'6" (0.57% Pb, 0.22% Zn, 0.83 ozs Ag) as minor blebs and veinlets of galena-sphalerite in silica-carbonate alteration rock, with a further assayed interval of 697'10"-699' (1.85% Pb, 1.20% Zn, 1.28 ozs Ag) as blebs of galena-sphalerite in a carbonate vein.

KMW-5 was planned to intersect two mineralized (galena-sphalerite) faulted(?) contacts exposed on the surface, and the inferred Kosminsky Hill West mineralized zone expressed on the surface as a gossan zone.

The hole was drilled in Dundas Group rocks to 583', serpentinite to 758', and then Crimson Creek rocks to the bottom

at 850'. Considerable flattening of the hole occurred.

A six feet intersection of minor blebs of galena-sphalerite in sandstone beds of a shale sequence, between 8'6-74'6 assayed 0.37% Pb, 2.57% Zn. Other sub-economic mineralization was encountered at depth. The Kosminsky Hill west mineralized zone may be expressed as a weakly mineralized carbonate zone intersected between 712'-734'6".

KHW-6: Considerable drilling difficulties were encountered with this hole. Core recovery was poor. Scattered mineralization near the bottom suggested extending the hole but it had to be abandoned due to caving at 297' after an unsuccessful attempt to wedge and drill through the caving zone.

No significant mineralization was encountered in this hole, although zinc values ranging between 0.21-0.41% were maintained in the interval 87-151'. Sub-economic Pb-Zn mineralization (0.32% Pb, 0.20% Zn) was encountered between 193-203'.

KHW-7 was drilled in Dundas Group rocks with serpentinite 97'2-278'2" and 287'-314', and a hematite-limonite mass in 278'2-287'.

No significant mineralization was encountered other

than the sub-economic gossan interval which assayed 0.52% Pb, 0.72% Zn and 0.58 ozs Ag.

Recommendations

Some lead-zinc mineralization has been located in the Kosminsky Hill West area but it is relatively minor and rather erratic in distribution.

It now appears that the prominent "gossan" zones in this area are genetically related to serpentinite and/or silica-carbonate alteration rock rather than to a sulphides deposit. The lead-zinc mineralization may be relatively minor and fracture controlled, somewhat similar to the West Comet and Platt areas.

Sufficient drilling has been done to downgrade the area to the point where it cannot stand alone as an exploration prospect. No further drilling is recommended here at the present time, pending developments in and increased understanding of the main Kosminsky trend. Deep drilling to test the Kosminsky trend is likely to add data about the Kosminsky Hill West mineralization.

930446

APPENDIX XX

GEOPHOTO RESOURCES CONSULTANTS
AINSLIE GRID
SOIL GEOCHEMISTRY

930447

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 003570 PROJECT No.: EL. 7/68 - DUNDAS -AINSLIE EAST STH. COMET

LAB. SHEET No.: 696/2 SAMPLE TYPE: GOSSAN DATE: 28th July, 1971.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm	Cd ppm
T 1	71-F-3496	180	130	190	0.50%	1.05%	4	50	165
T 2	71-F-3497	500	150	700	0.32%	0.66%	14		
T 3	71-F-3498	310	85	540	0.54%	0.78%	28		
T 4	71-F-3499	20	35	50	0.48%	940	4		
T 6	71-F-3500	20	20	30	0.86%	680	3		
T 7	71-F-3501	240	70	305	0.34%	0.86%	24	80	
T 8	71-F-3502	275	125	140	0.40%	0.31%	10		
T 9	71-F-3503	145	40	40	0.29%	1200	4		
T 10	71-F-3504	60	70	50	780	1750	4		
T 11	71-F-3505	1300	255	60	0.33%	0.32%	10		
T 12	71-F-3506	5	105	45	40	110	2		
T 13	71-F-3507	130	55	70	1550	0.42%	4		
T 14	71-F-3508	80	200	85	1650	0.74%	6		
T 15	71-F-3509	860	500	940	0.42%	0.70%	10		
T 16	71-F-3510	180	320	135	0.56%	0.82%	6		
T 17	71-F-3511	120	40	980	680	420	2	75	
T 18	71-F-3512	110	35	190	150	490	2		
T 19	71-F-3513	215	60	150	0.58%	490	4		
T 20	71-F-3514	35	15	30	0.45%	740	4		
T 21	71-F-3515	50	25	60	0.44%	740	4		
T 22	71-F-3516	40	40	60	1.45%	0.30%	7		
T 23	71-F-3517	90	25	45	0.29%	760	6		
T 24	71-F-3518	50	30	40	0.35%	660	14		
T 25	71-F-3519	60	20	30	0.52%	0.27%	8		
T 26	71-F-3520	0.27%	375	620	0.78%	0.48%	8	95	
T 27	71-F-3521	110	50	65	0.29%	0.26%			
T 28	71-F-3522	15	20	35	0.26%	1850	4		
T 29	71-F-3523	80	30	50	0.96%	0.46%	12		
T 30	71-F-3524	5	10	5	400	210	2	45	
T 31	71-F-3525	640	105	50	600	0.42%	4		
T 32	71-F-3526	30	35	40	330	270	5		
T 33	71-F-3527	20	35	30	40	50	2		
T 34	71-F-3528	90	30	35	1850	0.21%	8		
T 35	71-F-3529	110	10	20	1750	1.20%	110		60
T 36	71-F-3530	100	85	40	0.21%	0.37%	4		
T 37	71-F-3531	70	25	50	1.45%	0.86%	10		
T 40	71-F-3532	760	20	40	3.5%	0.78%	55		
T 41	71-F-3533	50	30	40	0.72%	2.7%	18		
T 42	71-F-3534	65	30	50	0.23%	780	6	170	

METHODS:
Cu, Ni, Co, Pb, Zn, Ag by G.R.C. NO. 1
Mo by G.R.C. NO. 2
Cd by G.R.C. No. 7

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Chief Chemist

File only.

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 003570 PROJECT No.: EL.7/68 - DUNDAS -AINSLIE EAST STH. CON

LAB. SHEET No.: 696/3 SAMPLE TYPE: GOSSAN DATE: 28th July, 1971.

SAMPLE No.	LAB. No.	Sb ppm
T 1	71-F-3496	30
T 7	71-F-3501	30
T 17	71-F-3511	BLD
T 26	71-F-3520	780
T 30	71-F-3524	BLD
T 42	71-F-3534	560

METHODS:
Sb by G.R.C. No. 8

B.L.D. = Below Limit of Detection

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 003592 PROJECT No.: EL.7/68 - DUNDAS - AINSLIE

LAB. SHEET No.: 776/1 SAMPLE TYPE: SOIL PROFILE DATE: 23rd September,

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
16S+1350E	71-H-3019	40	10	480	110	1
16S+1360E	71-H-3020	30	10	295	80	1
16S+1370E	71-H-3021	20	10	180	50	BLD
16S+1380E	71-H-3022	25	15	710	80	1
16S+1390E	71-H-3023	20	10	750	100	1
16S+1400E	71-H-3024	25	20	1400	330	2
16S+1410E	71-H-3025	30	10	505	140	1
16S+1420E	71-H-3026	30	10	1100	210	2
16S+1430E	71-H-3027	40	20	3150	490	4
16S+1440E	71-H-3028	20	15	1500	315	2
16S+1450E	71-H-3029	35	20	3150	370	6
16S+1460E	71-H-3030	80	40	5150	960	10
16S+1470E	71-H-3031	50	20	2300	530	3
16S+1480E	71-H-3032	60	30	5450	880	4
16S+1490E	71-H-3033	75	25	6400	690	3
16S+1500E	71-H-3034	30	10	950	240	1
16S+1510E	71-H-3035	45	20	3000	680	3
16S+1520E	71-H-3036	15	10	500	110	1
16S+1530E	71-H-3037	50	40	2150	1220	2
16S+1540E	71-H-3038	50	20	3800	490	2
16S+1550E	71-H-3039	50	15	7900	700	3
16S+1560E	71-H-3040	50	20	5450	1220	10
16S+1570E	71-H-3041	60	20	8100	1380	10
16S+1580E	71-H-3042	40	10	1700	640	3
16S+1590E	71-H-3043	70	20	1650	1000	2
16S+1600E	71-H-3044	15	10	705	170	3
16S+1610E	71-H-3045	20	10	610	180	3
16S+1620E	71-H-3046	10	5	800	80	3
16S+1630E	71-H-3047	2	5	350	35	2
16S+1640E	71-H-3048	BLD	BLD	130	20	2
16S+1650E	71-H-3049	BLD	BLD	10	5	BLD
16S+1660E	71-H-3050	BLD	BLD	10	10	1
16S+1670E	71-H-3051	BLD	BLD	70	45	2
16S+1680E	71-H-3052	BLD	BLD	20	5	BLD
16S+1690E	71-H-3053	BLD	BLD	30	15	BLD
16S+1700E	71-H-3054	BLD	5	30	20	1
16S+1710E	71-H-3055	BLD	BLD	15	10	BLD
16S+1720E	71-H-3056	5	5	310	70	BLD
16S+1730E	71-H-3057	BLD	BLD	10	70	BLD
16S+1740E	71-H-3058	BLD	BLD	15	5	BLD
16S+1750E	71-H-3059	10	10	110	30	1
16S+1760E	71-H-3060	BLD	5	10	5	BLD
16S+1770E	71-H-3061	BLD	5	40	15	1
16S+1780E	71-H-3062	5	BLD	40	20	BLD
16S+1790E	71-H-3063	5	BLD	70	25	1
16S+1800E	71-H-3064	BLD	5	25	5	1

METHODS:
Cu, Ni, Pb, Zn, Ag by G.R.C. No. 1
B.L.D. = Below Limit of Detection

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: C03592/93 PROJECT No.: EL.7/68 - DUNDAS - AINSLIE

LAB. SHEET No.: 776/2 SAMPLE TYPE: SOIL PROFILE DATE: 23rd September, 1971

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
16S+181CE	71-H-3065	10	BLD	60	20	1
16S+182CE	71-H-3066	5	BLD	50	40	BLD
16S+183CE	71-H-3067	10	5	140	70	1
16S+184CE	71-H-3068	55	10	1250	375	3
16S+185CE	71-H-3069	70	15	1300	600	6
16S+186CE	71-H-3070	40	10	640	265	3
16S+187CE	71-H-3071	25	BLD	255	255	2
16S+188CE	71-H-3072	130	90	2400	3500	8
16S+189CE	71-H-3073	45	30	505	420	2
16S+190CE	71-H-3074	40	10	595	225	3
16S+191CE	71-H-3075	10	BLD	100	35	2
16S+192CE	71-H-3076	45	10	140	75	1
16S+193CE	71-H-3077	40	5	100	60	1
16S+194CE	71-H-3078	10	BLD	60	50	1
16S+195CE	71-H-3079	40	10	475	150	2
16S+196CE	71-H-3080	40	10	690	450	3
16S+197CE	71-H-3081	170	50	1700	1250	4
16S+198CE	71-H-3082	45	10	320	170	2
16S+199CE	71-H-3083	60	5	310	190	2
16S+200CE	71-H-3084	120	45	1250	675	3
24S+55CE	71-H-3085	BLD	BLD	15	10	BLD
24S+56CE	71-H-3086	2	BLD	50	35	BLD
24S+57CE	71-H-3087	BLD	10	BLD	20	BLD
24S+58CE	71-H-3088	BLD	BLD	10	5	1
24S+59CE	71-H-3089	BLD	BLD	10	10	BLD
24S+60CE	71-H-3090	5	5	10	15	BLD
24S+61CE	71-H-3091	10	BLD	90	50	1
24S+62CE	71-H-3092	BLD	BLD	15	10	BLD
24S+63CE	71-H-3093	BLD	BLD	10	BLD	BLD
24S+64CE	71-H-3094	BLD	BLD	20	5	BLD
24S+65CE	71-H-3095	BLD	BLD	10	5	BLD
24S+66CE	71-H-3096	BLD	BLD	20	10	BLD
24S+67CE	71-H-3097	5	BLD	15	10	BLD
24S+68CE	71-H-3098	BLD	BLD	10	5	BLD
24S+69CE	71-H-3099	BLD	BLD	25	10	BLD
24S+70CE	71-H-3100	BLD	BLD	105	25	BLD
24S+71CE	71-H-3101	BLD	5	20	BLD	BLD
24S+72CE	71-H-3102	BLD	BLD	35	5	BLD
24S+73CE	71-H-3103	BLD	BLD	35	BLD	BLD
24S+74CE	71-H-3104	BLD	BLD	40	2	BLD
24S+75CE	71-H-3105	BLD	BLD	20	2	BLD
24S+76CE	71-H-3106	BLD	BLD	20	5	BLD
24S+77CE	71-H-3107	BLD	BLD	10	10	BLD
24S+78CE	71-H-3108	BLD	BLD	15	10	BLD
24S+79CE	71-H-3109	BLD	BLD	20	10	BLD
24S+80CE	71-H-3110	BLD	BLD	35	20	BLD

METHODS:

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 003593 PROJECT No.: EL.7/68 - DUNDAS - AINSLIE

