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GEOPHOTO MINERALS REPORT 1970/83

MEMORANDUM REPORT ON GEOCHEMICAL SAMPLING IN
THE COPPER SHOW CREEK PROSPECT, E.L. 6/68,
N.E. TASMANIA

by

I.R. MORTIMORE

TEXINS DEVELOPMENT PTY. LTD.

INTRODUCTION

The Copper Show Creek Prospect lies approximately a mile to the south-east of the Upper Scamander Copper Anomaly, close to the confluence of Copper Show Creek with the Scamander River.

Lithologically, the area is very similar to the U.S. Copper Anomaly with a sequence of quartzites, siltstones and spotted slates of the Mathinna Group striking 338° and vertically bedded. Jointing is well developed, prominent joint sets striking either parallel to or obliquely across (236°) the bedding planes. These are respectively vertical and dipping 61° northwards. A third set striking 19° with a dip 18° to the east is developed to a less extent in the quartzites.

The workings comprise an adit driven in a north-easterly direction into a NNW-SSE trending ridge from just above the creek level, and a shaft approximately 100 feet up slope from the portal of the adit. The shaft is water filled. Prospecting trenches have been excavated close to the shaft and to the north.

The workings have been opened on quartz veins filling fractures within slates. The veins vary in size but rarely exceed 3 feet in thickness. The main vein strikes 08° and carries arsenopyrite and pyrite with minor chalcopyrite. The slates show evidence of minor shearing and in places within the workings are stained a pale green colour due to leaching of the vein material.

Quartz veining is developed throughout the area cutting across the joint patterns, generally in a NNE direction. Small veins to the north of the workings, within the quartzites, appear to be void of mineralisation although some veins are extensively iron stained. Vugs within the quartzites occasionally carry sulphide mineralisation.

To the north-east at the top of the ridge, a prominent quartz vein is seen to strike in the general NNE direction, although displaced towards the east. Here it is void of mineralisation but as traced further north, it is seen to carry varying amounts of arsenopyrite, pyrite, galena and minor chalcopyrite.

GEOCHEMICAL SAMPLING

Three parallel surveyed lines were cut to the east of the workings. These were 2,400 feet long on a bearing of 340° and separated 200 feet.

Soil samples ("B" horizon) were taken at 100 feet intervals and these analysed for copper, lead, zinc and silver.

A wide zone of values ranging between 25 p.p.m. and 100 p.p.m. copper was evident from the results, while a plot of values exceeding 100 p.p.m. copper clearly illustrated the NNE trend of the mineralisation, to the north of the workings.

The lead and zinc assays confirmed this trend. A limited number of rock samples were taken and analysed for copper, lead, zinc, silver and arsenic.

Samples A300 to A302 are representative of the vein material from the workings. These assayed up to 1.52% copper, 40% arsenic and 460 ppm lead, averaging at 0.54% copper, 25% arsenic and 200 ppm lead.

Samples of iron stained quartzitic rock carrying trace sulphide mineralisation, (CR7 to CR10 taken around soil sample points CS35 and CS36), assayed up to 0.45% lead, 565 ppm copper, 490 ppm zinc and 0.18% arsenic.

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Vein material recovered to the north over the crest of the ridge (CR1 to CR7) assayed up to 6.8% lead, 0.29% zinc, 105 ppm silver and 35.0% arsenic, averaging out at 1.59% lead, 785 ppm zinc, 32 ppm silver and 6.4% arsenic.

Sampling of stream sediment from creeks and gullies in the vicinity of the workings (approximately 1 mile radius) with subsequent geochemical analysis, failed to delineate further anomalous areas. Slightly higher values were recorded from gullies draining the ridge, at the foot of which the workings are located, but these were not of the order to warrant further work.

CONCLUSION

Although the geochemical program substantiated the existence of an anomalous zone of mineralisation, it also supported ground observations that the mineralisation is of the narrow fissure lode type (common within the Scamander Mineral District) as opposed to a large disseminated body. The grade of mineralisation is generally low with the width of the lode rarely exceeding 3 feet, although there appeared to be a limited amount of sulphide replacement within the quartzites. The overall low grade and low potential tonnage expected does not present a major target for further exploration.

