Assessment Report

describing

Trenching and Sampling

on the

HAT 1-40 Claims
YB57537-YB57556
YB58021-YB58026
YB58049-YB58056
YB58139-YB58140
YB66395-YB66398

located at: latitude N 60⁰ 45.3', longitude W 135⁰ 10.5'

NTS: 105 D/11, 105 D/14

in the

Whitehorse Mining District
Yukon Territory

RECEIVED
MAY 11 1998
MINING RECORDERS OFFICE
WHITEHORSE, Y.T.

094022

registered owner:
Kluane Drilling Ltd. and Northwest Enterprises Inc.

prepared for:
Kluane Drilling Ltd.

prepared by:

Owen Peer, geologist
Cordillera Resource Company Ltd.

work completed:

12 April to 5 May, 1998

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of $ 4000.00

M. B[illegible]

for Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

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Abstract:

Location:	2 km west of the Alaska Highway within the city of Whitehorse
Deposit Type:	Precious Metal Enriched Skarn
Stage of Project:	Exploration
Host Rocks:	Triassic Lewes River Group and Jurassic Labarge Group Sediments and late Cretaceous to Tertiary Whitehorse Batholith
Physiography:	Limited outcropping, glaco-fluvial sediments 1-10 meters thick lying in terraces
Mineralized Target:	500 meters of PME Skarn deposit north of War Eagle pit and a gold porphyry
Schedule:	Bulk sampling of the deposit and expanded geophysics summer 1999

Recommendations:

Bulk testing of the material exposed in trenches TR-97-02 and TR-98-01. A geophysical exploration programme targeted towards porphyry style deposits.

Table of Contents:

Introduction:

The HAT claim block consists of 40 contiguous claims. The HAT 1-40 claims are 50% owned by Kluane Drilling Ltd. and 50% by Norwest Enterprises Inc. The claims are staked in the Whitehorse Copper Belt, north along strike from the War Eagle pit and east .

The Whitehorse Copper Belt is a 32 km. long northwest trending series of copper bearing skarns. The War Eagle pit represents the northern most producing pit of the belt. The War Eagle pit produced approximately 900,000 tonnes of 1.25% Cu, 0.22 g/t Au, 8.6 g/t Ag, and 0.005% Mo during its operating life.

The 1997 exploration programme uncovered narrow (2-5m), parallel bands of mineralized limestone skarn approximately 200 m north of the War Eagle pit. The 1998 exploration programme was designed to determine the strike length of the mineralized bands.

The 1998 exploration programme saw four trenches totalling 499 meters excavated and 43 channel samples sent for assay. This report describes the 1998 programme.

Location, Access and Infrastructure:

The HAT claims are located within the city of Whitehorse. The claim block is located adjacent to the Alaska highway west of the Porter Creek subdivision. The claims cover and are accessed to the south through the city's landfill site. The northern portion of the claims are accessed via the Kulan Industrial Park.

The trenches are located on the HAT 31 and HAt 32 claims. They are accessed through the municipal landfill by 2 km of secondary road from the Alaska highway to the War Eagle pit. From the north end of the pit a tote trail provides the last 200 m. of access.

The claim block falls within the Whitehorse Mining District boundaries. The centre of the claim block is located at latitude N 60° 45.3', longitude W 135° 10.5'.

Land Status and Property Description:

The HAT claim block is 50% owned by Kluane Drilling Ltd. and 50% owned by Norwest Enterprises Inc. Part of the claim block overlies the Whitehorse municipal landfill. This is a source of contention. The claims were staked in good faith and are recognized as valid by Indian and Northern Affairs Canada. The claim block is outlined in Figure 1. The claim particulars are outlined in Table 1.

Claim name and number	Grant number	Expiry date	Registered owner	% owned
HAT 1-20	YB57537-YB57556	11-Nov-2000	Kluane Drilling Ltd.	50%
			Norwest Enterprises Inc.	50%
HAT 21-26	YB58021-YB58026	11-Nov-2002	Kluane Drilling Ltd.	50%
			Norwest Enterprises Inc.	50%
HAT 27-34	YB58049-YB58056	11-Nov-2002	Kluane Drilling Ltd.	50%
			Norwest Enterprises Inc.	50%
HAT 35-36	YB58139-YB58140	11-Nov-2001	Kluane Drilling Ltd.	50%
			Norwest Enterprises Inc.	50%
HAT 37-40	YB66395-YB66398	16-Nov-2000	Kluane Drilling Ltd.	50%
			Norwest Enterprises Inc.	50%

Table 1.HAT Claim Particulars

History, and Previous Work:

The Copper King deposit was discovered in 1897 and first staked by Jack McIntyre on 6 July, 1898. Most of the deposits known today in the Whitehorse Copper Belt were discovered and staked by 1899. The War Eagle deposit saw production along with the rest of the belt from 1900 to 1920.

Renewed interest in the belt started in 1948 with Noranda conducting some exploration and drilling. This was followed in 1954 by the formation of Imperial Mines and Metals Ltd. who began acquiring claims in the belt. By 1963, Imperial Mines and Metals Ltd. renamed New Imperial Mines Ltd. had gained control of the belt. Accelerated exploration occurred between 1963 and 1965 resulting in 5.0 million tonnes of reserves being outlined. The Whitehorse Copper mill commenced operation in March 1967 and ceased at the end of 1982 having processed 10,247,936 tonnes of ore grading 1.37% Cu, 0.7 g/t Au and 13.0 g/t Ag. The War Eagle pit produced approximately 900,000 tonnes of ore for the mill grading 1.25% Cu, 0.22 g/t Au, 8.6 g/t Ag, and 0.005% Mo.