LAB. SHEET No.: 776/3 SAMPLE TYPE: SOIL PROFILE DATE: 23rd September, 1971.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm			
24S+810E	71-H-3111	BLD	BLD	40	20	BLD			
24S+820E	71-H-3112	BLD	BLD	20	5	BLD			
24S+830E	71-H-3113	BLD	BLD	20	5	BLD			
24S+840E	71-H-3114	BLD	BLD	30	10	BLD			
24S+850E	71-H-3115	BLD	BLD	20	10	BLD			
24S+860E	71-H-3116	BLD	BLD	15	10	BLD			
24S+870E	71-H-3117	BLD	BLD	30	10	BLD			
24S+880E	71-H-3118	BLD	BLD	50	10	BLD			
24S+890E	71-H-3119	BLD	BLD	50	5	BLD			
24S+900E	71-H-3120	BLD	BLD	50	10	BLD			
24S+910E	71-H-3121	BLD	BLD	40	5	BLD			
24S+920E	71-H-3122	BLD	BLD	30	5	BLD			
24S+930E	71-H-3123	BLD	BLD	50	10	BLD			
24S+940E	71-H-3124	BLD	BLD	80	5	BLD			
24S+950E	71-H-3125	BLD	BLD	60	10	1			
24S+960E	71-H-3126	BLD	BLD	35	10	BLD			
24S+970E	71-H-3127	BLD	BLD	20	20	BLD			
24S+980E	71-H-3128	BLD	BLD	30	10	BLD			
24S+990E	71-H-3129	BLD	BLD	45	10	BLD			
24S+1000E	71-H-3130	BLD	BLD	25	10	BLD			
24S+1010E	71-H-3131	BLD	BLD	10	BLD	BLD			
24S+1020E	71-H-3132	BLD	BLD	40	5	BLD			
24S+1030E	71-H-3133	BLD	BLD	80	5	BLD			
24S+1040E	71-H-3134	BLD	BLD	35	10	BLD			
24S+1050E	71-H-3135	BLD	BLD	20	5	BLD			
24S+1060E	71-H-3136	BLD	BLD	40	10	BLD			
24S+1070E	71-H-3137	BLD	BLD	15	5	BLD			
24S+1080E	71-H-3138	BLD	BLD	240	10	1			
24S+1090E	71-H-3139	BLD	BLD	50	10	BLD			
24S+1100E	71-H-3140	BLD	BLD	15	BLD	BLD			
24S+1110E	71-H-3141	BLD	BLD	450	10	1			
24S+1120E	71-H-3142	10	5	80	20	BLD			
24S+1130E	71-H-3143	BLD	BLD	30	10	BLD			
24S+1140E	71-H-3144	BLD	BLD	15	5	BLD			
24S+1150E	71-H-3145	BLD	BLD	25	10	BLD			
24S+1160E	71-H-3146	BLD	BLD	20	BLD	BLD			
24S+1170E	71-H-3147	BLD	BLD	30	BLD	BLD			
24S+1180E	71-H-3148	BLD	BLD	20	BLD	BLD			
24S+1190E	71-H-3149	BLD	5	20	5	BLD			
24S+1200E	71-H-3150	BLD	BLD	25	5	BLD			
24S+1210E	71-H-3151	BLD	BLD	20	5	BLD			
24S+1220E	71-H-3152	BLD	BLD	20	5	BLD			
24S+1230E	71-H-3153	5	5	50	20	BLD			
24S+1240E	71-H-3154	BLD	BLD	20	5	BLD			
24S+1250E	71-H-3155	BLD	BLD	30	5	BLD			
24S+1260E	71-H-3156	BLD	BLD	30	5	BLD			

METHODS:

This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

Chief Chemist

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 003599 PROJECT No.: EL.7/68 - DUNDAS - AINSLIE

LAB. SHEET No.: 776/5 SAMPLE TYPE: SOIL PROFILE DATE: 23rd September, 1971

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
2S+1470E	71-H-3277	BLD	5	50	10	BLD
2S+1480E	71-H-3278	20	10	370	85	1
2S+1490E	71-H-3279	25	10	280	80	BLD
2S+1500E	71-H-3280	20	10	145	50	BLD
2S+1510E	71-H-3281	15	5	160	35	BLD
2S+1520E	71-H-3282	10	10	80	30	BLD
2S+1530E	71-H-3283	BLD	10	35	20	BLD
2S+1540E	71-H-3284	BLD	5	40	10	BLD
2S+1550E	71-H-3285	5	10	40	45	BLD
2S+1560E	71-H-3286	5	5	25	15	BLD
2S+1570E	71-H-3287	BLD	5	10	BLD	BLD
2S+1580E	71-H-3288	BLD	5	25	10	BLD
2S+1590E	71-H-3289	BLD	5	20	5	BLD
2S+1600E	71-H-3290	BLD	5	20	10	BLD

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: CO3594/5 PROJECT No.: EL.7/68 - DUNDAS - AINSLIE

LAB. SHEET No.: 776/4 SAMPLE TYPE: SOIL PROFILE DATE: 23rd September, 1971

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
24S+1270E	71-H-3157	BLD	BLD	30	10	BLD
24S+1280E	71-H-3158	BLD	BLD	20	2	BLD
24S+1290E	71-H-3159	BLD	BLD	20	2	BLD
24S+1300E	71-H-3160	BLD	BLD	30	5	BLD
24S+1310E	71-H-3161	BLD	BLD	10	BLD	BLD
24S+1320E	71-H-3162	BLD	BLD	30	BLD	BLD
24S+1330E	71-H-3163	BLD	5	30	5	BLD
24S+1340E	71-H-3164	BLD	BLD	30	10	BLD
24S+1350E	71-H-3165	BLD	BLD	15	BLD	BLD
24S+1360E	71-H-3166	BLD	BLD	20	BLD	BLD
24S+1370E	71-H-3167	BLD	BLD	10	BLD	BLD
24S+1380E	71-H-3168	BLD	BLD	35	10	BLD
24S+1390E	71-H-3169	BLD	BLD	15	10	BLD
24S+1400E	71-H-3170	BLD	BLD	10	5	BLD
24S+1410E	71-H-3171	BLD	BLD	20	10	BLD
24S+1420E	71-H-3172	BLD	BLD	20	10	BLD
24S+1430E	71-H-3173	BLD	BLD	20	10	BLD
24S+1440E	71-H-3174	BLD	BLD	20	10	BLD
24S+1450E	71-H-3175	BLD	BLD	20	10	BLD
24S+1460E	71-H-3176	BLD	BLD	25	10	BLD
24S+1470E	71-H-3177	BLD	BLD	40	10	BLD
24S+1480E	71-H-3178	BLD	5	30	10	BLD
24S+1490E	71-H-3179	BLD	5	40	15	BLD
24S+1500E	71-H-3180	BLD	5	35	10	BLD
2S+1250E	71-H-3255	10	5	75	60	BLD
2S+1260E	71-H-3256	5	10	40	25	BLD
2S+1270E	71-H-3257	BLD	10	20	10	BLD
2S+1280E	71-H-3258	BLD	BLD	5	10	BLD
2S+1290E	71-H-3259	BLD	BLD	10	5	BLD
2S+1300E	71-H-3260	BLD	BLD	15	10	BLD
2S+1310E	71-H-3261	BLD	5	10	2	BLD
2S+1320E	71-H-3262	BLD	BLD	10	2	BLD
2S+1330E	71-H-3263	BLD	BLD	10	10	BLD
2S+1340E	71-H-3264	BLD	5	20	5	BLD
2S+1350E	71-H-3265	BLD	BLD	20	BLD	BLD
2S+1360E	71-H-3266	BLD	BLD	20	5	BLD
2S+1370E	71-H-3267	BLD	5	10	10	BLD
2S+1380E	71-H-3268	BLD	5	5	10	BLD
2S+1390E	71-H-3269	BLD	5	20	10	BLD
2S+1400E	71-H-3270	BLD	BLD	15	5	BLD
2S+1410E	71-H-3271	BLD	5	25	10	BLD
2S+1420E	71-H-3272	BLD	BLD	20	5	BLD

930453

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007551 PROJECT No.: EL.7/68- DUNDAS - AINSLIE

LAB. SHEET No.: 818/1 SAMPLE TYPE: SOIL PROFILE DATE: 27th October, 1971.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm			
4S + 100E	71-H-2568	55	10	340	265	2			
4S + 110E	71-H-2569	50	10	350	70	1			
4S + 120E	71-H-2570	50	10	250	70	1			
4S + 130E	71-H-2571	65	10	805	175	1			
4S + 140E	71-H-2572	65	5	540	240	1			
4S + 150E	71-H-2573	80	10	900	320	1			
4S + 160E	71-H-2574	180	15	1900	415	3			
4S + 170E	71-H-2575	230	30	4000	1450	5			
4S + 180E	71-H-2576	310	50	7950	3500	9			
4S + 190E	71-H-2577	400	50	1.04%	4750	7			
4S + 200E	71-H-2578	40	5	180	80	1			
4S + 210E	71-H-2579	90	10	110	160	1			
4S + 220E	71-H-2580	95	10	240	150	1			
4S + 230E	71-H-2581	30	5	80	110	BLD			
4S + 240E	71-H-2582	5	BLD	55	15	BLD			
4S + 250E	71-H-2583	BLD	BLD	20	10	BLD			
4S + 260E	71-H-2584	BLD	BLD	25	20	BLD			
4S + 270E	71-H-2585	BLD	BLD	20	10	BLD			
4S + 280E	71-H-2586	BLD	BLD	20	10	BLD			
4S + 290E	71-H-2587	BLD	BLD	20	10	BLD			
4S + 300E	71-H-2588	BLD	BLD	25	5	BLD			
4S + 310E	71-H-2589	BLD	BLD	10	5	BLD			
4S + 320E	71-H-2590	BLD	BLD	20	10	BLD			
4S + 330E	71-H-2591	BLD	BLD	25	10	BLD			
4S + 340E	71-H-2592	BLD	BLD	15	10	BLD			
4S + 350E	71-H-2593	BLD	BLD	20	10	BLD			
4S + 360E	71-H-2594	5	5	35	20	BLD			
4S + 370E	71-H-2595	10	5	100	20	1			
4S + 380E	71-H-2596	10	BLD	75	10	1			
4S + 390E	71-H-2597	5	BLD	60	10	BLD			
4S + 400E	71-H-2598	5	BLD	55	10	BLD			
4S + 410E	71-H-2599	10	BLD	55	10	BLD			
4S + 420E	71-H-2600	5	5	55	10	BLD			
4S + 430E	71-H-2601	10	BLD	50	25	BLD			
4S + 440E	71-H-2602	15	BLD	70	20	BLD			
4S + 450E	71-H-2603	15	10	70	35	BLD			
4S + 460E	71-H-2604	15	5	100	20	1			
4S + 470E	71-H-2605	20	5	90	20	BLD			
4S + 480E	71-H-2606	10	5	75	15	BLD			
4S + 490E	71-H-2607	2	BLD	30	10	BLD			
4S + 500E	71-H-2608	10	5	50	20	BLD			
4S + 510E	71-H-2609	15	BLD	50	15	BLD			
4S + 520E	71-H-2610	10	5	50	40	1			
4S + 530E	71-H-2611	5	BLD	40	10	BLD			
4S + 540E	71-H-2612	10	BLD	45	10	BLD			
4S + 550E	71-H-2613	30	5	80	40	1			

METHODS:
Cu, Ni, Pb, Zn, Ag by G.R.C. No. 1
B.L.D. = Below Limit of detection

This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

Chief Chemist

Ray W. Hodgson

930454

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007551 PROJECT No. EL.7/68 - DUNDAS - AINSLIE

LAB. SHEET No. 818/2 SAMPLE TYPE SOIL PROFILE DATE 27th October, 1971.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
4S + 560E	71-H-2614	45	5	120	80	1
4S + 570E	71-H-2615	80	10	330	310	1
4S + 580E	71-H-2616	100	10	260	200	1
4S + 590E	71-H-2617	25	5	105	210	1

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007552 PROJECT No. EL.7/68 Ainslie.

LAB. SHEET No. 818/3 SAMPLE TYPE Soil Profile DATE 15/10/71.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
4S - 600 E	71-H-2618	BLD	BLD	25	10	1
610	9	10	BLD	50	15	BLD
620	2620	5	5	50	20	BLD
630	21	10	10	60	35	1
640	22	15	15	80	45	1
650	23	10	20	40	40	1
660	24	10	20	50	45	1
670	25	30	25	80	50	1
680	26	BLD	10	20	20	BLD
690	27	10	30	95	65	1
700	28	5	25	50	100	BLD
710	29	BLD	25	15	20	BLD
720	2630	BLD	20	25	30	1
730	31	10	10	20	20	BLD
740	32	10	20	60	35	1
4S - 750 E	33	10	20	50	50	1

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007553 PROJECT No.: EL 7/68 - AINSLIE - DUNDAS

