

MAP NO.: ASSESSMENT REPORT X
116 A/4,5 PROSPECTUS
116 B/1,8 CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 092912
MINING DISTRICT: Dawson
TYPE OF WORK: Geology, geochemistry

REPORT FILED UNDER: Tombstone Explorations Co. Ltd.

DATE PERFORMED: August 12 to September 8, 1990

DATE FILED: December 24, 1990

LOCATION: LAT.: 64° 15'N

AREA: Tombstone Mountains

LONG.: 137° 55'W

VALUE \$: 25,150.00

CLAIM NAME & NO.: LORRIE 1-4 YB 17448-17451
LORRIE 5-8 YB 17909-17912
LORRIE 9-16 YB 05584-05591
LORRIE 17-23 YB 17913-17919
LORRIE 24-56 YB 23265-23297
LORRIE 80-81 YB 23299-23300
LORRIE 101-124 YB 31145-31168
JAMIE 5-215 YB 30680-30890

WORK DONE BY: H.J. Keyser (Aurum Geological Consultants Inc.)

WORK DONE FOR: Tombstone Explorations Co. Ltd.

DATE TO GOOD STANDING:

REMARKS: MINFILE #116 A - 12, 13, 21

Gold and silver are hosted in skarns, in vein-type structures cutting multiple lithologies, and in disseminated sulphides in sediments. Base metals occur in variably remobilized exhalative stratiform massive sulphides in sediments. Gold and silver values of up to 40 g/t and 400 g/t have been obtained.

indexed Feb 20/91
summarized Feb 25/91

092912

**REPORT ON THE 1990
GEOLOGICAL AND GEOCHEMICAL
EXPLORATION WORK ON THE
LORRIE PROPERTY**

Dawson M.D., Yukon
August 12-September 8, 1990

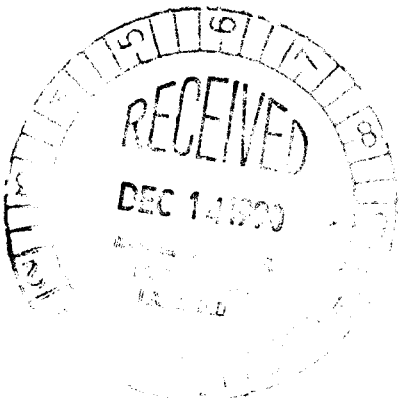


Claims: Lorrie 1-4 (YB17448-17451)
Lorrie 5-8 (YB17909-17912)
Lorrie 9-16 (YB05584-55591)
Lorrie 17-23 (YB17913-17919)
Lorrie 24-56 (YB23265-23297)
Lorrie 80-81 (YB23299&23300)
Lorrie 101-124 (YB31145-31168)
Jamie 1-4 (YB17905-17908)
Jamie 5-215 (YB30680-30890)

Location: 1. 77 km NE of Dawson, Yukon
2. NTS Sheets 116 A/4, A/5, B/1, B/8
3. Latitude 64° 15' N
Longitude 137° 55' W

For: **Tombstone Explorations Co. Ltd.**
P.O. Box 265
Dawson City, Yukon
Y0B 1G0

By: Harmen J. Keyser, B.Sc., FGAC, and
John L. Laudon, M.S.
Aurum Geological Consultants Inc.
412-675 West Hastings Street
Vancouver, B.C.
V6B 1N2



November 30, 1990

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Lining Act and is allowed as
representation work in the amount
of \$ 25,150.00.

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

SUMMARY

Tombstone Explorations Co. Ltd.'s *Lorrie* Property consists of 335 contiguous mineral claims in the Dawson Mining District, Yukon. It is accessible by helicopter from Dawson.

Precambrian to Mesozoic sedimentary rocks of the Selwyn Basin underlie most of the property. Lithologies include argillite, limestone, and quartzite. Syenitic plugs intrude the sediments in at least six different areas on the property. The intrusions have resulted in contact metamorphic aureoles of variable biotite and calc-silicate hornfels enriched in iron, base metals, and locally, precious metals. A similar geologic setting hosts significant new gold mineralization on Noranda's Brewery Creek Property.

Results of exploration carried out to date has identified over 40 vein-type gold and silver bearing occurrences consisting of both bedrock mineralization and float with an assumed local bedrock source. Most of the mineralization appears to be vein-type gold and silver associated with chalcopyrite, arsenopyrite, and quartz restricted to syenite-sediment contact zones. Skarn-type mineralization has also been developed in calcareous sediments adjacent to syenite intrusives. High gold and silver values (up to 40 g/t and 400 g/t respectively) have been obtained from relatively narrow widths (up to one meter). Lower gold values are also present with sulfides disseminated in sediments proximal to contact zones.

Mineral exploration targets identified on the *Lorrie* Property consist of: (1) gold and silver hosted in vein-type structures cutting multiple lithologies, (2) gold and silver hosted in skarns, (3) gold and silver with disseminated sulfides in sediments, and (4) base metals in variably remobilized exhalative stratiform massive sulfides in sediments. Because of the high frequency of gold and silver-bearing veins, skarns, and disseminations in the intrusive contact zones, potential exists for developing large tonnage deposits.

Based on these results, continued exploration consisting of orthophoto preparation, air photo interpretation, prospecting, geological mapping, geochemistry, geophysics, and trenching are warranted and recommended.

TABLE OF CONTENTS

INTRODUCTION	1
LOCATION AND ACCESS	2
PROPERTY	4
HISTORY	6
CLIMATE, TOPOGRAPHY, AND VEGETATION	7
GEOLOGY	8
Regional Geology	8
Geology of the Lorrie Property	10
MINERALIZATION	12
GEOCHEMISTRY	14
Rock Samples	14
Stream Sediment Samples	17
Soil Samples	21
CONCLUSIONS AND RECOMMENDATIONS	22
REFERENCES	24
STATEMENT OF QUALIFICATIONS (HJK)	25
STATEMENT OF QUALIFICATIONS (JLL)	26
STATEMENT OF COSTS	27

List of Tables

Table 1; Statistical Analyses of Geochemistry:	15
--	----

List of Figures

Figure 1; Location Map - 1:1,000,000:	3
Figure 2; Claim Location - 1:77,000:	5
Figure 3; Regional Compilation Map - 1:250,000:	9
Figure 4; Property Geology - 1:17,500:	in pocket
Figure 5; Rock Geochemistry - 1:17,500:	in pocket
Figure 6; Rock Geochemistry, Au - 1:77,000:	16
Figure 7; Rock Geochemistry, Cu - 1:77,000:	18
Figure 8; Sediment and Soil Geochemistry - 1:17,500:	in pocket
Figure 9; Sediment Geochemistry, Au - 1:77,000:	19
Figure 10; Sediment Geochemistry, Cu - 1:77,000:	20

List of Appendices

Appendix A; Analytical Results
Appendix B; Rock Sample Descriptions
Appendix C; Geochemical Histograms

INTRODUCTION

This report was prepared at the request of Mr. Simon Ridgway, President of Tombstone Explorations Co. Ltd. Its purpose is to assess the economic potential of the Company's *Lorrie* Property through a description of exploration work carried out in 1990.

The property is located about 77 kilometers northeast of Dawson City, Yukon and is accessible by helicopter.

Mineral exploration work completed during the period August 12 to September 8, 1990 consisted of prospecting, geological mapping, geochemical sampling, and claim staking from six different fly camp locations on the property. The work was carried out by S. Ridgway, Prospector, J. Laudon, Geologist, and W. McIntyre, Prospector of Tombstone Explorations Co. Ltd.; and J.P. Jutras, Geologist of Placer Dome Inc. H. Keyser, B.Sc., FGAC of Aurum Geological Consultants Inc. advised on several geological and geochemical investigations.

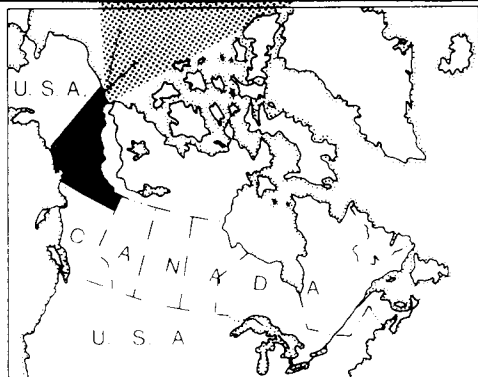
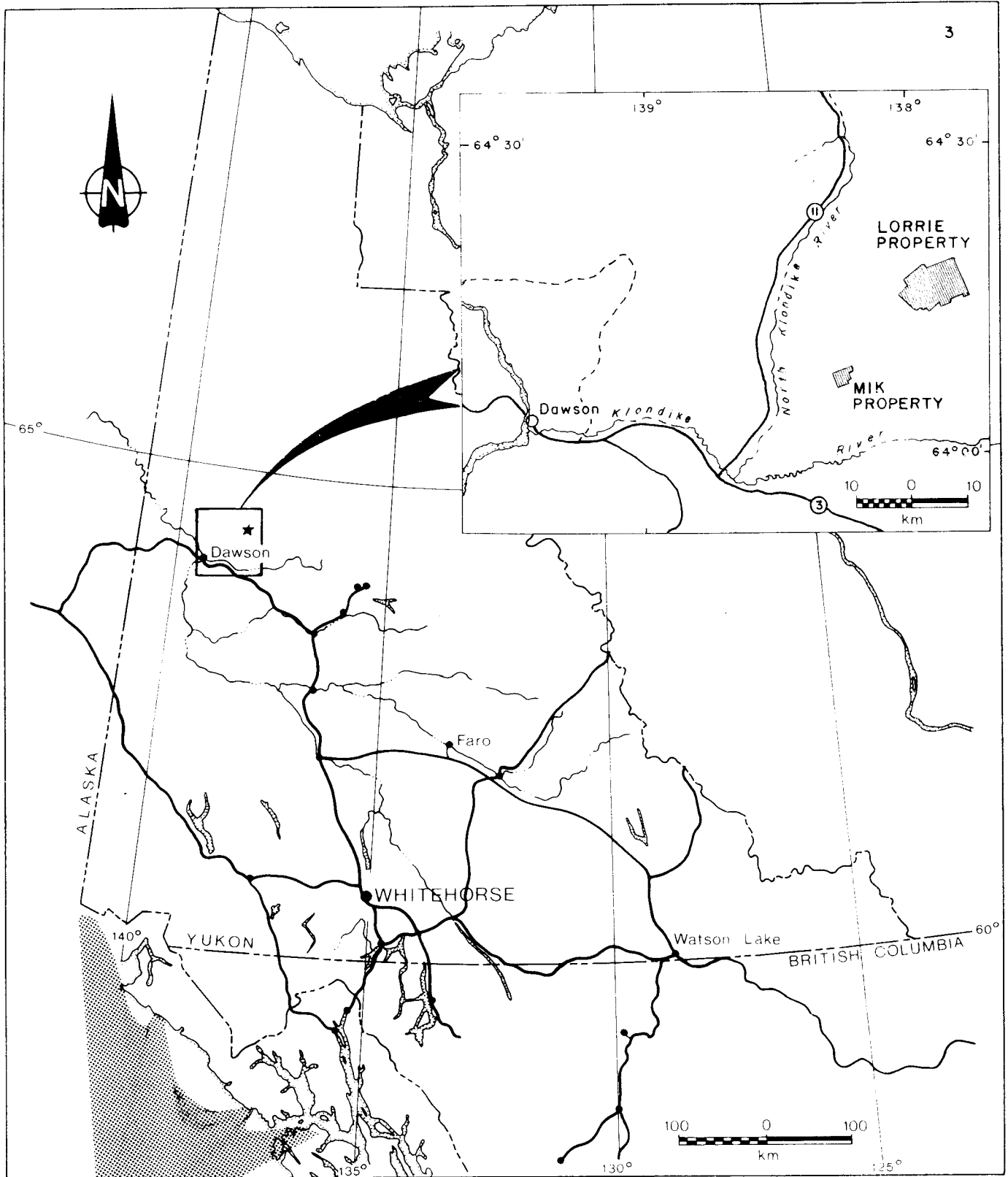
Helicopter charter for camp moves was provided by Trans North Air and Capital Helicopters, both of Dawson, Y.T. Analytical work was performed by Northern Analytical Laboratories Ltd. of Whitehorse, Yukon and Bondar-Clegg & Company Ltd. of North Vancouver, B.C.

LOCATION AND ACCESS

The Lorrie Property area is located in central Yukon, about 77 kilometers northeast of Dawson City (Figure 1), at geographic co-ordinates $64^{\circ} 15'$ North Latitude and $137^{\circ} 55'$ West Longitude (NTS 116 A/4, 116 A/5, 116 B/1, 116 B/8). The property lies in the headwaters of Brewery and Aussie Creeks.

Access to the property can be gained only by helicopter out of Dawson, a one-way flight time of about 30 minutes. Noranda Exploration Co. Ltd. has recently completed a 4WD road to their Brewery Creek property; the end of this road comes to within 25 km of the Lorrie Property.

The 1990 exploration program was conducted out of fly-camps at six different locations, averaging four days at each site, with daily foot traverses from camp.



TOMBSTONE EXPLORATIONS CO.LTD.