1981 saw a hole drilled very near the Alaska highway by Rabbits Foot canyon (entrance to municipal dump). While 1990 saw some trenching in the same area.

Rob Hamel of Norwest Enterprises Inc. staked the HAT claims in the fall of 1994 and proceeded with minor amounts of trenching. 1997 saw 200 m of trenching on strike from the War Eagle pit. One assay from this programme graded over 7 g/t Au and 8.9% Cu.

Property Geology and Mineralization:

The property is underlain by a sequence of Upper Triassic Lewes River Group greywakes and limestones intrude by a mid-Cretaceous granodiorite of the Whitehorse batholith. The bedrock is covered by Quaternary glacio-fluvial sediments deposited in terraces.

Economic mineralization in the copper belt occurs mainly within limestone of the Lewes River Group within a 100 meters of the granodiorite. Two main types of skarn deposit were noted in the belt: iron-rich and silicate rich. The iron rich skarn deposits are usually associated with non-magnetic diorite, while the silica rich skarns deposits are associated with strongly magnetic phases of the diorite (Tenney 1981). The silicate skarn usually formed the foot wall of the deposits. Conversations with M. Smith a geologist with Whitehorse Copper Mines in the late 1960's indicated that the silicate skarn was used to help grind the iron skarn material. The silicate skarn material would be imbed itself in the mild mill steel forming an overall much harder steel to grind with. This reduced mill steel wear and costs. Due to its high grinding index the silicate skarn material by its self is unlikely to be economic.

Mineralization within the HAT 31 trenches is both banded and disseminated. The majority of mineralization present is in the form of chalcopyrite. However bornite, azurite, pyrrhotite, arsenopyrite, pyrite, and sphalerite are observed. Assay results suggest that gold mineralization is related to sulphide content. A correlation between gold and bismuth, silver, zinc, stibnite, and copper has been observed.