LAB. SHEET No.: 818/4 SAMPLE TYPE: SOIL PROFILE DATE: 27th October, 1971.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
6S + 300E	71-H-2634	10	5	20	5	BLD
6S + 310E	71-H-2635	BLD	BLD	30	2	BLD
6S + 320E	71-H-2636	5	BLD	20	5	BLD
6S + 330E	71-H-2637	2	BLD	30	5	BLD
6S + 340E	71-H-2638	10	BLD	70	35	BLD
6S + 350E	71-H-2639	5	5	45	30	BLD
6S + 360E	71-H-2640	20	BLD	70	10	BLD
6S + 370E	71-H-2641	10	BLD	50	20	BLD
6S + 380E	71-H-2642	10	BLD	80	20	BLD
6S + 390E	71-H-2643	15	5	105	35	BLD
6S + 400E	71-H-2644	10	5	65	20	BLD
6S + 410E	71-H-2645	15	10	60	30	1
6S + 420E	71-H-2646	20	10	60	30	1
6S + 430E	71-H-2647	10	10	40	35	BLD
6S + 440E	71-H-2648	25	10	50	55	BLD
6S + 450E	71-H-2649	10	10	30	30	BLD
6S + 460E	71-H-2650	50	10	30	75	BLD
6S + 470E	71-H-2651	60	25	35	150	BLD
6S + 480E	71-H-2652	45	20	30	160	1
6S + 490E	71-H-2653	210	100	4350	1325	6
6S + 500E	71-H-2654	80	15	790	175	1
6S + 510E	71-H-2655	50	20	220	170	1
6S + 520E	71-H-2656	70	80	170	120	2
6S + 530E	71-H-2657	40	10	445	130	1
6S + 540E	71-H-2658	90	25	535	330	1
6S + 550E	71-H-2659	30	10	180	140	1
6S + 560E	71-H-2660	45	30	320	310	2
6S + 570E	71-H-2661	80	10	160	75	1
6S + 580E	71-H-2662	45	10	130	85	BLD
6S + 590E	71-H-2663	30	10	70	80	BLD
6S + 600E	71-H-2664	45	15	55	190	BLD
6S + 610E	71-H-2665	60	20	105	255	BLD
6S + 620E	71-H-2666	30	20	80	210	BLD
6S + 630E	71-H-2667	65	20	150	250	1
6S + 640E	71-H-2668	55	30	135	250	1
6S + 650E	71-H-2669	50	20	170	220	1
6S + 660E	71-H-2670	60	20	175	435	2
6S + 670E	71-H-2671	80	40	420	730	2
6S + 680E	71-H-2672	50	40	200	670	1
6S + 690E	71-H-2673	80	25	295	355	1
6S + 700E	71-H-2674	70	25	255	270	1
6S + 710E	71-H-2675	45	40	175	140	1
6S + 720E	71-H-2676	20	25	70	70	1
6S + 730E	71-H-2677	65	20	65	50	1
6S + 740E	71-H-2678	35	20	60	45	1
6S + 750E	71-H-2679	20	15	40	35	1

METHODS:

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Chief Chemist

930456

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007553 PROJECT No.: EL.7/68 - AINSLIE - DUNDAS

LAB. SHEET No.: 818/5 SAMPLE TYPE: SOIL PROFILE DATE: 27th October, 1971.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm			
6S + 900E	71-H-2680	10	35	30	40	BLD			
6S + 910E	71-H-2681	10	20	30	45	1			
6S + 920E	71-H-2682	10	10	30	30	BLD			

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007554 PROJECT No.: EL.7/68 Dundas Ainslie.

LAB. SHEET No.: 818/6 SAMPLE TYPE: Soil Profile DATE: 15/10/71

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm			
6 S - 930E	71-H-2683	10	10	35	30	BLD			
940E	84	15	20	65	70	BLD			
950E	85	10	15	35	75	BLD			
960E	86	2	15	40	65	BLD			
970E	87	BLD	10	30	25	BLD			
980E	88	BLD	10	70	75	BLD			
990E	89	2	15	60	145	1			
1000E	2690	10	10	130	115	BLD			
1010E	91	BLD	10	90	100	BLD			
1020E	92	BLD	10	50	60	BLD			
1030E	93	10	10	20	10	BLD			
1040E	94	5	20	150	195	BLD			
1050E	95	5	20	110	170	BLD			
1060E	96	2	15	60	75	BLD			
1070E	97	BLD	10	50	55	1			
1080E	98	BLD	5	20	10	BLD			
1090E	99	BLD	5	20	10	BLD			
6 S -1100E	2700	BLD	5	10	10	BLD			

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007555 PROJECT No.: EL 7/68 Dundas Ainslie

LAB. SHEET No.: 818/7 SAMPLE TYPE: Soil Profile DATE: 15/10/71.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
12 S - 1200E	71-H-2701	5	BLD	50	10	BLD
1210	2	BLD	BLD	55	10	BLD
1220	3	BLD	BLD	30	5	BLD
1230	4	BLD	BLD	30	10	BLD
1240	5	BLD	BLD	55	10	BLD
1250	6	BLD	BLD	20	5	BLD
1260	7	BLD	BLD	20	BLD	BLD
1270	8	BLD	BLD	10	2	BLD
1280	9	BLD	5	5	5	BLD
1290	2710	BLD	BLD	10	5	BLD
1300	11	BLD	5	5	5	BLD
1310	12	BLD	5	5	5	BLD
1320	13	BLD	BLD	10	5	BLD
1330	14	2	5	10	10	BLD
1340	15	BLD	5	40	10	BLD
1350	16	2	5	75	10	BLD
1360	17	BLD	5	30	20	BLD
1370	18	2	5	30	10	BLD
1380	19	10	10	1050	190	BLD
1390	2720	15	10	285	190	BLD
1400	21	15	10	190	100	BLD
1410	22	BLD	10	40	10	BLD
1420	23	BLD	5	40	15	BLD
1430	24	BLD	10	75	70	BLD
1440	25	40	15	580	650	BLD
1450	26	60	20	1300	560	BLD
1460	27	60	20	2450	829	9
1470	28	35	10	900	190	BLD
1480	29	40	10	1150	225	BLD
1490	2730	60	15	655	245	BLD

METHODS:

Cu, Ni, Pb, Zn, Ag by GRC.1.

BLD - below limit of detection.

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Chief Chemist

930458

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007556 PROJECT No.: EL 7/68 Dundas Ainslie

LAB. SHEET No.: 818/9 SAMPLE TYPE: Soil Profile DATE: 15/10/71.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
12 S - 1700E	71-H-2751	45	10	2600	310	3
1710E	52	500	30	4400	1950	4
1720E	53	40	10	3100	330	1
1730E	54	45	10	1900	660	3
1740E	55	30	10	2200	265	2
1750E	56	40	10	2200	340	2
1760E	57	40	10	1300	320	2
1770E	58	25	5	950	130	1
1780E	59	30	10	1250	150	1
1790E	2760	25	10	745	115	1
12 S - 1800E	1	10	5	385	35	1

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007555 PROJECT No.: EL.7/68 Ainslie Dundas

LAB. SHEET No.: 818/8 SAMPLE TYPE: Soil Profile DATE: 15/10/71

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
1500 E	71-H-2731	30	15	800	230	BLD
1510	32	35	25	1900	385	3
1520	33	30	20	770	260	BLD
1530	34	45	20	1250	325	4
1540	35	60	20	1900	240	5
1550	36	40	20	1250	255	BLD
1560	37	60	20	1350	190	1
1570	38	40	20	320	260	BLD
1580	39	65	40	850	500	BLD
1590	2740	65	20	2400	280	BLD
1600	41	60	30	3800	570	1
1610	42	175	30	5000	1700	4
1620	43	60	20	3950	670	1
1630	44	60	20	2950	825	2
1640	45	35	10	430	150	BLD
1650	46	50	20	4150	465	1
1660	47	190	20	2.40%	1400	5
1670	48	40	15	1700	380	BLD
1680	49	30	10	610	120	BLD
12S-1690E	2750	45	10	2250	355	BLD

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007557 PROJECT No.: EL.7/68 - DUNDAS - AINSLIE

LAB. SHEET No.: 818/10 SAMPLE TYPE: SOIL PROFILE DATE: 27th October, 1971.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm			
14S + 150E	71-H-2762	BLD	BLD	10	10	BLD			
14S + 160E	71-H-2763	BLD	BLD	10	10	BLD			
14S + 170E	71-H-2764	BLD	BLD	20	10	BLD			
14S + 180E	71-H-2765	BLD	BLD	20	10	BLD			
14S + 190E	71-H-2766	BLD	BLD	5	10	BLD			
14S + 200E	71-H-2767	2	BLD	35	20	BLD			
14S + 210E	71-H-2768	BLD	BLD	30	10	BLD			
14S + 220E	71-H-2769	BLD	BLD	60	10	1			
14S + 230E	71-H-2770	2	10	50	45	1			
14S + 240E	71-H-2771	BLD	BLD	10	10	BLD			
14S + 250E	71-H-2772	BLD	BLD	10	10	BLD			
14S + 260E	71-H-2773	BLD	BLD	10	10	BLD			
14S + 270E	71-H-2774	BLD	BLD	20	10	BLD			
14S + 280E	71-H-2775	BLD	BLD	30	10	1			
14S + 290E	71-H-2776	10	BLD	120	45	BLD			
14S + 300E	71-H-2777	15	BLD	50	10	BLD			
14S + 310E	71-H-2778	BLD	BLD	20	10	BLD			
14S + 320E	71-H-2779	BLD	BLD	20	10	BLD			
14S + 330E	71-H-2780	BLD	BLD	10	5	BLD			
14S + 340E	71-H-2781	BLD	BLD	15	10	BLD			
14S + 350E	71-H-2782	BLD	BLD	15	10	BLD			
14S + 700E	71-H-2783	BLD	BLD	10	5	BLD			
14S + 710E	71-H-2784	BLD	BLD	10	5	BLD			
14S + 720E	71-H-2785	BLD	5	40	10	BLD			
14S + 730E	71-H-2786	BLD	BLD	10	10	BLD			
14S + 740E	71-H-2787	BLD	BLD	10	5	BLD			
14S + 750E	71-H-2788	BLD	BLD	10	10	BLD			
14S + 760E	71-H-2789	BLD	BLD	10	10	BLD			
14S + 770E	71-H-2790	BLD	BLD	10	2	BLD			
14S + 780E	71-H-2791	BLD	BLD	10	5	BLD			
14S + 790E	71-H-2792	BLD	BLD	5	2	BLD			
14S + 800E	71-H-2793	BLD	BLD	5	2	BLD			
14S + 810E	71-H-2794	BLD	BLD	10	2	BLD			
14S + 820E	71-H-2795	BLD	BLD	5	5	BLD			
14S + 830E	71-H-2796	BLD	BLD	5	5	BLD			
14S + 840E	71-H-2797	BLD	BLD	5	5	BLD			
14S + 850E	71-H-2798	BLD	BLD	10	10	BLD			
14S + 860E	71-H-2799	BLD	5	BLD	5	BLD			
14S + 870E	71-H-2800	20	35	100	325	1			
14S + 880E	71-H-2801	BLD	BLD	5	5	BLD			
14S + 890E	71-H-2802	BLD	BLD	10	10	BLD			
14S + 900E	71-H-2803	BLD	BLD	10	10	BLD			
14S + 910E	71-H-2804	BLD	BLD	10	5	BLD			
14S + 920E	71-H-2805	2	5	20	10	BLD			
14S + 930E	71-H-2806	BLD	BLD	25	10	BLD			
14S + 940E	71-H-2807	BLD	BLD	10	BLD	BLD			

METHODS:

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Ray W. Fielding

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007557/8 PROJECT No.: EL.7/68 - DUNDAS - AINSLIE

LAB. SHEET No.: 818/11 SAMPLE TYPE: SOIL PROF. DATE: 27th October, 1971.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm			
14S + 950E	71-H-2808	35	45	145	500	2			
14S + 960E	71-H-2809	BLD	BLD	5	BLD	BLD			
14S + 970E	71-H-2810	BLD	5	10	10	BLD			
14S + 980E	71-H-2811	BLD	5	10	6	BLD			
14S + 990E	71-H-2812	BLD	5	10	5	BLD			
14S + 1000E	71-H-2813	2	5	15	10	BLD			
14S + 1010E	71-H-2814	BLD	5	10	BLD	BLD			
14S + 1020E	71-H-2815	BLD	5	15	5	BLD			
14S + 1030E	71-H-2816	20	15	120	90	1			
14S + 1040E	71-H-2817	20	45	150	180	1			
14S + 1050E	71-H-2818	2	5	60	20	BLD			
14S + 1060E	71-H-2819	BLD	5	20	BLD	BLD			
14S + 1070E	71-H-2820	5	5	65	15	1			
14S + 1080E	71-H-2821	BLD	5	10	BLD	BLD			
14S + 1090E	71-H-2822	BLD	5	10	2	BLD			
14S + 1100E	71-H-2823	BLD	BLD	10	2	BLD			

METHODS:

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007559 PROJECT No.: EL7/68 Dundas Ainslie

LAB. SHEET No.: 818/12 SAMPLE TYPE: Soil Profile DATE: 13/10/71

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
22S - 1450 E	71-H-2824	BLD	BLD	20	2	BLD
1460	25	BLD	BLD	20	5	BLD
1470	26	BLD	BLD	15	5	BLD
1480	27	2	BLD	30	10	BLD
1490	28	BLD	BLD	20	5	BLD
1500	29	BLD	BLD	20	5	BLD
1510	2830	BLD	5	20	5	BLD
1520	31	BLD	BLD	15	5	BLD
1530	32	BLD	5	20	10	BLD
1540	33	2	5	15	10	BLD
1550	34	BLD	BLD	15	2	BLD
1560	35	BLD	BLD	20	5	BLD
1570	36	2	BLD	40	20	BLD
1580	37	BLD	5	15	10	BLD
1590	38	5	BLD	20	5	BLD
1600	39	BLD	5	20	5	BLD
1610	2840	10	10	30	10	1
1620	41	BLD	5	20	5	1
1630	42	BLD	BLD	20	BLD	BLD
1640	43	BLD	BLD	30	BLD	1
1650	44	BLD	BLD	30	BLD	BLD
1660	45	BLD	BLD	20	BLD	BLD
1670	46	BLD	BLD	30	BLD	BLD
1680	47	BLD	BLD	30	BLD	BLD
1690	48	BLD	BLD	70	BLD	BLD
1700	49	BLD	BLD	30	BLD	BLD
1710	2850	BLD	BLD	20	BLD	BLD
1720	51	BLD	BLD	15	BLD	BLD
1730	52	BLD	BLD	20	2	1
1740E	53	BLD	BLD	30	5	BLD
1750E	54	2	BLD	45	2	1
1760	55	BLD	BLD	40	2	BLD
1770	56	BLD	BLD	30	BLD	BLD
1780	57	BLD	BLD	20	2	BLD
1790	58	BLD	BLD	30	2	BLD
1800	59	BLD	BLD	30	5	BLD
1810	2860	BLD	5	30	5	BLD
1820	61	BLD	BLD	35	5	BLD
1830	62	BLD	BLD	20	2	BLD
1840	63	BLD	BLD	20	2	1
1850	64	BLD	5	20	2	BLD

METHODS:

Cu, Ni, Pb, Zn, Ag by GRC.1.

