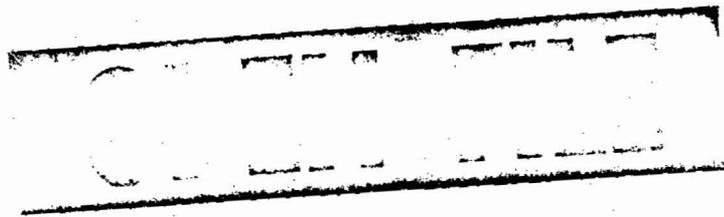


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EXPLORATION LICENCE 12/78

SCAMANDER AREA, TASMANIA

PROGRESS REPORT

August, 1979

MICROFILMED

CONTENTS

1. INTRODUCTION
2. ACCESS AND PHYSIOGRAPHY
3. MINING HISTORY
4. FIELD INVESTIGATIONS
 - 4.1 Geological Mapping
 - 4.2 Geochemical Sampling
 - 4.3 Geophysics
5. FUTURE PROGRAMME

APPENDIX

GEOCHEMICAL SAMPLING.

FIGURES

- FIGURE 1 . E.L. 12/78 Scamander Location Map
- FIGURE 2 . Scamander Geology 1:50,000
- FIGURE 3 . Upper Scamander Area Geology 1:25,000
- FIGURE 4 . Upper Scamander Area Stream and Rock
Sample Locations 1:25,000
- FIGURE 5 . Upper Scamander Area Stream Sample Results
(a)-(e) 1:25,000
- (a) Cu
 - (b) Pb
 - (c) Zn
 - (d) Sn
 - (e) As
- FIGURE 6 . Upper Scamander Area Rock Chip Results
(a)-(b) 1:25,000
- (a) Cu, Pb, Zn
 - (b) Sn
- FIGURE 7 . Orieco Hill Area Rock Chip and Stream Sample
Results Sn, Cu, Pb, Zn 1:4,000.
- FIGURE 8 . Summary of Previous Exploration
- FIGURE 9 . North Scamander Prospect Soil Geochemical
Results.

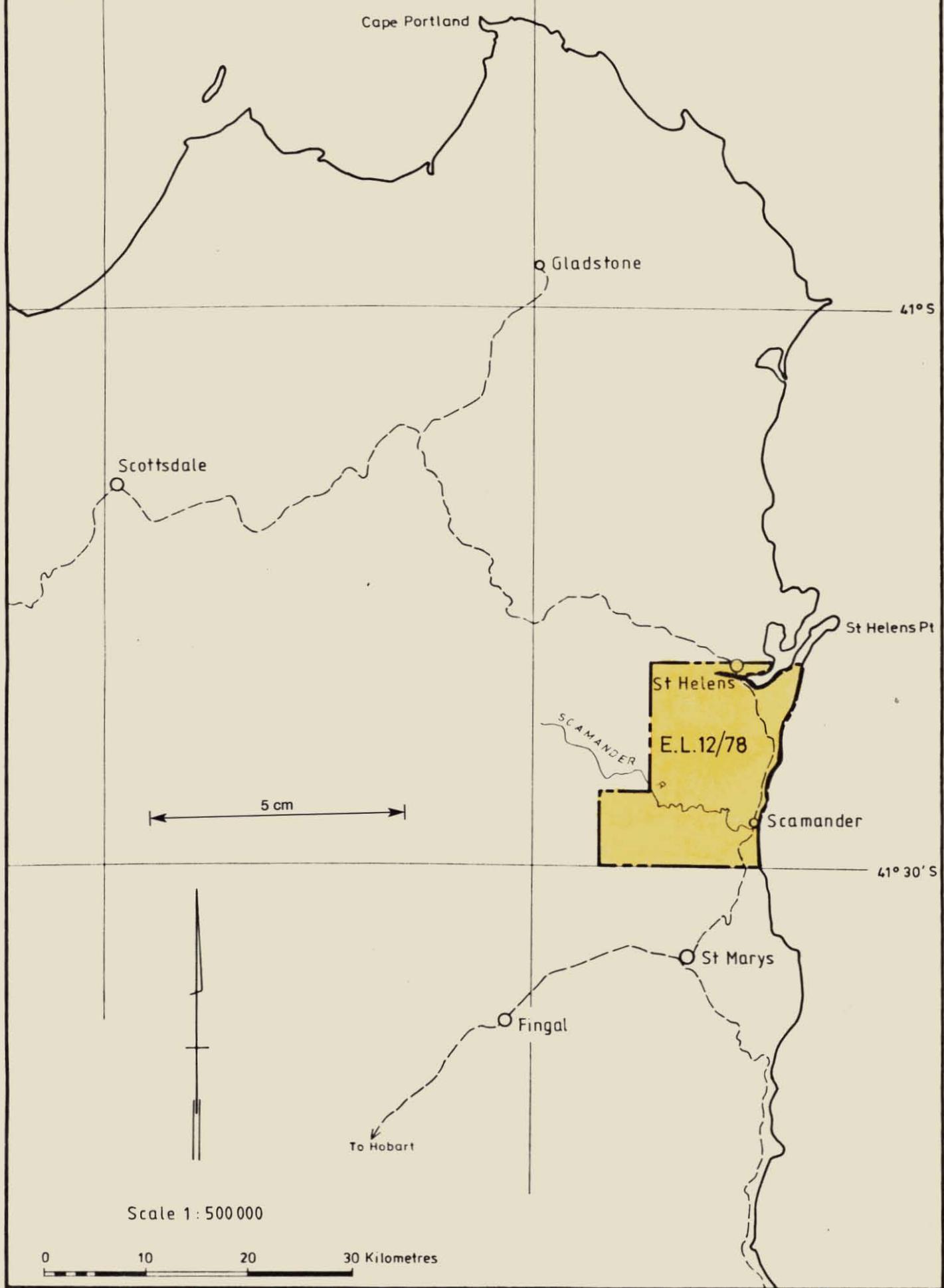
FIG. 1

147°30'E

148°E

144004

003



5 cm

Scale 1 : 500 000

0 10 20 30 Kilometres

Centre Melbourne

Date 2 - 2 - 79

THE BROKEN HILL PROPRIETARY CO. LTD.
E.L. 12/78 SCAMANDER, TAS.
LOCATION MAP

Project No.

Drawing No:
A4-1975

004

PROGRESS REPORT - EXPLORATION LICENCE 12/78, SCAMANDER AREA

1. INTRODUCTION

Exploration Licence 12/78 is an area of 276 square kilometres, lying within the St. Helens - Scamander district (See Figure 1). It was granted to The Broken Hill Proprietary Company Limited on 26th September, 1978 expiring on 15th March, 1979. On 16th March, 1979 E.L. 12/78 was renewed for six months, expiring on 15th September, 1979.

2. ACCESS AND PHYSIOGRAPHY

The Licence area lies largely within State Forest, and hence road access is excellent, with a network of graded roads and firebreaks providing good coverage of all but the westernmost sections of the E.L.

Vegetation for the most part is light, open, eucalyptus forest. Recent fires have destroyed much of the undergrowth. Within the Scamander Tier-Loila Tier-Skyline Tier area, active logging and reafforestation are in progress, with radiata pines at various growth stages.

Creeks are more densely vegetated than the ridges and slopes. The terrain is mostly of an undulating to steep nature.

3. MINING HISTORY

Earliest exploration and mining was undertaken at the turn of the century, with particular interest in gold and tin deposits. Most of the important discoveries in the North East of Tasmania have been in the Blue Tier Tinfield and Mathinna Goldfield; minor discoveries of tungsten, copper, silver and tin were made in the Scamander Mineral District, but were rarely developed beyond the prospect stage. The major production in this field is 85 tons of metallic copper (Orieco Mine), 2.93 tons of metallic tin (Great Pyramid Mine) and approximately 10,000 ounces of silver (various silver mines).

Exploration of the area was undertaken by Electrolytic Zinc Co. (late 1950's, early 1960's), B.H.P. (1960's), Austminex (1960's), Geophoto (late 1960's, early 1970's) and Paringa (1970's).

A summary of the exploration completed on specific prospects is shown on Figure 8.

2.

4. FIELD INVESTIGATIONS4.1 Geological Mapping

Geological mapping of the E.L. was carried out on a regional basis, with a view to determining lithological and structural trends. It consisted of reconnaissance mapping along major roads and creeks, together with aerial photograph interpretation where necessary to link up lithological boundaries in the more inaccessible areas of the E.L. See Figures 2 and 3.

The oldest rocks in the area are the Siluro-Devonian Mathinna Beds, which comprise an alternating sequence of bedded sandstones (up to 10m thick) siltstones and shales (up to 5m thick). Sandstones and greywackes are the dominant lithological types, but in the eastern part of the area, a band of dominantly dark shale with minor siltstone and sandstone is present. As pointed out in Geophoto report 1974/2, the sedimentary features found in the Mathinna Beds may suggest some control in their deposition by turbidity currents.

Minor metamorphism of shales to spotted hornfels and of sandstones and greywackes to quartzites, was noted adjacent to the granitic intrusions found in the western and north-western corners of the area. Such metamorphism is limited to a zone up to several tens of metres from the granite-sediment contact. Low grade metamorphism was also recognised in zones of shearing, which are often parallel to the major structural trends.

The Mathinna Beds were folded during the Tabberabberan Orogeny to produce open folds, the major trend being NNW to SSE. The major faults and shear zones also trend NNW to SSE. Centres of mineralisation are frequently located along major shears.

A suite of granitic intrusives was emplaced at the end of the Upper Devonian Tabberabberan Orogeny and is thought to be the source of much of the mineralisation of North East Tasmania.

Tertiary and Quaternary deposits (mud, silt, sand, alluvium, gravels, pebble beds) now cover much of the eastern portion of the E.L., as well as the lower reaches of the George and Scamander Rivers.

4.2 Geochemical Sampling

During the course of regional and detailed mapping of gossanous targets, 110 rock chip samples were collected. This was followed up with stream sediment sampling of specific target areas. Samples were sieved to -40 mesh in the field. Locations are shown on Figure 4.

Routine analysis was carried out by Analabs (Aust.) Pty. Ltd., with check analysis by AMDEL. Samples were pulverised and copper, lead, zinc, silver and arsenic were determined by atomic absorption spectroscopy after a perchloric acid leach. Tin was determined by XRF, and gold by atomic absorption after an MIBK extraction from an aqua regia leach.

Analysis results are listed in the Appendix, Stream samples results are plotted on Figures 5 and 7, and rock chip results on Figures 6 and 7.

Several areas with anomalous copper, lead, zinc, tin, silver and arsenic in streams and rocks were found, in particular along the gossanous outcrops in the vicinity of the Orieco Hill area, and also in the North Scamander prospect area.

4.3 Geophysics

A helicopter borne aeromagnetic survey was flown and interpretation of the results is in progress.

5. PROPOSED EXPLORATION

Ground geophysical techniques will be used to determine the nature of the mineralised zones at Orieco and North Scamander. The input method may be appropriate at Orieco because of the non-magnetic, copper-bearing mineralisation found there. E.M. methods would be suitable at North Scamander due to the presence of pyrrhotite in the mineralisation.