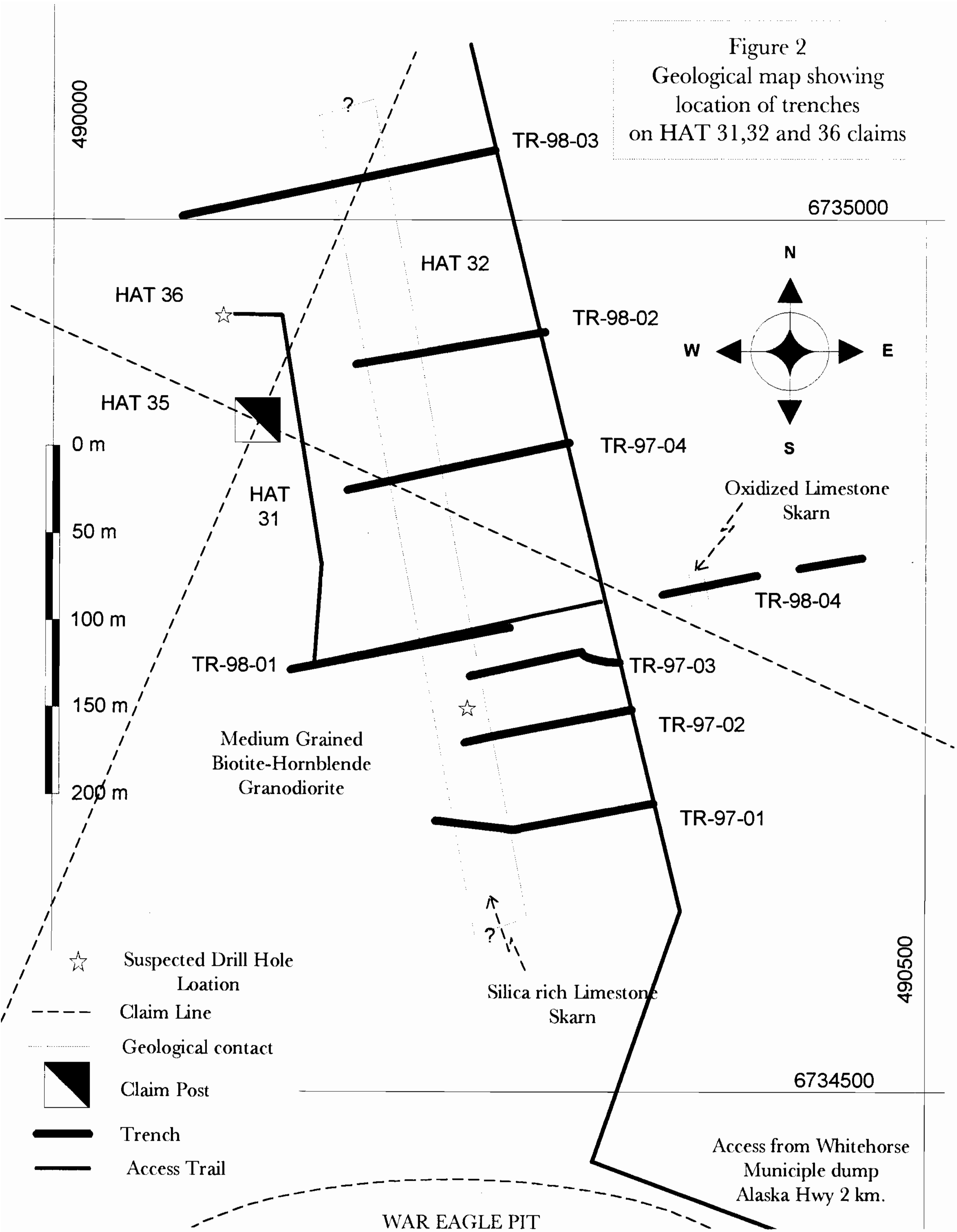

Figure 2
Geological map showing
location of trenches
on HAT 31,32 and 36 claims
490000
6735000
TR-98-03
HAT 32
HAT 36
TR-98-02
N
W
E
S
HAT 35
TR-97-04
0 m
50 m
100 m
150 m
200 m
HAT
31
Oxidized Limestone
Skarn
TR-98-04
TR-98-01
TR-97-03
TR-97-02
Medium Grained
Biotite-Hornblende
Granodiorite
TR-97-01
?
?
Suspected Drill Hole
Loation
Claim Line
Geological contact
Claim Post
Trench
Access Trail
Silica rich Limestone
Skarn
490500
6734500
Access from Whitehorse
Municiple dump
Alaska Hwy 2 km.
WAR EAGLE PIT

The skarns examined were formed from a limestone protolith as characterized by the wollastonite, and the green pyroxenes and garnets. Epidote and amphibole retrograde mineralization was also observed. Retrograde mineralization is consistent with gold occurrences in other skarn deposits. This skarn deposit falls within the Whitehorse Copper belt silica type deposit.

Tenney (1981) indicates that there is no correlation between gold and copper grades from producing pits in the Whitehorse Copper Belt. The Little Chief pit produced the majority of the ore for the belt. According to Tenney (1981) the Little Chief pit graded 1.29 % Cu, and 496 ppb Au. The Whitehorse Copper Belt skarns were collectively considered as copper class skarns.

The War Eagle pit formed the northern most producing pit of the Belt. The pit's grades of 1.37% Cu and 0.7 g/t Au places it within the gold skarn (PME) field. There is a definite increase in gold mineralization with proximity to the Whitehorse batholith.

Sample Collection, Preparation and Analysis:

The trenches were excavated using a 235 Caterpillar excavator. The trenches in all cases were excavated to and into bedrock using the mechanical equipment. The trenches were then cleaned by hand to expose the bedrock. Surface rock was then removed to expose fresh rock for sampling. All samples taken were channel samples with a minimum length of 2 meters. Samples were taken using hammer and chisels and a pneumatic jack hammer.

The trenches were measured East to West. A post was planted and labelled at the zero mark of each trench and 5 meter intervals were marked on the trench walls using paint. Samples were chipped from chosen intervals. A list of sample location is appended. Some samples crossed geological contacts. The majority of samples of collected were silica rich skarnified limestone.

Geochemical sampling was undertaken to determine elemental indicators of mineralization and to reveal grades for the different rock units. The samples were used to asses the combination of elements that are indicative of alteration, mineralization, and mineralization types on the property. Samples were collected from bedrock in exposed trenches. Sampling was focused on HAT 31 as this claim had exposed skarn mineralization showing retrograde alteration. The different rock units were identified, then channel sampled. The channels were first cleaned to expose fresh rock (no localized surface weathering or enrichments). The samples were collected and delivered to Northern Analytical Laboratory.

Northern Analytical Laboratory dried, crushed to -10 mesh, split, and a 250 gram sample pulverized to -150 mesh. A portion of the pulp, (60 g) was fire assayed and then measured using atomic-absorbtion spectrophotometry in Whitehorse for copper and gold. The remainder of the pulp was assayed in Vancouver by International Plasma Laboratories by 30 element inductively coupled-plasma atomic emission spectrometry (ICP). The pulps were initially aqua-regia acid dissolved (HCl-HNO_3). This acid dissolution of samples method does result in a partial determination of some elements.

Summary, and Recommendations:

The assay results from the material sampled indicate that the skarns are similar in nature to known and classified precious metal enriched skarns (PME). The HAT 31 skarns, based on limited sampling fall within the gold skarn class. Due to the nature of the showing uncovered on HAT 31, a silica skarn, the economics of mining are uncertain. The showing may be uneconomical in the absence of iron rich skarn material to blend with it. A bulk sample of the material should be processed to determine this.

The proximity of the War Eagle silica rich PME skarn to the Whitehorse batholith cannot be overlooked. As well as the presence of Whitehorse pluton granodiorite float containing disseminated chalcopyrite and veinlets of bornite (C. Hart 1995). A geophysical survey targeted at porphyry style deposits should be attempted.

References:

Hart, C., 1995, A visit to the HAT property of Rob Hamel, unpublished report; available from the Canada/Yukon Geoscience Office, 2 p.

Meinert, L.D., 1989, Gold Skarn Deposits: Geology and Exploration Criteria, Economic Geology, monograph 6, p 537-552.

Peer, O., 1997, Geological Assessment Report on HAT 1-40 Claims, Whitehorse Mining Recorder, 17 p.

Tenney, D., 1981, Whitehorse Copper Belt: Mining, Exploration, and Geology (1967-1980), Department of Indian and Northern Affairs Canada, Bulletin 1, 29 p.

Limitations:

1.The work performed in this report was carried out in accordance with our contract. The conclusions presented herein are based solely upon the scope of services and time and budgetary limitations described in our contract.

2.The report has been prepared in accordance with generally accepted geological practices. No other warranties, either expressed or implied, are made as to the professional services provided under the terms of our contract and included in this report.

3.The services performed and outlined in this report were based, in part, upon visual observations of the property. Our opinion cannot be extended to portions of the property which were unavailable for direct observation or situations reasonably beyond the control of the Cordillera Resource Company Ltd.