LORRIE PROPERTY

LOCATION

Aurum Geological Consultants Inc. Date NOV 1990

NTS 116 A & 116 B

Drawn by GS Figure 1

PROPERTY

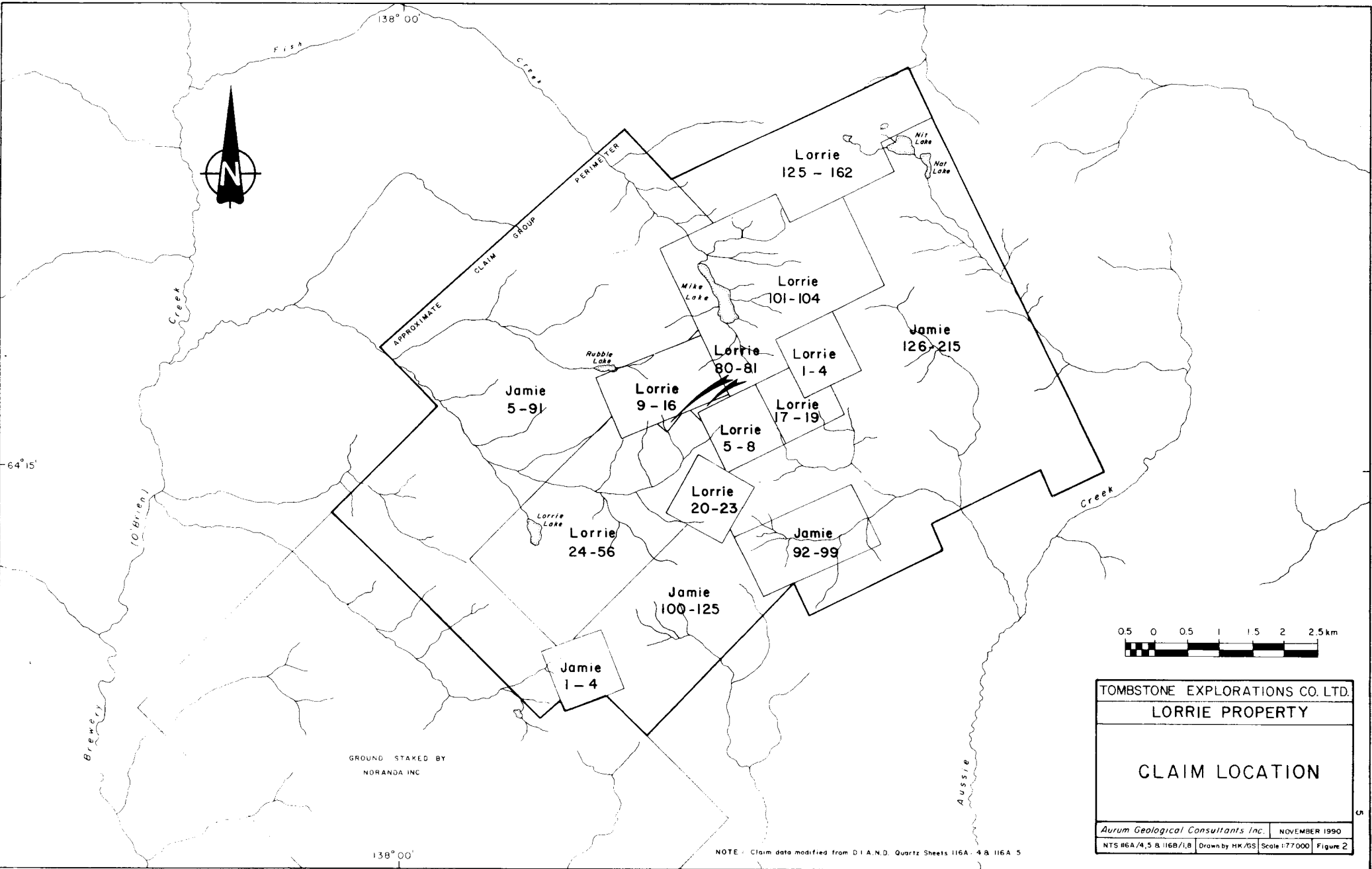
The Lorrie Property consists of 335 unsurveyed two-post mineral claims staked according to the Yukon Quartz Mining Act. They cover about 6,750 hectares in one contiguous block in the Dawson Mining District. Claim data are as follows:

Claim Name	Grant No.	Expiry Date *
Lorrie 1-4	YB17448-17451	Dec. 31, 1991
Lorrie 5-8	YB17909-17912	Dec. 31, 1991
Lorrie 9-16	YB05584-55591	Dec. 31, 1991
Lorrie 17-23	YB17913-17919	Dec. 31, 1991
Lorrie 24-56	YB23265-23297	Dec. 31, 1991
Lorrie 80-81	YB23299-23300	Dec. 31, 1991
Lorrie 101-124	YB31145-31168	Dec. 31, 1991
Lorrie 125-162	YB39201-39238	Oct. 12, 1991
Jamie 1-4	YB17905-17908	Dec. 31, 1991
Jamie 5-215	YB30680-30890	Dec. 31, 1991

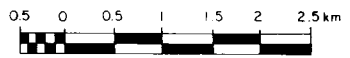
* pending approval of 1990 assessment work.

The *Lorrie* and *Jamie* claims are shown on Yukon Quartz Sheets 116-A-4, 116-A-5, 116-B-1 and 116-B-8, and are known collectively as the *Lorrie Property*. For assessment purposes, this report does not apply to the Lorrie 125-162 claims (YB39201-39238).

Walhala Explorations Ltd. acquired the *Lorrie* and *Jamie* claims by staking during the period 1987 to 1990. Walhala sold them to Tombstone Explorations Co. Ltd. in June 1990, retaining a 1.5% Net Smelter Return Interest.



GROUND STAKED BY
NORANDA INC



TOMBSTONE EXPLORATIONS CO. LTD.	
LORRIE PROPERTY	
CLAIM LOCATION	
Aurum Geological Consultants Inc.	NOVEMBER 1990
NTS #6A/4,5 & 116B/1,8	Drawn by HK/GS Scale 1:77000 Figure 2

NOTE - Claim data modified from D.I.A.N.D. Quartz Sheets 116A-4 & 116A-5

HISTORY

Placer gold was first discovered in the Klondike River-Dawson area in 1896 (Cockfield, 1921). Recorded total production exceeds 10,000,000 ounces. There are no known bedrock sources for the placer gold, and there has been no significant lode gold production in the Dawson area.

The first known bedrock gold discovery in the *Lorrie* Property area was made by Conwest Exploration in 1966 at Antimony Mountain, 15 kilometers northwest of the *Lorrie* Property. This area is now controlled by Total Energold, who completed a diamond drilling program in 1989.

Hart River Mines Ltd. located claims in the Mike Lake area in the mid 1960's (Holcapek, 1975). The ground was re-staked by Canalta Resources, who carried out a program of trenching and diamond drilling (total of four drill holes) in 1975 on gold-bearing vein-type structures. Various claims were located and explored in the Mike Lake area during the period 1966 to 1990 by several companies including Gallagher Explorations, Belmoral Mines, and Anaconda Canada Exploration (Taylor, 1984 and Hall, 1981). The last of these companies' claim holdings lapsed completely on July 7, 1990.

In 1989, Noranda discovered gold-antimony mineralization at Brewery Creek, 25 kilometers southwest of the *Lorrie* Property, while conducting follow-up exploration on anomalous stream sediment geochemistry (GSC Open File 2176). Exploration work, including trenching and drilling in 1989 and 1990, has outlined the potential for multiple low-grade large-tonnage heap-leachable gold deposits (MacKay, 1990).

Claims comprising the current *Lorrie* Property were staked by Walhala Explorations Ltd. during the period 1987 to 1990. Short programs of prospecting and geological mapping were completed in 1988 and 1989 (Doherty, 1990). In 1990, the claims were sold to Tombstone Explorations Co. Ltd. who carried out the exploration work carried out in this report.

CLIMATE, TOPOGRAPHY, AND VEGETATION

The climate in the area of the *Lorrie* Property is variable, with hot summers and long cold winters. Precipitation is light, averaging about 50 centimeters annually (Green, 1972). The exploration season extends from early June to mid September.

The area of investigation is situated in the Ogilvie Mountains of the Cordilleran physiographic province. Topography is rugged to precipitous as a result of Pleistocene alpine glaciation. Glacial features such as cirques, tarns, aretes, and outwash-filled U-shaped valleys with steep talus aprons are common.

Most of the property is above treeline; which in this area of Yukon is at about 1,200 meters above sea level. Vegetation is restricted to alpine shrubs, grasses, and moss in valleys. Most ridges and scarps are exposed bedrock with very little surficial debris.

GEOLOGY

Regional Geology

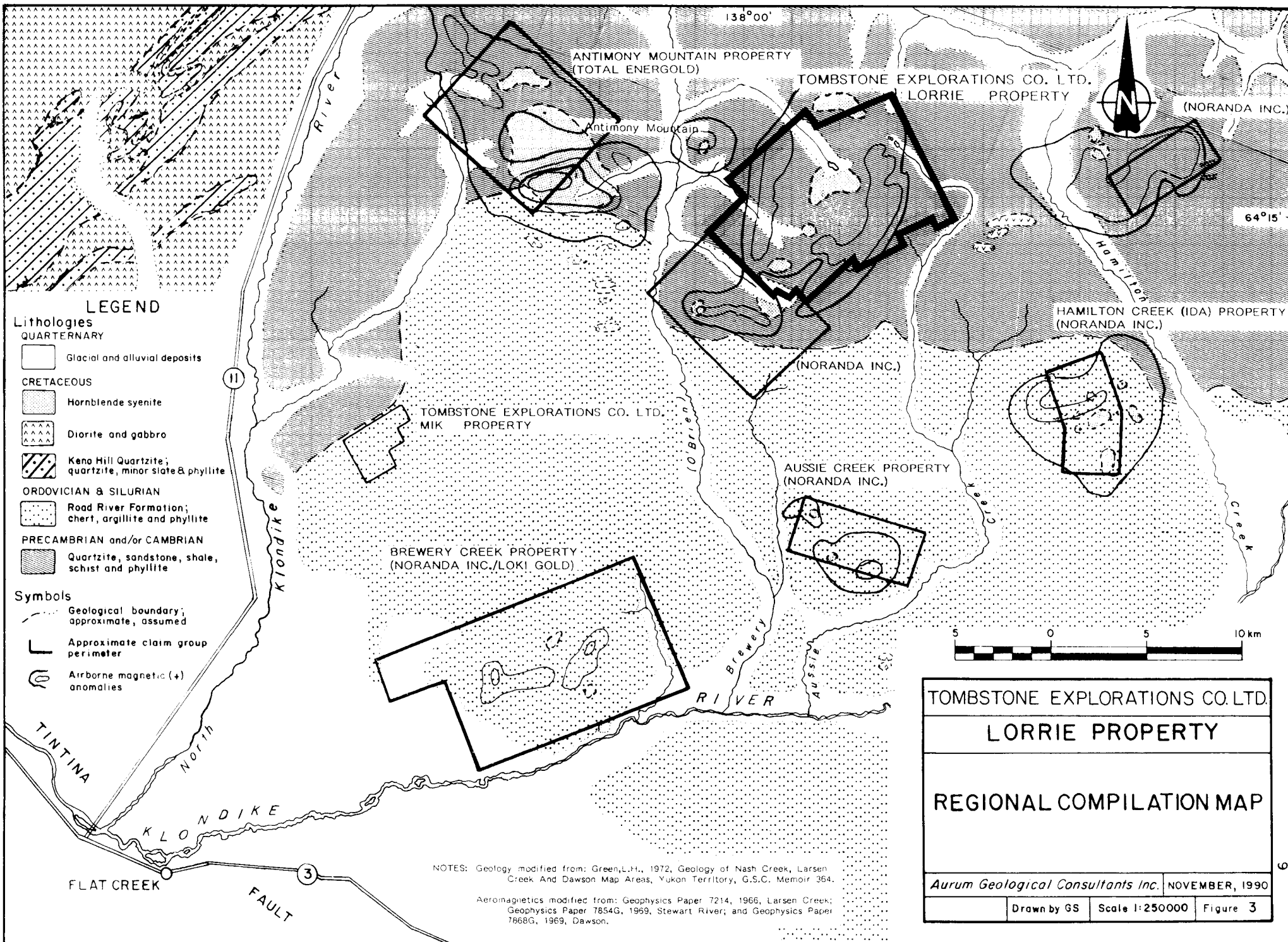
The *Lorrie* Property is situated within the Selwyn Basin northeast of the Tintina Fault, part of the Mackenzie and Rocky Mountain tectonic belt. Regional geology has been previously described by Green (1972) and Tempelman-Kluit (1980).

The Selwyn Basin is comprised of stabilized craton overlain by passive and displaced passive continental margin sediments. Sediments range in age from Proterozoic to Jurassic. Lithologies are dominantly fine grained locally calcareous clastics with minor limestone and chert. Internal structure and stratigraphy of this unit has been poorly documented. In the *Lorrie* Property area, this unit is probably equivalent to the Cambro-Ordovician Kechika Group of Cassiar Platform.