APPENDIX

GEOCHEMICAL SAMPLING

SCAMANDER E.L. 12/78

DATA BASE
NoGEOCHEMICAL RESULTSSS - Stream Samples - 40*PG - Rock Chip Samples

Sample No.	Sn	Cu	Pb	Zn	Ag	Au	As
7001 SS 1001	25	45	60	145	x	x	6.7
7002 SS 1002	40	35	40	90	x	x	6.7
3 SS 1003	30	30	40	55	x	x	8.3
4 SS 1004	45	45	110	75	x	x	4.2
5 SS 1005	55	45	45	35	0.5	x	10.0
6 SS 1006	20	25	5	20	0.5	x	3.3
7 SS 1007	25	40	60	85	x	x	1.7
8 SS 1008	20	30	30	55	x	x	3.3 NOT ON MAP
9 SS 1009	20	30	30	60	0.5	x	1.7
7010 SS 1010	20	25	25	25	x	x	1.7
1 SS 1011	30	30	20	25	x	x	20.0
2 SS 1012	15	35	50	15	x	x	3.3
3 SS 1013	10	55	10	55	x	x	17.8
4 SS 1014	25	20	30	20	x	x	1.7
5 SS 1015	160	30	100	35	0.5	x	1.7
6 SS 1016	2600	510	65	185	4.5	x	61.8
7 SS 1017	920	540	560	80	55.0	x	6053
8 SS 1018	370	235	50	155	1.5	x	142
9 SS 1019	15	30	10	20	1.0	x	10.0
7020 SS 1020	6	32	20	20	1	x	14
1 SS 1021	10	20	15	45	1.0	x	6.7
2 SS 1022	25	25	20	75	0.5	x	6.7
3 SS 1023	30	35	60	115	x	x	3.3
4 SS 1024	30	30	20	75	0.5	x	50.0
5 SS 1025	50	35	25	75	x	x	39.5
6 SS 1026	30	35	45	130	1.0	x	42.1
7 SS 1027	40	30	20	65	1.0	x	36.8
8 SS 1028	40	25	25	85	1.0	x	22.2
9 SS 1029	20	35	15	55	1.0	x	44.7
7030 SS 1030	-	15	10	30	1.0	x	1.7
1 SS 1031	10	15	10	30	0.5	x	3.3
7032 SS 1032	x	15	5	50	x	x	1.7

009

DATA BASE NO

2.

144010

Sample No	Sn	Cu	Pb	Zn	Ag	Au	As
7033 SS 1033	x	15	5	45	0.5	x	1.7
SS 1034	x	15	5	50	x	x	1.7
SS 1035	x	15	5	50	0.5	x	x
SS 1036	x	30	10	65	0.5	x	1.7
SS 1037	3	15	5	50	0.5	x	1.7
SS 1038	25	20	20	35	x	x	5.0
SS 1039	20	40	30	60	0.5	x	22.2
SS 1040	48	42	19	60	1	x	44
SS 1041	40	35	25	70	0.5	x	15.5
SS 1042	25	50	20	75	1.5	x	20.0
SS 1043	40	20	15	45	x	x	7.0
SS 1044	10	30	25	85	1.0	x	18.0
SS 1045	90	25	25	80	1.0	x	22.0
SS 1046	10	25	25	70	1.0	x	16.0
SS 1047	25	50	30	55	1.0	x	24.0
SS 1048	10	30	30	80	1.0	x	22.0
SS 1049	15	25	30	70	1.0	x	4.0
SS 1050	3	35	35	100	1.5	x	8.0
SS 1051	45	40	40	85	0.1	x	20.0
SS 1052	30	70	30	85	1.0	x	61.4
SS 1053	30	45	15	40	1.0	x	14.0
SS 1054	15	55	15	60	1.0	x	54.5
SS 1055	25	60	20	65	1.0	x	47.7
SS 1056	60	80	15	90	0.5	x	26.0
SS 1057	20	65	15	65	1.0	x	54.5
SS 1058	20	80	25	90	0.5	x	34.0
SS 1059	25	85	30	65	2.0	x	104
SS 1060	22	45	22	35	1	x	120
SS 1061	25	70	20	60	1.5	x	89.5
SS 1062	85	60	135	140	1.5	x	12.0
SS 1063	25	90	20	100	x	x	18.0
SS 1064	x	20	10	35	0.5	x	4.0
SS 1065	x	30	20	70	x	x	5.0
SS 1066	x	30	20	50	x	x	6.0
7067 SS 1067	4	20	10	55	0.5	x	2.0

7056

Sample No	Sn	Cu	Pb	Zn	Ag	Au	As	Ba	Mn
SS 1068	x	20	10	55	x	x	4.0		
SS 1069	25	70	35	140	x	x	12.0		
SS 1070	x	15	5	30	1.0	x	2.0		
SS 1071	x	20	15	40	x	x	4.0		
SS 1072	x	20	10	30	x	x	x		DUPPLICATED ON MAP
SS 1073	70	30	110	105	x	x	4.0] NOT ON MAP
SS 1074	x	30	155	30	1.0	x	6.0		
SS 1075	130	30	65	40	1.0	x	8.0		
SS 1076	410	35	50	135	0.5	x	16.0		
SS 1077	250	15	20	20	0.5	x	2.0		
SS 1078	140	35	120	65	1.0	x	5.0] ROCK CHIP ONLY
SS 1079	290	60	135	95	x	x	12.0		
SS 1080	14	28	32	65	1	x	2		
SS 1081	40	35	45	90	1.0	x	4.0		
SS 1082	170	45	40	50	0.5	x	4.0		
SS 1083	60	40	45	75	1.0	x	1.0		
SS 1084	110	20	80	20	x	x	1.0		
SS 1085	45	50	40	145	x	x	12.5] NOT ON MAP
SS 1086	35	50	20	25	x	x	x		
SS 1087	130	100	365	630	1.5	x	15.5		
SS 1088	45	25	50	35	x	x	2.5		
SS 1089	730	40	140	130	1.0	x	7.5		
SS 1090	2800	40	40	140	0.5	x	12.5		
SS 1091	85	30	110	35	1.0	x	5.0		
SS 1092	240	50	190	260	1.5	x	7.5		
SS 1093	400	40	75	250	x	x	20		
SS 1094	35	35	55	110	x	x	23		
SS 1095	40	45	65	260	0.5	x	23		
SS 1096	50	35	60	135	0.5		6		
SS 1097	35	45	40	140	0.5		27		
SS 1098	45	35	20	90			12		
SS 1099									
SS 1100	65	20	75	200	1		6	330	1250
SS 1101	100	35	75	230	1.0		21		
SS 1102	150	40	80	225	0.5		23] ROCK CHIP
SS 1103	9	20	15	30			4		
SS 1104	3	15	15	40			5		
7105 SS 1105		15	15	30			4		

DATA BASE
NUMBER
011

144012

4.

7106

7114

Sample No.	Sn	Cu	Pb	Zn	Ag	Au	As	Ba	Mn
SS 1106		20	15	35	0.5		5		
SS 1107	5	20	20	40			3		
SS 1108	4	15	10	30					
SS 1109		10	15	30			4		
SS 1110		20	10	45			2		
SS 1111		15	10	30			4		
SS 1112	3	15	10	20	0.5				
SS 1113	5	25	20	65	0.5		2		
SS 1114	4	15	10	40			1		
SS 1115	3	25	20	65			2		
SS 1116		15	15	35			2		
SS 1117		15	10	20			5		
SS 1118	7	10	10	30			4		
SS 1119	5	20	10	20					
SS 1120	4	5	10	28	1		6	280	230
SS 1121	7	20	20	55			2		
SS 1122	4	15	10	30			1		
SS 1123	3	15	15	40					
SS 1124	4	15	10	20			2		NOT ON MAP
SS 1125	3	15	10	45			4		
SS 1126	4	10	5	10					
SS 1127		15	15	25					
SS 1128	6	15	15	35					
SS 1129	5	15	10	25			1		
SS 1130		20	15	20	0.5				
SS 1131	4	15	10	30	0.5				
SS 1132	5	10	5	10			4		
SS 1133	40	15	15	15	1.0		2		
SS 1134	3	5	10	20	0.5				
SS 1135		15	15	50					
SS 1136	4	10	10	40			3		
SS 1137	x	15	15	55			5		
SS 1138	5	15	20	50			5		
SS 1139	3	15	20	55			2		
SS 1140	4	2	9	20	1		2	430	130
SS 1141	4	15	10	35			4		
SS 1142	6	10	10	30			5		
SS 1143		10	5	25			1		
SS 1144		5	5	5					

NOT ON MAP

4
2 } ROCK CHIP

012

Sample No.	Sn	Cu	Pb	Zn	Ag	Au	As	As*
PG 1	7	35	35	35	x	0.05	60	80
PG 2	x	30	35	25	x	x	105	110
PG 3	4	160	45	35	x	x	70	80
PG 4	x	85	45	80	x	x	35	55
PG 5	x	115	25	50	x	x	15	25
PG 6	x	30	65	80	x	x	90	90
PG 7	7	20	20	30	x	x	25	25
PG 8	5	25	25	30	x	x	30	25
PG 9	6	85	55	200	x	x	95	90
PG 10	4	60	30	75	x	x	30	30
PG 11	30	75	40	105	x	x	45	35
PG 12	8	55	50	445	x	x	25	25
PG 13	x	45	30	140	x	x	5	x
PG 14	6	65	30	190	x	x	25	25
PG 15	500	180	85	35	x	x	5	x
PG 16	200	435	520	20	1.0	x	200	240
PG 17	180	325	70	15	0.5	x	95	95
PG 18	160	1250	155	10	1.5	x	170	150
PG 19	140	225	635	10	x	x	390	410
PG 20	460	800	1100	35	1	0.05	410	x
PG 21	120	420	115	20	8.0	x	65	70
PG 22	160	145	200	15	0.5	x	100	130
PG 23	15	35	110	450	x	x	40	35
PG 24	40	20	85	145	x	x	14	10
PG 25	90	30	270	1550	x	x	60	70
PG 26	10	30	240	290	x	x	x	25
PG 27	35	60	670	75	x	x	30	30
PG 28	160	115	1450	110	x	x	20	25
PG 29	60	130	170	350	x	x	95	100
PG 30	10	35	315	235	x	x	95	130
PG 31	80	50	465	125	1.0	x	50	70
PG 32	9	50	45	150	x	x	15	25
PG 33	5	30	20	55	x	x	10	4
PG 34	7	25	30	60	x	x	7	3
PG 35	3	45	20	25	x	x	15	7
PG 36	x	40	20	125	x	x	15	20
PG 37	4	65	30	145	x	x	25	15

* re-analysis

013

Sample No.	Sn	Cu	Pb	Zn	Ag	Au	As	As*
PG 38	x	50	40	85	x	x	25	30
PG 39	x	75	25	220	x	x	10	5
PG 40	4	28	30	75	1	x	10	
PG 41	x	70	95	50	x	x	25	30
PG 42	x	130	55	460	x	x	40	50
PG 43	4	50	25	70	x	x	5	x
PG 44	3	200	80	240	x	x	95	95
PG 45	x	30	130	55	x	x	14	
PG 46	x	25	105	150	x	x	46	
PG 47	35	1450	115	235	x	x	200	
PG 48	50	235	115	150	x	x	545	
PG 49	100	310	45	40	1.0	x	68	
PG 50	20	485	110	330	x	x	720	
PG 51	45	335	115	90	x	x	455	
PG 52	60	185	170	140	0.5	x	72	
PG 53	100	165	5150	200	4.5	x	59	
PG 54	65	195	140	25	0.5	x	7	
PG 55	620	1500	2550	160	10.0	x	20	
PG 56	390	220	145	450	1.0	x	20	
PG 57	90	110	195	130	x	x	88	
PG 58	20	45	240	255	x	x	13	
PG 59	5	55	130	170	x	x	72	
PG 60	4	22	140	180	1	0.05	6	
PG 61	180	95	300	295	x	x	50	
PG 62	180	25	600	110	x	x	13	
PG 63	15	75	55	60	x	x	84	
PG 64	10	165	70	95	x	x	88	
PG 65	25	80	35	50	x	x	455	
PG 66	10	125	195	235	x	x	229	
PG 67	2700	525	160	90	x	x	133	
PG 68	320	500	210	190	x	x	54	
PG 69	45	825	660	320	x	x	229	
PG 70	25	460	600	1100	x	x	73	
PG 71	40	270	2300	245	x	x	77	
PG 72	100	300	350	1800	x	x	114	
PG 73	65	170	130	280	x	x	10	
PG 74	25	150	125	220	x	x	7	
PG 75	110	90	240	255	1.0	x	47.8	

* re-analysis

014

144015

7.