BLD - below limit of detection.

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007560 PROJECT No.: EL7/68 Dundas Ainslie.

LAB. SHEET No.: 818/13 SAMPLE TYPE: Soil Profile DATE: 13/10/71.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
28 S - 750 E	71-H-2865	BLD	BLD	85	15	BLD
760 E	66	BLD	BLD	55	5	BLD
770 E	67	BLD	BLD	30	5	BLD
780 E	68	BLD	BLD	40	5	BLD
790 E	69	BLD	BLD	60	10	BLD
800 E	2870	BLD	BLD	70	10	BLD
810 E	71	BLD	BLD	140	20	BLD
820 E	72	BLD	BLD	210	10	BLD
830 E	73	2	5	255	15	2
840 E	74	BLD	BLD	110	15	2
850 E	75	BLD	BLD	230	10	1
860 E	76	2	BLD	80	10	BLD
870 E	77	5	BLD	200	15	BLD
880 E	78	5	BLD	185	10	BLD
890 E	79	BLD	BLD	75	15	BLD
900 E	2880	BLD	BLD	40	10	BLD
910 E	81	2	5	85	10	BLD
920 E	82	BLD	BLD	10	BLD	BLD
930 E	83	BLD	BLD	25	2	BLD
940 E	84	BLD	BLD	30	5	BLD
950 E	85	BLD	BLD	90	10	BLD
960 E	86	BLD	BLD	55	5	BLD
970 E	87	5	5	100	10	BLD
980 E	88	10	BLD	80	10	BLD
990 E	89	BLD	BLD	20	5	BLD
1000 E	2890	BLD	BLD	10	BLD	BLD
1010 E	91	2	BLD	60	10	BLD
1020 E	92	2	BLD	85	10	BLD
1030 E	93	2	BLD	60	10	BLD
1040 E	94	2	BLD	60	10	BLD
1050 E	95	2	BLD	100	10	BLD
1060 E	96	2	BLD	125	20	BLD
1070 E	97	2	10	80	5	BLD
1080 E	98	BLD	BLD	15	2	BLD
1090 E	99	BLD	BLD	20	BLD	BLD
1100 E	2900	BLD	BLD	155	10	BLD
1110 E	1	BLD	BLD	125	10	BLD
1120 E	2	2	BLD	130	10	BLD
1130 E	3	5	BLD	90	20	BLD
1140 E	4	10	5	130	25	BLD
1150 E	5	10	5	140	20	BLD
1160 E	6	BLD	BLD	55	10	BLD
1170 E	7	BLD	BLD	30	10	BLD
1180 E	8	BLD	BLD	30	5	BLD

METHODS:

Cu, Ni, Pb, Zn, Ag by GRC.1.

BLD - Below limit of detection.

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007560 PROJECT No.: EL7/68 Dundas Ainslie.

LAB. SHEET No.: 818/14 SAMPLE TYPE: Soil Profile DATE: 13/10/71.

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SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
28S -1190E	71-H-2909	BLD	BLD	15	5	BLD
1200E	2910	10	BLD	50	40	BLD
1210E	2911	BLD	BLD	20	10	BLD
1220E	2912	2	5	35	15	BLD
1230E	2913	BLD	5	30	5	BLD
28S - 1240 E	2914	10	10	50	10	BLD

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007561 PROJECT No.: EL7/68 Dundas Ainslie.

LAB. SHEET No.: 818/15 SAMPLE TYPE: Soil Profile DATE: 14/10/71.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
28S-1250E	71-H-2915	5	5	40	10	BLD
1260E	16	BLD	BLD	20	5	BLD
1270E	17	BLD	BLD	20	5	BLD
1280E	18	10	10	60	40	BLD
1290E	19	BLD	BLD	20	5	BLD
1300E	2920	2	BLD	45	10	BLD
1310E	21	10	5	90	15	BLD
1320E	22	20	60	80	110	BLD
1330E	23	30	35	145	90	BLD
1340E	24	20	30	120	55	BLD
1350E	25	20	25	120	75	BLD
1360E	26	20	30	120	65	BLD
1370E	27	20	10	100	35	BLD
1380E	28	15	15	130	40	BLD
1390E	29	15	15	90	40	BLD
1400E	2930	25	25	100	50	BLD
1410E	31	20	30	120	60	BLD
1420E	32	30	40	290	65	BLD
1430E	33	35	20	150	65	BLD
1440E	34	40	40	100	90	BLD
1450E	35	35	20	190	60	BLD
1460E	36	45	35	145	80	BLD
1470E	37	30	20	145	50	BLD
1480E	38	15	10	85	30	BLD
1490E	39	20	10	85	25	BLD
1500E	2940	15	15	75	25	BLD
28S-1800E	41	40	20	90	45	BLD
1810E	42	20	25	100	90	BLD
1820E	43	15	10	145	50	BLD
1830E	44	25	20	230	90	BLD
1840E	45	30	20	190	100	BLD
1850E	46	25	15	225	70	BLD
1860E	47	50	25	190	115	BLD
1870E	48	20	15	95	70	BLD
1880E	49	30	10	75	60	BLD
1890E	2950	20	10	95	50	BLD
1900E	51	25	35	80	80	BLD
1910E	52	50	20	90	60	BLD
1920E	53	25	15	100	50	BLD

METHODS

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007561 PROJECT No.: EL7/68 Dundas Ainslie.

LAB. SHEET No.: 818/16 SAMPLE TYPE: Soil Profile DATE: 14/10/71.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm			
28S-1930E	71-H-2954	30	20	95	50	BLD			
1940E	55	15	15	95	35	BLD			
1950E	56	15	15	70	55	BLD			
1960E	57	30	20	160	90	BLD			
1970E	58	50	30	175	80	BLD			
1980E	59	30	20	105	65	BLD			
1990E	2960	15	10	70	35	BLD			
2000E	61	20	30	70	55	BLD			
2010E	62	30	15	70	40	BLD			
2020E	63	30	20	40	50	BLD			

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007562 PROJECT No.: EL7/68 Dundas Ainslie.

LAB. SHEET No.: 818/17 SAMPLE TYPE: Soil Profile DATE: 14/10/71.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm			
28S-2030E	71-H-2964	40	45	55	70	1			
2040E	65	40	20	60	45	1			
2050E	66	35	20	80	45	1			
2060E	67	40	30	55	65	1			
2070E	68	30	20	95	55	1			
2080E	69	30	30	50	60	1			
2090E	2970	30	15	95	45	1			
2100E	71	25	20	100	40	1			
2110E	72	40	35	40	60	1			
2120E	73	20	15	45	40	1			
2130E	74	25	20	50	50	1			
2140E	75	30	20	50	70	1			
2150E	76	30	20	35	50	1			

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APPENDIX XXI

GEOPHOTO RESOURCES CONSULTANTS
KOSMINSKY HILL EAST-AINSLIE GRIDS
DRILLING SUMMARY

KOSMINSKY HILL EAST

As was discussed in Geophoto Report 1971/25, a new mineralized zone, east of and parallel to the main Kosminsky mineralized zone, was inferred from geological, geochemical, and geophysical data. Data for this area have been fully discussed in the above report. Proposals for the initial drill holes were included in this discussion.

Drill hole sections for the holes in this area have recently been edited and finalised.

As already mentioned, this drilling was the first major test of the Geophoto V.L.F. survey.

KHE-1 was drilled to test two geochemical and two V.L.F. anomalies, and at depth to possibly intersect a narrow mineralized zone which is exposed on the surface.

The hole was drilled in Crimson Creek rocks throughout.

Significant mineralized intersections were between 127-133' (1.74% Pb, 4.90% Zn, 0.19 ozs Ag) as coarse sphalerite and minor galena in carbonate veins within partially brecciated shale and between 748'6-755' (2.71% Pb, 0.70% Zn) as minor pyrite, galena and sphalerite in carbonate within a dolomite breccia-black slate.

KHE-1A was drilled as a check on the mineralization encountered in KHE-1.

Two significant mineralized zones were encountered between 243-251' (1.67% Pb, 4.87% Zn) as disseminated to massive sphalerite-galena in quartz-carbonate veining within brecciated black slate, and between 299'3-307'3" (3.01% Pb, 4.21% Zn) as pyrite and minor galena-sphalerite in carbonate matrix of a chert-dolomite breccia.

KHE-2 was drilled about 400 feet north of and parallel to KHE-1 in order to test VLF anomalies (1971/25). Crimson Creek rocks were penetrated from the surface to 371 feet, and then Oonah rocks to the bottom at 977 feet.

Significant mineralization was encountered between 623-631' (1.86% Pb, 4.60% Zn) as minor galena-sphalerite in carbonate and quartz veins in black slate and quartzite. These values are perhaps not representative as some core loss occurred in this zone.

KHE-3 was drilled to test a gossan-fault zone as well as the VLF anomalies tested by KHE-2.

The gossan zone was probably penetrated in a zone of very poor core recovery between 149-231', but no significant mineralization was detected in the small amount of core recovered.

This hole was effectively re-drilled by KHE-4.

KHE-4 was similar to KHE-3, intersecting gossan zones, again with poor core recovery.

Incomplete sludge assays indicated subeconomic lead-zinc mineralization in the intervals 167-177' and 195-227'.

KHE-5 was drilled to test the northern extension of the above mentioned gossan-fault zone.

The gossan zone was intersected between 224-266', again with very poor core recovery. No significant mineralization was encountered.

KHE-6 was drilled east of KHE-3 and 4 in order to test additional VLF anomalies. This is the only hole in the vicinity to penetrate the Concert Group rocks, with the Oonah-Concert contact picked at the first appearance of true phyllite at 166'.

The hole intersected a narrow rich zone (130'4-133'7") of galena and sphalerite in carbonate veins within black slate. When averaged to a mineable width (130-136') the values dropped to 0.46% Pb and 2.6% Zn. A weakly mineralized section of disseminated galena and sphalerite in dolomite breccia matrix was encountered between 155-161' (0.23% Pb, 0.56% Zn).

Recommendations

The upper intersections of KHE-1, 1A and 2 appear to be a potential mineralized zone. Based on the assumption that this same zone was intersected at depth in some of the KH holes such as KH-1 and KH-16, hole KH-17 was drilled to test the downdip and lateral continuation of this mineralized zone. The absence of significant mineralization in KH-17 may be due to lensoidal ore bodies or to faulting.

The lateral extent of this eastern mineralized zone should be tested by additional drill holes north and south of KHE-1 and 2. The down-dip extent and possible correlation with the KH holes should be tested by a hole or holes to the west of KHE-1 or 2.

The gossan-fault and VLF anomalies in the eastern part of the Kosminsky Hill East area have been down-graded to some extent by the drilling results, but the data are not yet conclusive. Further, lower priority, drilling is needed to evaluate the mineralization already discovered here as well as possible new targets.

AINSLIE

This area is discussed in Geophoto Report 1971/25, with drill hole proposals included. One hole was drilled to test two VLF anomalies as well as a series of mineralized fractures observed on the surface. Oonah rocks were penetrated throughout the hole.

The mineralization encountered was relatively minor and restricted to thin zones such as minor galena-sphalerite-pyrite in carbonate veining within black slate between 86-90' with a significant assayed interval of only 85-87' (2.4% Pb, 0.34% Zn, 0.19 ozs Ag) and a dolomite zone with galena-sphalerite mineralization (1.50% Pb, 0.88% Zn, 0.32 ozs Ag) restricted to the interval 310'3-312'3".

Recommendations

It is difficult to make an assessment of an area on the basis of only one drill hole. The one hole was somewhat disappointing but at least one additional hole should probably be drilled. Two additional holes were originally recommended in Geophoto Report 1971/25.

Further drilling here will probably have to await developments in more immediately promising areas.

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APPENDIX XXII

GEOPHOTO RESOURCES CONSULTANTS
CARBINE GRID
DRILLING SUMMARY

CARBINE WEST

This area is still insufficiently known. Available data have been presented in Geophoto Report 1971/23.

Significant VLF and more minor soil geochemical anomalies exist in the area but do not correspond.

One of the better VLF anomalies with a nearby soil geochemical anomaly was tested by drilling diamond drill hole CW-1. After the poor results of CW-1, the nearby soil anomaly, originally thought to have been shifted from the VLF anomaly by topographic effects, was tested with CW-2.

CW-1: No significant mineralization in Dundas Group rocks, probably Crimson Creek. 1145 ft 52N 10-2W 270° -65°

CW-2: No significant mineralization. 1250 ft 46N 12W 270° -55°

Recommendations

The two drill holes were disappointing and have at least temporarily downgraded this area.

Since available data is insufficient, further field work in this area may be justified in order to better explain the VLF and soil anomalies. Further drilling targets may arise from such additional work.

MONTEZUMA NORTH

Available data on this area are discussed in Geophoto Report 1971/48. The main mineralization control in the area is thought to be the Montezuma Fault.

As discussed in the above report the primary drilling target is the two main VLF anomalies, one of which has closely associated mineralized old workings. Six shallow drill holes were proposed.

Bad weather and poor road building conditions combined to prevent construction of an access track to the main targets. The track was stopped at the pyritic gossan where two holes were drilled.