It is interesting to note that as the mineralisation is traced northwards towards the "tin" granites, lead/zinc mineralisation is more obvious replacing the copper mineralisation. This appears to be a reversal of the zoning phenomena commonly associated with "tin" granites. It may suggest the mineralisation in this area is associated with an igneous body lying to the south-west rather than the "tin" granites to the north.

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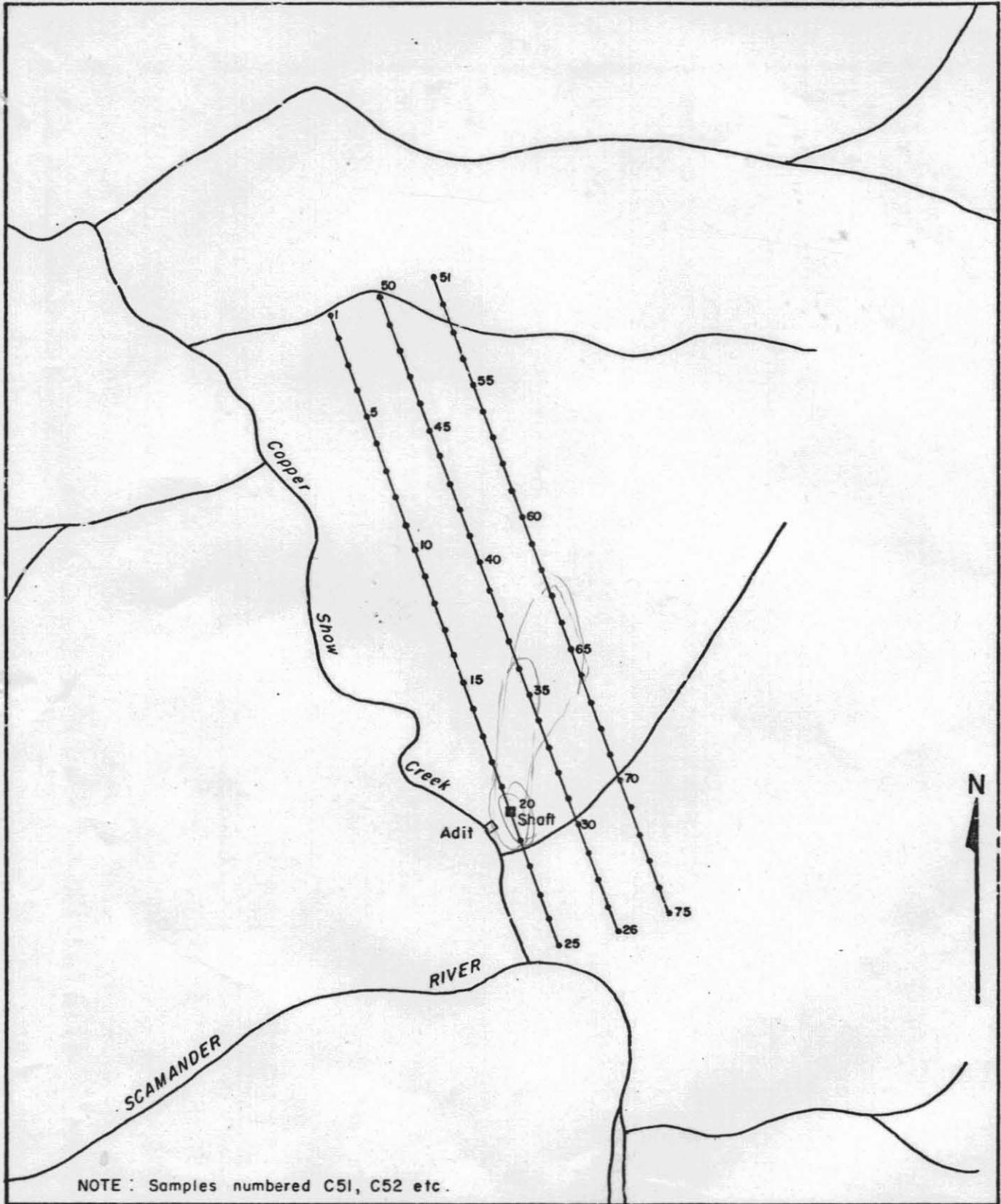
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Although no further work is anticipated for this area at the present time, a later evaluation of the prospect may be appropriate when the results of the proposed drilling at the Upper Scamander Copper Anomaly are at hand. The two areas are lithologically closely related.