Sample No.	Sn	Cu	Pb	Zn	Ag	Au	As	As*
PG 76	110	280	1150	195	1.0	x	25	
PG 77	140	180	115	110	1.5	x	20	
PG 78	55	35	90	135	1.0	x	13.3	
PG 79	7700	195	135	395	0.5	x	50	
PG 80	42	32	280	290	1	0.05	95	
PG 81	350	105	85	215	x	x	21.7	
PG 82	800	35	75	360	x	x	28.3	
PG 83	30	70	70	45	x	x	97.4	
PG 84	15	165	55	325	x	x	97.4	
PG 85	2800	390	4850	80	1.0	x	3043	
PG 86	110	170	2150	150	0.5	x	216	
PG 87	15	115	95	25	x	x	87.2	
PG 88	10	355	80	545	x	x	97.4	
PG 89	6	215	30	45	x	x	43.5	
PG 90	6	40	25	75	x	x	20.0	
PG 91	5	25	5	30	x	x	13.3	
PG 92	6	30	10	75	x	x	5.0	
PG 93	3	35	20	255	x	x	11.7	
PG 94	10	15	35	25	x	x	13.3	
PG 95	10	15	35	20	x	x	5.0	
PG 96	25	750	120	55	0.5	x	15	
PG 97	5	75	55	405	0.5	x	13.3	
PG 98	5	55	75	80	1.5	x	5	
PG 99	3	30	60	200	x	x	10.0	
PG 100	4	30	55	150	1	x	15	
PG 101	6	15	50	25	0.5	x	3.3	
PG 102	10	10	40	25	1.0	x	5	
PG 103	10	10	35	25	2.0	0.05	10.0	
PG 104	x	5	10	15	x	x	1.7	
PG 105	15	1600	5	950	1.0	x	28.3	
PG 106	100	980	190	590	18.5	x	43.5	
PG 107	920	310	225	700	10.5	x	3.3	
PG 108	1900	1050	3.35%	10.5%	88.0	x	1000	
PG 109	1700	1.4%	2250	5250	320	0.03	12.5%	
PG 110	25	170	180	250	6.0	x	1000	

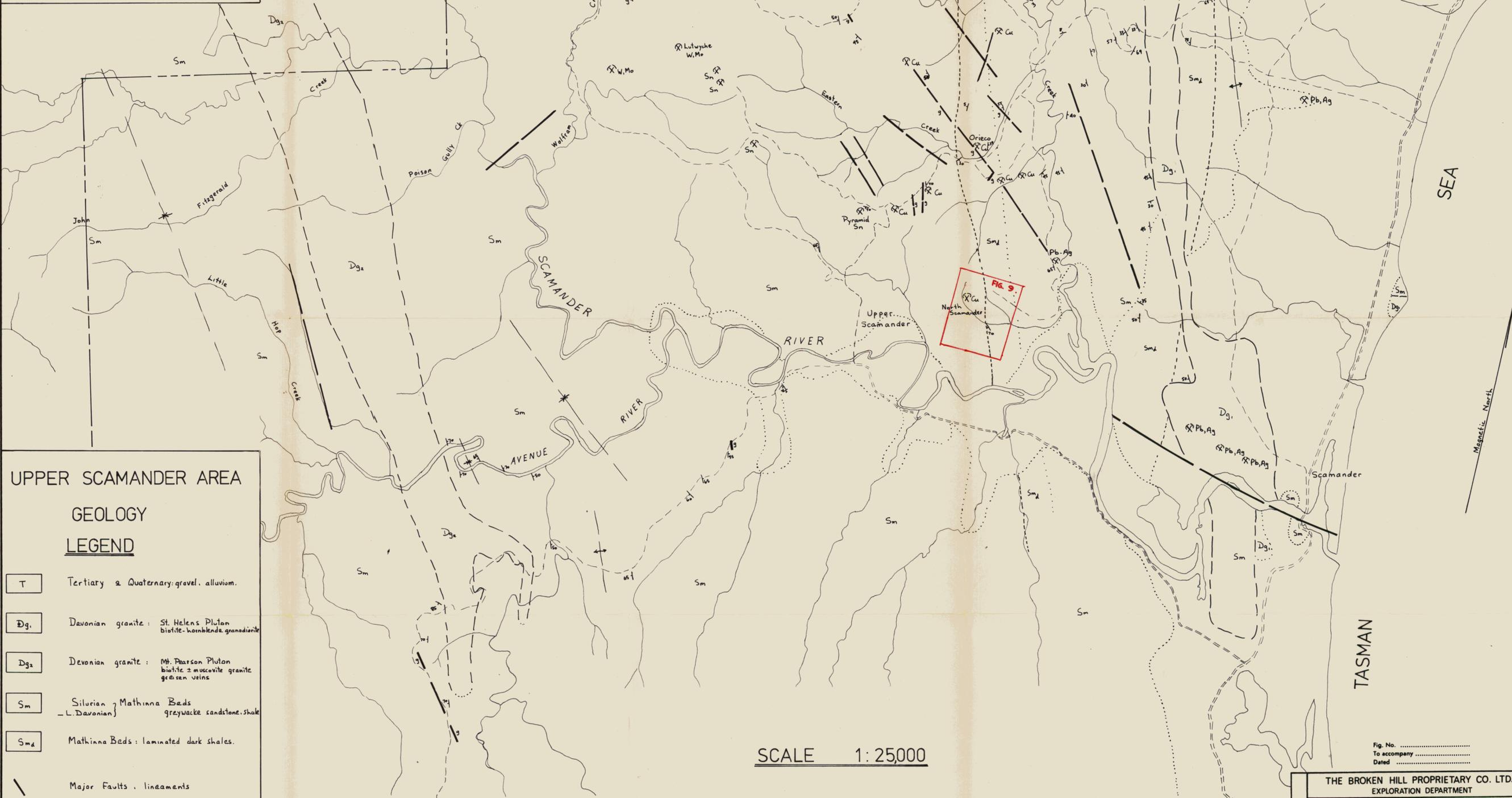
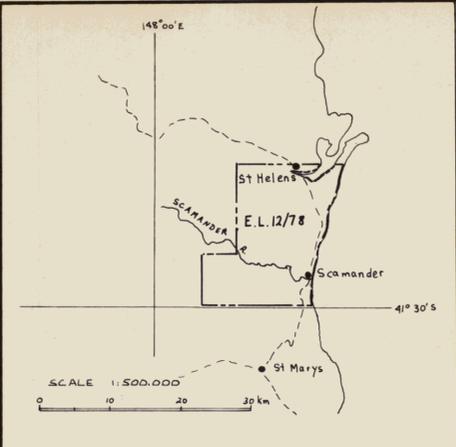
* re-analysis

015

8.

144016

Sample No.	Sn	Cu	Pb	Zn	Ag	Au	As	
SCAM 1	9	30	85	25	x	x	33	Bed sulphides ORIECO
SCAM 2	4	70	45	75	x	x	34	Loc 1 Bedded sulph.
SCAM 3	7	60	35	90	x	x	30	Loc 1 Bedded sulph.
SCAM 4	490	515	545	1250	x	x	17	North Scamander
SCAM 5	15	60	215	155	x	x	8	North Scamander
SCAM 6	190	35	310	215	x	x	7	North Scamander
SCAM 7	3350	435	1250	305	x	x	20	North Scamander
SCAM 8	690	220	720	365	x	x	53	Stream - North Scamander
SCAM 9	30	35	60	60	x	x	3	Stream - Loc 1



UPPER SCAMANDER AREA

GEOLOGY

LEGEND

T	Tertiary & Quaternary: gravel, alluvium.
Dg ₁	Devonian granite: St Helens Pluton biotite-hornblende-granodiorite
Dg ₂	Devonian granite: Mt. Pearson Pluton biotite ± muscovite granite greenish veins
Sm	Silurian Mathinna Beds - L. Devonian } greywacke sandstone, shale
Sm ₄	Mathinna Beds: laminated dark shales.
-	Major Faults, lineaments
g	Gossans
X	Mines and prospects

-geology M. Page 19-3-79, compilation R.H. 7-8-79.
base map compiled from 1:31,680 forestry maps.

