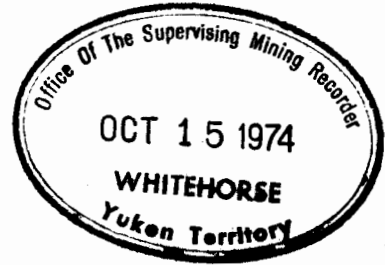




WHITEHORSE COPPER MINES LTD.

GEOCHEMICAL REPORT  
PANTHER #1 Claim - Y76839  
KREFT-TAKACS PROPERTY  
CLAIM SHEET 105-D-11  
OCTOBER, 1974

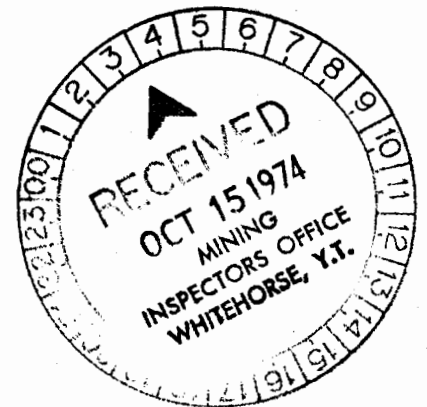


This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of \$ 932.12

*[Signature]*  
Resident Geologist or  
~~Resident Mining Engineer~~

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

*[Signature]*  
Commissioner of Yukon Territory



D. TENNEY  
CHIEF GEOLOGIST

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WHITEHORSE COPPER MINES LTD.  
GEOCHEMICAL SOIL SURVEY  
KREFT-TAKACS PROPERTY 105-P-11

Introduction

The property is located eleven miles northwest of Little Chief Mine on the slope north of Jackson Creek. It is accessible by 4 wheel drive or all terrain vehicle from the west end of Louise Lake (Fig. 1)

Several copper bearing skarn showings have been found by the owners since 1970. The property was optioned to New Jersey Zinc Ltd. in 1972. The option was dropped when six holes failed to intersect any copper mineralization of economic interest.

Patent #1 claim (#76839) was staked to cover a possible westerly extension of known showings.

The property was optioned to Whitehorse Copper Mines Ltd. in August 1974.

Geology

Limestone and clastic sediments of the Lewis River Group, are in contact with granite and diorite of the Coast Range Intrusive Complex. Magnetite skarn zones containing chalcopryrite, bornite, malachite and azurite occur near the sediments-intrusive contacts. The sediments strike north westerly and dip to the northeast from 10° to 70°.

Soil Sampling

A soil sampling program was begun to try to find areas of anomalous copper in the soils which may be derived from sulphide mineralization in skarn zones. Much of the area was not suitable for soil sampling because the overburden was composed mainly of boulders, little or no soil had developed. Control of the traverses was by pace and compass.

Two hundred and twenty-eight samples were collected in two areas. (Fig.) The samples were analyzed for total extractable copper at Whitehorse Assay Office. A dilute hot aqua-regia extraction was used. A Dornier AA4 atomic absorption unit was used for analysis. Results of the survey are shown in Figures 2 and 3. Fig. 4 is a plot of the frequency distribution of the values. Annex A is a data sheet from Whitehorse Assay Office. The median value for the samples was 24PPM Copper.

Conclusions

Although some samples contain anomalously high concentrations of copper, the origin and significance of the anomalous areas has not yet been ascertained.

Final interpretation of the geochemistry will be aided by results of geological mapping and a magnetometer survey not yet completed.

EXPENDITURES

Sampling Crew

Eric Johnson - Box 4280, Whitehorse  
Aug. 6,7,8,9,12,13. Six days @ 990/month  
 $990 \times 6/21.75 = 273.10$

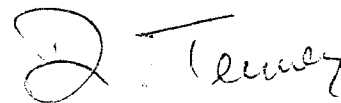
Darwin Allen - Box 4280, Whitehorse  
Aug. 6,7, 8,9,12,13 Six days @\$765/month  
 $765 \times 6/21.75 = 211.03$

Ron Stack - Box 4280, Whitehorse  
Aug. 7,8 two days @\$765/month  
 $765 \times 2/21.75 = 70.34$   
Total \$ 554.47