I.R. MORTIMORE,
December, 1970.

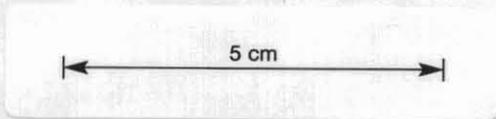
Appendix:

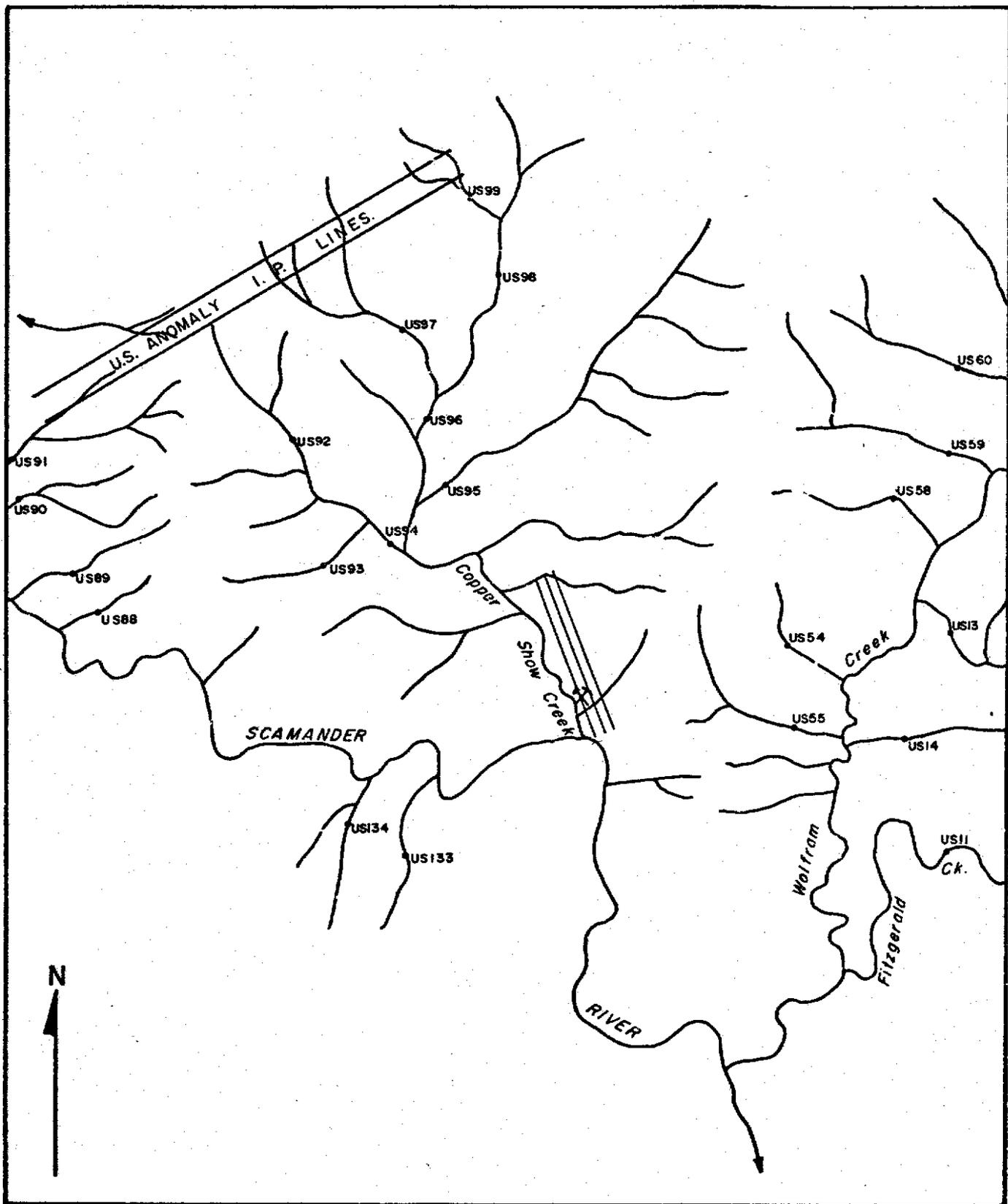
1. Map - Surveyed Line showing Cu/Pb anomalies,
2. Map - Stream Geochem. Sample Points, *SEE 74995*
3. Lab Sheets 291/1, 292/2.
468/6, 468/7, 468/8, 468/9, 494/1.
106/2.