Large bodies of granitic to syenitic rocks intrude the Proterozoic-Paleozoic sediments along a northwest-southeast trending belt that includes the area of the *Lorrie* Property (Figure 3). These rocks have been assigned by Tempelman-Kluit (1980) to the mid-Cretaceous.

Contact metamorphic aureoles in sedimentary rocks enclosing intrusive stocks and plugs are biotite hornfels enriched in iron and, locally, precious metals and base metals. The aureoles have a strong positive magnetic signature, with all known intrusives in the belt contained within areas of high magnetic relief. The larger intrusions have a low magnetic signature surrounded by an area of high relief related to the contact metamorphic halo.

Regional structure is highly influenced by the Tintina Fault, a steeply dipping, northwest trending, dextral fault mapped 45 kilometers southeast of the *Lorrie* Property. It is thought to be age-equivalent with the Cretaceous plutonic belt which parallels the Fault in the *Lorrie* Property area. Two significant north verging regional thrust faults, the Robert Service and Dawson thrusts, displace the Proterozoic passive continental sediments over the Devonian and Jurassic sediments.



TOMBSTONE EXPLORATIONS CO. LTD.
 LORRIE PROPERTY
 REGIONAL COMPILATION MAP

Aurum Geological Consultants Inc. NOVEMBER, 1990

Drawn by GS Scale 1: 250000 Figure 3

NOTES: Geology modified from: Green, L.H., 1972, Geology of Nash Creek, Larsen Creek And Dawson Map Areas, Yukon Territory, G.S.C. Memoir 364.
 Aeronagnetics modified from: Geophysics Paper 7214, 1966, Larsen Creek; Geophysics Paper 7854G, 1969, Stewart River; and Geophysics Paper 7868G, 1969, Dawson.

Geology of the Lorrie Property

Property geology (Figure 4) is much more complex than can be shown on the previously described regional mapping. Rock outcrops on the *Lorrie* Property are restricted to ridges separating broad alluvium-filled glacial valleys. Total bedrock exposure is about 30% of total surface area.

Quartzite with minor conglomerate, argillite and limestone, part of the Late Proterozoic Ekwi Supergroup (also known as "Grit Unit"; map unit PCq), are the oldest rocks exposed on the *Lorrie* Property. This unit is found in flat lying, predominantly east to northeast trending, linear belts interpreted as thrust panels emplaced northward over younger Kechika Group rocks.

On the *Lorrie* Property, the Cambro-Ordovician Kechika Group (map unit COKG) is composed of sedimentary and volcanic rocks dominated by a series of dark fine grained mudstones, siltstones and argillites. This section locally contains significant amounts of quartzite, slate, and calcareous argillite. The strata are regularly layered and the bedding varies in thickness from a few millimeters to five centimeters. Irregularly shaped calcareous clasts are present, resulting in a distinctive differential weathering pattern.

Volcanic flows ranging in composition from rhyolite to basalt are interbedded with shale at the west end of the property. These rocks (map unit COVs) are mapped as eugeosyncline equivalents to the Kechika Group.

At least six separate intrusive bodies are present on the *Lorrie* Property. They are composed of white to grey porphyritic syenite with minor granodiorite (map unit Ksy). Syenite is composed of 60% subhedral orthoclase with prominent Carlsbad twinning, 25% mafic minerals (biotite, hornblende, clinopyroxene, opaques), 15% plagioclase, and 5% quartz (Barrette, 1982). Potash feldspar phenocrysts are up to five centimeters in length. Ground mass is composed of fine grained potash feldspar and minor quartz and plagioclase. Intrusions are texturally and mineralogically consistent except along the contact zone where it is occasionally chilled (fine grained) or contaminated by wall rock. The largest of the intrusive bodies, exposed immediately south of Mike Lake, is about two kilometers in diameter.

Dikes, conjugate dikes, and dike swarms are restricted to the periphery of intrusive bodies. They range in composition from syenite/trachyte to pyroxene lamprophyre (map unit Kap). Textures are both porphyritic and equigranular, and typically fine grained. Although they are most commonly hosted by sedimentary rocks adjacent to intrusive plugs, dikes have also been mapped cutting the plugs. They are up to 15 meters wide, and individual dikes have been traced along strike for over one kilometer. The dikes are interpreted as late stage magmatic differentiates emplaced along zones of structural weakness, including faults and sedimentary bedding planes..

Sediments are hornfelsed to a competent calc-silicate unit at intrusive contacts, clearly overprinting regional greenschist metamorphism. Metamorphic zoning in sediments is shown by a decrease in the amount of calcite and an increase in diopside, tremolite, biotite, quartz, and feldspar toward syenite (Barrette, 1980). Hornfelsed zones are commonly gossanous due to the oxidation of secondary pyrite and pyrrhotite in the metamorphic aureole. Gossans not directly associated with exposed intrusive plugs and the overall size of the metamorphic aureole on the *Lorrie* Property are suggestive of a large buried intrusion.

Structural mapping of the *Lorrie* Property is incomplete. The dominant bedding attitude of both Ekwi and Kechika strata is east-west with a moderate southward dip. It appears that axial planes of large scale open folds in Kechika Group rocks trend northeast and dip vertically. There is a poorly developed axial plane cleavage which parallels southwestward plunging fold axes, and appears to continue through intrusive plugs. Structure becomes very complex adjacent to the plugs, with small-scale recumbent and overturned folding. Deformation styles include both brittle and ductile.

Faults have been mapped on most areas of the *Lorrie* Property. Thrust faults are suspected as forming the subhorizontal contact between Ekwi strata and underlying, but younger, Kechika strata. Unrelated steeply dipping faults with an unknown movement direction strike dominantly northeast, discordant with the regional northwest trend. Faulting, like folding, becomes complex adjacent to intrusive plugs.

MINERALIZATION

Precious metal mineralization was first discovered on ground now covered by the *Lorrie* Property in the 1960's (Needoba and Philp, 1973 and Holcapek, 1975). Exploration in 1975 by Canalta Resources on two separate gold-bearing vein-type structures in the Mike Lake area yielded results up to 24.5 g/t gold across 1.28 meters in a diamond drill hole, and 52.6 g/t gold across 0.30 meters in a trench (Holcapek, 1975). Subsequent work by Anaconda in 1981 (Hall, 1981) and Walhala in 1989 (Doherty, 1990) identified elevated base metal values in black shales of the Kechika Group.

On Noranda's Brewery Creek Property, 25 kilometers southwest of the *Lorrie* Property, gold mineralization is hosted in multiple structurally disturbed syenite-sediment contact zones. Intrusive contacts may be coincident with regional thrust faults. Grades of 2-4 g/t gold over 10's of meters have been reported (MacKay, 1990). The on-going exploration target at Brewery Creek is open-pittable gold mineralization.

The main purpose of the 1990 exploration program carried out by Tombstone Explorations was to identify new areas of gold mineralization by reconnaissance prospecting of talus slopes. Previously known gold occurrences were not examined in detail. Currently, there are eight known bedrock gold occurrences, and an additional 25 areas where gold-bearing float has been located with no apparent bedrock source. Many of these occurrences are new.

Gold on the *Lorrie* Property is usually hosted in arsenopyrite-chalcopyrite-pyrrhotite-pyrite veins. Subordinate amounts of enargite, stibnite, galena, sphalerite, magnetite, and jamesonite may also be present. Gangue mineralogy is typified by quartz-sericite-chlorite-carbonate-lithic fragments. Veins are developed along jointing planes, most frequently in calcareous argillite adjacent to intrusive contacts. The majority of veins are adjacent and parallel to fine grained syenitic dikes emplaced along jointing planes. However, gold-bearing quartz-arsenopyrite veins and vein-type float have also been located within syenite plugs, and in areas underlain by sediments with no obvious relation to intrusive contacts.

Textures and compositions of most exposed veins are indicative of a conventional hydrothermal origin. Mineralogical zoning is shown by gangue minerals (quartz and calcite) in the center of veins enveloped by sulfide minerals toward vein selvages. However, vein-like structures developed along intrusive

dikes have sulfides concentrated adjacent to the dike, which grade outward into disseminated sulfides and then unmineralized wallrock. Distribution of sulfide mineralization and local concentrations of diopside and tremolite suggest a pyrometasomatic affect.

Wallrock alteration consists essentially of pyritization, but also variable amounts of silicification, sericitization, and carbonatization. The altered zones form prominent rusty gossans for up to five meters from mineralization. The proximity of mineralized veins to intensely fractured zones has resulted in deep weathering of sulfides.

Known vein-type structures on the *Lorrie* Property are restricted to within 100 meters of intrusive contact zones. Only one of the eight known veins is hosted by syenite; the remaining seven are in calcareous argillite. The veins follow zones of structural or stratigraphic weakness including joints, faults, bedding planes, and dikes.

Veins strike predominantly east-west, with a steep to vertical dip. Widths range up to four meters, but usually less than one meter. They have been traced in discontinuous exposures for strike lengths of up to 400 meters. Strike lengths may be longer, but extensive overburden covered areas limit mapping.

Grades exceeding 40 g/t gold, 400 g/t silver, and 3% copper have been returned from selected grab samples of veins from the *Lorrie* Property (Doherty, 1990 and Hall, 1981). Samples collected in 1990 ranged up to 14.78 g/t gold, 691.4 g/t silver, 9.08% lead, 11.8% zinc, and 1.14% copper.

Selected grab samples of gossanous hornfelsed black argillite with stratabound galena and sphalerite (samples RP-90-16 and RP-90-17) returned up to 9.08% lead, 11.8% zinc, and 691.4 g/t silver. These base metal concentrations may represent a variably hornfelsed, recrystallized and remobilized, stratabound polymetallic sulfide occurrence.

GEOCHEMISTRY

A total of 200 rock samples, 129 stream sediment samples, and eight soil samples (total 337 samples) were collected as part of the 1990 exploration program on the *Lorrie* Property. Sampling was completed over most of the ground on a reconnaissance basis.

Analytical work was performed by Northern Analytical Laboratories Ltd. and Bondar-Clegg & Company Ltd. Soils and stream sediments were sieved to a -80 inch mesh. Gold analyses were by fire assay techniques using a one assay-ton sample and an atomic absorption finish. Total silver, copper, lead, zinc, arsenic, and antimony were determined using an aqua regia digestion and an atomic absorption finish. Samples exceeding upper geochemical limits for gold were fire assayed. Selected samples were also analyzed for nickel, cobalt and tungsten.

Analytical results of the geochemical data are presented in Appendix A. Logarithmic frequency distribution histograms for these data are in Appendix C. Statistical analyses for the data are in Table 1.

Rock Samples

Rock samples (Figure 5) were collected from observed mineralized, altered, or gossanous outcrops and float. Most of the rock sampling was from float found in scree and talus slopes, presumably derived from bedrock occurrences upslope.

Gold values (Figure 6) in rock range from less than 5 ppb to greater than 5000 ppb (assayed to 14.78 g/t). The average value is 342 ppb with a standard deviation of 979. Six samples exceeded the geochemical limit of 5000 ppb. High gold values are associated with sulfide mineralization.

Silver values range from less than 0.1 ppm to greater than 100 ppm (assayed to 691.4 g/t). The average value is 4.15 ppm with a standard deviation of 14. Two samples exceeded the geochemical limit of 100 ppm. High silver values are associated with sulfide mineralization.