SCALE 1:25,000

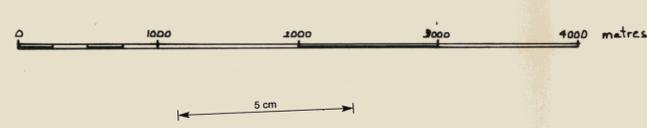


Fig. No.
To accompany
Dated

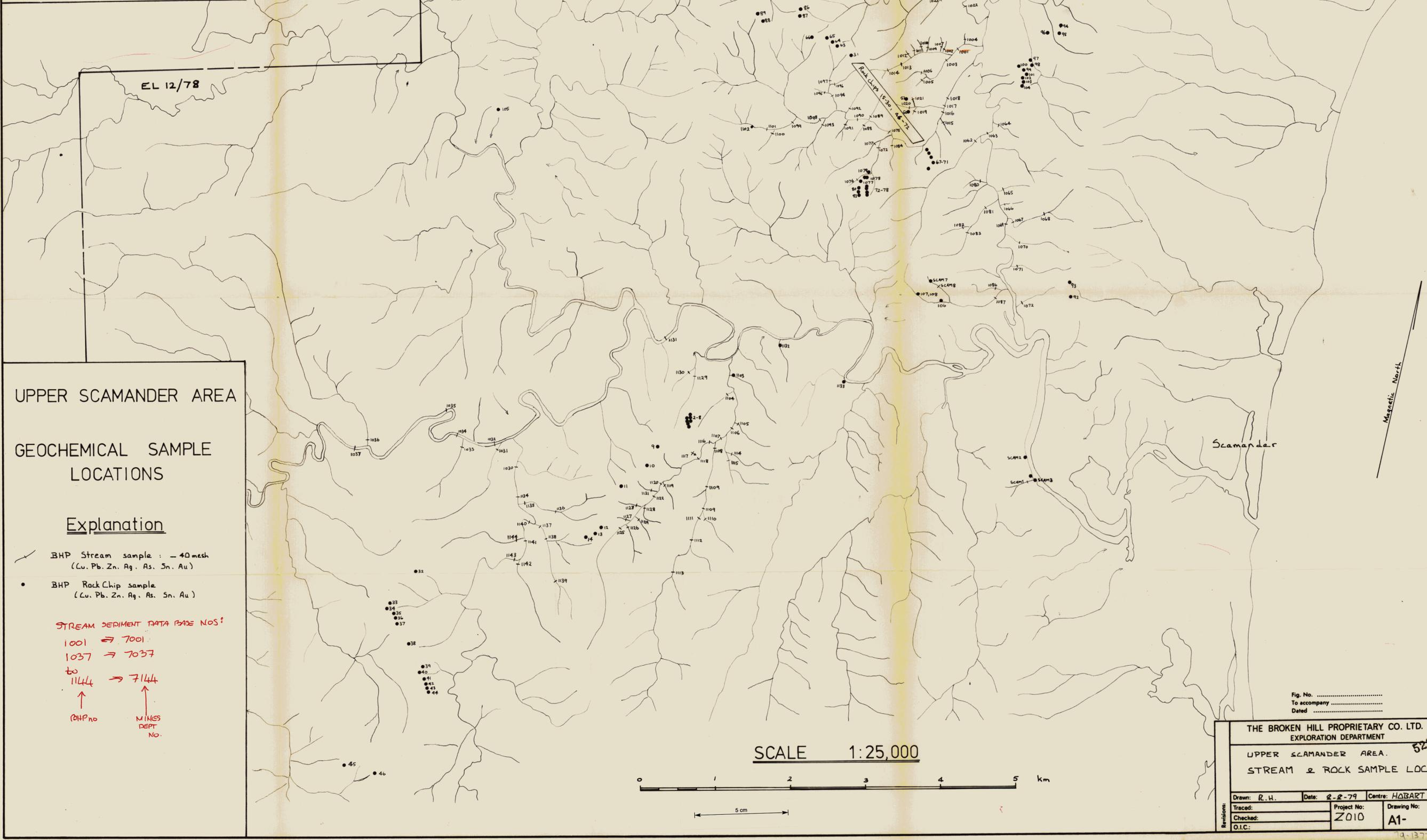
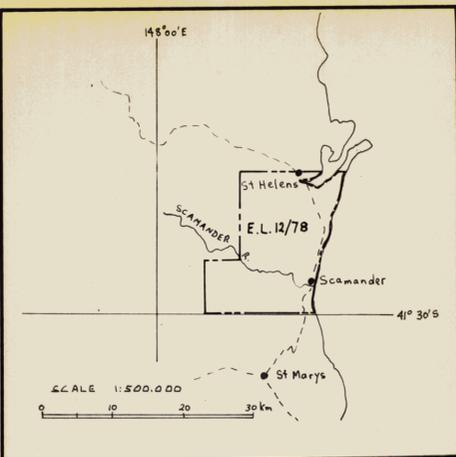
THE BROKEN HILL PROPRIETARY CO. LTD.
EXPLORATION DEPARTMENT

UPPER SCAMANDER AREA

GEOLOGY

Drawn: R.H.	Date: 8-8-79	Centre: HOBART
Traced:	Project No: 2010	Drawing No: A1-
Checked:		
O.I.C.:		

79-1377



UPPER SCAMANDER AREA
 GEOCHEMICAL SAMPLE
 LOCATIONS

Explanation

✓ BHP Stream sample : - 40 mesh
 (Cu. Pb. Zn. Ag. As. Sn. Au)

• BHP Rock Chip sample
 (Cu. Pb. Zn. Ag. As. Sn. Au)

STREAM SEDIMENT DATA BASE NOS:

1001 → 7001
 1037 → 7037
 to
 1144 → 7144

↑ BHP no ↑ MINES DEPT NO.

THE BROKEN HILL PROPRIETARY CO. LTD. EXPLORATION DEPARTMENT		
UPPER SCAMANDER AREA. 5228		
STREAM & ROCK SAMPLE LOC'NS		
Drawn: R.H.	Date: 2-2-79	Centre: HOBART
Traced:	Project No: Z10	Drawing No: A1-
Checked:		
O.I.C.:		

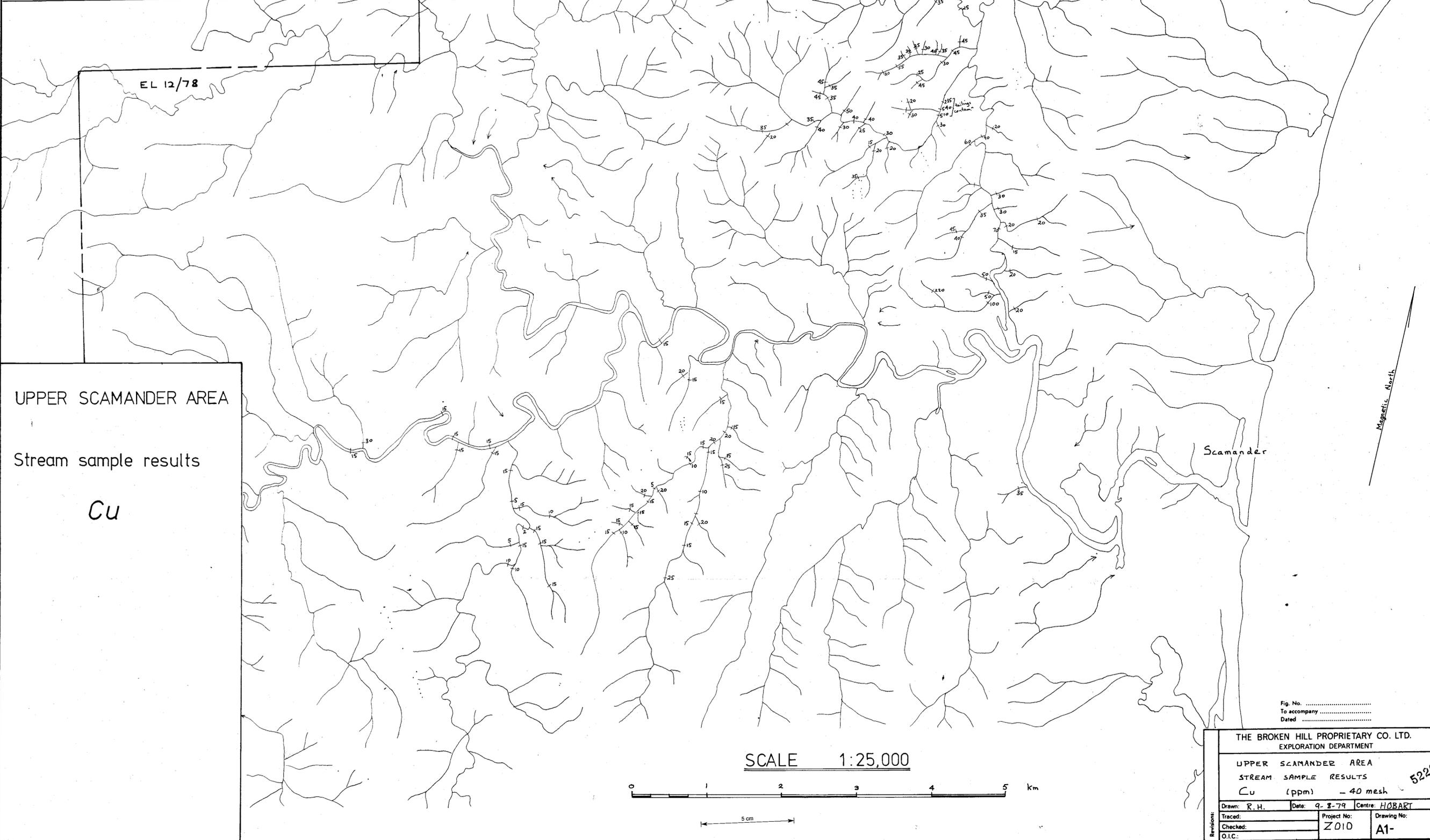
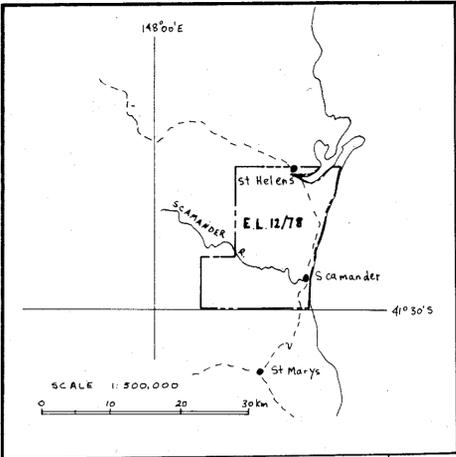
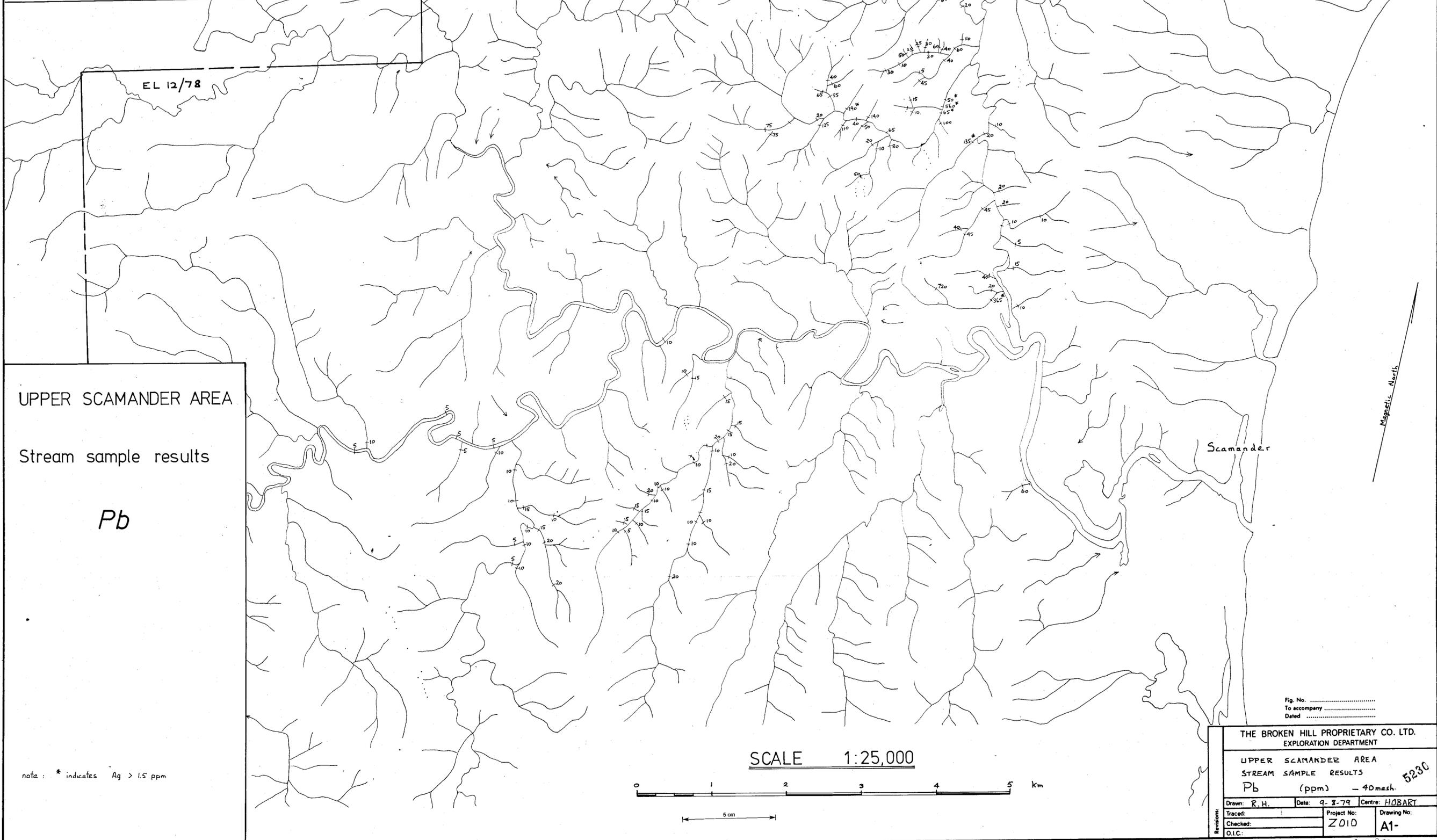
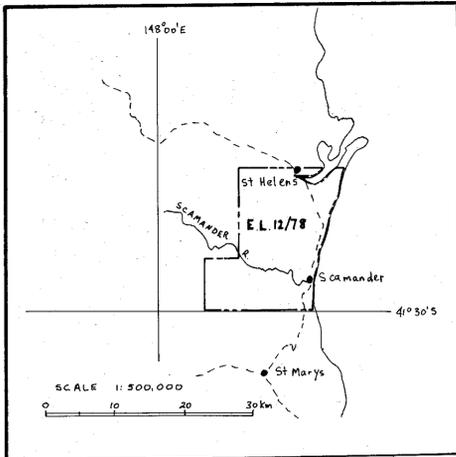