TEXINS DEVELOPMENT PTY. LTD.
E.L 6/68 NORTH EAST TASMANIA
COPPER SHOW CREEK GRID

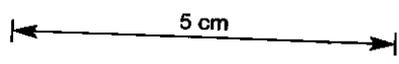
SCALE : 1 inch = 500 feet (approx).





TEXINS DEVELOPMENT PTY. LTD.
 E.L. 6/68 NORTH EAST TASMANIA
 COPPER SHOW CREEK AREA
 SAMPLE LOCATION MAP

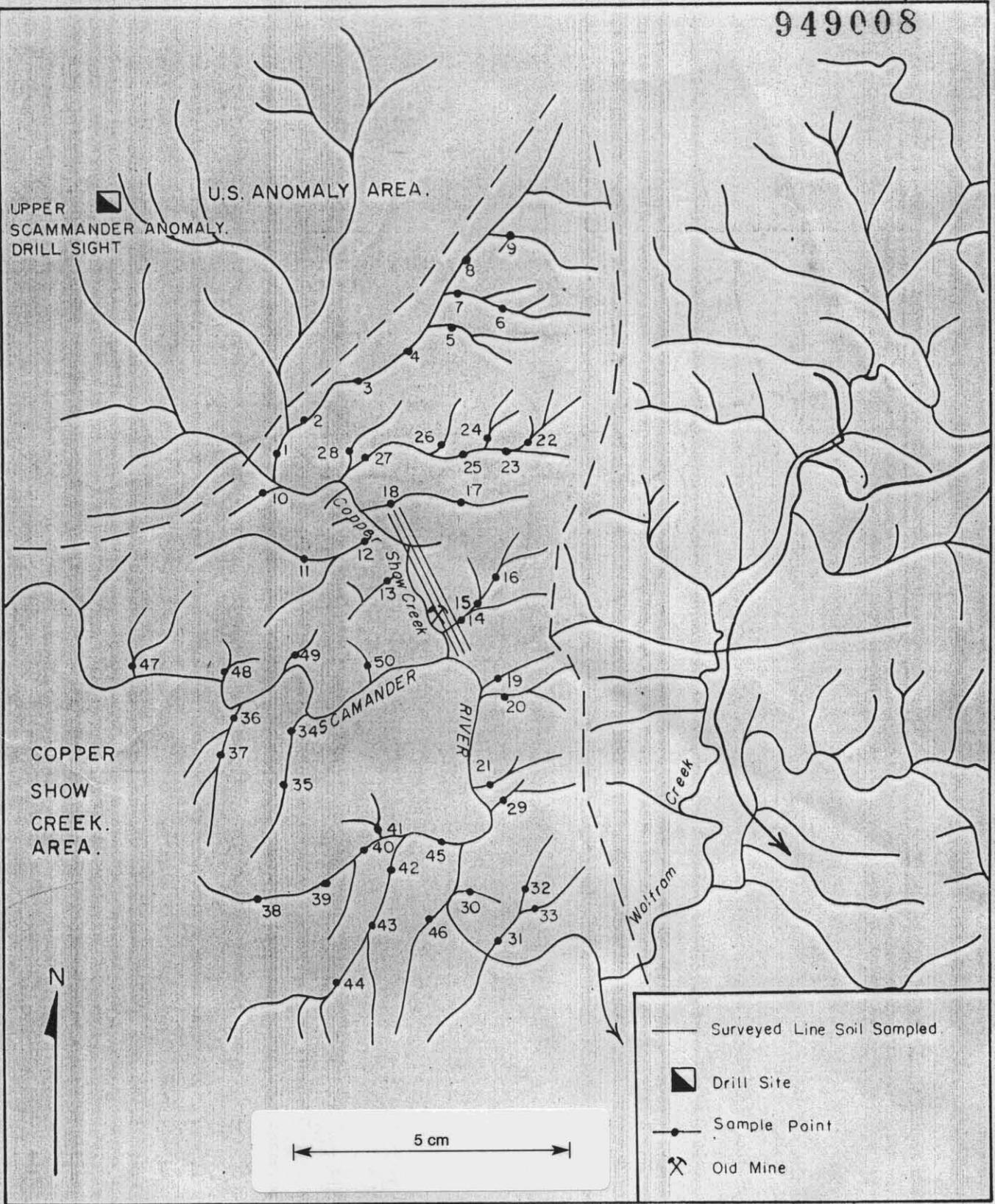
SCALE : 1 : 25,000



UPPER SCAMMANDER ANOMALY. DRILL SIGHT

U.S. ANOMALY AREA.

COPPER SHOW CREEK AREA.



TEXINS DEVELOPMENT PTY LTD
 EL 6/68 NORTH EAST TASMANIA
 COPPER SHOW CREEK AREA.
 STREAM SAMPLING POINTS.

SCALE : 1:25000

DRAWING N° 1/142

FROM Report 740915.

For data base numbers, add 8000; e.g. 36 is 8036

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 001394 PROJECT No.: E.L. 6.68 Copper Show Creek 949009

LAB. SHEET No.: 292/1 SAMPLE TYPE: Soil Profile DATE: 2nd June, 1970

SAMPLE No.	LAB. No.	Cu ppm.	Pb ppm.	Zn ppm.	Ag ppm.			
5								
CS1	70-E-1812	15	35	60	1			
CS2	70-E-1813	15	40	60	1			
CS3	70-E-1814	20	50	75	1			
CS4	70-E-1815	35	55	70	1			
CS5	70-E-1816	20	50	100	1			
CS6	70-E-1817	25	40	70	1			
CS7	70-E-1818	30	35	70	1			
CS8	70-E-1819	45	50	75	1			