4.The objective of this report was to assess the geology and mineral potential of the property, within the context of our contract and existing environmental regulations within the applicable jurisdiction. Evaluating compliance of past or future owners with applicable local, provincial and federal government laws and regulations was not included in our contract for services.

5.The conclusions of this report are based in part, on the information provided by others. The possibility remains that unexpected conditions may be encountered on the property in locations not specifically investigated. Should such an event occur, the Cordillera Resource Company Ltd. must be notified in order that we may determine if modifications to our conclusions are necessary.

Statement of Qualifications:

I, Owen Peer, do hereby certify that I am an independent consulting geologist with offices at Fox Farm Road, Whitehorse, Yukon Territory.

I further certify that:

1. I graduated from the University of Victoria with a Bachelor of Science in Physics, and in Earth and Ocean Sciences.

2. I have practiced in my profession for over ten years both as an independent consultant and as a geologists for mining companies in Canada and overseas.

3. I have no investment interest in the property, nor do I expect to receive directly or indirectly any interest in the property described in this report.

4. I have based this report on field work carried out directly by myself.

Dated ~~this~~ no. day ~~of month~~, in city, country. 11 may 1999 in Whitehorse Yukon Canada.

Owen Peer

Owen Peer, B.Sc.
Consulting Geologist

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This report contains 21 pages including maps and appendices as listed in the table of contents.

Appendix A: Statement of Costs

Excavation of the HAT 31, 32 and 36 trenches by excavator:

50 hours @ $135/hr		$6750.00
mob/demob.		$ 340.00
TR-98-01	128m	
TR-98-02	110m	
TR-98-03	183m	
TR-98-04	78m	

HAT 31 claim	26%
HAT 32 claim	50%
HAT 36 claim	24%

Geological services:

field work 5 days @ $350/day	$1750.00
office work 3 days @ $350/day	$1050.00

Assay costs:

43 ICP assays @ 23.81/assay	$1023.72
TOTAL	**$10913.72**

HAT 31 claim	$2837.57
HAT 32 claim	$5456.86
HAT 36 claim	$2619.29

Sample Number	Trench Number	Interval Start	Interval Stop	Sample Length (m)	Mineralogy
751	TR-98-01	0	5	5	Med. gr Bt-Hd Gdt. w tr. diss. Py. 1-3% & mr. bd. of Cpy. Py.
752	TR-98-01	10	15	5	Med. gr Bt-Hd Gdt. w tr. diss. Py. 1-3% & mr. bd. of Cpy. Py.
753	TR-98-01	15	20	5	Med. gr Bt-Hd Gdt. w tr. diss. Py. 1-3% & mr. bd. of Cpy. Py.
754	TR-98-01	20	25	5	Med. gr Bt-Hd Gdt. w tr. diss. Py. 1-3% & mr. bd. of Cpy. Py.
755	TR-98-01	25	30	5	Med. gr Bt-Hd Gdt. w tr. diss. Py. 1-3% & mr. bd. of Cpy. Py.
756	TR-98-01	30	35	5	Med. gr Bt-Hd Gdt. w tr. diss. Py. 1-3% & mr. bd. of Cpy. Py.
757	TR-98-01	35	40	5	Med. gr Bt-Hd Gdt. w tr. diss. Py. 1-3% & mr. bd. of Cpy. Py.
758	TR-98-01	40	45	5	Med. gr Bt-Hd Gdt. w tr. diss. Py. 1-3% & mr. bd. of Cpy. Py.
759	TR-98-01	45	50	5	Med. gr Bt-Hd Gdt. w tr. diss. Py. 1-3% & mr. bd. of Cpy. Py. Pyrr
760	TR-98-01	50	55	5	Si rich Lmst. skrn. w 1 m dyke same as 759
761	TR-98-01	55	60	5	Med. gr Bt-Hd Gdt. w tr. diss. Py. 1-3% & mr. bd. of Cpy. Py. Pyrr
762	TR-98-01	98	100	2	Si rich skrn. diss. & vein of Py, Cpy, Bnt, Az, Aspy
763	TR-98-01	100	105	5	Si rich Lmst. skrn. w diss. Py Cpy 5%,
764	TR-98-01	105	110	5	Si rich Lmst. skrn. w diss. Py Cpy 5%, Wl
765	TR-98-01	112	115	3	Si rich Lmst. skrn. w diss. Py Cpy 5%, Az, Aspy
766	TR-98-01	115	120	5	Med. gr Bt-Hd Granodiorite w tr. diss. Py. <1% & mr. bd.
767	TR-98-01	120	125	5	Si rich skrn. diss. & vein of Py, Cpy, Bnt, Az, Aspy
768	TR-98-01	125	128	3	Med. gr Bt-Hd Granodiorite w tr. diss. Py. 3% & mr. bd. Aspy
769	TR-98-01	115	120	5	Si rich skrn. diss. & vein of Py, Cpy, Bnt, Az, Aspy
770	TR-98-01	110	115	5	Si rich Lmst. skrn. w diss. Py Cpy 5%, oxi
771	TR-98-01	105	110	5	Si rich Lmst. skrn. w diss. Py Cpy 5%, oxi
772	TR-98-02	7.5	10	2.5	Si rich Lmst. skrn. w diss. Py Cpy 5%, Az, Aspy, oxi
773	TR-98-02	10	15	5	Si rich Lmst. skrn. w diss. Py Cpy 5%, Az, Aspy, oxi
774	TR-98-02	25	30.5	5.5	Med. gr Bt-Hd Granodiorite w tr. diss. Py. <1% & mr. bd.
775	TR-98-02	62	65	3	Si rich Lmst. skrn. w diss. Py Cpy 5%, Az, Aspy, oxi
776	TR-98-02	65	70	5	Si rich Lmst. skrn. w diss. Py Cpy 5%, Az, Aspy, oxi
777	TR-98-02	70	75	5	Si rich Lmst. skrn. w diss. Py Cpy 5%, Wl
778	TR-98-02	75	78.5	3.5	Si rich Lmst. skrn. w diss. Py Cpy 5%,
779	TR-98-03	25	26	1	Med. gr Bt-Hd Granodiorite w tr. diss. Py. <1% & mr. bd.
780	TR-98-03	40.5	41.5	1	Med. gr Bt-Hd Granodiorite w tr. diss. Py. <1% & mr. bd.
781	TR-98-03	41.5	42.5	1	Si rich Lmst. skrn. w diss. Py Cpy 5%,
782	TR-98-03	47	47.5	0.5	Med. gr Bt-Hd Granodiorite w tr. diss. Py. <1% & mr. bd.
783	TR-98-03	80	84	4	Si rich Lmst. skrn. w diss. Py Cpy 5%,
784	TR-98-03	84	84.5	0.5	Med. gr Bt-Hd Granodiorite w tr. diss. Py. 3% & mr. bd. Cpy
785	TR-98-03	118	121	3	Med. gr Bt-Hd Granodiorite w tr. diss. Py. <1% & mr. bd.
786	TR-98-03	129	130	1	Si rich Lmst. skrn. w diss. Py Cpy 5%,
787	TR-98-03	134	136	2	Si rich Lmst. skrn. w diss. Py Cpy 5%,
788	TR-98-03	146	148.5	2.5	Med. gr Bt-Hd Granodiorite w tr. diss. Py. <1% & mr. bd.
789	TR-98-02	87	89	2	Si rich Lmst. skrn. w diss. Py Cpy 5%,
790	TR-98-04	3	4	1	Med. gr Bt-Hd Granodiorite w tr. diss. Py. <1% & mr. bd.
791	TR-98-04	5	7	2	Med. gr Bt-Hd Granodiorite w tr. diss. Py. <1% & mr. bd.
792	TR-98-04	20	25	5	Med. gr Bt-Hd Granodiorite w tr. diss. Py. <1% & mr. bd.
793	TR-98-04	25	28	3	Si rich Lmst. skrn. w diss. Py Cpy 5%,