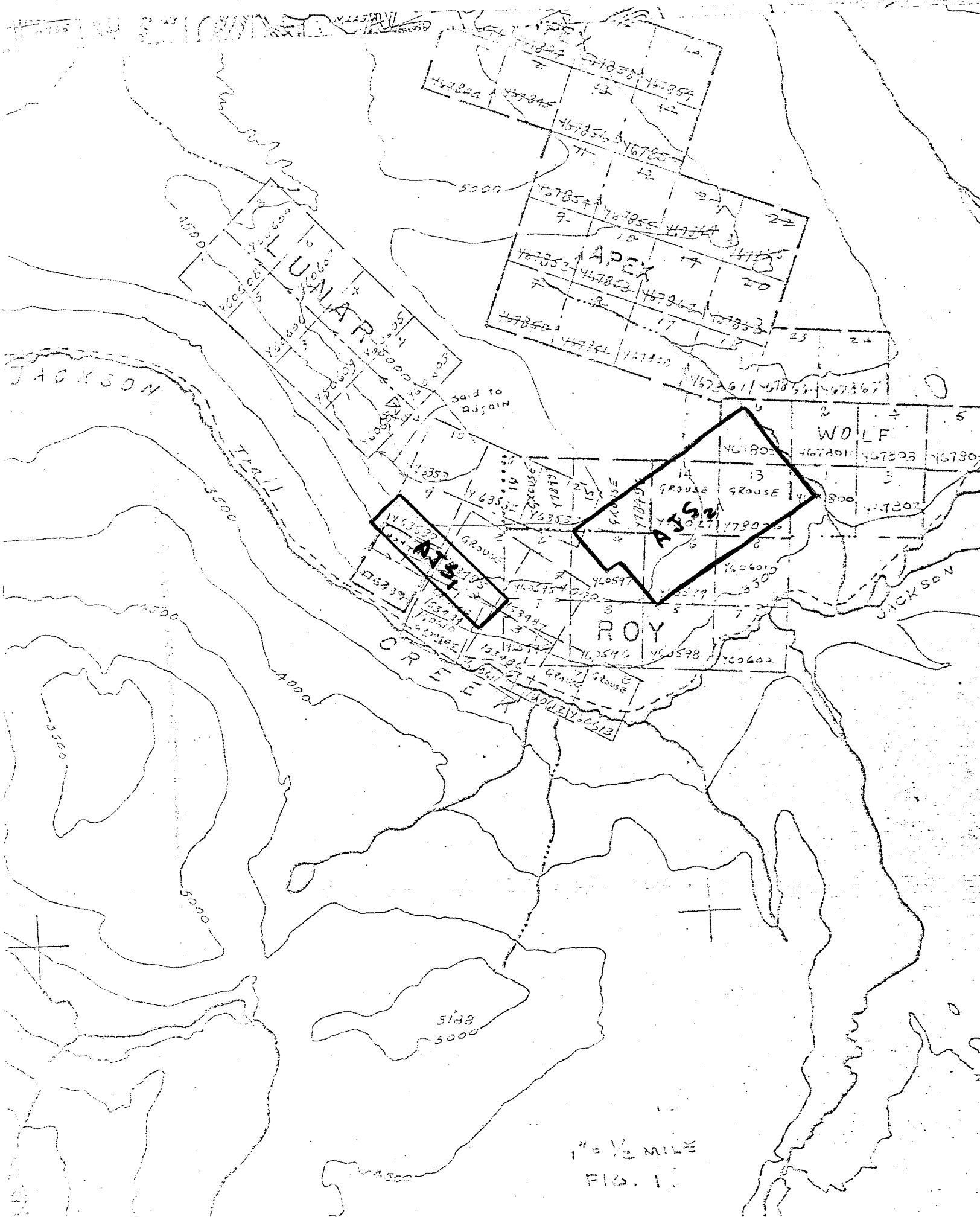
Company overhead @10%  
UIC, Health Insurance,  
Life Insurance) 55.45