TABLE 1. Statistical Analyses of Geochemical Data on Lorrie Property

CORRELATION MATRIXRock Geochemical Data
200 samples

	Au	Ag	Cu	Pb	Zn	As	Sb
Au	1.00000						
Ag	0.00444	1.00000					
Cu	0.02853	0.17096	1.00000				
Pb	0.00035	0.48166	0.00017	1.00000			
Zn	0.00011	0.51331	0.00113	0.91469	1.00000		
As	0.02454	0.03372	0.07936	0.00213	0.00369	1.00000	
Sb	0.00004	0.58200	0.00914	0.78771	0.76329	0.00608	1.00000

THRESHOLD LEVELS

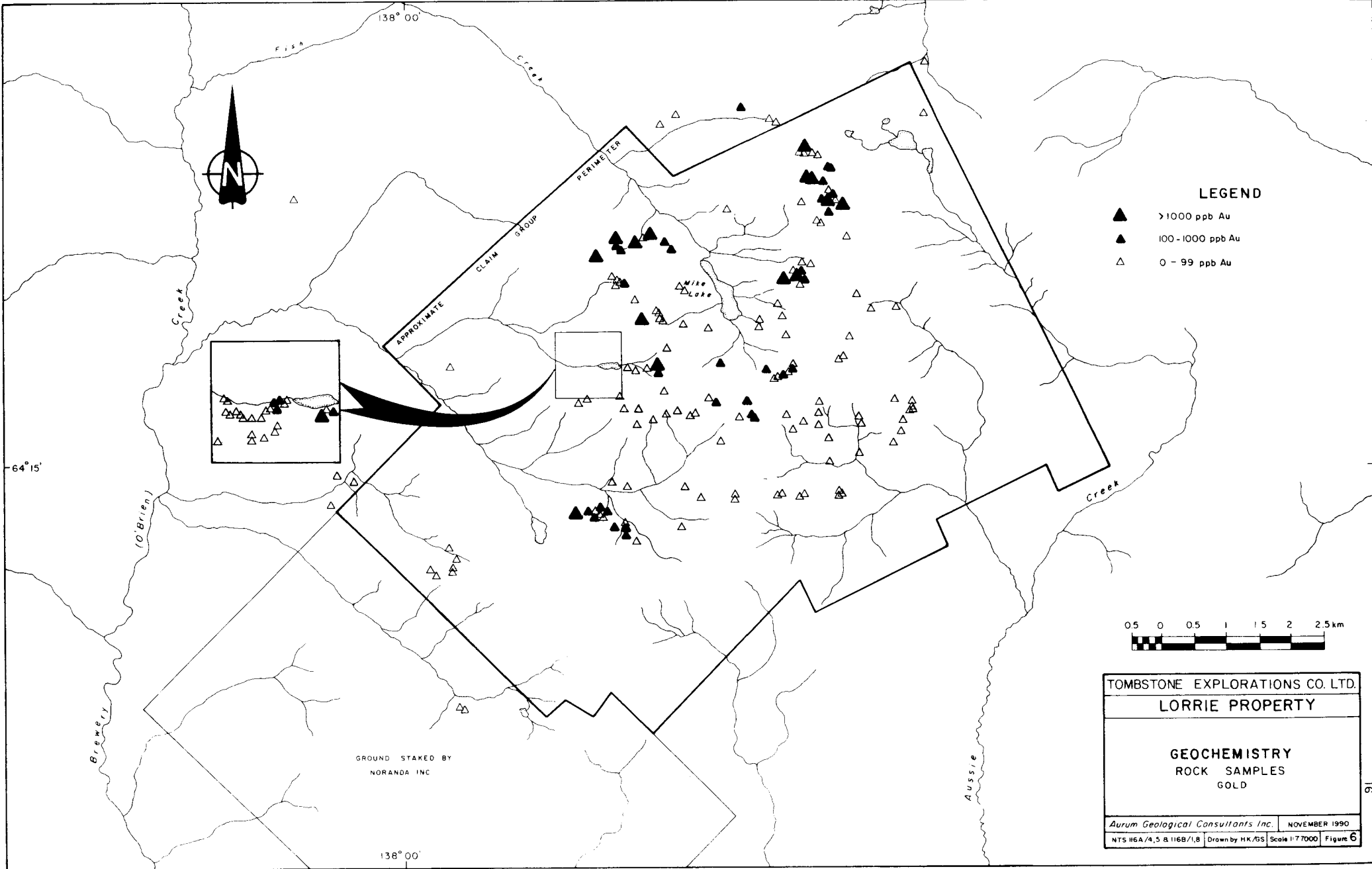
200 Rock Samples

Element	Average	Standard Deviation	Mean + 1 Std.	Mean + 2 Std.	Mean + 3 Std.
Au (ppb)	342	979	1321	2300	3279
Ag (ppm)	4.15	14.11	18.27	32.38	46.49
Cu (ppm)	1191	2366	3557	5923	8289
Pb (ppm)	229	1095	1324	2419	3514
Zn (ppm)	218	1047	1265	2312	3359
As (ppm)	2256	3523	5779	9302	12825
Sb (ppm)	138	621	759	1380	2001

THRESHOLD LEVELS

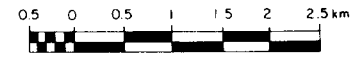
137 Soil and Stream Sediment Samples

Element	Avg.	Std. Dev.	Max/ Min	Mean +1Std.	Mean +2Std.	Mean +3Std.
Au (ppb)	82	152	1270/5	234	386	538
Ag (ppm)	1.84	9.98	56.1/0.1	11.82	21.80	31.78
Cu (ppm)	150	166	1010/8	316	482	648
Pb (ppm)	149	442	4730/10	591	1033	1475
Zn (ppm)	203	198	1340/51	401	599	797
As (ppm)	646	864	6850/17	1510	2374	3238
Sb (ppm)	25	24	209/1	49	73	97



LEGEND

- ▲ > 1000 ppb Au
- ▲ 100 - 1000 ppb Au
- △ 0 - 99 ppb Au



TOMBSTONE EXPLORATIONS CO. LTD.	
LORRIE PROPERTY	
GEOCHEMISTRY	
ROCK SAMPLES	
GOLD	
<i>Aurum Geological Consultants Inc.</i>	NOVEMBER 1990
NTS H6A/4,5 & H6B/1,8 Drawn by HK/GS Scale 1:77000 Figure 6	

GROUND STAKED BY
NORANDA INC

Arsenic values range from less than 1 ppm (one sample) to greater than 10,000 ppm (assayed to 39.8%). The average value is 2256 ppm with a standard deviation of 3523. A total of 25 samples exceeded the geochemical limit of 10000 ppm (1%).

Antimony values range from less than 1 ppm to 6350 ppm. The average value is 137 ppm with a standard deviation of 621.

Copper values (Figure 7) range from less than 1 ppm (one sample) to greater than 10000 ppm (assayed to 1.14%). The average value is 1191 ppm with a standard deviation of 2366. Seven samples exceeded the geochemical limit of 10000 ppm (1%).

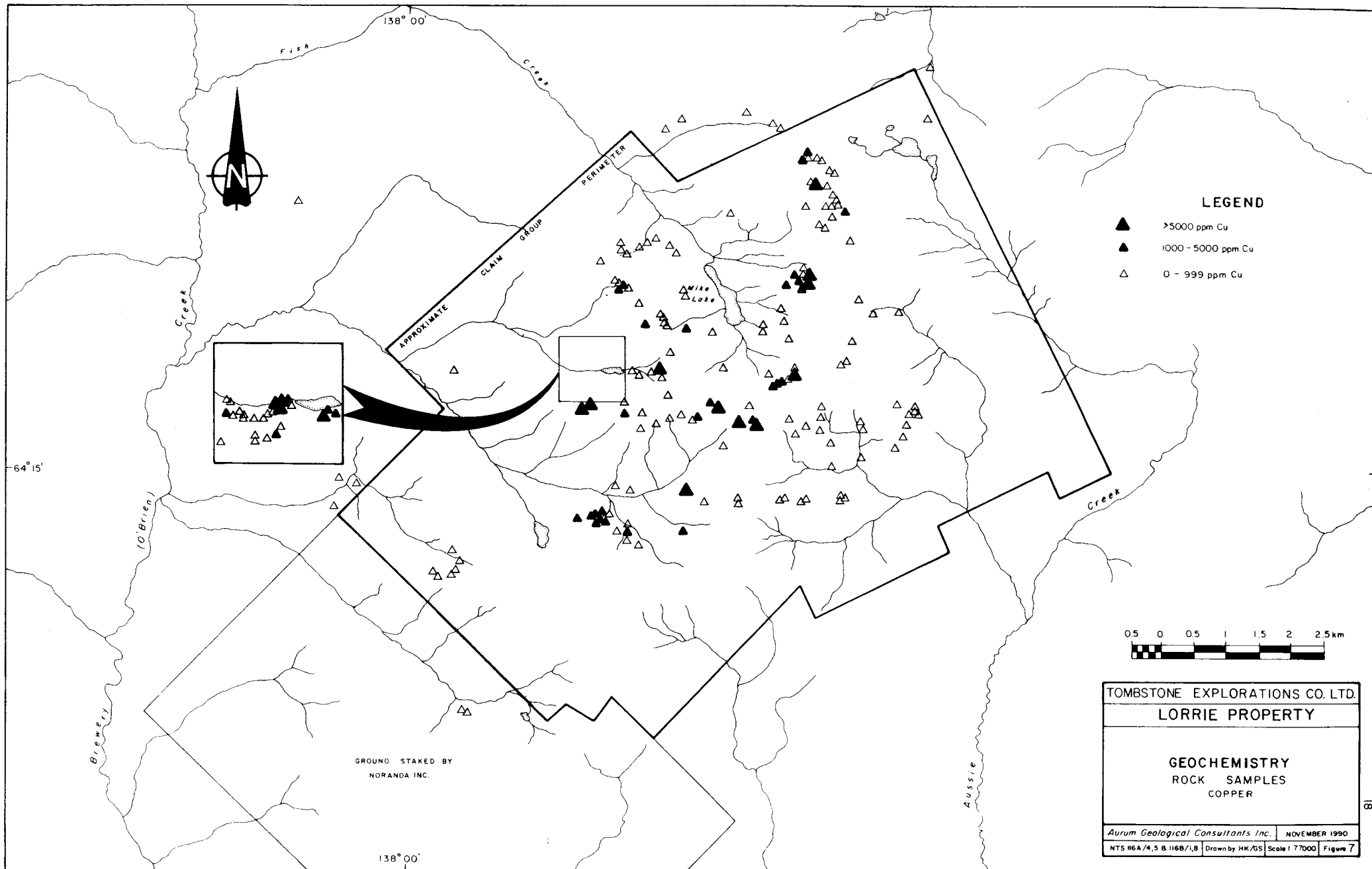
Lead values range from less than 1 ppm to greater than 10,000 ppm (assayed to 9.08%). The average value is 229 ppm with a standard deviation of 1095. Two samples exceeded the geochemical limit of 10000 ppm (1%).

Zinc values range from less than 1 ppm (one sample) to greater than 10,000 ppm (assayed to 11.8%). The average value is 218 ppm with a standard deviation of 1047. Two samples (the same samples which exceeded the limit for lead) exceeded the geochemical limit of 10000 ppm (1%).

Stream Sediment Samples

Stream sediment samples (Figure 8) were collected from most drainages on the *Lorrie* Property and the immediate surrounding area. Subsequent to completion of the sampling, but before analytical results were received, part of this ground (adjoining the southwest corner of the *Lorrie* Property) was staked by Noranda Inc. The sampling density was 1.9 samples per km².

Anomalous results were returned from areas that contain known mineralization, as well as areas where mineralization has not yet been located. However, the majority of anomalous gold (Figure 9) and copper (Figure 10) results are from the Mike, Lorrie, and Rubble Lakes areas.



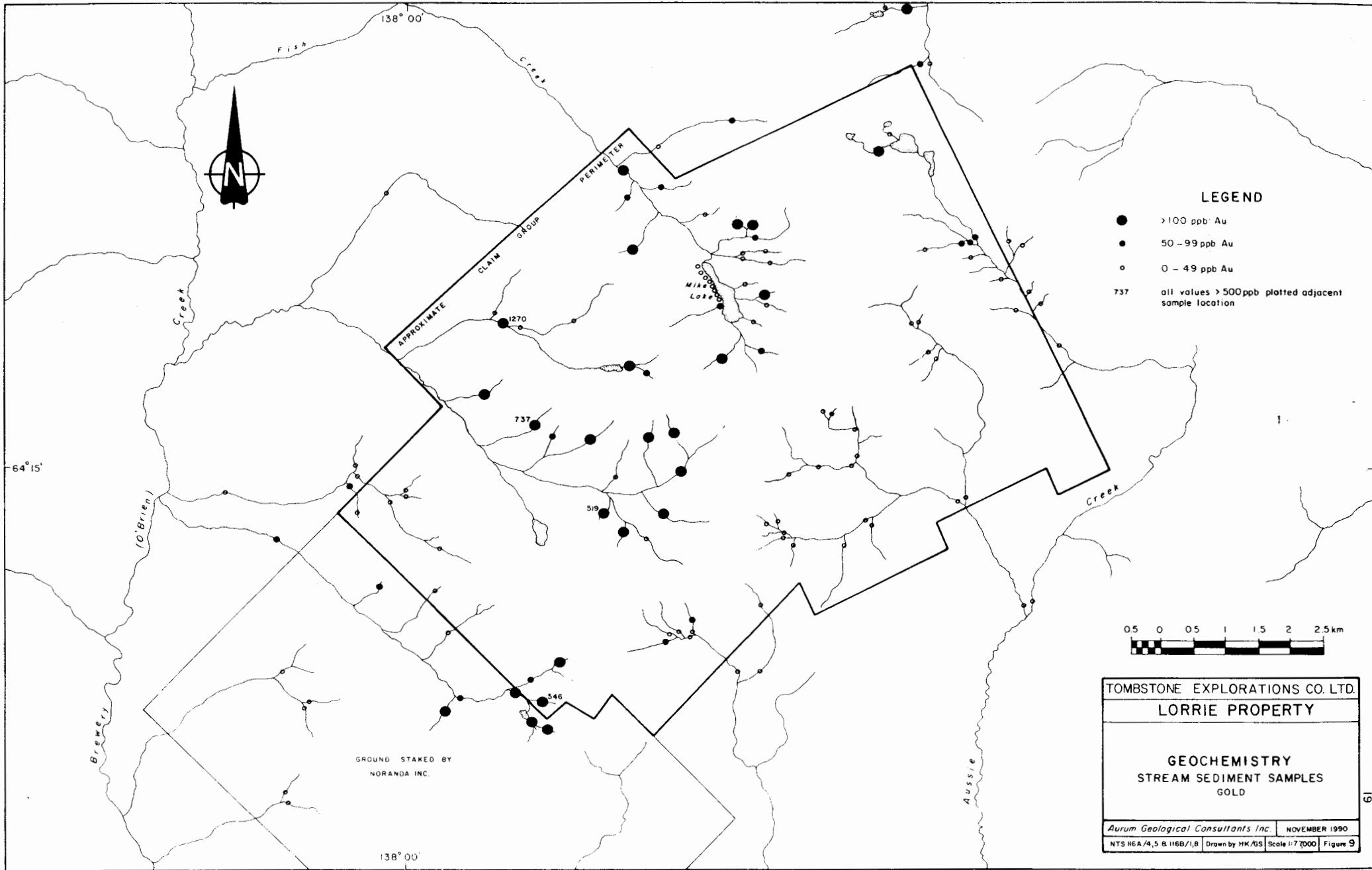
LEGEND

- ▲ >5000 ppm Cu
- ▴ 1000 - 5000 ppm Cu
- △ 0 - 999 ppm Cu



TOMBSTONE EXPLORATIONS CO. LTD.	
LORRIE PROPERTY	
GEOCHEMISTRY	
ROCK SAMPLES	
COPPER	
Aurum Geological Consultants Inc.	NOVEMBER 1990
NTS #6A/4,5 & #6B/1,8	Drawn by HK/GS Scale 1:77000 Figure 7

GROUND STAKED BY
NORANDA INC.