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APPENDIX XXIII

MINOPS SPL 120
ANOMALY "A"
DRILL LOGS

930475

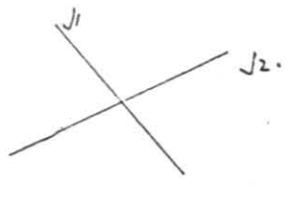
LOCATION S.P.L. 120
SITE
BEARING 85° Magnetic
ATTITUDE -60°
R.L. 498.40
DEPTH 89.61 Metres
SURVEYS 64° at 88.40 Metres

HOLE No SS-1
DRILL Mindrill F30 Wireline
DRILLER Associated Diamond Drillers Pty. Ltd.
COMMENCED 9th JAN. 1974.
COMPLETED 14th JAN. 1974.

FROM	TO		DESCRIPTION
0.00		SEDIMENTS	Weathered yellow to grey siltstones
			Grey siltstones are very fine grained with local darker narrow bands and occassional bands of slightly coarsed material (Due to weathering, core is badly broken and some core lost. Locations between 2.06 and 6.71 are approx only, due to core loss)
		4.95	Bedding at 72° to core axis (T.C.A.)
		6.10	Jointing at 33° T.C.A.
			Jointing at 43° T.C.A. -angle between joint plane normals at 65°
			Bedding at 72° T.C.A.
			Joint planes crusted (1-2 mm) with crystalline quartz and limonite (probably after pyrite).
		6.58	Fine hairline fractures sub parallel to core axis, displacing bedding approx 4 mm
		7.00	Bedding at 72° T.C.A.
			Jointing at 68° T.C.A.
			Jointing at 37° T.C.A. -all normals approx co-planar
		7.50	Bedding at 69° T.C.A.
			Jointing at 48° T.C.A.- limonite crusted
			Jointing at 37° T.C.A.

930476

FROM	TO	DESCRIPTION
		9.82 Bedding at 70° T.C.A. Jointing at 38° T.C.A. Jointing at 27° T.C.A. - Jointing normals co-planar and perpendicular to bedding normal. Crusted limonite on jointing
		10.60 Very minor pyrited bedded with bands of slightly coarser siltstone
		10.70 Minor pyrite and sugary quartz on joint plane.
		11.12 Bedding at 73° T.C.A. Jointing at 34° T.C.A. Jointing at 18° T.C.A. - jointing normals perpendicular.
		13.20 1 cm Limonite and drusy quartz on joint plane at 35° T.C.A.
		13.87 Jointing at 30° T.C.A. showing slickensiding.
		14.63 - 16.38 Core fractured and weathered (yellow siltstone) - not fault?
		16.20 Flexing in bedding to form fold. Immediately below 16.20, sediments relatively fresh blue-grey siltstone with minor weathering along joint plane. Numerous hair line fractures displacing bedding 2-4 mm
		16.70 Bedding at 65° T.C.A.
19.00		DOLOMITIC SHALE hard blue-grey dolomite interbedded with siltstones with limonite crustings on joint planes
	19.44	
19.44		SILTSTONE with limonite crustings on joint planes
	20.80	20.80 Bedding at 71° T.C.A.
20.80		Interbedded dolomite and siltstone with limonite crustings on joint planes
	22.30	
22.30		DOLOMITE SHALE fine grained with occassional siltstone band
		23.05 Bedding at 70° T.C.A.



930477

FROM	TO		DESCRIPTION
		23.05	J1 Jointing at 23° T.C.A. J2 Jointing at 49° T.C.A. - joint plane carries 3 mm veinlet of quartz and arsenopyrite Joint plane normals co-planar
		23.94	Approx 1 cm bedded pyrite at 70° T.C.A. Blebs of pyrite over 5 cm.
		24.10	Joint plane at 32° T.C.A. with actinolite and minor fine pyrite.
		26.48	2 cm irregularly bedded pyrite at 75° T.C.A.
		26.50	Jointing at 45° T.C.A. carrying minor quartz and pyrite.
		26.80	Jointing at 20° T.C.A. carrying pyrite. (Dolomitic shale contains occassional crystals 1mm of pyrite).
		27.90	Bedding at 71° T.C.A. - Hair line fractures displace bedding up to 5 mm abundant.
		31.20	Bedding at 53° T.C.A.
		33.67	Bedding at 74° T.C.A. Jointing at 25° T.C.A. carrying 2 mm pyrite and chalcopyrite.
		35.50	Bedding at 80° T.C.A.
		35.55	2 mm Quartz - calcite veinlet with pyrite at 23° T.C.A. - trace chalcopyrite. Very fine disseminated pyrite adjacent (2 cm) above and below veinlet.
		39.20	2 mm veinlet of arsenopyrite at 46° T.C.A.
		40.15	2 cm drusy veinlet of sulphides at 35° T.C.A. (Sample No 1001) Pyrite 75% Arsenopyrite 15% Chalcopyrite 5%.
	41.82		
41.82		41.82	Siltstones interbedded with dolomitic shales.

930478

FROM	TO	DESCRIPTION
		42.63 Bedded at 81° T.C.A.
		Jointing at 60° T. C. A. - normal co-planar.
		43.94 1.5 mm veinlet of pyrite-arsenopyrite at 45°T.C.A.
		44.00 Bedding at 75° T.C.A.
		45.88 - 45.93 Blebs and veinlets of pyrrhotite - pyrite at 44° T.C.A. (Sample No 1002)
		47.80 Bedding at 70° T.C.A.
		48.29 3 mm veinlet of arsenopyrite and minor pyrite at 49° T.C.A.
		48.66 Minor local disseminated pyrrhotite
		50.65 2 mm veinlet of arsenopyrite and pyrite at 49°T.C.A.
		51.80 Bedding at 73° T.C.A.
		54.80 Bedding at 75° T.C.A.
		56.00 Jointing at 50° T.C.A.
	59.13	Pyrite at 38° T.C.A.
59.13		Predommently fine grained black shale.
		59.48 1 mm veinlet of pyrite quartz and minor cassiterite at 50° T.C.A.
		Bedding at 70° T.C.A.
		60.35 3 mm veinlet of quartz and minor pyrite at 38°T.C.A.
		60.42- 62.40 Black shale brecciated by fine hairline displacements. Disseminated pyrrhotite approx 5% on fractures.
		62.50 Bedding at 43° T.C.A. -
		63.70 Bedding at 32° T.C.A.
		Jointing at 34° T.C.A. -normals perpendicular
		64.70 - 66.30 Numerous threads and veinlets of pyrite.
		66.30 5 mm veinlet of quartz, arsenopyrite and pyrite at 28° T.C.A.
		67.40 - 68.15 Core broken due to fracturing and acute angle of bedding to core axis.
		68.25 Bedding at 34° T.C.A.
		70.65 Bedding at 15° T.C.A.
		72.60 Several fine (1 mm) pyrite veinlets on jointing at 39° T.C.A.
		Bedding at 5° T.C.A. - normals of bedding and jointing are perpendicular
		73.40 Bedding at 21° T.C.A.
		73.80 Bedding at 21° T.C.A.

930479

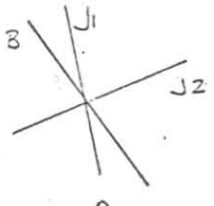
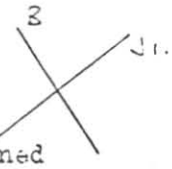
FROM	TO	DESCRIPTION
		74.05 2 cm quartz- pyrite recovered.
		74.07 - 75.59 No core recovery shear zone
		75.59 - 75.80 quartz and pyrite with minor included sediments -- probably shear infilling (Sample No 1003.)
		75.80 - 75.90 Sediments weakly brecciated.
		75.90 Bedding at 34° T.C.A.
		76.70 Bedding at 14° T.C.A.
		(Drag folding must be associated with quartz--pyrite infilled shear).
		78.00 Bedding at 5° T.C.A.
		(Bedding steepens rapidly between 79.45 - - 80.30).
		80.30 Bedding at 36° T.C.A. - minor blebs of pyrrhotite.
		82.30 Bedding at 25° T.C.A.
		83.40 Bedding at 21° T.C.A.
		84.60 Bedding at 22° T.C.A.
		85.90 Bedding at 30° T.C.A.
		87.00 Bedding at 39° T.C.A.
		88.50 Bedding at 28° T.C.A.
	89.61	HOLE TERMINATED AT 89.61 METRES

ANALYSIS

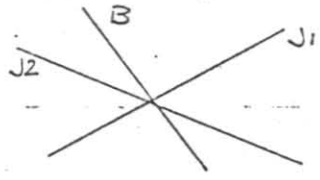
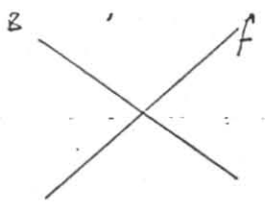
Sample No.	From	To	% Sn	% Cu	% As	% Pb	Ag g/T	Zn %
1001	40.13	40.23	0.19	1.10	6.7	0.01	1.80	0.09
1002	45.67	45.97	0.15	0.12	0.22	0.01	1.80	0.01
1003	75.59	75.90	0.10	0.07	0.73	0.01	-	0.01.

930480

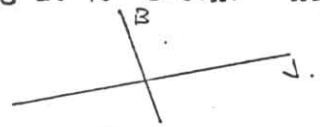
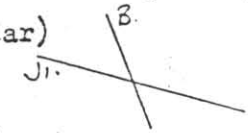
LOCATION	S.P.L. 120	HOLE	No SS-2
SITE		DRILL	Mindrill F 30 Wireline
BEARING	65° Magnetic	DRILLER	Associated Diamond Drillers Pty. Ltd.
ATTITUDE	-50°		
R.L.	491.50	COMMENCED	16-1-74
DEPTH	46.94 m (154 Ft)	COMPLETED	18-1-74
SURVEY	-55° at 46.94 m		

FROM	TO	DESCRIPTION
0.00		SEDIMENTS Weathered yellow to grey siltstone core fractured between 0.00 -1.91 with core loss.
		1.00 Bedding at 85° To Core Axis (T.C.A.) Jointing at 43° T.C.A. Jointing at 30° T.C.A. joint normals at 77°
		1.90 Bedding (B) at 55° T.C.A. Jointing (J1) at 60° T.C.A. Jointing (J2) at 33° T.C.A. all normals approx co-planar 
		8.00 Bedding at 64° T.C.A. Jointing at 21° T.C.A. - core irregularly fractured with hair line displacements of bedding
		8.50 Bedding (B) at 63° T.C.A. Jointing (J1) at 45° T.C.A. 
		9.80 Sediments relatively fresh-fine grained hard dolomite on jointing planes

930481

FROM	TO	DESCRIPTION
		10.20 Bedding at 74° T.C.A.
		11.05 Bedding (B) at 77° T.C.A.
		Jointing (J1) at 41° T.C.A.
		Jointing (J2) at 32° T.C.A.
		(Normals of B & J1 coplanar; normals J1 & J2 perpendicular)
		
		12.64 Minor fracture infilled with quartz and minor pyrite at 31° T.C.A. -Bedding displaced 1 cm by fracture.
		12.95 Minor scale pyrite on bedding plane at 44° T.C.A.
		(Bedding angle to core axis becomes more acute between 12.45 & 12.80. Local bedding change probably sympathetic to minor shearing)
		13.08 Weak shear 5 mm with slight mashing of sediments at 36° T.C.A.
		13.70 Bedding at 46° T.C.A.
		14.53 Weak shearing and brecciation with minor pyrite infilling at 40° T.C.A.
		Bedding at 26° T.C.A.
		
	16.32	
16.32		DOLOMITE with very minor disseminated pyrite and occassional band of greywacke
		17.70 Bedding at 66° T.C.A.

930482

FROM	TO	DESCRIPTION
		19.00 Bedding at 77° T.C.A.
		20.33 to 20.38 Quartzite or greywacke band carrying pyrite at 73° T.C.A.
		21.70 Bedding at 76° T.C.A.
		Jointing at 10° T.C.A. - normals co-planar
		
		23.00 Bedding at 63° T.C.A.
		26.50 Bedding at 69° T.C.A.
		Jointing at 36° T.C.A.
		30.06 1 cm weak shear with quartz-calcite and pyrite-arsenopyrite infilling at 24° T.C.A.
		31.10 Bedding (B) at 73° T.C.A.
		Jointing (J1) at 29° T.C.A.
		Jointing (J2) at 20° T.C.A.
		(Normals of bedding and J1 co-planar; J1 & J2 perpendicular)
		
		32.30 Bedding at 64° T.C.A.
		Jointing at 35° T.C.A. -normals perpendicular
		34.00 Bedding at 66° T.C.A.
		37.00 Bedding at 69° T.C.A.
		39.80 Bedding at 70° T.C.A.
		Jointing at 22° T.C.A. normals co-planar
		43.00 Bedding at 68° T.C.A.
		43.90 Bedding at 70° T.C.A.
	46.94	Jointing at 36° T.C.A. - normals co-planar
		HOLE TERMINATED AT 46.94 m

930483

APPENDIX XXIV

ANALYSIS OF 1981/82 DIGHEM SURVEY

930484

CSR

Minerals Division

TO Mr. P.D. Ellis REFERENCE WJL/sgl/602

FROM W.J. Langron DATE July 2, 1982

DIGHEM DATA, EL 15/76 (DUNDAS) TASMANIA

I have examined the DIGHEM results from this survey and have drawn up a classification of anomalies for ground follow-up. I have based this classification mainly on physical response and the need to examine some even poor-looking anomalies in a variety of environments.