Fig. No.
To accompany
Dated

THE BROKEN HILL PROPRIETARY CO. LTD. EXPLORATION DEPARTMENT			
UPPER SCAMANDER AREA STREAM SAMPLE RESULTS			
Cu (ppm) - 40 mesh			
Drawn: R.H.	Date: 9-8-79	Centre: HOBART	5229
Traced:	Project No: Z010	Drawing No: A1-	
Checked:			
O.I.C.:			



UPPER SCAMANDER AREA
 Stream sample results
 Pb

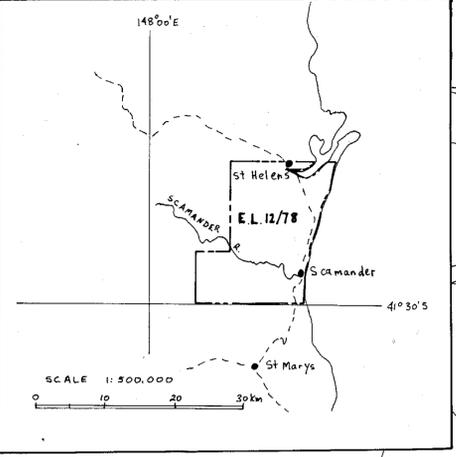
nota : * indicates Ag > 1.5 ppm

Fig. No.
 To accompany
 Dated

THE BROKEN HILL PROPRIETARY CO. LTD. EXPLORATION DEPARTMENT			
UPPER SCAMANDER AREA STREAM SAMPLE RESULTS Pb (ppm) - 40 mesh			
Drawn: R.H.	Date: 9-8-79	Centre: HOBART	
Traced:	Project No: Z010	Drawing No: A1-	
Checked:			
D.I.C.:			

5230

79-137

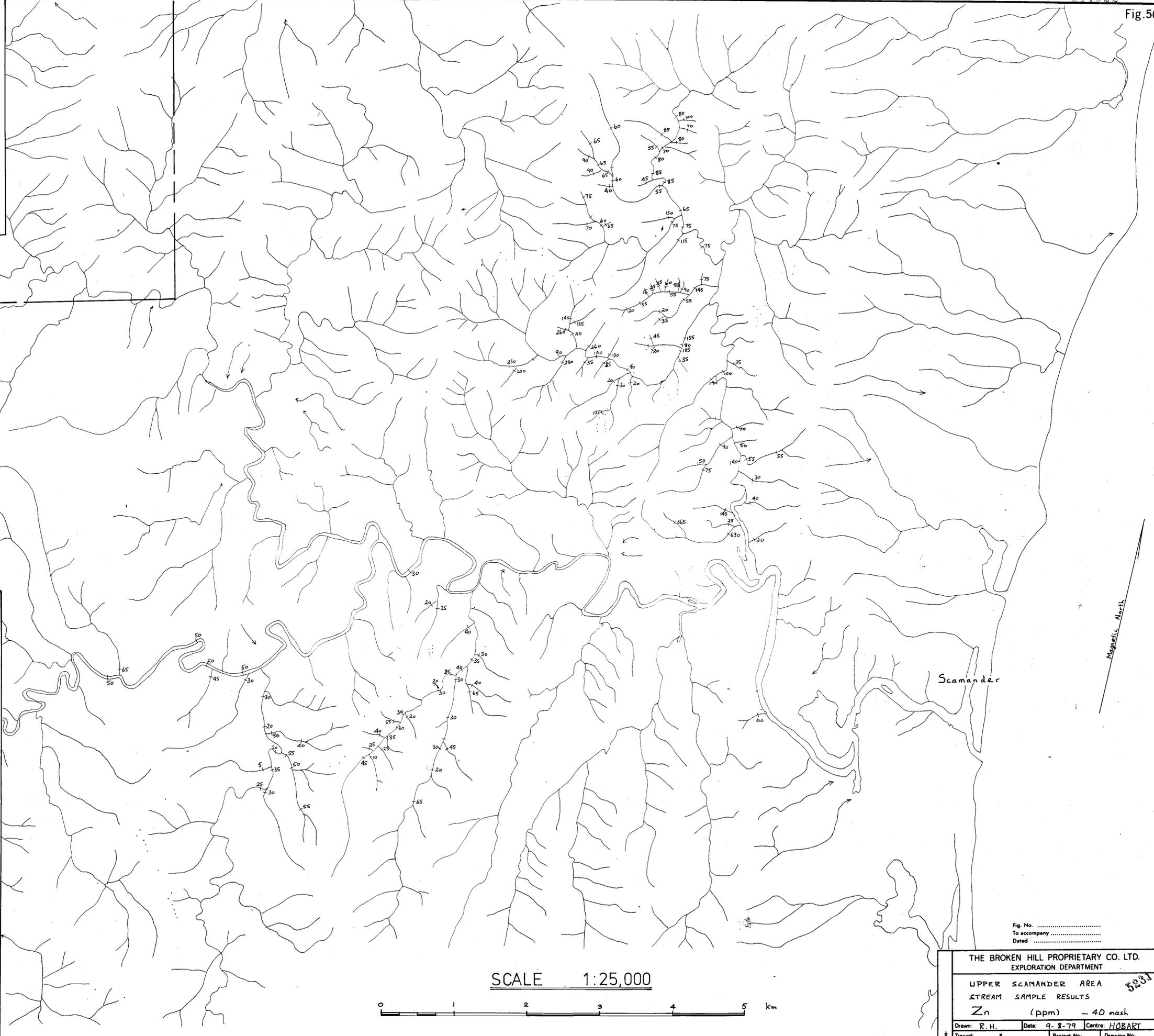


EL 12/78

UPPER SCAMANDER AREA

Stream sample results

Zn



SCALE 1:25,000

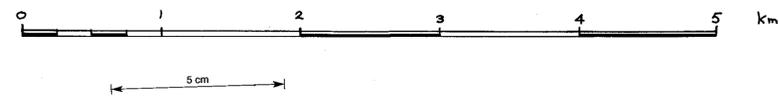


Fig. No.
 To accompany
 Dated

THE BROKEN HILL PROPRIETARY CO. LTD. EXPLORATION DEPARTMENT			
UPPER SCAMANDER AREA			
STREAM SAMPLE RESULTS			
Zn (ppm) - 40 mesh			
Drawn: R.H.	Date: 9-8-79	Centre: HOBART	
Traced: *	Project No:	Drawing No:	
Checked:	Z010	A1-	
O.I.C.:			