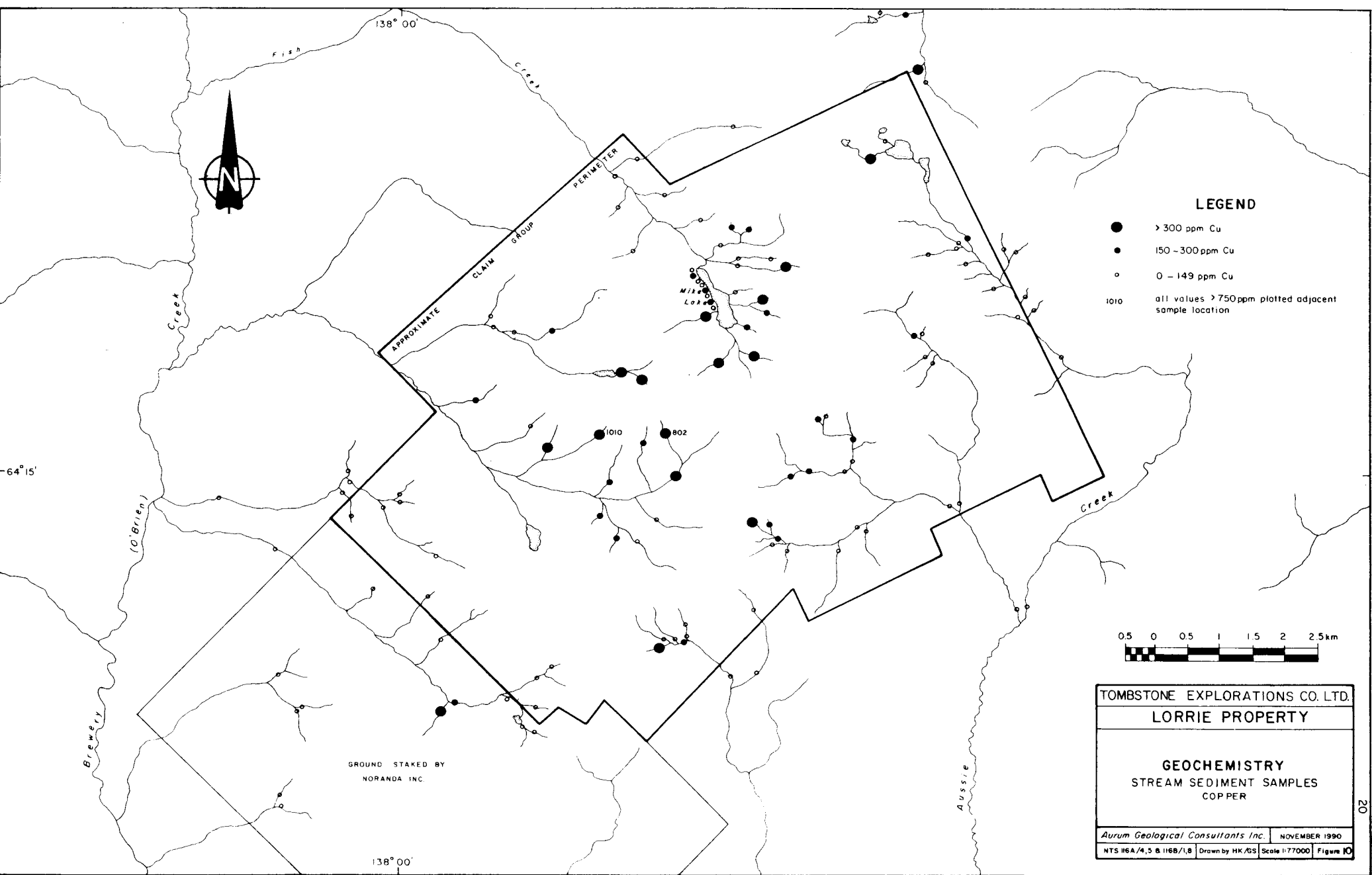


LEGEND

- >100 ppb Au
- 50 - 99 ppb Au
- 0 - 49 ppb Au
- 737 all values > 500ppb plotted adjacent sample location

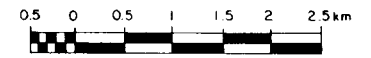


TOMBSTONE EXPLORATIONS CO. LTD.	
LORRIE PROPERTY	
GEOCHEMISTRY	
STREAM SEDIMENT SAMPLES	
GOLD	
<i>Aurum Geological Consultants Inc.</i>	NOVEMBER 1990
NTS 116A/4,5 & 116B/1,8	Drawn by HK/GS Scale 1:7,000 Figure 9



LEGEND

- > 300 ppm Cu
- 150 - 300 ppm Cu
- 0 - 149 ppm Cu
- 1010 all values > 750 ppm plotted adjacent sample location



TOMBSTONE EXPLORATIONS CO. LTD.	
LORRIE PROPERTY	
GEOCHEMISTRY	
STREAM SEDIMENT SAMPLES	
COPPER	
Aurum Geological Consultants Inc.	NOVEMBER 1990
NTS 116A/4, 5 & 116B/1, 8	Drawn by HK/GS Scale 1:77000 Figure 10

GROUND STAKED BY
NORANDA INC.

Soil Samples

A total of eight soil samples were collected from areas underlain by gossanous soil, without any known mineralization nearby. One of the samples, located north of Mike Lake (sample LL-SO-01), returned 64 ppb gold, 6.5 ppm silver, 4730 ppm lead, 1320 ppm zinc, and 1550 ppm arsenic. Another sample collected from a ridge south of Mike Lake (sample number SO-R-01) returned 85 ppb gold, 4.1 ppm silver, 1230 ppm copper, 409 ppm lead, and 8410 ppm arsenic.

CONCLUSIONS AND RECOMMENDATIONS

The *Lorrie* Property claims cover a series of Cretaceous syenite plugs intruding a Precambrian to Jurassic locally calcareous sedimentary basement. Intrusion of the syenite has resulted in deformation and metamorphism of surrounding sediments, and an enrichment of precious metals and related elements in contact zones. The geologic setting is considered to be favorable for hosting precious metal deposits.

The property is a precious metals prospect. Although most of the mineralization may be structurally-controlled hydrothermal quartz veins, some of the occurrences appear to be skarns localized along structural zones of weakness bounded on one side by syenite. Gold mineralization restricted to intrusive contact zones indicates a close similarity between the structural and lithological setting of the *Lorrie* Property and potentially open-pittable gold reserves on Noranda's Brewery Creek Property, located 25 kilometers to the southwest.

In addition to relocating precious metal mineralization in the Mike and Rubble Lakes areas, the 1990 exploration program successfully identified gold-bearing float in talus slopes from areas where mineralization had not previously been known. Over 40 bedrock and float gold and silver occurrences have been located to date. The probability of tracing mineralized float back to its bedrock source is considered good.

Geochemical work carried out in 1990 has identified stream sediment and soil samples with anomalous concentrations of gold, silver, and copper. Results are suggestive of additional bedrock gold-silver mineralization of the type being sought.

High gold contents in individual veins with a known strike length of up to 400 meters establish an exploration target with economic potential. A more significant target is presented by multiple precious metal rich, sulfide bearing, veins, skarns, and disseminations clustered near intrusive contacts. These areas need to be addressed as a single large exploration target. There is also the possibility of identifying stratabound polymetallic sulfides in sediments.

The entire property may be underlain at depth by a single large syenite body, exposed on surface as six discrete plugs. The parent magma to this postulated body is interpreted to be unusually enriched in gold, silver, copper, antimony, and arsenic. Metal-charged fluids derived from late stage magmatic differentiation of the magma were likely emplaced within zones of structural weakness such as contact zones, faults, joints, and bedding planes along the

periphery of the plugs. Such a model explains the presence of skarn-like mineralization in calcareous sediments in contact with syenite dikes, vein-type mineralization cutting multiple lithologies, and disseminated gold-bearing sulfides in sediments, all proximal to intrusive contact zones.

Given the favorable geology, known mineralization, and exploration success so far, the *Lorrie* Property warrants continued mineral exploration. The following work is recommended:

1. Prepare orthophoto base maps and compile all available geological, geochemical, and claim data. It should be possible to improve on current knowledge of structure and lithologic distributions by mapping lineaments and variations in texture visible on air photos.
2. Follow-up prospecting and mapping of mineralized areas, float occurrences, and soil and sediment geochemical anomalies identified in 1990 are required.
3. Geophysical techniques, including Induced Polarization, Electromagnetics, and Magnetics should be carried out, at least on a reconnaissance basis, to aid in understanding the location and geometry of mineralized zones.
4. Trenching of complete sections across intrusive contact zones and individual veins/skarns should be carried out. Detailed mapping and sampling with special attention paid to structure, alteration, and mineralization must accompany the trenching.
5. Reconnaissance prospecting and geochemistry, which has been so successful in the past, needs to be continued in unexplored areas. Gridded soil geochemistry on a large scale may not be effective due to physiographic limitations.

Any further work (road building, advanced trenching, drilling, etc.) is contingent on results of the above work.

Respectfully submitted,

Harmen J. Keyser
 HARMEN J. KEYSER
 HARMEN J. KEYSER, B.Sc., FGAC
John L. Laudon
 FELLOW

John L. Laudon, M.S.

November 30, 1990

REFERENCES

- Barrette, P.; 1982:
Metamorphism of Sedimentary Rocks by Syenitic Intrusions in the Tombstone Range, 116 A/4, Yukon Territory. In D.I.A.N.D. Yukon Exploration and Geology 1981, p. 34-37.
- Doherty, R.A.; 1990:
Geological Mapping and Geochemical Sampling on the Lorrie Claims. Assessment report for Walhala Explorations Ltd. by Aurum Geological Consultants Inc., Feb. 20, 1990.
- Green, L.H.; 1972:
Geology of Nash Creek, Larsen Creek, and Dawson Map-Areas, Yukon Territory, G.S.C. Memoir 364.
- Hall, R.D.; 1981:
Geological and Geochemical Report on the Mike Lake Area, Yukon. Assessment report for Anaconda Canada Exploration Ltd. Dec. 11, 1981.
- Holcapek, F.; 1975:
Report on the Mike Mineral Claims. Assessment report for Canalta Resources Ltd. by Agilis Engineering Ltd., November, 1975.
- Mackay, G.; 1990:
Brewery Creek Property. Paper presented at Whitehorse Geoscience Forum for Noranda Exploration and Loki Gold, November 26, 1990.
- Needoba, J. and R.H.D. Philp; 1973:
Geological Report on the AS and GH Mineral Claims near Mike Lake. Assessment report for Belmoral Mines Ltd. by Agilis Engineering Ltd., August 1973.
- Taylor, D.P.; 1984:
Report on the Geology of the Aine Claims Located at Mike Lake. Assessment report for Gallagher Explorations Ltd. by DTX Consultants Ltd. Feb. 27, 1984.
- Tempelman-Kluit, D.J.; 1980:
Geology and Mineral Deposits of Southern Yukon. In D.I.A.N.D. Yukon Geology and Exploration 1979-80, p. 7-31.

STATEMENT OF QUALIFICATIONS (HJK)

I, HARMEN J. KEYSER, hereby certify that;

1. I am a geologist with AURUM GEOLOGICAL CONSULTANTS INC., 412-675 West Hastings Street, Vancouver, British Columbia.
2. I am a graduate of Saint Mary's University, Halifax, with a degree in geology (B.Sc., 1981) and have been involved in geology and mineral exploration continuously since 1978.
3. I am a fellow of the Geological Association of Canada (F3759) and a member of the Yukon Professional Geoscientists Society.
4. I have no direct or indirect interest in the properties or securities of Tombstone Explorations Co. Ltd.
5. I am a co-author of this report on the Lorrie Property, which is based on my personal examination of the ground in July 1990, and on September 2 and 3, 1990, and on information provided by referenced sources.
6. I consent to the use of this report by Tombstone Explorations Co. Ltd. for any purpose deemed necessary, provided that no portion may be used out of context in such a manner as to convey a meaning differing materially from that set out in the whole.