Appendix B: Certificates of Analyses

Sample Status	Sample Number	Trench Number	Interval Start	Interval Stop	Sample Length (m)	Sample Type	
assayed	751	TR-98-01	0	5	5	chan. chip	
assayed	752	TR-98-01	10	15	5	chan. chip	
assayed	753	TR-98-01	15	20	5	chan. chip	
assayed	754	TR-98-01	20	25	5	chan. chip	
assayed	755	TR-98-01	25	30	5	chan. chip	
assayed	756	TR-98-01	30	35	5	chan. chip	
assayed	757	TR-98-01	35	40	5	chan. chip	
assayed	758	TR-98-01	40	45	5	chan. chip	
assayed	759	TR-98-01	45	50	5	chan. chip	
assayed	760	TR-98-01	50	55	5	chan. chip	
assayed	761	TR-98-01	55	60	5	chan. chip	
assayed	762	TR-98-01	98	100	2	chan. chip	
assayed	763	TR-98-01	100	105	5	chan. chip	
assayed	764	TR-98-01	105	110	5	chan. chip	
assayed	765	TR-98-01	112	115	3	chan. chip	
assayed	766	TR-98-01	115	120	5	chan. chip	
assayed	767	TR-98-01	120	125	5	chan. chip	jack hammered
assayed	768	TR-98-01	125	128	3	chan. chip	
assayed	769	TR-98-01	115	120	5	chan. chip	jack hammered
assayed	770	TR-98-01	110	115	5	chan. chip	jack hammered
assayed	771	TR-98-01	105	110	5	chan. chip	jack hammered
~~assayed~~	772	TR-98-02	7.5	10	2.5	chan. chip	jack hammered
assayed	773	TR-98-02	10	15	5	chan. chip	jack hammered
assayed	774	TR-98-02	25	30.5	5.5	chan. chip	jack hammered
	775	TR-98-02	62	65	3	chan. chip	jack hammered
	776	TR-98-02	65	70	5	chan. chip	jack hammered
	777	TR-98-02	70	75	5	chan. chip	jack hammered
NAL May1	778	TR-98-02	75	78.5	3.5	chan. chip	jack hammered
NAL May1	779	TR-98-03	25	26	1	chan. chip	
NAL May1	780	TR-98-03	40.5	41.5	1	chan. chip	
NAL May1	781	TR-98-03	41.5	42.5	1	chan. chip	
NAL May1	782	TR-98-03	47	47.5	0.5	rock chip	for chemex
NAL May1	783	TR-98-03	80	84	4	chan. chip	
NAL May1	784	TR-98-03	84	84.5	0.5	chan. chip	quartz only
NAL May1	785	TR-98-03	118	121	3	chan. chip	
NAL May1	786	TR-98-03	129	130	1	chan. chip	
NAL May1	787	TR-98-03	134	136	2	chan. chip	
NAL May1	788	TR-98-03	146	148.5	2.5	chan. chip	
NAL May1	789	TR-98-02	87	89	2	chan. chip	
NAL May1	790	TR-98-04	3	4	1	chan. chip	
NAL May1	791	TR-98-04	5	7	2	chan. chip	
NAL May1	792	TR-98-04	20	25	5	chan. chip	
NAL May1	793	TR-98-04	25	28	3	chan. chip	