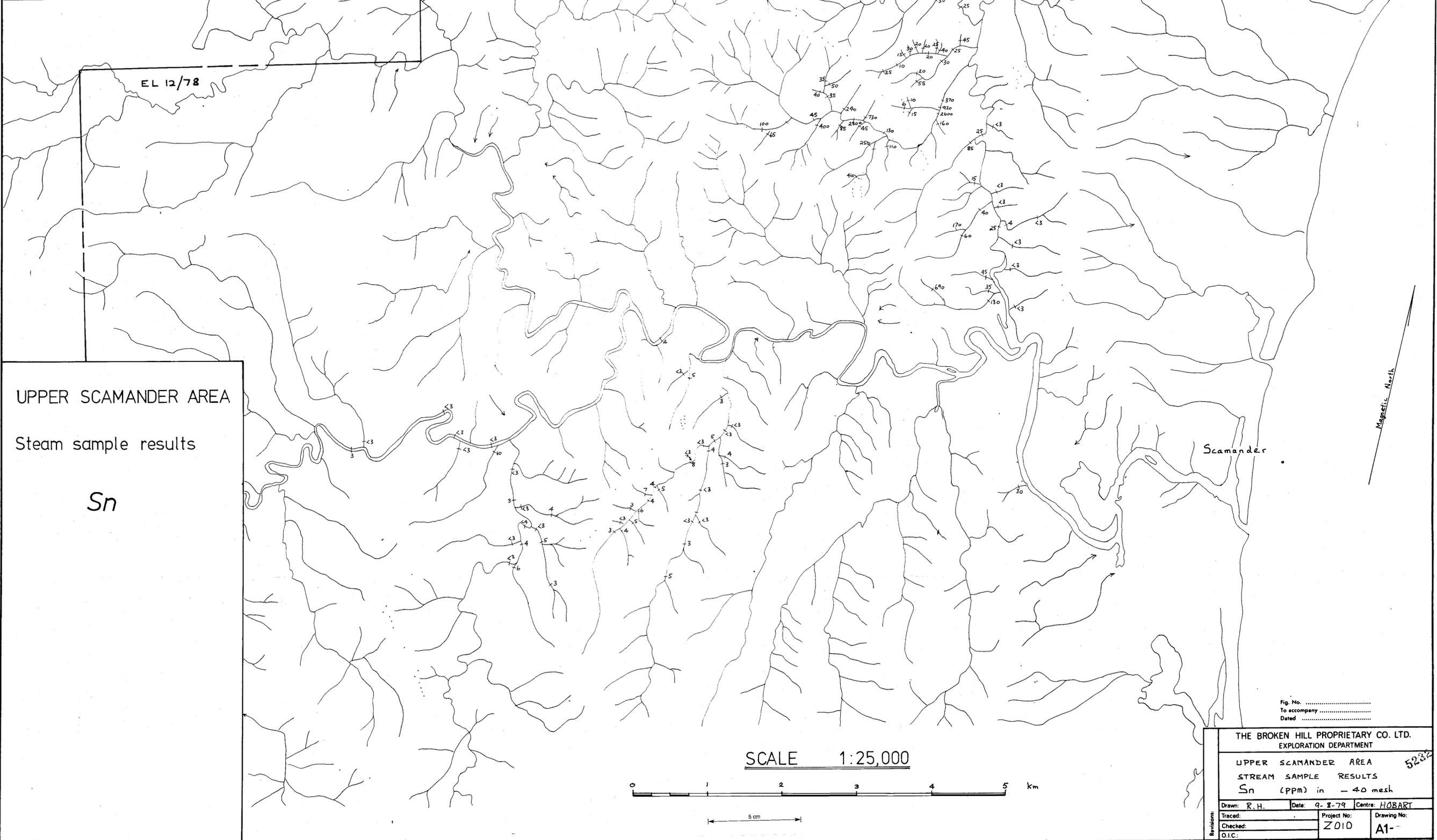
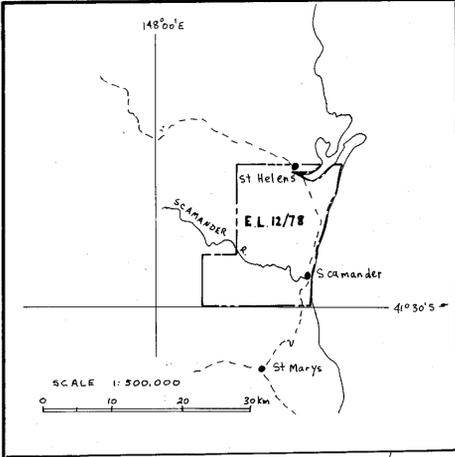
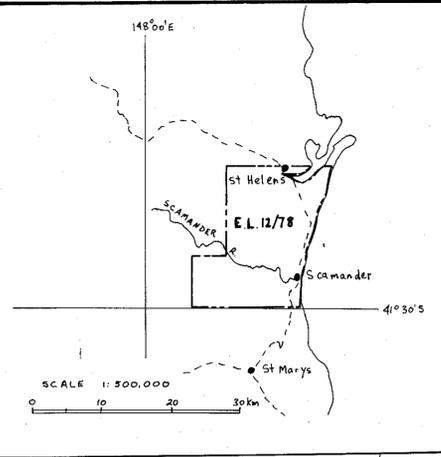


Fig. No.
To accompany
Dated

THE BROKEN HILL PROPRIETARY CO. LTD. EXPLORATION DEPARTMENT			
UPPER SCAMANDER AREA			
STREAM SAMPLE RESULTS			
Sn (ppm) in - 40 mesh			
Drawn: R.H.	Date: 9-8-79	Centre: HOBART	
Traced:	Project No: Z010	Drawing No: A1-	
Checked:			
D.I.C.:			



EL 12/78

UPPER SCAMANDER AREA
Stream sample results

As

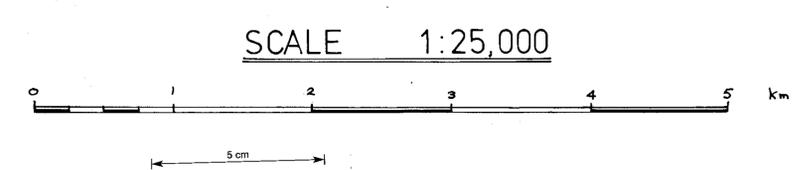
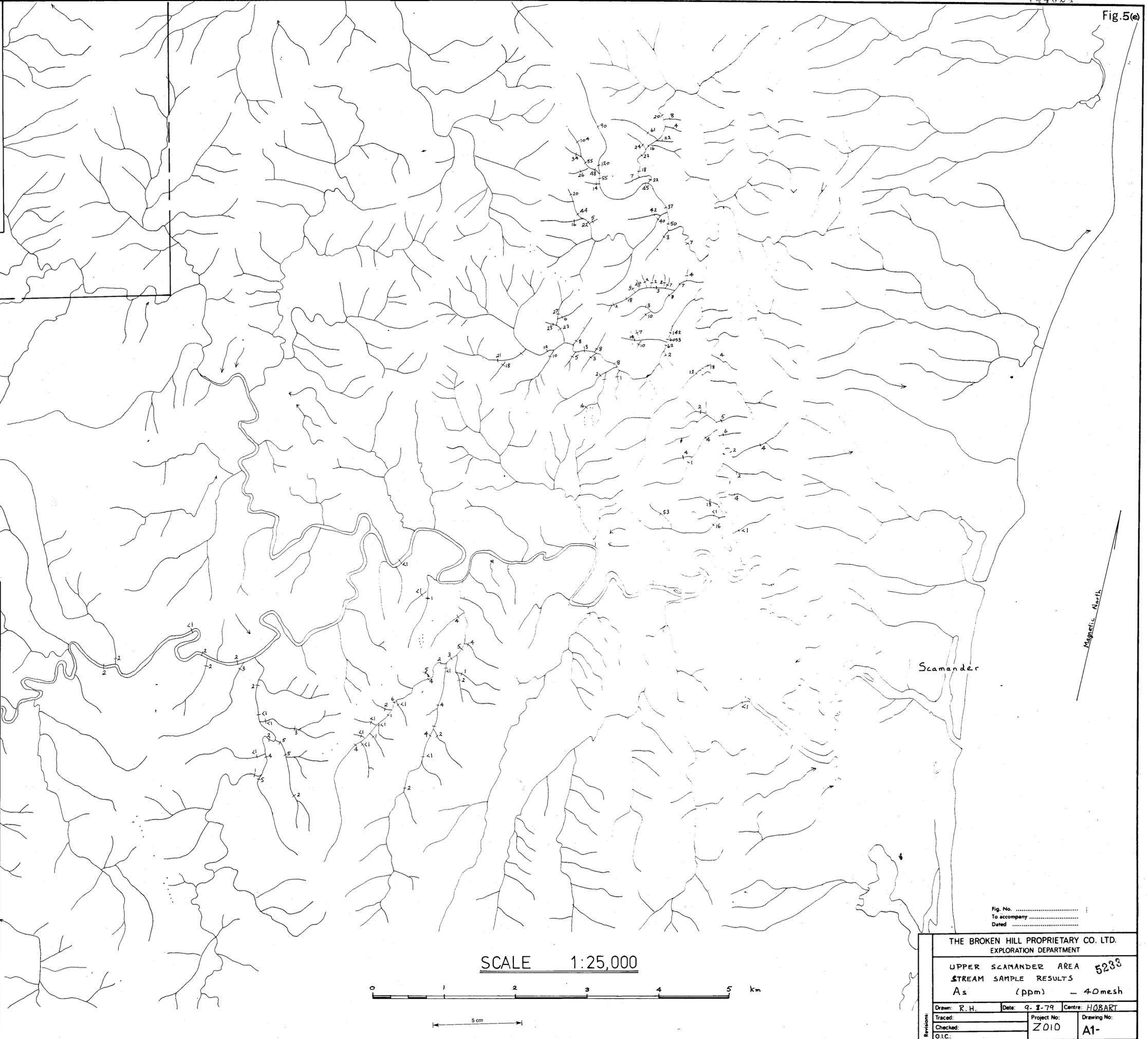
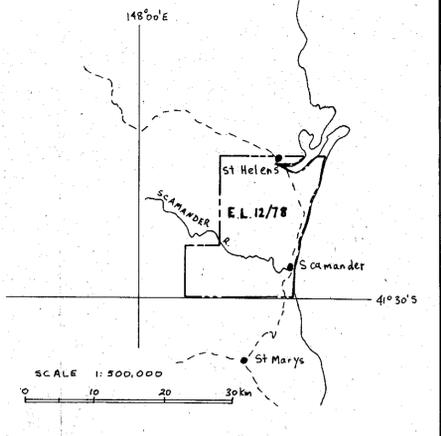


Fig. No.			
To accompany			
Dated			
THE BROKEN HILL PROPRIETARY CO. LTD. EXPLORATION DEPARTMENT			
UPPER SCAMANDER AREA		5233	
STREAM SAMPLE RESULTS			
As		(ppm) - 40 mesh	
Drawn: R.H.	Date: 9-8-79	Centre: HOBART	
Traced:	Project No:	Drawing No:	
Checked:	Z010	A1-	
O.I.C.:			