November 30, 1990



Harmen J. Keyser, B.Sc., FGAC

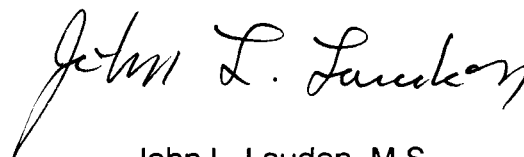


STATEMENT OF QUALIFICATIONS (JLL)

I, JOHN L. LAUDON, hereby certify that;

1. I am an independent geologist residing at 7749 McKay Avenue, Burnaby, B.C., V5J 3T4
2. I graduated from the University of Missouri with a B.S. in geology (1972) and I graduated from the University of Montana with a M.S. in geology (1978).
3. I have no direct or indirect interest in the properties or securities of Tombstone Explorations Co. Ltd.
5. I am a co-author of this report on the Lorrie Property, which is based on my personal involvement in exploration work carried out during the period August 12 to September 8, 1990.
6. I consent to the use of this report by Tombstone Explorations Co. Ltd. for any purpose deemed necessary, provided that no portion may be used out of context in such a manner as to convey a meaning differing materially from that set out in the whole.

November 30, 1990



John L. Laudon, M.S.

STATEMENT OF COSTS

Assessment credits to be applied to Lorrie Property; 1990 Field Work

A. Fieldwork; Aug. 12 to Sept. 8, 1990

John Laudon, M.S., Geologist, of Burnaby, B.C. 25 days @ 250/day:	\$ 6,250.00
William McIntyre, Prospector, of Dawson, Yukon 27 days @ 250/day:	6,750.00
Simon Ridgway, Prospector, of Dawson, Yukon 27 days @ 250/day:	6,750.00
Jean-Paul Jutras, Geology Student, of Edmonton, AB 19 days @ 125/day:	2,375.00
Harmen Keyser, B.Sc., FGAC, Geologist, of Vancouver, B.C. 2 days @ 350/day:	700.00
Subtotal:	<u>\$ 22,825.00</u>

B. Support Costs

Helicopter Charter (Trans North):	10,492.00
Helicopter Charter (Capital):	1,781.50
Analytical Costs:	7,278.50
M.B.W. Surveys, Camp Rental:	700.00
Equipment:	449.30
Groceries:	2,189.93
Propane:	162.25
Gas:	101.41
Expediting:	300.00
Frontier Freight Lines, Shipping:	90.75
Truck Rental:	500.00
Subtotal:	<u>\$ 24,045.64</u>

C. Data Compilation and Report Preparation

Simon Ridgway, 8 days @ 250/day:	2,000.00
John Laudon, 2 days @ 250/day:	500.00
Harmen Keyser, 12 days @ 350/day:	4,200.00
Drafting:	1,900.00
Reprographics:	500.00
Subtotal:	<u>\$ 9,100.00</u>

Total 1990 Assessment Work Valuation:	<u>\$ 55,970.64</u>
---------------------------------------	---------------------

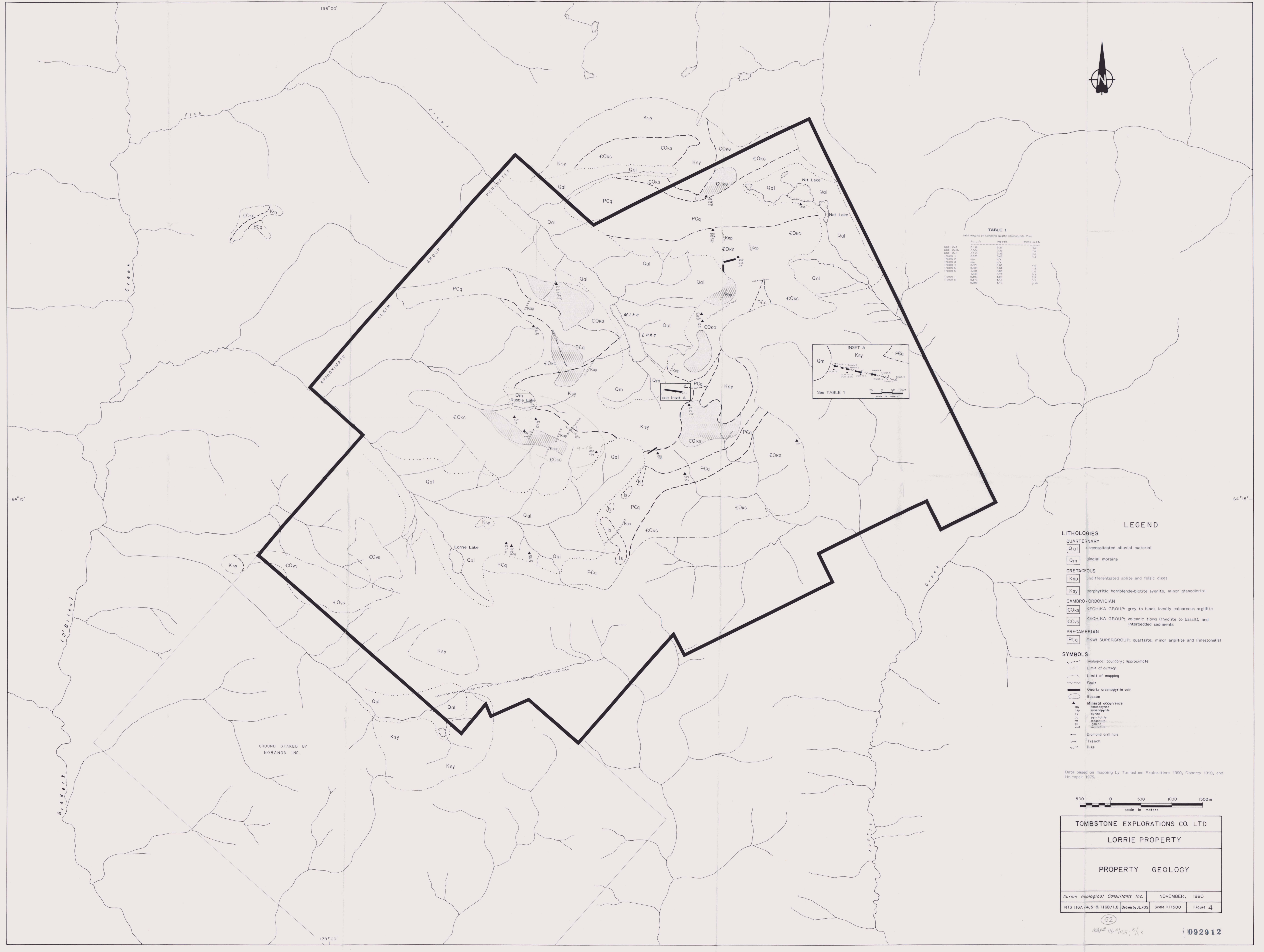
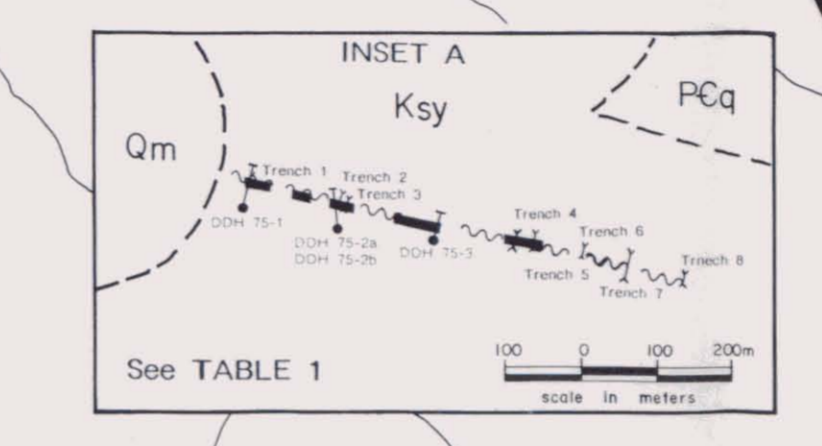


TABLE 1
1975 Results of Sampling Quartz-Arsenopyrite Vein

	As wt%	Ag wt%	Width in Ft.
DDH 75-1	0.129	0.221	4.0
DDH 75-2	0.094	0.221	4.0
DDH 75-3	0.115	0.26	4.5
Trench 1	0.675	0.41	4.5
Trench 2	n/a	n/a	n/a
Trench 3	n/a	n/a	n/a
Trench 4	0.229	0.01	4.0
Trench 5	0.009	0.01	1.0
Trench 6	1.284	0.06	6.0
Trench 7	0.190	4.28	5.5
Trench 8	0.126	1.16	5.0
	0.096	1.15	grab

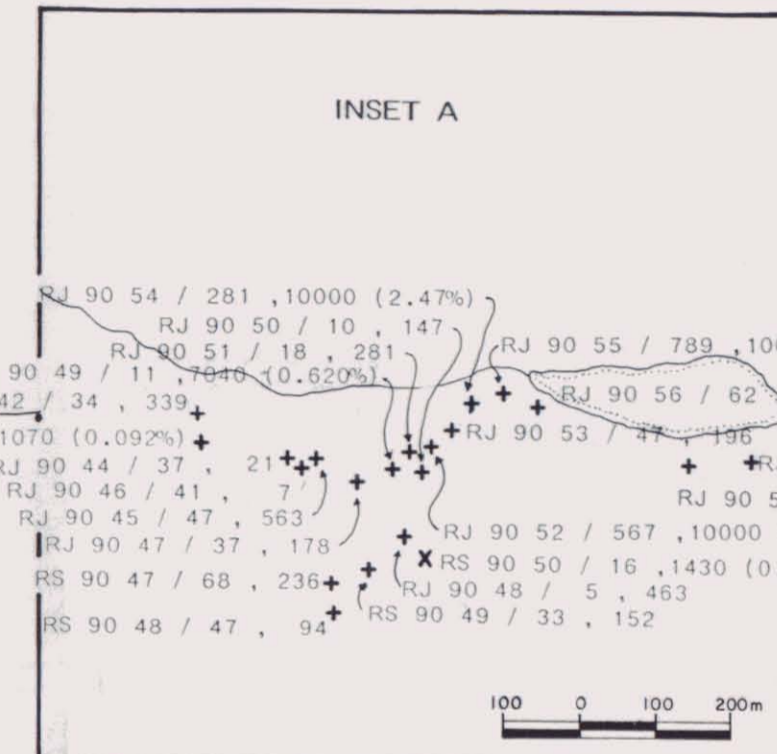
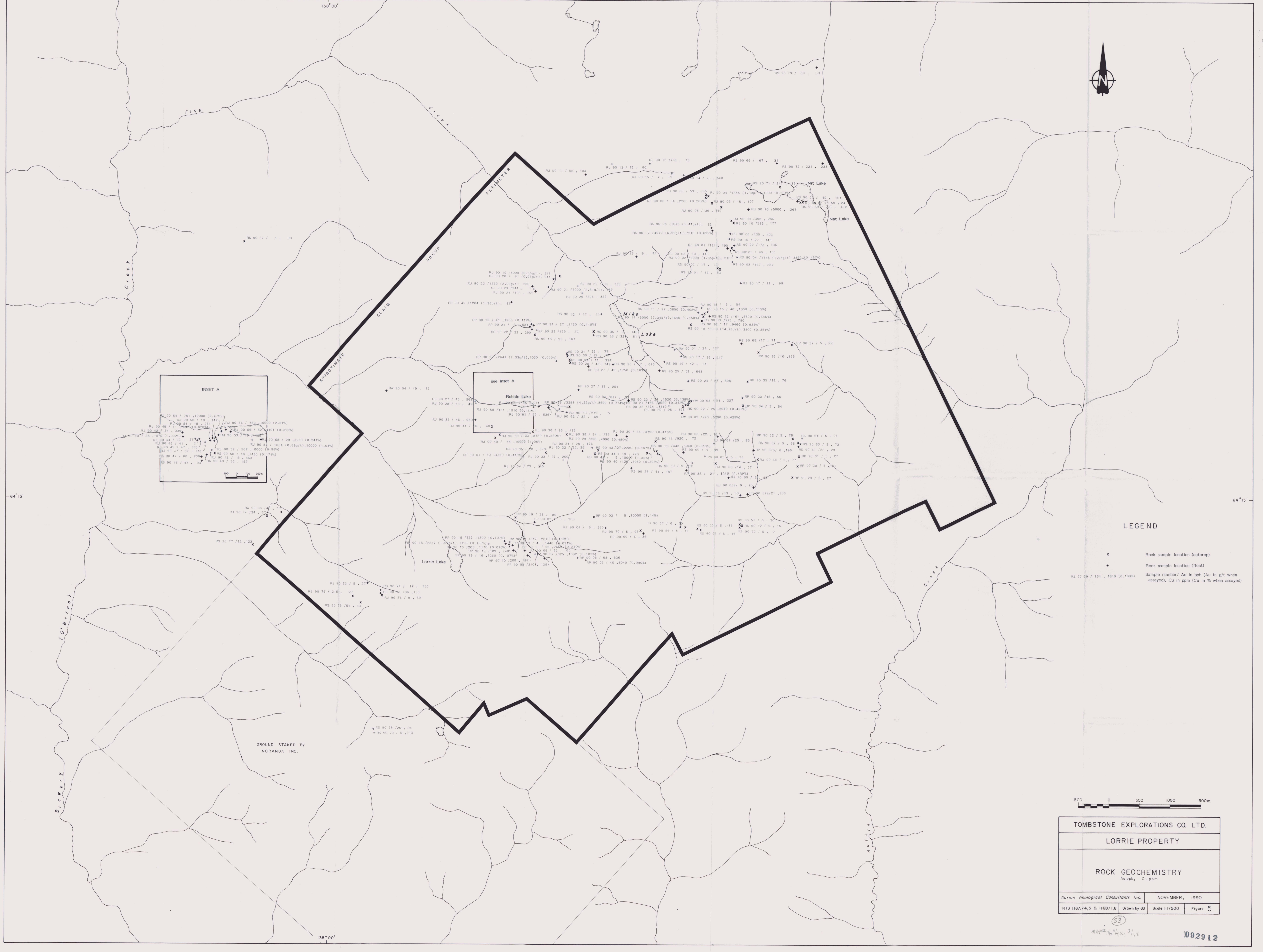