CS9	70-E-1820	10	30	30	1			
CS10	70-E-1821	5	25	35	1			
CS11	70-E-1822	30	50	90	1			
CS12	70-E-1823	30	60	100	1			
CS13	70-E-1824	30	55	95	1			
CS14	70-E-1825	35	100	100	1			
CS15	70-E-1826	75	225	170	2			
CS16	70-E-1827	35	100	115	1			
CS17	70-E-1828	40	65	115	1			
CS18	70-E-1829	55	85	130	1			
CS19	70-E-1830	80	185	205	1			
CS20	70-E-1831	495	700	440	3			
CS21	70-E-1832	75	75	300	1			
CS22	70-E-1833	20	70	150	1			
CS23	70-E-1834	10	25	50	1			
CS24	70-E-1835	2	20	50	1			
CS25	70-E-1836	10	30	50	1			
CS26	70-E-1837	5	25	50	1			
CS27	70-E-1838	10	30	50	1			
CS28	70-E-1839	15	35	75	1			
CS29	70-E-1840	10	90	90	1			
CS30	70-E-1841	20	80	135	1			
CS31	70-E-1842	60	65	130	1			
CS32	70-E-1843	30	50	125	1			
CS33	70-E-1844	50	100	140	1			
CS34	70-E-1845	25	70	90	1			
CS35	70-E-1846	105	505	225	2			
CS36	70-E-1847	90	380	220	2			
CS37	70-E-1848	50	85	120	2			
CS38	70-E-1849	50	60	95	1			
CS39	70-E-1850	110	50	90	1			
CS40	70-E-1851	25	30	45	1			
CS41	70-E-1852	40	30	55	1			
CS42	70-E-1853	25	65	50	1			
CS43	70-E-1854	60	35	70	1			
CS44	70-E-1855	100	40	95	1			
CS45	70-E-1856	130	80	190	1			
CS46	70-E-1857	20	60	45	1			