EL 12/78

UPPER SCAMANDER AREA

ROCK CHIP SAMPLE RESULTS
Cu | Pb | Zn

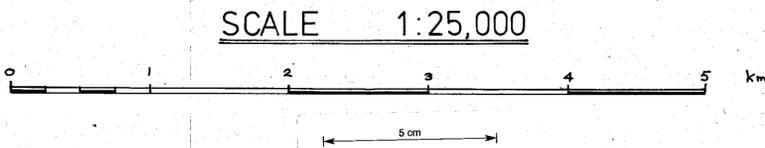
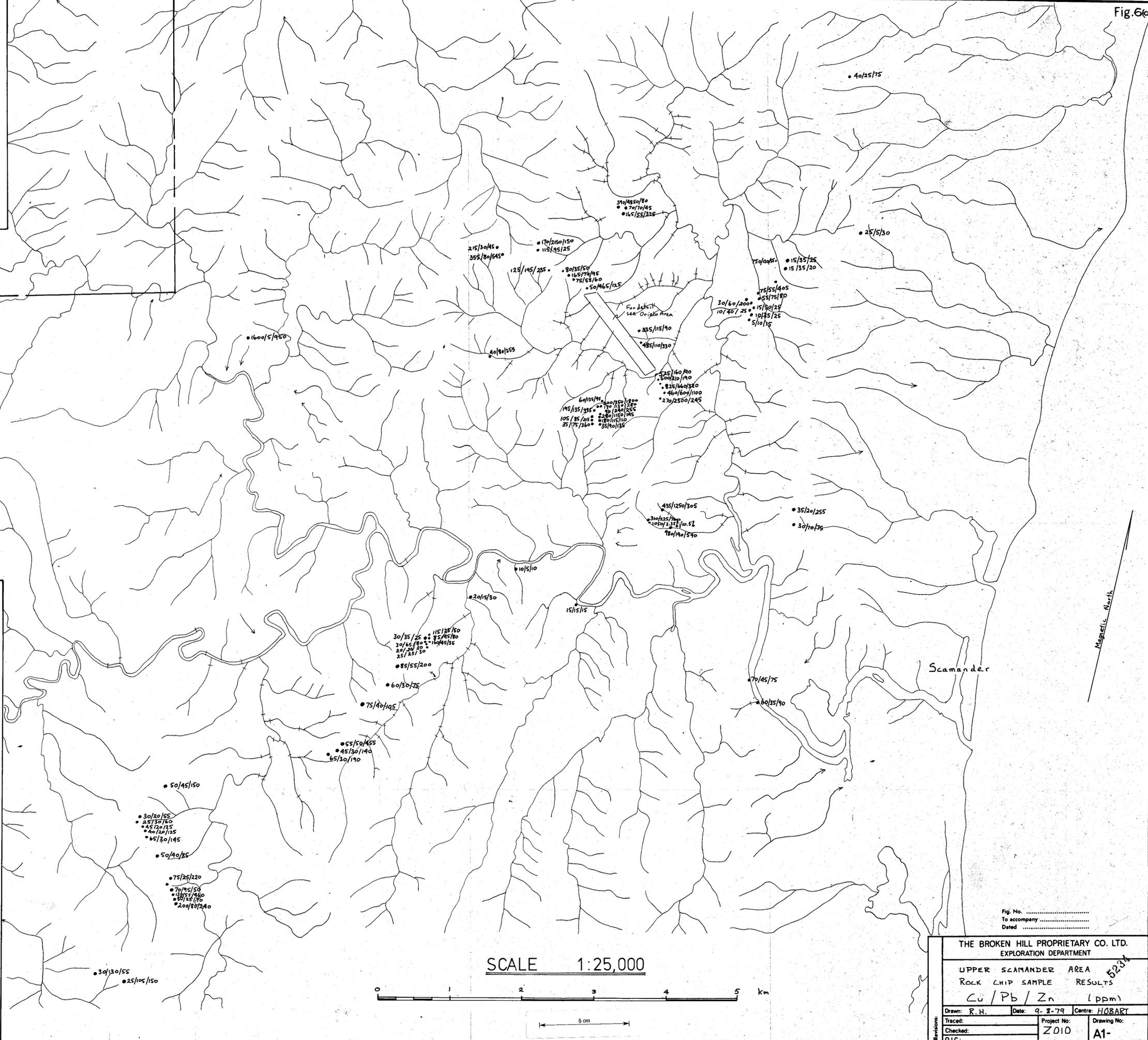
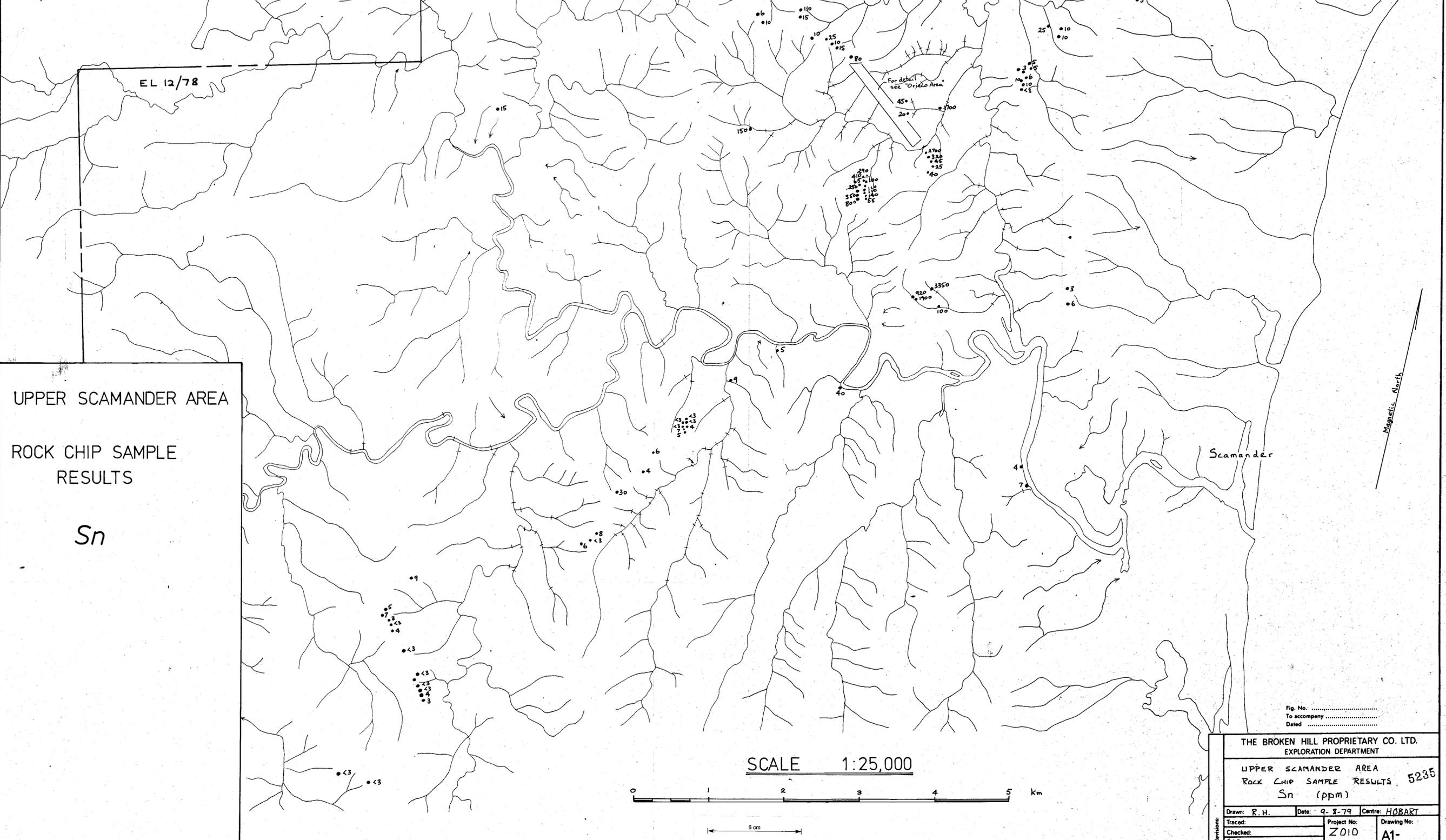
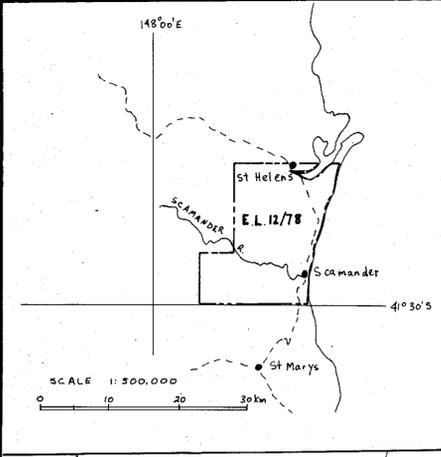
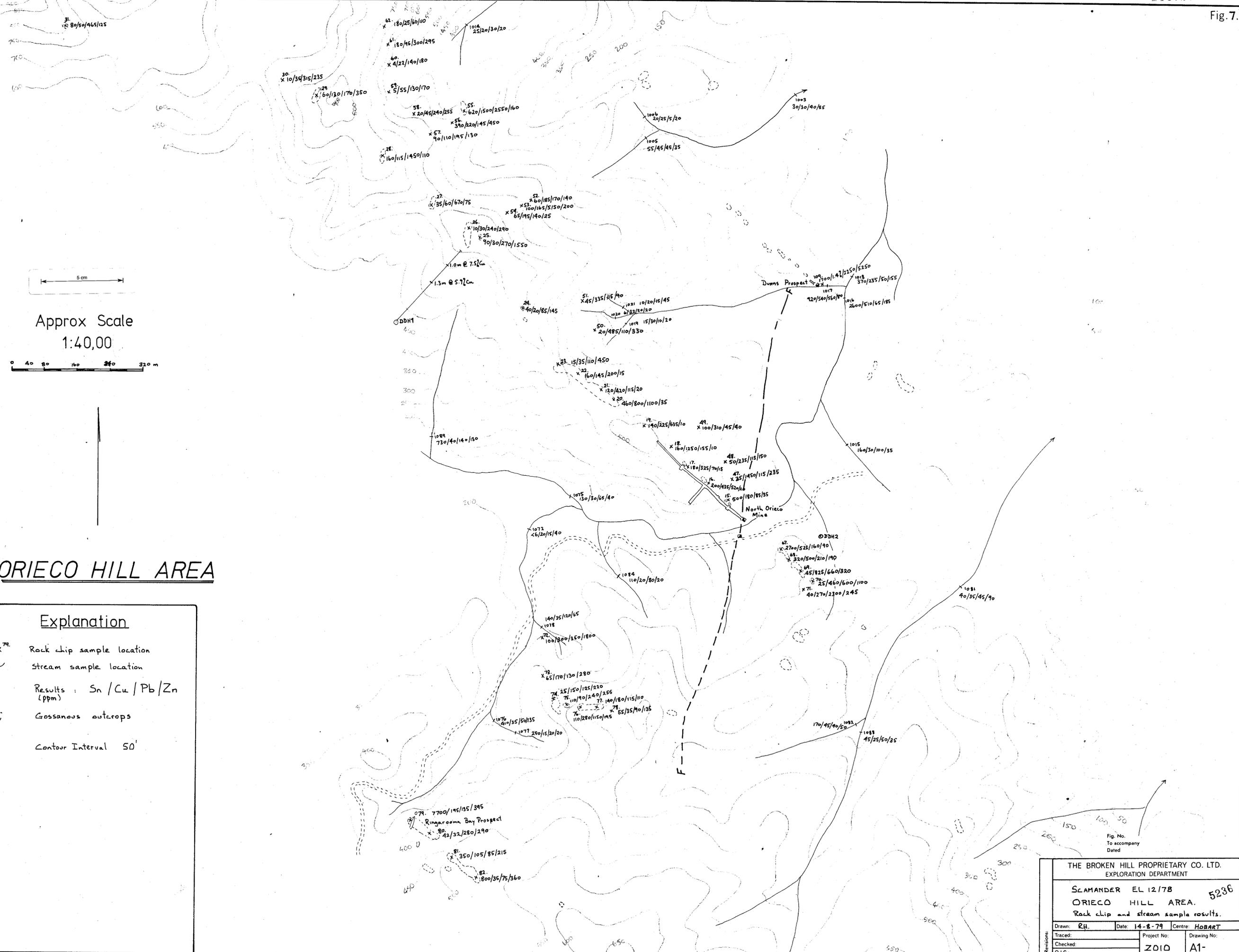


Fig. No.		
To accompany		
Dated		
THE BROKEN HILL PROPRIETARY CO. LTD. EXPLORATION DEPARTMENT			
UPPER SCAMANDER AREA			
ROCK CHIP SAMPLE RESULTS			
Cu / Pb / Zn (ppm)			
Drawn: R.H.	Date: 9-8-79	Centre: HOBART	6223
Traced:	Project No: Z010	Drawing No: A1-	
Checked:			
O.I.C.:			



UPPER SCAMANDER AREA
 ROCK CHIP SAMPLE RESULTS
 Sn

Fig No.	To accompany	Dated
THE BROKEN HILL PROPRIETARY CO. LTD. EXPLORATION DEPARTMENT		
UPPER SCAMANDER AREA ROCK CHIP SAMPLE RESULTS 5235 Sn (ppm)		
Drawn: R.H.	Date: 9-8-79	Centre: HOBART
Traced:	Project No: Z010	Drawing No: A1-
Checked:		
O.I.C.:		