- LEGEND**
- LITHOLOGIES**
- QUARTERINARY**
- Qal unconsolidated alluvial material
 - Qm glacial moraine
- CRETACEOUS**
- Kap undifferentiated aplite and felsic dikes
 - Ksy porphyritic hornblende-biotite syenite, minor granodiorite
- CAMBRO-ORDOVICIAN**
- COks KECHIKA GROUP; grey to black locally calcareous argillite
 - COvs KECHIKA GROUP; volcanic flows (rhyolite to basalt), and interbedded sediments
- PRECAMBRIAN**
- PCq EKWI SUPERGROUP; quartzite, minor argillite and limestone(s)
- SYMBOLS**
- Geological boundary, approximate
 - Limit of outcrop
 - Limit of mapping
 - Fault
 - Quartz arsenopyrite vein
 - Gossan
 - Mineral occurrence:
 - asp arsenopyrite
 - py pyrite
 - po pyrrhotite
 - mt magnetite
 - qt quartzite
 - gal galena
 - mal malachite
 - Diamond drill hole
 - Trench hole
 - Dike

Data based on mapping by Tombstone Explorations 1990, Doherty 1990, and Holcapek 1975.

scale in meters

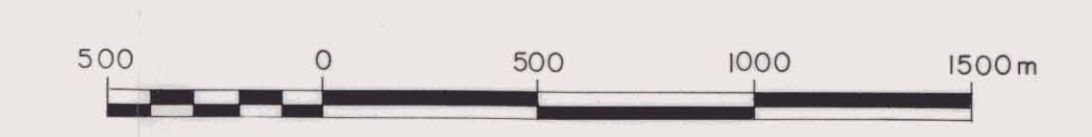
TOMBSTONE EXPLORATIONS CO. LTD.	
LORRIE PROPERTY	
PROPERTY GEOLOGY	
<i>Aurum Geological Consultants Inc.</i>	NOVEMBER, 1990
NTS 116A/4,5 & 116B/1,8	Drawn by J.L./GS Scale 1:17500 Figure 4



see Inset A

LEGEND

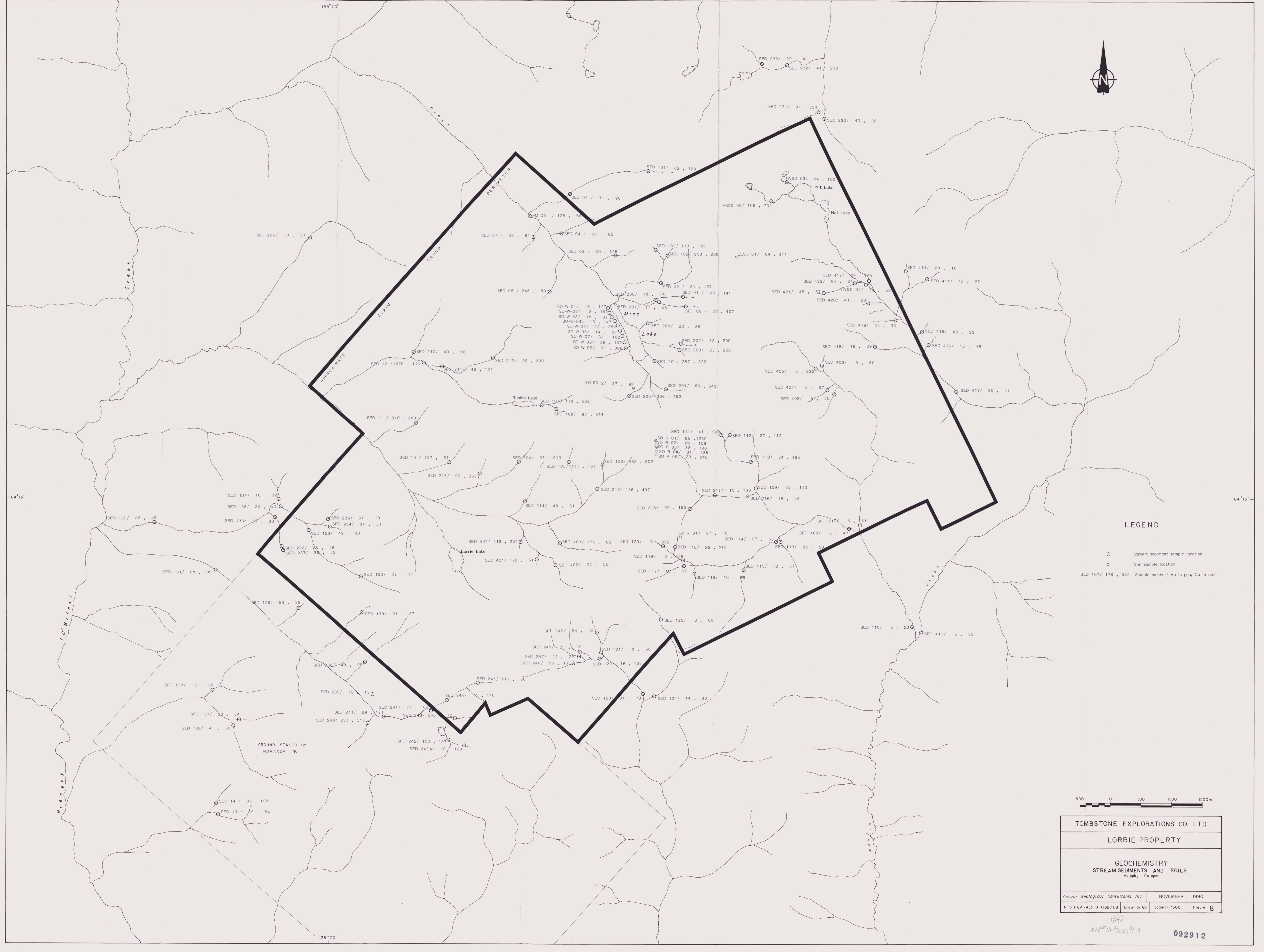
- x Rock sample location (outcrop)
- + Rock sample location (float)
- Sample number/ Au in ppb (Au in g/t when assayed), Cu in ppm (Cu in % when assayed)



TOMBSTONE EXPLORATIONS CO. LTD.			
LORRIE PROPERTY			
ROCK GEOCHEMISTRY			
Au ppb, Cu ppm			
Aurum Geological Consultants Inc.		NOVEMBER, 1990	
NTS 116A/4,5 & 116B/1,8	Drawn by GS	Scale 1:17500	Figure 5

53
Map # 116A/4,5 & 116B/1,8

092912



LEGEND

- Stream sediment sample location
 - Soil sample location
- SED 107/ 178 , 582 Sample number/ Au in ppb, Cu in ppm



TOMBSTONE EXPLORATIONS CO. LTD.	
LORRIE PROPERTY	
GEOCHEMISTRY STREAM SEDIMENTS AND SOILS Au ppb, Cu ppm	
Aurum Geological Consultants Inc.	NOVEMBER, 1990
NTS 116A/4,5 B 116B/1,8 Drawn by GS	Scale 1:17500 Figure 8

MAP# 116 4,5, 8, 1, 8

092912

APPENDIX A

Analytical Results

August 31, 1990

Work Order # 08334

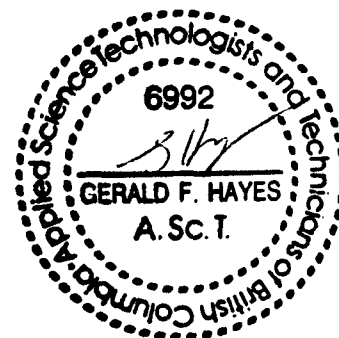
Tombstone Exploration Co. Ltd.
 P.O. Box 265
 Dawson City, Yukon
 Y0B 1G0

File # 08334a

Assay Certificate for Samples Provided

Sample	ppb Au	ppm Ag	ppm Cu	ppm Pb	ppm Zn	ppm As	ppm Sb
SO-W-01	15	<0.1	127	56	95	197	32
SO-W-02	<5	<0.1	162	200	154	416	36
SO-W-03	18	<0.1	137	243	198	247	44
SO-W-04	13	0.2	147	614	413	229	40
SO-W-05	22	8.4	252	1660	1050	201	47
SO-W-06	14	<0.1	97	74	68	192	76
SED 01	20	<0.1	141	20	84	875	18
SED 02	81	<0.1	127	21	89	661	21
SED 03	30	0.1	125	22	94	447	20
SED 04	56	0.2	85	97	200	375	29
SED 05	31	0.1	90	98	172	570	31
SED 07	68	<0.1	61	71	267	718	24
SED 08	246	<0.1	89	111	393	1610	31
SED 09	20	0.1	407	99	311	841	30
SED 101	82	0.1	128	241	466	797	23
SED 201	287	0.1	322	127	274	765	22
SED 202	33	<0.1	290	120	398	680	38
SED 203	35	<0.1	256	92	328	635	36
SED 204	89	0.4	543	107	244	1480	41
SED 205	306	0.5	482	180	75	2090	28
SED 206	18	1.6	74	78	88	182	24
SED 207	11	2.3	46	34	60	138	17
SED 208	23	0.2	85	30	84	278	9
LL SO 01	64	6.5	371	4730	1320	1550	30
HM 06	128	<0.1	66	28	51	268	<1

Au -- 30g Fire Assay/AAS
 Metals -- Aqua Regia Digestion/AAS Geochem



August 31, 1990

Work Order # 08334

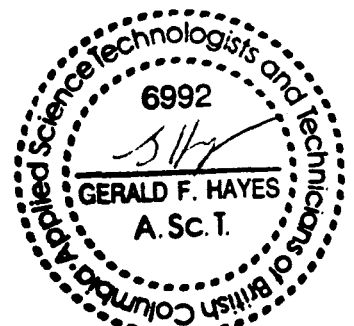
Tombstone Exploration Co. Ltd.
 P.O. Box 265
 Dawson City, Yukon
 Y0B 1G0

File # 08334b

Assay Certificate for Samples Provided

Sample	ppb Au	ppm Ag	ppm Cu	ppm Pb	ppm Zn	ppm As	ppm Sb
RS 90 01	15	<0.1	53	13	48	9	30
RS 90 02	14	0.5	37	214	152	7010	438
RS 90 03	167	0.1	287	19	31	1170	37
RS 90 04	1748	7.7	3820	60	32	6950	66
RS 90 05	96	<0.1	183	7	22	4540	16
RS 90 06	135	<0.1	403	64	54	1080	10
RS 90 07	4572	14.7	7210	59	70	6640	43
RS 90 08	1079	<0.1	32	29	39	5910	206
RS 90 09	172	<0.1	136	28	54	1830	38
RS 90 10	27	<0.1	145	26	45	258	18
RS 90 11	27	1.7	3850	44	137	475	35
RS 90 12	161	1.4	6570	6	59	237	45
RS 90 13	223	<0.1	780	<1	23	3750	46
RS 90 14	>5000	<0.1	1640	<1	18	73	57
RS 90 15	48	1.2	1060	6	23	67	30
RS 90 16	17	4.4	9460	<1	121	62	52
RS 90 17	26	<0.1	317	11	18	138	18
RS 90 18	>5000	2.1	3800	24	13	571	75
RS 90 19	42	<0.1	34	37	18	154	8
RS 90 20	96	0.3	428	26	51	113	28
RS 90 21	166	0.4	3620	4	52	295	53
RS 90 22	25	4.6	2970	26	124	5530	49
RS 90 23	21	0.7	1520	2	37	693	41
RS 90 24	27	<0.1	508	<1	66	120	34
RS 90 25	57	<0.1	643	12	18	191	47
RS 90 26	7	0.7	873	20	35	1390	20
RS 90 27	40	0.6	1750	24	36	493	31
RS 90 28	46	<0.1	749	81	42	747	27
RS 90 29	11	0.2	324	182	452	113	32
RS 90 30	19	<0.1	82	24	20	94	18