Certificate#: 98D0360
Client: Northern Analytical Laboratories
Project: 7970
No. of Samples: 11
Date In: Apr 20, 1998
Date Out: Apr 22, 1998

Sample Nan	SampleType	Au	Ag	Cu	Pb	Zn	As	Sb	Hg	Mo
		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
751	Pulp	2	<0.1	85	12	30	7	<5	<3	3
752	Pulp	3	<0.1	41	14	26	7	<5	<3	4
753	Pulp	3	<0.1	95	2	31	22	<5	<3	5
754	Pulp	4	<0.1	48	6	32	35	<5	<3	2
755	Pulp	30	<0.1	76	3	35	10	<5	<3	3
756	Pulp	6	<0.1	81	4	43	17	<5	<3	4
757	Pulp	4	<0.1	74	<2	34	10	<5	<3	3
758	Pulp	4	<0.1	74	4	44	14	<5	<3	4
759	Pulp	4	<0.1	77	2	33	40	<5	<3	2
760	Pulp	7	<0.1	136	<2	52	16	<5	<3	4
761	Pulp	4	<0.1	150	2	25	12	<5	<3	7
Minimum detection		2	0.1	1	2	1	5	5	3	1
Maximum detection		10000	100	20000	20000	20000	10000	1000	10000	1000
Method		FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm
<10	<2	1.4	13	28	44	<5	49	33	185	6
<10	<2	1.4	13	27	42	<5	59	43	229	5
<10	<2	2	18	31	52	<5	83	62	379	5
<10	<2	1.2	11	25	36	<5	63	47	259	6
<10	<2	1.4	13	27	46	<5	65	59	287	8
<10	<2	2	15	43	121	<5	107	77	514	7
<10	<2	1.8	14	28	38	<5	99	65	251	6
<10	<2	1.9	18	66	50	<5	132	65	417	8
<10	<2	1.4	16	60	67	<5	83	44	263	7
<10	<2	1.8	14	24	61	<5	62	64	464	10
<10	<2	1.4	16	25	84	<5	57	49	191	9
10	2	0.1	1	1	2	5	1	2	1	2
1000	10000	100	10000	10000	10000	1000	10000	10000	10000	10000
ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
51	2	2	0.05	0.69	1.04	2.04	0.61	0.03	0.03	0.12
56	3	2	0.05	0.71	0.96	2.21	0.56	0.03	0.02	0.1
69	3	4	0.05	1.07	1.22	3.3	0.9	0.04	0.01	0.1
68	3	3	0.06	0.92	1.53	2.09	0.77	0.03	0.03	0.11
54	2	4	0.1	1.14	1.41	2.3	1.24	0.05	0.03	0.15
108	3	5	0.06	1.35	2.46	3.02	1.47	0.05	0.02	0.1
34	2	2	0.09	0.94	0.8	3.05	0.66	0.03	0.03	0.1
73	3	4	0.09	1.49	2.14	2.67	1.69	0.05	0.03	0.11
62	1	2	0.07	1.15	1.15	2.21	1.23	0.05	0.04	0.14
101	2	4	0.07	1.35	2.97	2.75	1.44	0.04	0.02	0.16
59	2	2	0.09	0.81	0.72	2.43	0.76	0.1	0.03	0.19
1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
10000	10000	10000	1	10	10	10	10	10	5	5
ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

Certificate#: 98D0384
Client: Northern Analytical Laboratories
Project: WO# 7972
No. of Samples: 12
Date In: Apr 28, 1998
Date Out: Apr 29, 1998

Sample Nan	SampleType	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm
762	Pulp	12	0.9	799	15	34	12	<5	<3	8
763	Pulp	2	0.4	269	<2	20	12	<5	<3	5
764	Pulp	298	5	8148	2	39	<5	<5	<3	4
765	Pulp	358	9.4	1.1659	<2	42	7	13	<3	8
766	Pulp	21	1.4	2029	<2	28	12	<5	<3	5
767	Pulp	120	5.6	7017	2	35	18	<5	<3	10
768	Pulp	30	1.7	2256	<2	23	9	<5	<3	2
769	Pulp	103	3.4	6463	3	37	<5	<5	<3	10
770	Pulp	341	11.1	20184	<2	62	6	12	<3	4
771	Pulp	273	12.7	33336	3	87	<5	<5	<3	3
773	Pulp	156	3.6	1683	<2	36	32	<5	<3	5
774	Pulp	6	0.5	418	<2	31	14	<5	<3	7
Minimum detection		2	0.1	1	2	1	5	5	3	1
Maximum detection		10000	100	20000	20000	20000	10000	1000	10000	1000
Method		FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

Tl	Bi	Cd	Co	Ni	Ba	W	Cr	V	Mn	La
ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
<10	<2	1.5	12	7	105	<5	42	13	96	12
<10	<2	0.5	7	7	70	<5	46	10	89	12
<10	<2	1.4	7	15	47	8	68	22	295	8
<10	<2	1.8	9	10	20	12	57	13	319	4
<10	<2	1	9	16	45	<5	96	47	181	6
<10	3	1.1	5	6	49	<5	69	19	443	3
<10	<2	0.8	4	12	27	<5	82	18	406	2
<10	<2	1.2	10	15	46	<5	121	56	97	6
<10	2	2.9	11	12	26	27	53	9	366	3
<10	2	4.3	13	20	38	33	57	11	357	3
<10	<2	1.7	11	27	61	<5	144	48	225	6
<10	<2	0.9	9	11	77	<5	76	44	108	3
10	2	0.1	1	1	2	5	1	2	1	2
1000	10000	100	10000	10000	10000	1000	10000	10000	10000	10000
ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