Some responses commented upon in the DIGHEM report are omitted from my list; on the other hand, some responses I consider worthy of follow-up are omitted from the DIGHEM list. What I am trying to do in the first instance is to get a "feel" from the response of the system over a variety of geological conditions. Eventually, all the anomalies noted by DIGHEM in their report should be examined on the ground. I feel that even minor responses may be significant, but this requires to be shown.

Attachment A contains a full list for follow-up within the E.L. Attachment B contains such a list of anomalies for CSR follow-up outside the J.V. areas.

The most promising results are in the north-central and N-E portions of the tenement and, in particular, on the northernmost flight line. The most impressive single response is over Pine Hill (Renison ground). Other promising responses in the N-E (Montezuma J.V.) portion of the tenement persist into our ground and appear to be bedrock conductors although it is suspected that some of these are graphitic shales. There is little of interest on the records for flight lines south of Line 35 (possibly south of Line 32).

Attachment B contains about 2 dozen anomalies for follow-up. From these, 8-10 anomalies are within the "Razorback" lease, which means that only about 15 anomalies are left for examination in our area. Again I stress that any one of these, even a minor response, may be significant and we have to establish this aspect.

I have discussed the results briefly with Mr. Macnamara and from his comments and using the geological overlay it seems that some anomalies are:

- on (or on the continuation of) fault zones (e.g. Anom. D, Line 32)
- on the edge of serpentinite (e.g. Anom. C on Line 19)
- on serpentinite and/or crocoite workings (e.g. Anom. A on Lines 34, 35)

- within the Razorback/Comet Mine area and extensions (e.g. Lines 24-26).

I do not have the soil/stream geochemical assays but these data along with the geology, would provide an initial step in examining the DIGHEM results. You would also need to establish which anomalies fall within the Razorback/Comet lease area. From then on it is a systematic examination of responses as listed.

I plan to go over all the data with you later this month and perhaps discuss preliminary thoughts with EZI on their interpretation of anomalies within our J.V. area.

W.J. Langron

cc - MDL
- PGM
- PMM
- PRG
- DJC/file

Encl.

ATTACHMENT A

CLASSIFICATION OF DIGHEM ANOMALIES

E.L. 15/76 (DUNDAS)

Line	***	**	*	Rinks
1	A	B		
2		A		
3	-	-	-	
4	-	-	?A	
5			fid. 1269.5	(DIGHEM "pick" at 1270.7)
6	-	-	-	
7			A,AX	
8	-	-	-	
9			AX	
10			A	
11			A	
12			A,B, ?C	
13		A	B,C,D, ?fid. 1140.7	
14			A,B,C,D	
15		B	A,C	
16			A,B, ?fid. 1103.7	
17			A,B	
18			A	
19		C	B	
20			B,AX,D,E	
21			C, fid. 1031.8	
22			B	
23	-	-	-	
24			A	)
25			A,B,AX	) Razorback/Comet
26			A,B,C,D	)
27			B,C	
28			AX,A,BX	
29	-	-	-	
30			D	
31			CX	
32			D	
33	-	-	-	
34			A	
35			A	Magnetite Anom.
36	-	-	-	" "
37	-	-	-	
38			?fid. 726.6	
39	-	-	-	
40	-	-	-	
41	-	-	-	
42	-	-	-	
43	-	-	-	

930487

ATTACHMENT B

CLASSIFICATION OF DIGHEM ANOMALIES

E.L. 15/76 (DUNDAS) - CSR FOLLOW-UP ONLY

Line	***	**	*	Rinks
17			A	
18			A	
19		C	B	
20			B,AX	
21			fid. 1031.8	
24			A	)
25			A,B,AX	) Razorback/Comet
26			A,B,C,D	)
27			B,C	
28			AX,A,BX	
30			D	
31			CX	
32			D	
34			A	Magnetite Anom.
35			A	" "

930488 P Ellis

Minerals Division
Exploration Group

CSR

TO File 602 REF. WJL/sgl/602

FROM W.J. Langron DATE November 26, 1982

DIGHEM RESULTS, E.L. 15/76 (DUNDAS), TASMANIA

I refer to my memo of 2nd July, 1982 to Mr. P. Ellis re the preliminary assessment of data, with particular reference to Attachment B.

On 24th November, Mr. Ellis and I examined these anomaly locations in relation to his recently completed compilation of previous geophysical, geochemical and drilling results (this compilation does not include most of Mr. Macnamara's work which is not yet committed to plan).

Much of the E.L. was surveyed by Turair (Rio Tinto program). Few Turair's anomalies occur in the northern part of the E.L.; most anomalies were located about the Amber Creek grid in the southern portion of the E.L. Hence it is not possible to make a comparison between Turair and DIGHEM results (although there is a Turair anomaly"D" over Blackjacks which was barely covered by DIGHEM).

A preliminary copy of the remapped ZEEHAN sheet was also useful in assessing some anomaly locations. An uncoloured version of this sheet will be available before the end of the year.

The following notes refer to those anomalies in Attachment B (of the earlier memo) which require assessment by CSR only. Ground checking should use VLF-EM, magnetics and soil geochemistry if required.

Anomalies 19C, 20AX

- on Geophoto Carbine West grid
- soil geochemistry - Cu, Pb, Zn, Ni, Co, Ag.
- some VLF-EM response, no magnetic response, probably no anomalous Pb.
- appears to be on line between two mapped faults (only half the anomaly trend is in our E.L.; other half is in Renison ground).

Action - should be checked on the ground.

Anomalies 19B, 20B, 21B and 22A

- located along the Razorback-Grand Prize road.
- covered by Intermediate grid of BMR and also by Renison.
- approx. coincident with BMR Anomalies "D" (strong Turam, strong magnetics) and "F" (strong-weak Turam).
- Anomaly "D" has been drilled:
  DDH4 (only serpentine)
  DDH5 (" ")
  DDH7 (serpentine with magnetite bands)
- Renison conducted magnetics, IP, SP and soil geochemistry for Sn, Cu, Pb, As.
- strong magnetic response along serpentinite contact (concentration of magnetite) following the road.
- several coincident IP and SP anomalies approx. parallel to the magnetic axis and distant from it. These were drilled and indicated only layered serpentinite with asbestos and some Ni.

Action - no follow-up recommended.

Anomalies 24A, 25A, 26A, 27B, 28A

- near the ridge top of Mt. Razorback.
- could be pyrite in the pre-Cambrian mudstones here (Mines Department).
- fall on the edge of the BMR Razorback grid and coincides with medium-weak Turam Anomaly "C" (untested).
- no magnetic response.

Action - suspect this series of anomalies.

Anomalies 25AX, 26D

- Comstaff IP anomalies, sections and some geochemical plots, no written report.
- F.E. anomalies look promising. Two anomaly trends at an angle to our DIGHEM trend.
- only one IP anomaly trend supported by some geochemical response.
- no recorded drilling and Comstaff dropped the area soon after.
- also in Geophoto North Comet grid.
- falls within zone of VLF-EM and SP response, no magnetic response.
- soil geochemistry - Cu, Pb, Zn, Ni, Cu, Ag, Cr, Sn, Mn. Little response.
- drilled two holes (Nth Comet 1, Nth Comet 2) on VLF-EM response. Only minor mineralisation.
- these holes did not test our response which is approx. 1 km W of the holes. But no geochemical response here.
- probable that Geophoto looked at the area pretty thoroughly, including geochemistry for Sn.
- although DIGHEM anomaly not explained, Mines Dept. report pyrite in pre-Cambrian mudstones.

Action - no follow-up recommended.

Anomalies 26C, 23B, 24BX

- on the edge of the Geophoto grid (similar to previous group).
- a magnetic high but no VLF-EM response.
- Renison data also on magnetic high - IP, SP and magnetics but soil geochemistry produced nothing of interest.
- Comstaff did IP and geochemistry - located only a high Zn kick.
- IP looks poor-good.

Action - should be inspected on the ground.

Anomaly 27C

- covered by Comstaff and Geophoto grids.
- slightly offset VLF-EM anomaly and just off the IP grid - the IP seems to contain some fair F.E. response.
- lack of geochemical response as above.
- no SP response.
- close to the edge of the lease area and may be a cultural feature.

Action - can be checked easily.

Anomaly 28BX

- on Geophoto, Comet/Kosminski grid.
- no response on VLF-EM, SP or magnetics.
- just off the end of a Comstaff line.

Action - no follow-up recommended.

Anomalies 28AX, 27AX, 26AX

- no previous work has been done.
- located on a road.
- may be cultural (anomaly is in open country).

Action - can be checked easily.

Anomalies 30D, 29BX

- on the Oonah/Serpentinite contact (new mapping).
- on the Geophoto Pratt-Kosminski-Comet grid.
- VLF-EM and SP anomalies and magnetic high.
- right over Comet-Maestries workings.
- Geophoto drilled Comet 1 and Comet 2 - little disseminated chalcopyrite near the surface, minor Pb, Zn (sidesite).
- Mines Dept. probably drilled also.

Action - no follow-up recommended.

Anomaly 31CX

- in Ainslie grid of Geophoto.
- soil geochemistry for Cu, Pb, Zn, Ni, Ag. Rock chips for Mo.
- no VLF-EM, magnetic or geochemical response.
- possibly in a fault.
- Geophoto drilled one hole to the south.

Action - no follow-up recommended.

Anomaly 32D

- similar area and remarks as for Anomaly 31CX.

Action - no follow-up recommended.

Anomalies 34A, 35A

- on Geophoto Adelaide/Red Lead/Bonanza grid.
- on a magnetic high. No VLF-EM or SP anomalies.
- Cu, Pb, Zn, Ni, Co, Ag, Cr soil geochemistry.
- 7 drill holes all east of the DIGHEM anomaly, testing the better geochemistry. No worthwhile results.
- DIGHEM anomaly coincides with the Adelaide-Red Lead shear.

Action - no follow-up recommended.

Thus 5 anomaly groups are recommended for ground inspection in the first instance.

W.J. Dangron

cc - JHR
- MDL
- PRG
- PDE
- PRG
- DJC/File

930494

Prospect 602

CSR LIMITED - MINERALS DIVISION
EXPLORATION GROUP

PAST EXPLORATION
WITHIN THE AREA OF
EXPLORATION LICENCE 15/76
DUNDAS - TASMANIA

VOLUME V - Plans

EMR 188/82

HOBART
February 1983

P.D. ELLIS

365 000mE 366 000mE 367 000mE 368 000mE 369 000mE 370 000mE 371 000mE 372 000mE 373 000mE 374 000mE 375 000mE 376 000mE 377 000mE

5 369 000mN
5 368 000mN
5 367 000mN
5 366 000mN
5 365 000mN
5 364 000mN
5 363 000mN
5 362 000mN
5 361 000mN
5 360 000mN
5 359 000mN
5 358 000mN
5 357 000mN
5 356 000mN
5 355 000mN
5 354 000mN
5 353 000mN
5 352 000mN
5 351 000mN

CUNI (CSR 1982)
EZ NORTH MELBA FLAT GRID
BMR CUNI GRID
CSR PRE 1962 GRID
EZ EAST MELBA GRID
EZ DEVEREAU GRID
BMR CUNI EXTENSION GRID
NEVADA (CSR 1982)
GEOTERREX EM LINE 1 SE
GRAND PRIZE GRID
ANOMALY 'A' SUB GRID
RENISON SPL 20
CSR FRAZER GRID PRE 1962
INTERMEDIATE GRID
CARBINE WEST GRID
CARBINE EAST GRID
RAZOR BACK GRID
COMSTAFF GRID WITH I.P. ANOMALIES
MONTEZUMA NORTH GRID
NORTH COMET GRID
RAZOR BACK GRID
HASSETT GRAVEL PIT GRID
AINSLIE GRID
MONTEZUMA SOUTH GRID
WEST COMET GRID
COMET
PLATT GRID
KOSMINSKY GRID
ADELAIDE GRID
EAST SOUTH COMET GRID
SILVER GRID
TENNECO A.R. DOBSON BLACK JACK GRID EM MAG. S.P. GRAVITY
RED LEAD GRID
BONANZA GRID
SOUTH COMET GRID
MARIPOSA WEST GRID
MARIPOSA EAST GRID
MT. DUNDAS GRID
MARIPOSA SOUTH GRID
CLIMIE (CSR 1982)
GEOPHOTO GRID
BMR / NTH. BROKEN HILL MARIPOSA GRID GRAVITY MAG. DRILL.
Mc INTYRE ANOMALY 1 AREA SOIL GEOCHEM. - Pb, Zn, Cu
GEOTERREX EM LINE 2E
MAG.
Mc INTYRE MARIPOSA GRID I.P. SP. SOIL GEOCHEM. Cu., Pb., Zn DDH's
RIO TINTO MARIPOSA GRID
GEOTERREX EM LINE 35W
GEOPHOTO HOWARD GRID
GEOPHOTO AMBER CREEK GRID
EM MAG SOIL GEOCHEM Cu, Pb, Zn, Co, Ni, Ag
HOWARD ROAD (CSR 1982)

930495

02_4820

Past Exploration within the area of EL 15/1976 - Dundas
CSR Limited*
Ellis, P.D. EL15/1976