METHODS: Cu, Pb, Zn, Ag, 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.

Chief Chemist

Ray W. Zerkow

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 001394/1395 PROJECT No. E.L. 6.68 Copper Show Creek 949010

LAB. SHEET No. 292/2 SAMPLE TYPE: Soil Profile DATE: 2nd June, 1970

SAMPLE No.	LAB. No.	Cu ppm.	Pb ppm.	Zn ppm.	Ag ppm.				
CS47	70-E-1858	30	65	140	2				
CS48	70-E-1859	20	50	75	1				
CS49	70-E-1860	20	45	80	1				
CS50	70-E-1861	20	60	75	1				
CS51	70-E-1862	15	30	51	1				
CS52	70-E-1863	10	20	70	1				
CS53	70-E-1864	10	35	55	1				
CS54	70-E-1865	10	30	60	1				
CS55	70-E-1866	5	20	30	1				
CS56	70-E-1867	15	25	50	1				
CS57	70-E-1868	15	25	35	1				
CS58	70-E-1869	10	30	30	1				
CS59	70-E-1870	10	30	30	1				
CS60	70-E-1871	10	30	30	1				
CS61	70-E-1872	15	70	25	1				
CS62	70-E-1873	35	40	35	1				
CS63	70-E-1874	45	110	55	1				
CS64	70-E-1875	70	155	155	2				
CS65	70-E-1876	50	130	290	1				
CS66	70-E-1877	65	205	300	2				
CS67	70-E-1878	20	50	80	1				
CS68	70-E-1879	10	50	40	1				
CS69	70-E-1880	10	35	30	1				
CS70	70-E-1881	30	70	150	1				
CS71	70-E-1882	10	40	40	1				
CS72	70-E-1883	10	30	35	1				
CS73	70-E-1884	5	25	15	1				
CS74	70-E-1885	10	30	15	1				
CS75	70-E-1886	5	30	10	1				

METHODS: Cu, Pb, Zn, Ag, by GRC No.1



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Chief Chemist *Ray W. Gierke*

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GEOCHEMICAL LABORATORY REPORT 949011

FIELD SHEET No.: 001427 PROJECT No.: EL. 6/68 TEXINS/COPPER SHOW CREEK AREA

LAB. SHEET No.: 468/6 SAMPLE TYPE: STREAM SED. DATE: 6th November, 1970.