Gas 4x4 vehicle 6 days @8/20  
day 120.00

Invoice Whitehorse Assay  
Office Annex B 205.20  
Total \$939.12



D. TENNEY  
CHIEF GEOLOGIST  
WHITEHORSE COPPER MINES LTD.



$1" = \frac{1}{2}$  MILE  
FIG. 1

GEOCHEMISTRY - COPPER P.P.M.  
 KREFT OPTION - JACKSON CREEK  
 N.T.S. FILE 105-D-11 WEST  
 1" = 400' FIG. 3

PANTHER 1  
 Y 76839

- 0-20
- 20-40
- 40-50
- 50-60
- 60-80
- 80-120
- 120-200



GROUSE 2  
 Y 53495

GROUSE 4  
 Y 53497

GROUSE 1  
 Y 53494

GROUSE 3  
 Y 53496

GROUSE 5  
 Y 60610

GROUSE 6  
 Y 60611

R-15  
 N 100 N

R-15  
 N 20 E

WHITEHORSE ASSAY OFFICE  
BOX #4513  
WHITEHORSE, YUKON

Samples from: WHITEHORSE COPPER

Lot. No.: A-707-238

CO-ORD.				COORD.			
SAMPLE #	CU	N	E	SAMPLE #	CU	N	E
1832	44	24 N	0 E	1928	76	112 N	1 E
32	40	"	1	29	140	116 N	1 E
34	40	"	2	30	148	120 N	1 E
35	20	"	3	32	16	36 N	26 E
36	16	"	4 E	34	16	"	27 E
37	32	"	5	35	56	"	28
38	24	"	6	36	20	"	29
1895	42	100 N	2 E	37	28	"	30
96	36	104 N	2 E	38	12	"	31
97	36	108 N	2 E	39	16	"	32
1898	120	112 N	2 E	1955	26	100 N	3 E
99	132	116 N	2 E	56	52	104 N	3 E
1900	24	32 N	0 E	57	72	108 N	3 E
01	36	"	1	58	116	112 N	3 E
02	16	"	2	59	56	116 N	3 E
03	104	"	3	60	28	36 N	0 E
04	92	"	4 E	61	56	"	1
05	98	"	5	62	76	"	2
06	24	"	6	63	36	"	3
07	40	"	7	64	24	"	4 E
1908	120	"	8 E	1965	28	"	5
09	20	"	9	66	28	"	6
10	8	"	10	67	24	"	7
11	72	"	11	68	52	"	8 E
12	180	"	12 E	69	48	"	9
13	20	"	13	70	140	"	10
14	12	"	14	71	28	"	11
15	112	"	15	72	26	"	12 E
16	116	"	16 E	73	44	"	13
17	92	"	17	74	80	"	14
1918	24	"	18	1975	208	"	15
19	48	"	19	76	48	"	16 E
20	56	"	20 E	77	104	"	17
21	40	"	21	78	108	"	18
22	44	"	22	79	122	"	19
23	36	"	23	80	44	"	20 E
24	24	"	24 E	81	24	"	21
25	36	"	25	82	52	"	22
26	92	104 N	1 E	83	44	"	23
27	48	108 N	1 E	84	16	"	24 E

Date: Aug 30/74

Assayer: K. Hayward

WHITEHORSE ASSAY OFFICE  
BOX ~~511~~ 4518  
WHITEHORSE, YUKON

Samples from: WHITEHORSE COPPER

Lot. No.: A-707-228

CO. 020.

SAMPLE #	Fe	N	E	SAMPLE #	Cu		
198	22	36 N	25 E	2155	36	28 N	16 E
86	20	32 N	26 E	56	16	"	17
87	30	32 N	27 E	57	16	"	18
88	20	32 N	28 E	58	20	"	19
89	12			59	8	"	20 E
91	12			60	8	20 N	5 E
92	16			61	16	"	6
93	12			62	16	"	7
94	12			63	12	"	8
95	16			64	12	"	9 E
1976	16			2165	32	"	10
97	40			66	12	"	11
98	40			67	36	"	12
99	22			68	32	"	13 E
2000	44			69	28	"	14
01	14			70	12	"	15
02	44			71	16	"	16
03	52			72	44	"	17 E
04	16	24 N	7 E	73	24	"	18
05	8	"	8 E	74	16	"	19
06	52	"	9 E	2175	12	"	20
07	62	"	10 E	76	56	12 N	5 E
				77	8	"	0
2129	8			78	24	"	7
29	28	28 N	0 E	79	8	"	8
40	20	"	1	80	32	"	9 E
41	36	"	2	81	12	"	10
42	52	"	3	82	8	"	11
43	72	"	4	83	8	"	12
44	26	"	5	84	28	"	13 E
2145	24	"	6	2185	28	"	14
46	52	"	7	86	24	"	15
47	48	"	8	87	8	"	16 E
48	112	"	9	88	24	"	17
49	60	"	10	89	12	"	18
50	20	"	11	90	8	"	19 E
51	44	"	12	91	54	2 N	5 E
52	24	"	13	92	28	"	6
53	28	"	14	93	12	"	7
54	8	"	15	94	12	"	8 E