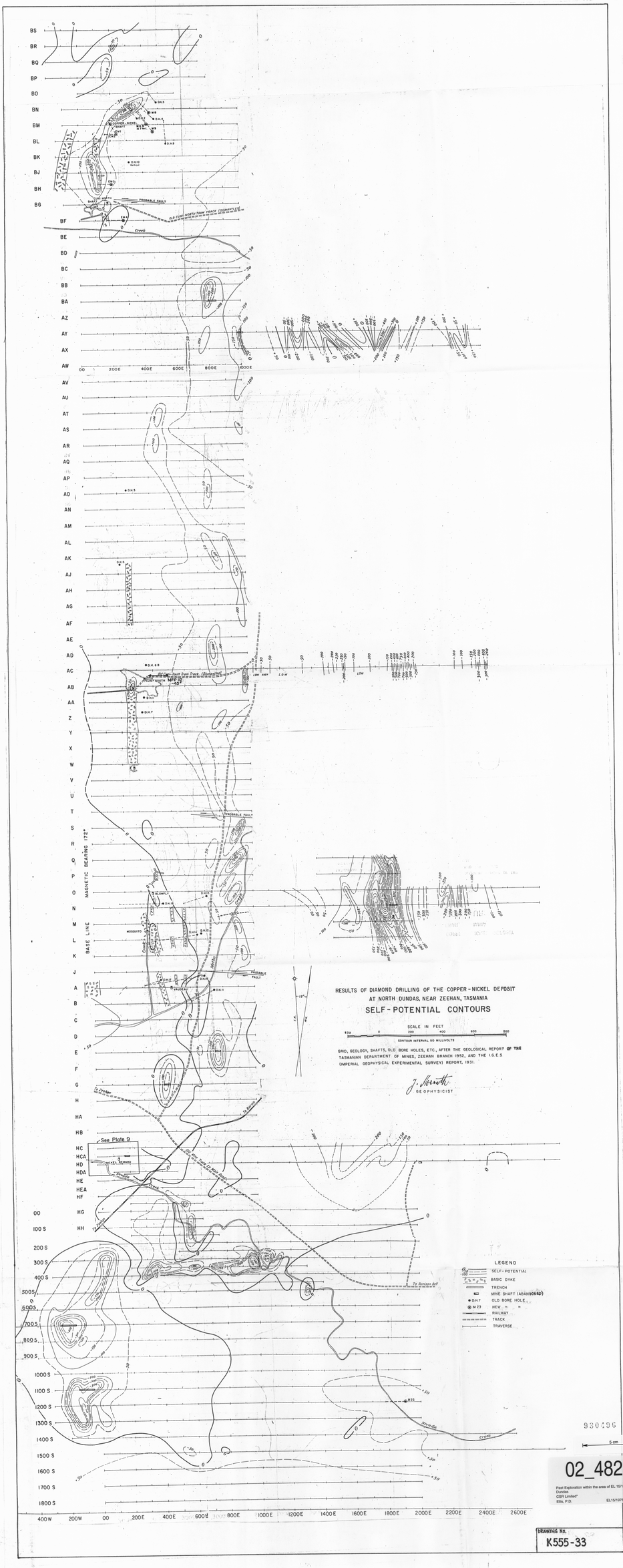
CSR LIMITED-MD

E.L. 15/76 DUNDAS W. TAS.

PAST EXPLORATION SUMMARY

5 cm

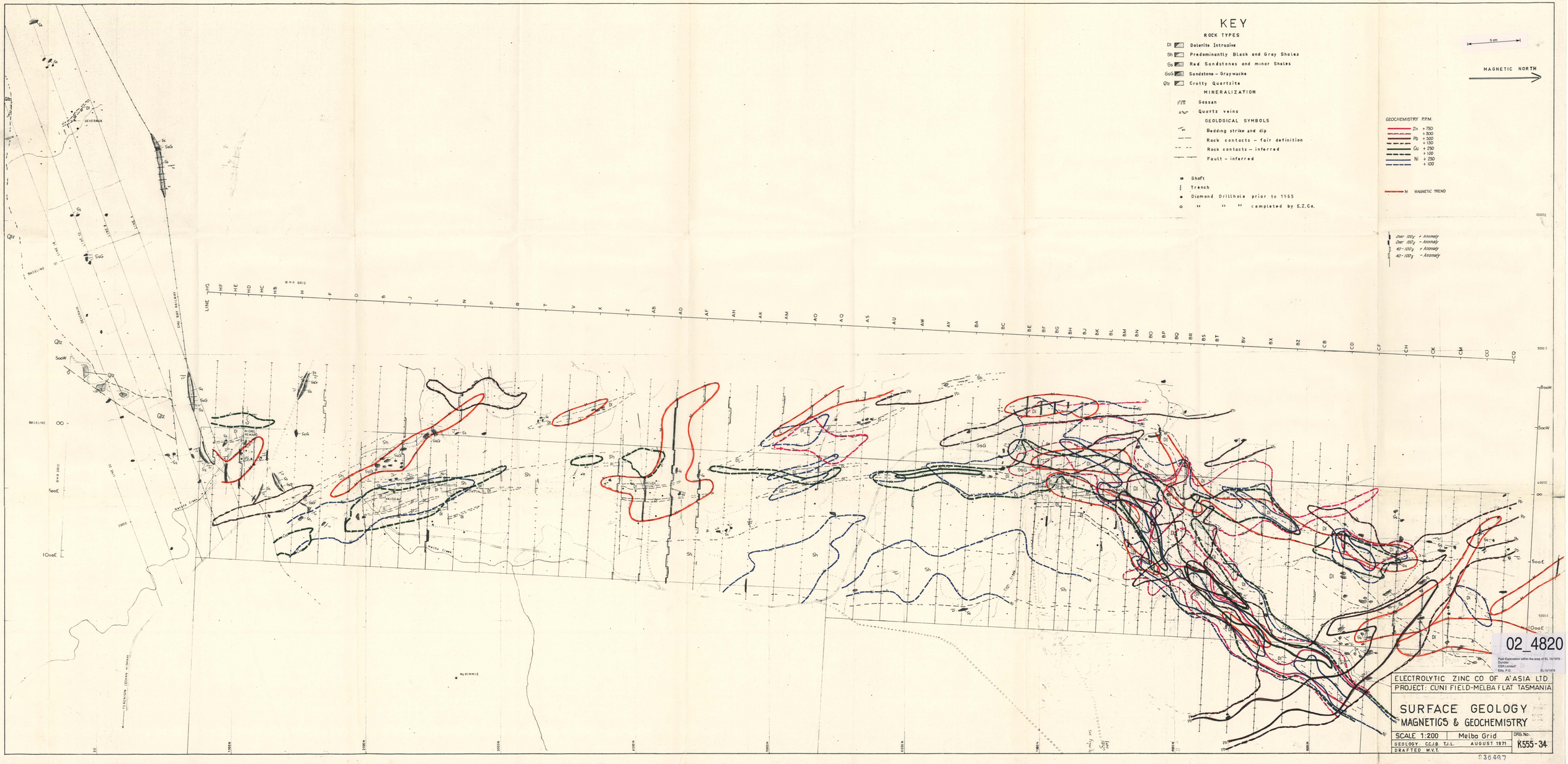
SCALE : 1:20,000	DRG. No.
DRAWN : PE./PR.	K555-32
DATE : Dec. '82	
REVISED :	

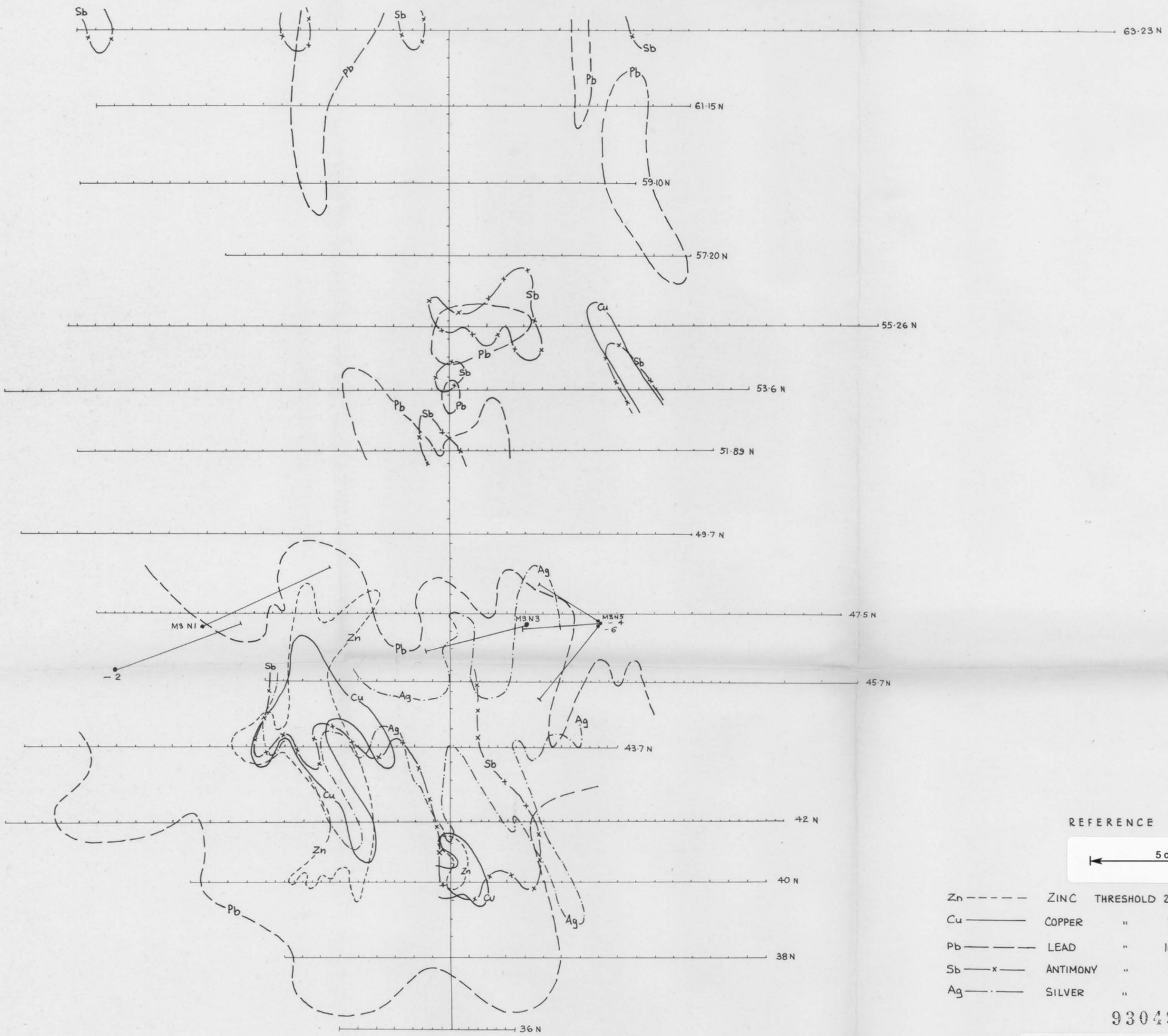


02_4820

Past Exploration within the area of EL 15/1976 - Dundas
CSR Limited
Ellis, P.D.
EL15/1976

DRAWING No.
K555-33


KEY
ROCK TYPES
Dl Dolerite Intrusive
Sh Predominantly Black and Gray Shales
Ss Red Sandstones and minor Shales
SsG Sandstone – Graywacke
Qtz Crotty Quartzite
MINERALIZATION
Gossan
Quartz veins
GEOLOGICAL SYMBOLS
Bedding strike and dip
Rock contacts – fair definition
Rock contacts – inferred
Fault – inferred
Shaft
Trench
Diamond Drillhole prior to 1965
" " " completed by E.Z.Co.
GEOCHEMISTRY P.P.M.
Zn +750
+300
Pb +300
+150
Cu +250
+100
Ni +250
+100
M MAGNETIC TREND
Over 100γ + Anomaly
Over 100γ – Anomaly
40-100γ + Anomaly
40-100γ – Anomaly
MAGNETIC NORTH
5 cm
LINE HG HF HE HD HC HB H F D B J L N P R T V X Z AB AD AF AH AK AM AO AQ AS AU AW AY BA BC BE BF BG BH BJ BK BL BM BN BO BP BQ BR BS BT BV BX BZ CB CD CF CH CK CM CO CQ
BMR GRID
BASELINE
DEVERAUX
McKIMMIE
Melba Creek
Cuni Creek
02_4820
Past Exploration within the area of EL 15/1976 - Dundas
CSR Limited
Ellis, P.D.
EL15/1976
ELECTROLYTIC ZINC CO OF A'ASIA LTD.
PROJECT: CUNI FIELD-MELBA FLAT TASMANIA
SURFACE GEOLOGY
MAGNETICS & GEOCHEMISTRY
SCALE 1:200
Melba Grid
DRG. No.
K555-34
GEOLOGY C.C.J.B. T.J.L.
AUGUST 1971
DRAFTED W.V.T.
036497



0 50 100 150
Metres

REFERENCE

5 cm

Zn - - - - -	ZINC	THRESHOLD	250 P.P.M.
Cu ———	COPPER	"	70 P.P.M.
Pb —— ——	LEAD	"	100 P.P.M.
Sb ——x——	ANTIMONY	"	20 P.P.M.
Ag ——·——	SILVER	"	3 P.P.M

930498

02_4820

Past Exploration within the area of EL 15/1976 - Dundas
CSR Limited*
Ellis, P.D. EL15/1976

NOTE SEE PLAN No. K555-32 FOR GRID LOCATION AND APPENDIX XI FOR ANALYSES

THRESHOLD CONTOURS FOR ZINC, COPPER, LEAD, ANTIMONY & SILVER

MONTEZUMA GRID

E.L. 7/68 DUNDAS, TASMANIA

K555-36

T.N.

02_4820

Past Exploration within the area of EL 15/1976 - Dundas
CSR Limited*
Ellis, P.D. EL15/1976

930499

REFERENCE

- VLF-EM SURVEY (1st deriv. contour +20 unit value)
- ·····4····· S.P. SURVEY (X 100) ie 4 = 400
- —5000— VERTICAL MAGNETIC INTENSITY SURVEY (Feb. 1974)
- —•— I.P. SURVEY (w weak, m mod., s strong)
- —o— DRILLING

0 1000 2000 Feet

0 250 500 Metres

VLF-EM, SP, MAGNETIC & IP ANOMALIES
GEOPHOTO GRIDS
CENTRAL DUNDAS AREA TAS.