DATA BASE NO

SAMPLE No.	LAB. No.	Mo ppm	Bi ppm	W ppm	Sn %			
C 1	8001	70-K-2174	15	10	BLD	BLD		
C 2	8002	70-K-2175	10	BLD	BLD	BLD		
C 3	3	70-K-2176	10	BLD	BLD	BLD		
C 4	4	70-K-2177	15	5	BLD	BLD		
C 5	5	70-K-2178	10	BLD	BLD	BLD		
C 6	6	70-K-2179	10	BLD	BLD	BLD		
C 7	7	70-K-2180	BLD	BLD	BLD	BLD		
C 8	8	70-K-2181	10	BLD	BLD	BLD		
C 9	9	70-K-2182	10	BLD	BLD	BLD		
C 10	8010	70-K-2183	10	BLD	BLD	BLD		
C 11		70-K-2184	10	BLD	BLD	BLD		
C 12		70-K-2185	15	BLD	BLD	0.10%		
C 13		70-K-2186	15	5	BLD	BLD		
C 14		70-K-2187	25	10	BLD	BLD		
C 15		70-K-2188	20	10	BLD	BLD		
C 16		70-K-2189	20	5	BLD	BLD		
C 17		70-K-2190	15	5	BLD	BLD		
C 18		70-K-2191	15	5	BLD	0.05%		
C 19		70-K-2192	20	5	BLD	BLD		
C 20	8020	70-K-2193	20	5	BLD	BLD		
C 21		70-K-2194	10	BLD	BLD	BLD		
C 22		70-K-2195	10	BLD	BLD	BLD		
C 23		70-K-2196	10	BLD	BLD	BLD		
C 24		70-K-2197	15	10	BLD	BLD		
C 25		70-K-2198	20	10	BLD	BLD		
C 26		70-K-2199	15	5	BLD	BLD		
C 27		70-K-2200	20	10	BLD	BLD		
C 28		70-K-2201	15	5	BLD	BLD		
C 29		70-K-2202	25	5	BLD	BLD		
C 30	8030	70-K-2203	10	BLD	BLD	BLD		
C 31		70-K-2204	15	5	BLD	BLD		
C 32		70-K-2205	20	5	BLD	BLD		
C 33		70-K-2206	20	5	BLD	BLD		
C 34		70-K-2207	20	BLD	BLD	BLD		
C 35		70-K-2208	15	BLD	BLD	BLD		
C 36		70-K-2209	15	5	BLD	BLD		
C 37		70-K-2210	10	BLD	BLD	BLD		
C 38		70-K-2211	15	5	BLD	BLD		
C 39		70-K-2212	20	5	BLD	BLD		
C 40	8040	70-K-2213	20	5	BLD	BLD		
C 41		70-K-2214	10	BLD	BLD	BLD		
C 42		70-K-2215	15	5	BLD	BLD		
C 43		70-K-2216	15	BLD	BLD	BLD		
C 44		70-K-2217	10	BLD	BLD	BLD		
C 45		70-K-2218	15	5	BLD	BLD		
C 46	8046	70-K-2219	15	BLD	BLD	BLD		

METHODS:



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Chief Chemist

Ray W. [Signature]

GEOCHEMICAL LABORATORY REPORT 949012

FIELD SHEET No. 001427 PROJECT No. EL. 6/68 TEXINS/WOLFRAM CK. AREA

LAB. SHEET No. 468/7 SAMPLE TYPE STREAM SED. DATE 6th November, 1970.

SAMPLE No.	LAB. No.	Mo ppm	Bi ppm	W ppm	Sn %				
C 47	70-K-2220	10	BLD	BLD	BLD				
C 48	70-K-2221	10	BLD	BLD	BLD				
C 49	70-K-2222	15	BLD	BLD	BLD				
C 50	70-K-2223	20	10	BLD	BLD				

METHODS:



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Chief Chemist

Ray W. Gerbrey

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GEOCHEMICAL LABORATORY REPORT 949013

FIELD SHEET No. 001428 PROJECT No. EL. 6/68 - TEXINS/COPPER SHOW CK. AREA

LAB. SHEET No. 468/8 SAMPLE TYPE: STREAM SED. DATE: 6th November, 1970.