5 cm

Approx Scale
1:40,000

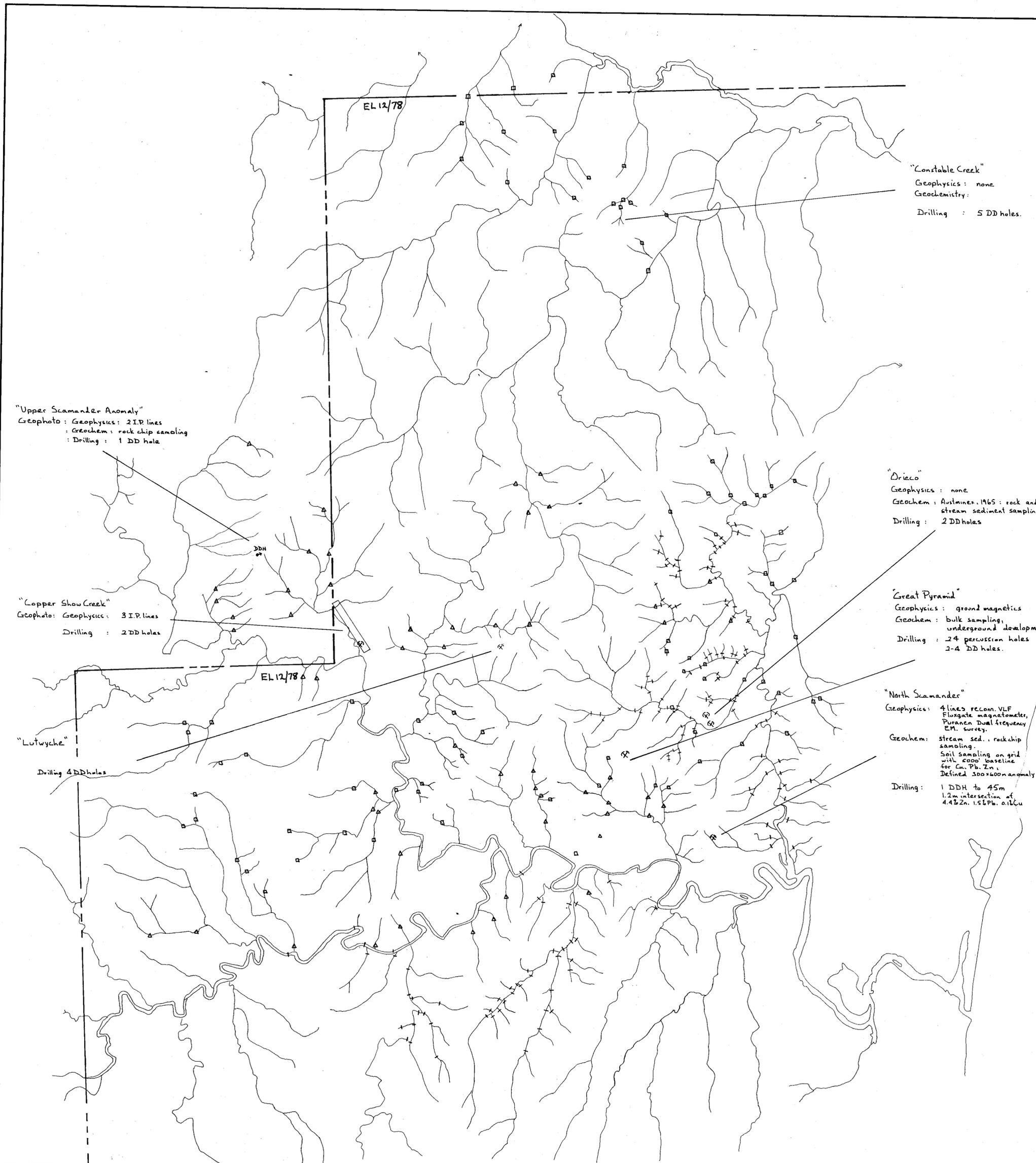
0 40 80 160 240 320 m

ORIECO HILL AREA

Explanation

- x⁷⁹ Rock chip sample location
- Stream sample location
- Results : Sn / Cu / Pb / Zn (ppm)
- Gossanous outcrops
- Contour Interval 50'

THE BROKEN HILL PROPRIETARY CO. LTD. EXPLORATION DEPARTMENT			
SCAMANDER EL 12/78		5286	
ORIECO HILL AREA. Rock chip and stream sample results.			
Drawn: RH.	Date: 14-8-79	Centre: HOBART	
Traced:	Project No:	Drawing No:	
Checked:	2010	A1-	
O.I.C.:			



"Constable Creek"
 Geophysics : none
 Geochemistry :
 Drilling : 5 DD holes.

"Upper Scamander Anomaly"
 Geophoto : Geophysics : 2 I.P. lines
 Geochem : rock chip sampling
 Drilling : 1 DD hole

"Drieco"
 Geophysics : none
 Geochem : Austminex, 1965 : rock and stream sediment sampling.
 Drilling : 2 DD holes

"Copper Show Creek"
 Geophoto : Geophysics : 3 I.P. lines
 Drilling : 2 DD holes

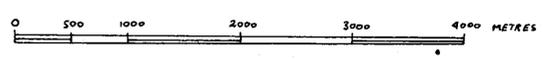
"Great Pyramid"
 Geophysics : ground magnetics
 Geochem : bulk sampling, underground development
 Drilling : 24 percussion holes 2-4 DD holes.

"Lutwyche"
 Drilling 4 DD holes

"North Scamander"
 Geophysics : 4 lines recon. VLF Fluxgate magnetometer, Puranen Dual frequency EM. survey.
 Geochem : stream sed., rock chip sampling. Soil sampling on grid with 500m baseline for Cu, Pb, Zn. Defined 300x500m anomaly
 Drilling : 1 DDH to 45m 1.2m intersection of 4.4% Zn, 1.5% Pb, 0.1% Cu

EXPLANATION

- x BHP Stream Sample Location
- Austminex Stream Sample Location
- △ Geophoto " "



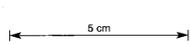
APPROX. SCALE 1 : 31,680
 (40 chains to an inch)

UPPER SCAMANDER AREA

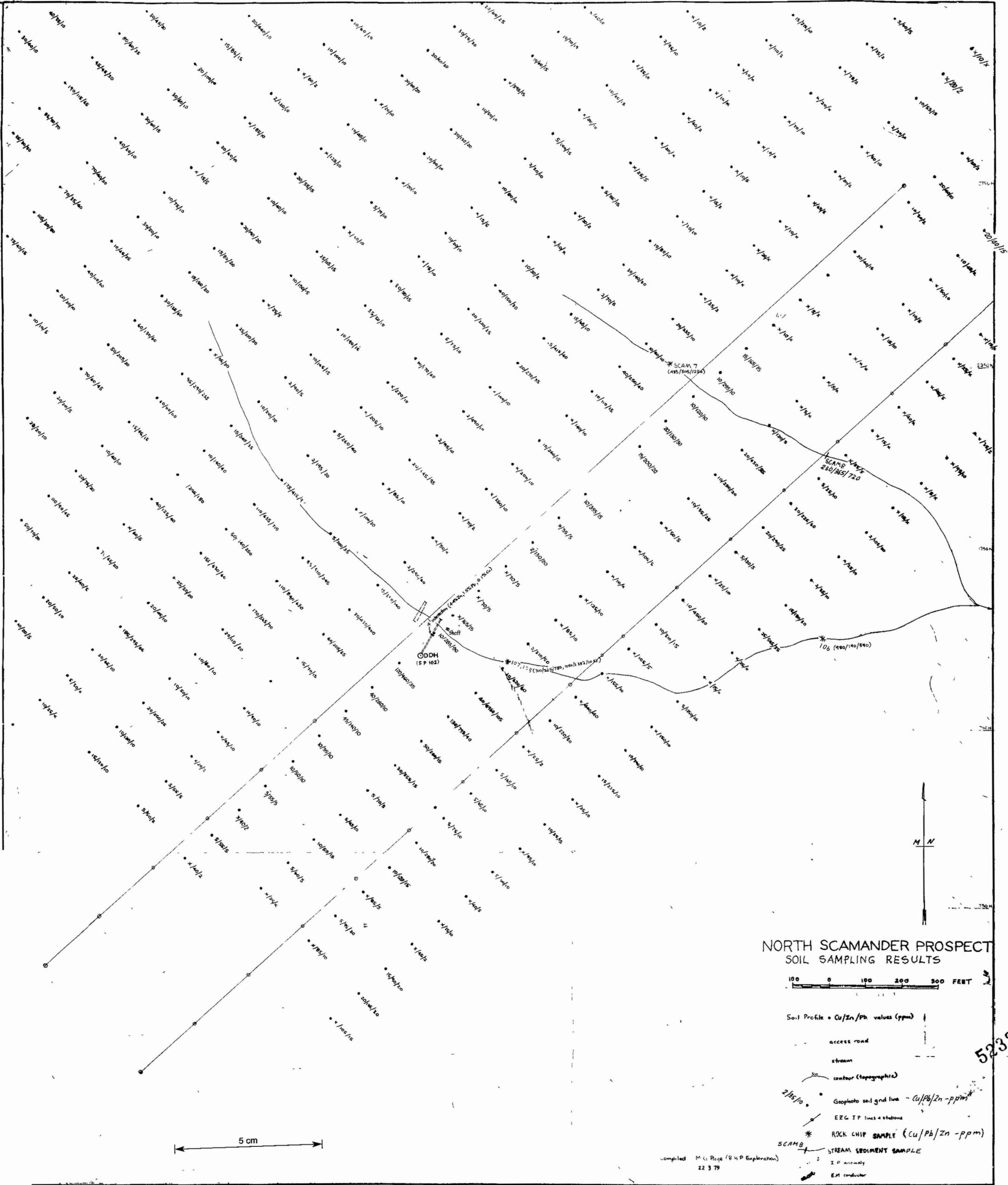
SUMMARY OF PREVIOUS EXPLORATION.

Revisions:	
Drawn:	R.H.
Traced:	
Checked:	
Date:	14.6.79
Project No.:	Z010
Centre:	HOBART
Drawing No.:	A1-
THE BROKEN HILL PROPRIETARY CO. LTD. EXPLORATION DEPARTMENT	
SCAMANDER EL 12/78	
Summary of Previous Exploration	

Fig. No. to accompany Dated



True North



NORTH SCAMANDER PROSPECT
SOIL SAMPLING RESULTS

100 0 100 200 300 FEET

- Soil Profile • Cu/Zn/Pb values (ppm)
- access road
- stream
- contour (topographic)
- Geophoto soil grid line - Cu/Pb/Zn - ppm
- E-ZG IP lines & stations
- ROCK CHIP SAMPLE (Cu/Pb/Zn - ppm)
- SCAMB
- STREAM SEDIMENT SAMPLE
- IP anomaly
- EM conductor

Compiled M. G. Peltje (RHP Exploration)
22 3 79

5238