5 cm

DRG. No. K555-37

343000ydE 365000mE 344 ydE 366 mE 345ydE 367mE 346ydE 368mE 347 ydE 369 mE 348ydE 370mE 349ydE 371mE 350ydE 372 mE 351ydE 373mE 352ydE 374 mE 353 ydE

5368mN 849 ydN 5367 mN 848 ydN 5366 mN 847 ydN 5365 mN 846ydN 5364 mN 845 ydN 5363 mN 844 ydN 5362 mN 843 ydN 5361 mN 842 ydN 841000 ydN 5360000mN

Lead Blocks · Serpentine Hill · Melba · Kapi · Hecla · Ramsdale · Evenden · Ronnie Dundee · Frazer · Curtain Davis · Black Hill · Grand Prize · CARBINE HILL · Razorback · North Comet · Comet · Maesbrae · Flatt · Bangor Cross · Ainslie · South Comet · Kopfman · Adelaide · Climie · Black Jacks · Mt Dundas · MOORES PIMPLE

MINOPS P/L · GREEN & WILLIAMS · GODKIN RIDGE · DUNDAS RIVER

E.L. 42/71
E.L. 15/76

Qra Qrs Qrg Qrb Qt Qpf Qpm Pt Db Df Sac Sk Sa Sc Om Og Pc Puo Jdl Qpm Dap Eg Es Ec Em Ecl Ef Eco Efe Eb Era Eh Er Ed

REFERENCE

QUATERNARY	Q	Qra	Alluvium
		Qrg	Gravels
		Qt	Conglomerate talus
		Qt	Dolerite talus
		Qrs	Older alluvium marsh deposits, downwash etc.
		Qpf	Fluvioglacial & lacustrine deposits
		Qpm	Moraine
PERMIAN	P	Pt	Zeehan Glacial Formation
DEVONIAN	D	Db	Bell Shale
		Df	Florence Quartzyte
SILURIAN	S	Sac	Austral Creek Siltstone
		Sk	Keel Quartzyte
		Sa	Amber Slate
		Sc	Crotty Quartzite
		S	Unassigned
ORDOVICIAN	O	Og	Gordon Limestone
		Om	Moina Sandstone
		Oz	Mt Zeehan Conglomerate
CAMBRIAN	€	€m	Misery Conglomerate
		€cl	Climie Formation
		€f	Fernflow Formation
		€co	Comet Formation
		€fe	Fernfields Formation
		€b	Brewery Junction Formation
		€ra	Razorback Conglomerate
		€h	Hodge Slate
		€r	Red Lead Conglomerate
		€d	Dundas Group unassigned
		€c	Crimson Creek Formation
		€	Cambrian unassigned
PROTEROZOIC	P	Puo	Oonah Quartzite & Slate
		Pc	Concert Schist
		Pw	Whyte Schist

IGNEOUS ROCKS

JURASSIC	Jdl	Dolerite
ORDOVICIAN	Dap	Quartz porphyry
CAMBRIAN	Eg	Gabbro, norite and dolerite
	Es	Serpentinite and pyroxenite

- Stream sediment (M) (-80mesh)
- Panned concentrate (P)
- Rock chip, float (R, F)
- Limonite (L)

Sequence of values (p.p.m)

Sn
Cu
Zn
Pb
Bi
Ag

930500

5 cm

02_4820

Past Exploration within the area of EL 15/1976 -
Dundas
CSR Limited*
Ellis, P.D. EL15/1976

PACMINEX PTY. LIMITED

DRAINAGE GEOCHEMISTRY
(Sn, Cu, Zn, Pb, Bi, Ag)
(-80 mesh and rock chip samples)
E. L. 15/76 - North Sheet
DUNDAS, WEST TASMANIA

SCALE	1 : 10 000
DRAWN	P M M / P H
DATE	Jan '79
REVISED	

K 555 - 8

BALSTRUP FAULT
HENTY FAULT
FARRELL RIVER
Amber Creek
Professor Creek
Marposa Creek
Westerway Creek
Tom Creek
Barry Creek
Ewart Creek
Bannockburn
Sunny Corner
5359 mN
5358 mN
5357 mN
5356 mN
5355 mN
5354 mN
5353 mN
5352 000 mN
840 yd N
839 yd N
838 yd N
837 yd N
836 yd N
835 yd N
834 yd N
833 yd N
832000 yd N
343000 yd E
365000 mE
344 yd E
366 mE
345 yd E
367 mE
346 yd E
368 mE
347 yd E
369 mE
348 yd E
370 mE
349 yd E
371 mE
350 yd E
372 mE
351 yd E
373 mE
352 yd E
374 mE
353 yd E
354 yd E
375 mE
355 yd E
02_4820
Past Exploration within the area of EL 15/1976 - Dundas
CSR Limited*
Ellis, P.D.
EL15/1976
5 cm
PACMINEX PTY. LIMITED
DRAINAGE GEOCHEMISTRY
(Sn, Cu, Zn, Pb, Bi, Ag)
(-80 mesh and rock chip samples)
E.L. 15/76 - South Sheet
DUNDAS, WEST TASMANIA
SCALE 1:10 000
DRAWN P.M.M. / P.H.
DATE Jan '79
REVISED
K555-9
930501

6600mE 6800 7000mE 7200 7400 7600mE

LINE 7550N
MAGNETIC PROFILE

62500γ
62400γ

LINE 7485N
MAGNETIC PROFILE

62500γ
62400γ

TILT %
+20
+10
0
-10
-20
-30
-40

LINE 7485N
VLF-EM

DDH CG1
COLLAR 7485N, 7357E

0·15m Zn, Pb, Ag
0·40m Zn, Pb, Ag
0·9m Zn, Pb, Ag

62500γ
62400γ
62300γ
62200γ
62100γ

LINE 7450N
MAGNETIC PROFILE

7000mE 7200 7400 7600mE

REFERENCE

VLF-EM
- In phase component
- Out of phase (Quadrature)
- 1cm = 10% tilt angle

CG1 PROFILE
- Greywacke, tuff
- Shale
- Black shale
- Dolerite
- Serpentinite
- Carbonate-quartz-sulphide zone

02_4820

Past Exploration within the area of EL 15/1976 - Dundas
CSR Limited*
Ellis, P.D. EL15/1976

6600mE 6800

930502

CSR LIMITED-MCD

CUNI GRID E.L.15 76 DUNDAS TAS.

DDH CG1

MAGNETIC & VLF-EM PROFILES

5 cm

SCALE	1:2500	DRG. No.
DRAWN	P.M.M./P.R	K555-24
DATE	Aug. '81	
REVISED		

6800mE 7000mE 7200mE 7400mE 7600mE

LINE 7793N
MAGNETIC PROFILE

62500γ
62400γ

LINE 7700N
VLF - EM

Quadrature
In phase

LINE 7700N
VLF - EM
Tilt Angle
%
+20
+10
0
-10
-20

62500γ
62400γ

LINE 7700N
MAGNETIC PROFILE

7700N MAGNETIC PROFILE

DDH CG2
COLLAR 7782N, 7076E

clay
0.86m of 5.4% Zn, 4.7% Pb, 129 p.p.m Ag
100
200
300
400
440m

62400γ
62300γ
62200γ

Black shale
Shale
Siltstone
Sandstone
Gabbro

5 cm

02_4820

Past Exploration within the area of EL 15/1976 - Dundas
CSR Limited*
Ellis, P.D.
EL15/1976

CSR LIMITED-MCD

CUNI GRID E.L.15/76 DUNDAS TAS.
DDH CG2
MAGNETIC & VLF-EM PROFILES

SCALE	1 : 2500	DRG. No.
DRAWN	P.M.M. / P.R.	K555-26
DATE	Aug. '81	

6800mE 7000mE 7200mE 7600mE

930503

6800mE 7000mE 7200mE 7400mE 7600mE

LINE 7793N
MAGNETIC PROFILE

62500γ
62400γ

LINE 7700N
VLF - EM

Quadrature
In phase

LINE 7700N
VLF - EM
Tilt Angle
%
+20
+10
0
-10
-20

62500γ
62400γ

LINE 7700N
MAGNETIC PROFILE

7700N MAGNETIC PROFILE

DDH CG2
COLLAR 7782N, 7076E

clay
0·86m of 5·4% Zn, 4·7% Pb, 129 p.p.m Ag
100
200
300
400
440m

62400γ
62300γ
62200γ

Black shale
Shale
Siltstone
Sandstone
Gabbro

02_4820

Past Exploration within the area of EL 15/1976 - Dundas
CSR Limited*
Ellis, P.D.
EL15/1976

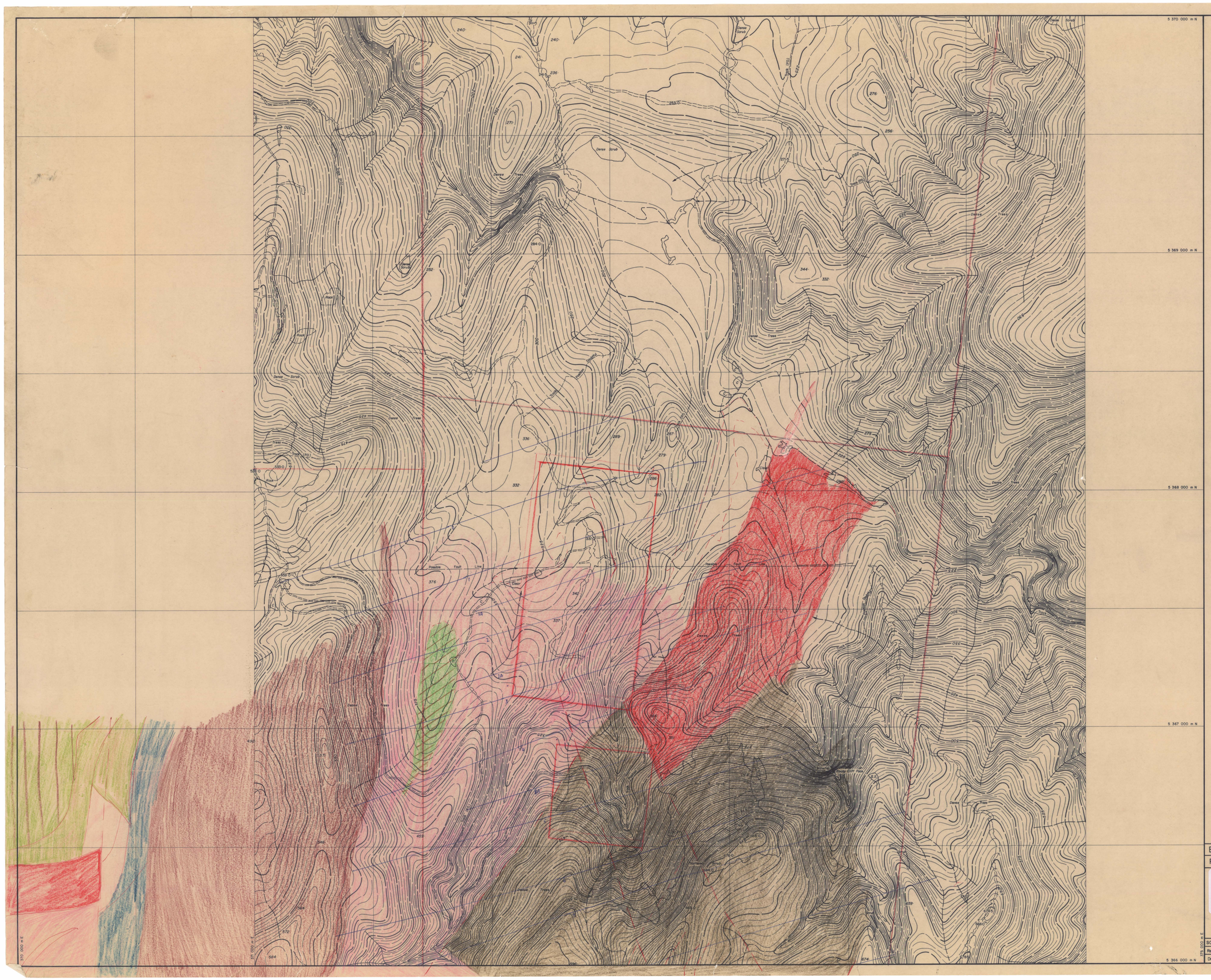
930504

CSR LIMITED-MCD

CUNI GRID E.L.15/76 DUNDAS TAS.
DDH CG2
MAGNETIC & VLF-EM PROFILES

SCALE	1 : 2500	DRG. No.
DRAWN	P.M.M. / P.R.	K555-26
DATE	Aug. '81	

6800mE 7000mE 7200mE 7600mE



Compiled by: Associated Surveys (Vic.) Pty. Ltd.
25 Burwood Road HAWTHORN 3122.
(03) 818 7957, 819 4090.

Date of Photography — 5.2.1982

N.B. Broken contours (form lines) and italic spot heights indicate lesser reliability due to dense vegetation.

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.

PROJECT : MONTEZUMA JOINT VENTURE

02_4820

Past Exploration within the area of EL 15/1976 - Dundas
CSR Limited*
Ellis, P.D. EL15/1976

5 cm

SCALE: 1:5000	Survey:	Revised:
Reference:	Date:	30 B
Drawn:	Checked:	

DUNDAS 1:5000
1984 INTERP
TOPO

930595