46  
24  
16  
12  
5 5  
15  
  
 115  
36

Date: Aug 31/74

Assayer: K. Hayward



WHITEHORSE ASSAY OFFICE  
BOX #4518  
WHITEHORSE, YUKON

Samples from: WHITEHORSE COPPER

Lot. No.: A-707-238

SAMPLE #	Cu			SAMPLE #	Cu		
2195	8	4N	4E	2226	500	8N	7E
2196	12	"	10	37	24	"	8
2197	16	"	11	38	24	"	9
2198	4	"	12	39	16	"	10E
2199	8	"	13E	40	8	"	11
2200	40	24N	11E	41	32	"	12
2201	4	"	12	42	8	"	13E
2202	44	"	13	43	12	"	14
2203	42	"	14	44	20	"	15
2204	8	"	15	45	8	"	16E
2205	60	"	16E	2246	12	"	17
2206	32	"	17	47	24	"	18
2207	24	"	18	48	28	"	19E
2208	32	"	19	49	24	0000	5E
2209	20	"	20E	50	16	"	6
2210	44	"	21	51	16	"	7E
2211	8	"	22	52	16	"	8
2212	12	"	23	53	24	"	9
2213	20	"	24E	54	20	"	10E
2214	96	16N	5E	55	20	"	11
2215	16	"	6E	2256	12	"	12
2216	24	"	7	57	20	"	13E
2217	16	"	8	58	20	"	14
2218	24	"	9	59	32	"	15
2219	12	"	10E	60	52	"	16E
2220	8	"	11	70	28	7N	14E
2221	24	"	12	71	20	"	15
2222	24	"	13	72	28	"	16
2223	12	"	14E				
2224	8	"	15				
2225	20	"	16				
2226	40	"	17				
2227	4	"	18E				
2228	12	"	19				
2229	12	"	20				
2230	20	"	21				
2231	16	"	22				
2232	52	"	23E				
2233	144	5N	5E				
2234	88	"	6E				

Date: Aug 30/24

Assayer: K. Hayward



WHITEHORSE ASSAY OFFICE LTD.  
 BOX 4518 WHITEHORSE Y.T.

Y1A 2R8

PHONE 667-2694

Sept. 13/74  
Whitehorse Copper Mines  
Box 4280  
Whitehorse, Y.T.  
(A. Hansen)

INVOICE NO 0074

DATE	DESCRIPTION	DEBIT	CREDIT	BALANCE
Aug 30	F-707228 (ovide)	#	#	
	228 Cu @ 1.00	228.00		
	10% 10%		22.80	
	Total Due			\$205.20
	OK #			
	6-60			

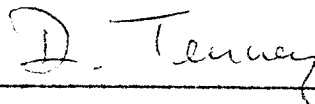
DUE ON RECEIPT. 1 PER CENT PER MONTH ON OVERDUE ACCOUNTS.

AFFIDAVIT

I, David Tenney of the City of Whitehorse in the Yukon Territory, hereby certify that I:

- 1) graduated with an honours degree in Geology (B.Sc. Geology) from the University of Leicester, England, in 1961.
- 2) was awarded a Diploma in Mineral Exploration (D.I.C. MIN. Ex.) by the Royal School of Mines, (a part of Imperial College of Science and Technology) London in 1962.
- 3) am a Member of the Institution of Mining and Metallurgy, (M.I.M.M.) London, England.
- 4) am a Member of the Association of Exploration Geochemists (M.A.E.G.)
- 5) have been practicing my profession as mine and exploration geologist since 1962.

signed



David Tenney

BSC. D.I.C. M.I.M.M. M.A.E.G.