Sr	Zr	Sc	Ti	Al	Ca	Fe	Mg	K	Na	P
ppm	ppm	ppm	%	%	%	%	%	%	%	%
139	6	1	0.04	0.36	0.94	2.3	0.12	0.05	0.03	0.08
166	6	<1	0.04	0.57	1.62	0.92	0.22	0.04	0.05	0.12
55	4	1	0.03	0.68	3.52	2.48	0.59	0.05	0.01	0.06
51	6	1	0.03	0.54	5.58	2.65	0.39	0.03	<0.01	0.09
39	5	3	0.08	0.87	1.7	1.86	0.99	0.17	0.04	0.08
77	7	2	0.04	1.05	7.25	1.45	0.65	0.04	0.01	0.07
62	5	1	0.03	0.97	7.58	1.37	0.52	0.03	0.01	0.02
32	4	4	0.1	0.95	0.85	1.89	1.1	0.22	0.04	0.1
46	3	1	0.01	0.49	6.19	5.11	0.4	0.05	<0.01	0.07
29	3	1	0.01	0.48	6.31	7.57	0.47	0.02	<0.01	0.07
42	5	2	0.09	1.31	3.09	2.64	1.17	0.12	0.02	0.12
55	4	2	0.09	0.95	0.58	2.05	1.12	0.31	0.04	0.05
1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
10000	10000	10000	1	10	10	10	10	10	5	5
ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

CERTIFICAT OF ANALYSIS
iPL 98E0416

2036 Columbia Street
Vancouver, B.C.
Canada V5Y [illegible]
Phone (60[illegible]) [illegible]
Fax (60[illegible]) [illegible]

Client : Northern Analytical Laboratories   15 Samples
Project : N.C. [illegible]   [illegible]   [041612:04:49:80[illegible]]

Out : May 08, 1998   Page [illegible] of [illegible]
In : May 06, 1998   Section [illegible] of [illegible]

Sample Name		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
772	P	840	5.5	6998	35	38	<	<	<	4	<	125	4.8	9	13	31	<	48	30	280	2	1[illegible]4	[illegible]	1	0.01	0.49	4.90	6.43	0.35	0.01	<	0.04
775	P	10	1.7	1620	18	103	[illegible]	[illegible]	<	3	<	<	2.3	[illegible]	12	126	<	73	16	651	3	3[illegible]3	[illegible]	1	<	1.01	6.96	2.72	1.06	0.19	<	0.02
776	P	20	2.6	7245	16	96	<	<	<	2	<	<	4.6	16	12	63	<	40	19	806	3	292	[illegible]	2	0.01	1.28	9.72	5.39	0.8[illegible]	0.07	<	0.03
777	P	12	1.4	5283	20	60	7	<	<	3	<	<	2.4	11	17	59	11	62	21	371	3	55	[illegible]	1	0.05	0.94	4.22	3.48	0.8[illegible]	0.17	<	0.05
778	P	<	0.3	191	8	15	24	<	<	5	<	<	0.7	5	10	79	<	52	12	118	7	203	5	1	0.05	1.03	3.64	0.97	0.30	0.02	0.04	0.08
779	P	<	1.0	77	33	25	18	<	<	3	<	<	1.4	15	19	37	<	66	39	73	8	46	8	1	0.10	0.78	0.73	2.21	0.62	0.13	0.05	0.12
780	P	2	0.6	408	10	52	<	<	<	6	<	<	2.1	19	26	44	<	80	80	140	10	24	7	1	0.15	0.74	0.54	3.49	0.86	0.44	0.03	0.15
781	P	<	0.6	93	418	379	10	<	<	6	<	<	4.6	9	16	44	<	53	63	412	10	173	5	5	0.06	1.11	3.64	2.22	1.30	0.09	0.02	0.11
783	P	44	1.7	3020	8	41	9	<	<	8	<	<	2.1	26	34	91	<	93	102	240	6	83	3	6	0.11	1.46	1.25	3.32	1.59	0.14	0.02	0.14
784	P	2	0.5	393	6	34	11	<	<	16	<	<	2.7	19	48	25	<	133	105	141	5	43	2	4	0.08	1.54	0.94	4.19	1.54	0.06	0.03	0.15
785	P	4	0.6	617	5	35	6	<	<	7	<	<	1.5	15	16	42	<	68	44	76	3	32	7	1	0.08	0.87	0.56	2.15	0.98	0.40	0.04	0.05
786	P	<	0.1	80	8	197	16	<	<	6	<	<	3.6	8	7	54	<	46	31	82	4	47	3	2	0.06	0.91	1.00	1.59	1.05	0.33	0.03	0.05
787	P	12	8.1	3222	11	168	21	<	<	4	<	<	2.8	125	39	40	<	64	39	54	4	54	12	2	0.11	0.89	1.72	2.90	0.59	0.17	0.01	0.09
788	P	2	<	117	<	8	<	<	<	2	<	<	1.1	13	16	34	<	31	10	53	9	30	5	<	0.04	0.29	0.80	1.79	0.11	0.02	0.03	0.11
789	P	28	1.4	5321	<	18	<	<	<	2	<	<	1.5	4	4	34	<	62	12	221	<	17	18	1	0.05	0.49	3.52	2.29	0.04	0.05	<	0.03
790	P	<	<	106	<	6	<	<	<	13	<	<	1.4	9	10	39	<	22	12	68	6	47	5	<	0.05	0.44	0.93	2.25	0.12	0.04	0.04	0.10
791	P	<	<	67	3	18	<	<	<	5	<	<	1.4	10	9	65	<	40	32	125	5	32	1	1	0.10	0.78	0.41	2.28	1.04	0.22	0.04	0.10
792	P	3	0.1	202	3	24	<	<	<	5	<	<	1.6	12	6	42	<	45	69	125	4	31	1	3	0.14	0.94	0.56	2.64	1.03	0.43	0.04	0.10
793	P	22	0.9	1742	3	17	10	<	<	9	<	<	1.7	8	14	14	<	43	19	240	4	22	7	1	0.04	0.70	2.66	2.64	0.19	0.03	<	0.09