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Ag ppm			
C 1	8001	70-K-2224	10	30	30	BLD		
C 2		70-K-2225	10	25	35	BLD		
C 3		70-K-2226	20	30	40	BLD		
C 4		70-K-2227	15	30	40	BLD		
C 5		70-K-2228	10	25	25	BLD		
C 6		70-K-2229	10	30	30	BLD		
C 7		70-K-2230	BLD	25	10	BLD		
C 8		70-K-2231	30	60	80	1		
C 9		70-K-2232	2	20	15	BLD		
C 10		70-K-2233	10	30	20	BLD		
C 11		70-K-2234	5	45	35	BLD		
C 12		70-K-2235	5	35	25	BLD		
C 13		70-K-2236	10	45	20	1		
C 14		70-K-2237	25	105	110	2		
C 15		70-K-2238	30	60	205	1		
C 16		70-K-2239	15	50	60	1		
C 17		70-K-2240	30	40	60	1		
C 18		70-K-2241	30	50	65	1		
C 19		70-K-2242	5	40	25	1		
C 20		70-K-2243	5	30	30	BLD		
C 21		70-K-2244	5	30	15	BLD		
C 22		70-K-2245	10	35	30	BLD		
C 23		70-K-2246	5	25	20	BLD		
C 24		70-K-2247	25	65	80	1		
C 25		70-K-2248	25	70	65	1		
C 26		70-K-2249	30	40	40	BLD		
C 27		70-K-2250	40	65	95	1		
C 28		70-K-2251	10	30	30	BLD		
C 29		70-K-2252	25	50	60	1		
C 30		70-K-2253	BLD	30	10	BLD		
C 31		70-K-2254	20	55	60	1		
C 32		70-K-2255	30	60	70	1		
C 33		70-K-2256	25	55	60	1		
C 34		70-K-2257	10	40	40	1		
C 35		70-K-2258	5	50	40	1		
C 36		70-K-2259	5	40	35	1		
C 37		70-K-2260	15	60	145	1		
C 38		70-K-2261	10	50	35	1		
C 39		70-K-2262	15	55	35	1		
C 40		70-K-2263	15	50	40	1		
C 41		70-K-2264	5	35	20	BLD		
C 42		70-K-2265	5	35	25	BLD		
C 43		70-K-2266	BLD	30	20	BLD		
C 44		70-K-2267	BLD	25	20	BLD		
C 45	8045	70-K-2268	5	40	30	BLD		

METHODS:

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Cu, Pb, Zn, Ag by GRC No. 1

B.L.D. = Below Limit of Detection



Chief Chemist

012

GEOCHEMICAL LABORATORY REPORT 949014

FIELD SHEET No. 001428 PROJECT No. EL. 6/68 - TEXINS

LAB. SHEET No. 468/9 SAMPLE TYPE: STREAM SED. DATE: 6th November, 1970.

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Ag ppm				
C 46	8046 ↓	5	45	20	BLD				
C 47		5	40	15	1				
C 48		5	35	35	1				
C 49		5	40	20	1				
C 50	8050	20	45	35	↓				

METHODS:



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Chief Chemist

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GEOCHEMICAL LABORATORY REPORT 949015

FIELD SHEET No.: 001434 PROJECT No.: EL. 6/68 - TEXINS COPPER SHOW CREEK AREA

LAB. SHEET No.: 494/1 SAMPLE TYPE: ROCK DATE: 7th December, 1970

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm
CR 1	70-M-51	50	1.00%	2225	26	1510
CR 2	70-M-52	65	1.01%	30	17	6760
CR 3	70-M-53	70	1.91%	2950	45	7.80%
CR 4	70-M-54	35	2500	175	1	985
CR 5	70-M-55	5	6.80%	15	105	110
CR 6	70-M-56	380	165	40	29	36.0%
CR 7	70-M-57	490	45	60	1	1510
CR 8	70-M-58	565	4500	490	2	1860
CR 9	70-M-59	35	310	365	1	110
CR 10	70-M-60	85	1600	80	3	1585

METHODS:

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Cu, Pb, Zn, Ag by GRC No. 1

As by GRC No. 3A



Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

949016

FIELD SHEET No. 000066/67

Project No. EL6/68

LAB. SHEET No. 106/2

Soil Profile/
Rock

DATE: 1st December, 1969.

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm			
L1	69-L-1373	40	200	20	3				
A300	4	640	80	10	9	40.0%			
A301	5	400	50	45	6	8.25%			
A302	69-L-1376	1.52%	460	70	5	27.3%			

METHODS:

Chief Chemist