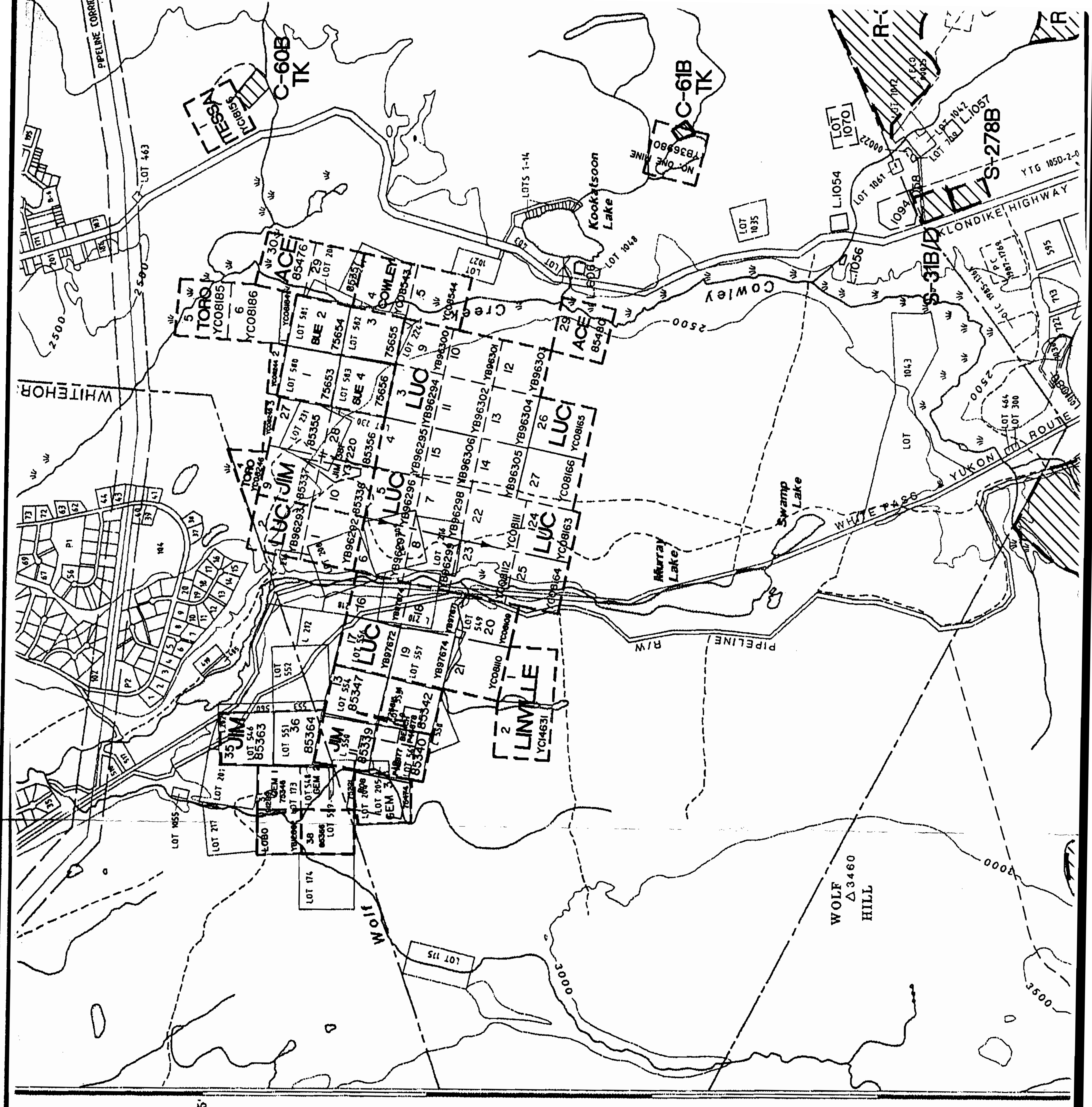

fig 2 claim map Toro claims

105D-10

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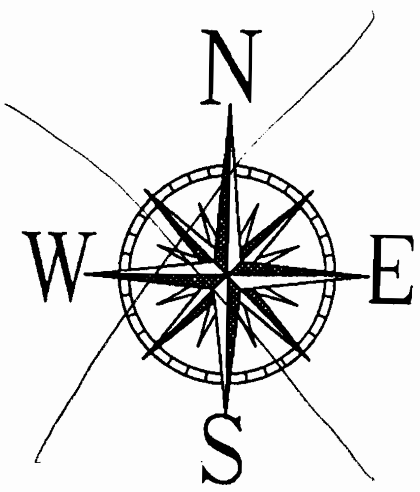
METRES 1000 0 1000 2000 METRES
FEET 1500 0 1500 3000 4500 6000 7500 9000 10500 FEET



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