Au -- 30g Fire Assay/AAS
 Metals -- Aqua Regia Digestion/AAS Geochem



August 31, 1990

Work Order # 08334

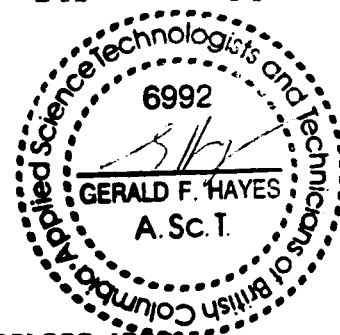
Tombstone Exploration Co. Ltd.
 P.O. Box 265
 Dawson City, Yukon
 Y0B 1G0

File # 08334c

Assay Certificate for Samples Provided

Sample	ppb Au	ppm Ag	ppm Cu	ppm Pb	ppm Zn	ppm As	ppm Sb
RS 90 31	29	<0.1	32	12	23	82	23
RS 90 32	374	0.4	119	81	22	9560	188
RS 90 34	877	<0.1	23	183	52	6870	24
RJ 90 01	134	<0.1	190	19	15	>10000	71
RJ 90 02	2099	<0.1	210	2	19	1110	24
RJ 90 03	10	<0.1	140	18	31	98	26
RJ 90 04	4845	1.4	1990	<1	39	1330	10
RJ 90 05	53	0.4	635	11	44	549	23
RJ 90 06	64	4.4	2260	<1	39	264	12
RJ 90 07	16	<0.1	107	97	51	24	14
RJ 90 08	36	7.9	410	47	22	7080	32
RJ 90 09	492	<0.1	286	3	34	292	21
RJ 90 10	515	<0.1	177	13	88	3560	29
RJ 90 11	56	<0.1	104	25	43	289	20
RJ 90 12	12	<0.1	60	56	66	106	9
RJ 90 13	766	<0.1	73	3	26	73	16
RJ 90 14	26	<0.1	540	<1	17	101	26
RJ 90 15	7	<0.1	19	67	22	129	14
RJ 90 16	9	<0.1	44	94	30	<1	6
RJ 90 17	11	<0.1	99	8	19	5780	26
RJ 90 18	<5	<0.1	54	7	38	179	20
RJ 90 19	>5000	<0.1	215	10	13	6290	22
RJ 90 20	81	<0.1	211	32	12	1160	28
RJ 90 21	>5000	<0.1	189	53	22	589	16
RJ 90 22	1559	0.7	280	28	21	1850	12
RJ 90 23	244	<0.1	<1	12	51	37	9
RJ 90 24	193	1.1	152	78	21	7320	59
RJ 90 25	309	2.4	338	97	1340	933	55
RJ 90 26	325	3.0	325	29	190	302	30
No Tag	15	<0.1	77	29	33	241	34

Au -- 30g Fire Assay/AAS
 Metals -- Aqua Regia Digestion/AAS Geochem



August 31, 1990

Work Order # 08334

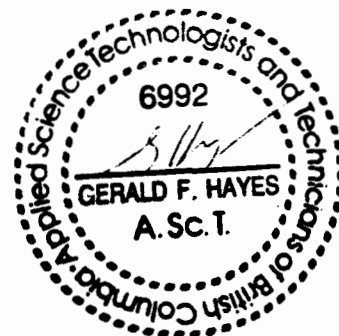
Tombstone Exploration Co. Ltd.
P.O. Box 265
Dawson City, Yukon
Y0B 1G0

File # 08334d

Assay Certificate for Samples Provided

Sample	ppb Au	ppm Ag	ppm Cu	ppm Pb	ppm Zn	ppm As	ppm Sb
RW 90 01	24	<0.1	177	13	57	95	6
RW 90 02	220	9.2	5290	16	85	5030	35
RW 90 03	21	0.5	327	19	27	356	40

Au -- 30g Fire Assay/AAS
Metals -- Aqua Regia Digestion/AAS Geochem



August 31, 1990

Work Order # 08334

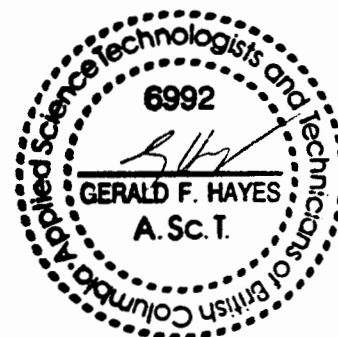
Tombstone Exploration Co. Ltd.
 P.O. Box 265
 Dawson City, Yukon
 Y0B 1G0

File # 08334e

Assay Certificate for Samples Provided

Sample	% Cu	% Zn	% As
RS 90 02			0.06
RS 90 03			17.8
RS 90 04	0.198		14.4
RS 90 05			0.41
RS 90 06			0.10
RS 90 07	0.692		4.68
RS 90 08			9.60
RS 90 09			0.22
RS 90 11	0.408		
RS 90 12	0.646		
RS 90 13			0.48
RS 90 14	0.150		
RS 90 15	0.115		
RS 90 16	0.937		
RS 90 18	0.351		
RS 90 21	0.373		
RS 90 22	0.423		0.47
RS 90 23	0.138		
RS 90 26			0.13
RS 90 27	0.163		
RS 90 32			15.3
RS 90 34			0.68
RJ 90 01			0.41
RJ 90 02			0.11
RJ 90 04	0.204		0.16
RJ 90 06	0.202		
RJ 90 08			3.81
RJ 90 10			0.41
RJ 90 17			2.22
RJ 90 19			1.72

Metals -- Aqua Regia Digestion/AAS Assay



August 31, 1990

Work Order # 08334

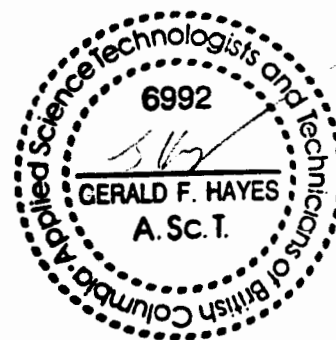
Tombstone Exploration Co. Ltd.
P.O. Box 265
Dawson City, Yukon
Y0B 1G0

File # 08334f

Assay Certificate for Samples Provided

Sample	% Cu	% Zn	% As
RJ 90 20			0.16
RJ 90 22			0.24
RJ 90 24			9.05
RJ 90 25		0.189	
RW 90 02	0.429		0.64

Metals -- Aqua Regia Digestion/AAS Assay



September 7, 1990

Work Order # 08345

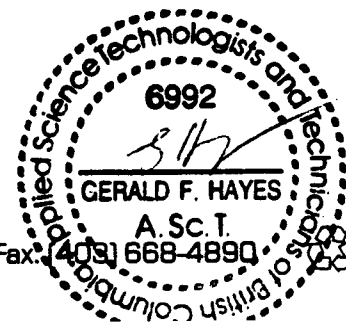
Tombstone Exploration Co. Ltd.
P.O. Box 265
Dawson City, Yukon
Y0B 1G0

File # 08345a

Assay Certificate for Samples Provided

Sample	ppb Au	ppm Ag	ppm Cu	ppm Pb	ppm Zn	ppm As	ppm Sb
SED 209	10	0.2	31	31	125	17	30
SED 210	40	<0.1	56	10	93	154	35
SED 211	48	0.1	134	24	109	643	31
SED 212	39	<0.1	220	11	93	343	27
SED 213	136	0.6	497	89	225	2460	42
SED 214	48	0.2	151	52	158	720	34
SED 215	90	0.6	367	41	133	1350	54
SED 401	170	2.4	161	742	711	812	209
SED 402	27	0.3	56	117	164	51	64
SED 403	176	1.0	83	235	373	120	51
SED 404	519	1.1	264	258	289	743	87
SED 10	737	0.2	57	36	121	33	32
SED 11	310	0.2	263	33	88	520	35
SED 12	1270	0.2	116	85	186	432	53
SED 102	253	0.1	208	33	82	547	38
SED 103	113	0.1	193	32	84	716	40
SED 104	125	1.3	1010	44	120	1710	59
SED 105	171	0.1	157	16	87	497	32
SED 106	483	0.5	802	36	79	3130	28
SED 107	178	0.5	582	49	84	3310	38
SED 108	97	0.8	344	59	73	6850	42
SO R 01	85	4.1	1230	409	90	8410	91
SO R 02	29	0.6	109	35	47	304	31
SO R 03	38	0.4	196	68	59	2720	34
SO R 04	31	0.9	535	8	19	1110	40
SO R 05	23	0.8	248	11	16	592	43
SO W 07	33	1.7	162	287	209	157	49
SO W 08	38	0.5	102	46	132	91	33
SO W 09	91	0.5	368	47	88	1090	29
SJ 90 1	34	0.2	53	69	68	219	67
SO 90 02	37	0.6	92	67	329	932	47

Au -- 30g Fire Assay/AAS
Metals -- Aqua Regia Digestion/AAS Geochem



September 7, 1990

Work Order # 08345

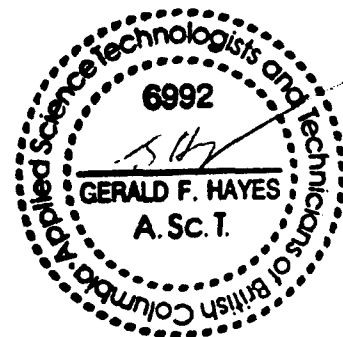
Tombstone Exploration Co. Ltd.
P.O. Box 265
Dawson City, Yukon
Y0B 1G0

File # 08345b

Assay Certificate for Samples Provided

Sample	ppb Au	ppm Ag	ppm Cu	ppm Pb	ppm Zn	ppm As	ppm Sb
RP 90 01	10	2.6	4350	8	81	149	36
RP 90 02	<5	0.1	203	59	72	30	20
RP 90 03	<5	13.7	>10000	22	133	1070	27
RP 90 04	<5	<0.1	220	79	40	42	28
RP 90 05	40	0.1	1040	46	36	>10000	94
RP 90 06	68	0.1	636	48	25	3690	44
RP 90 07	325	8.0	1002	328	22	9820	99
RP 90 08	210	<0.1	135	16	73	>10000	44
RP 90 09	92	0.4	65	18	26	>10000	79
RP 90 10	208	0.6	492	26	27	791	37
RP 90 11	56	0.6	2660	4	13	8410	192
RP 90 12	16	0.9	1260	19	21	>10000	255
RP 90 13	46	15.6	1440	4780	2530	151	104
RP 90 14	612	3.5	2670	79	63	91	75
RP 90 15	537	12.6	1800	1020	109	>10000	846
RP 90 16	205	>100	1170	>10000	>10000	276	6350
RP 90 17	189	>100	740	>10000	>10000	318	5220
RP 90 18	2857	7.8	1790	3090	1570	310	209
RP 90 19	27	8.4	89	2560	3620	206	147
RP 90 21	9	2.5	534	460	41	85	37
RP 90 22	22	<0.1	290	67	73	141	23
RP 90 23	41	1.6	1250	73	47	65	34
RP 90 24	27	1.5	1420	23	35	68	31
RP 90 25	139	2.8	33	55	56	>10000	131
RP 90 26	2641	0.9	1030	68	139	>10000	44
RP 90 27	38	<0.1	251	52	61	369	26
RP 90 28	3281	5.9	8690	43	58	>10000	85
RJ 90 27	45	0.2	561	24	16	758	28
RJ 90 28	53	<0.1	49	22	5	348	27
RJ 90 29	390	7.6	4990	60	202	>10000	36

Au -- 15g Fire Assay/AAS
Metals -- Aqua Regia Digestion/AAS Geochem



September 7, 1990

Work Order # 08345

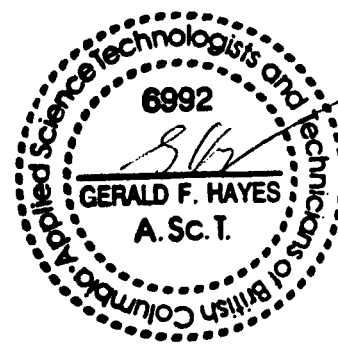
Tombstone Exploration Co. Ltd.
P.O. Box 265
Dawson City, Yukon
Y0B 1G0

File # 08345C

Assay Certificate for Samples Provided

Sample	ppb Au	ppm Ag	ppm Cu	ppm Pb	ppm Zn	ppm As	ppm Sb
RJ 90 30	36	4.2	4790	121	173	599	26
RJ 90 31	28	<0.1	176	15	44	118	23
RJ 90 32	22	<0.1	26	8	13	185	22
RJ 90 33	27	<0.1	200	26	17	137	18
RJ 90 34	29	6.3	345	51	201	3950	27
RJ 90 35	28	0.5	373	11	13	>10000	34
RJ 90 36	26	<0.1	133	21	77	99	24
RJ 90 37	46	4.1	969	793	24	202	52
RJ 90 38	24	<0.1	123	20	8	142	18
RJ 90 39	33	7.7	8780	16	242	2030	22
RJ 90 40	44	8.3	>10000	4	217	790	21
RJ 90 41	16	<0.1	40	2	8	23	8
RJ 90 42	34	5.2	339	273	35	97	36
RJ 90 43	38	1.8	1070	90	50	313	64
RJ 90 44	37	<0.1	21	16	13	107	29
RJ 90 45	47	3.4	563	137	14	867	231
RJ 90 46	41	<0.1	7	16	15	63	33
RJ 90 47	37	<0.1	178	50	11	158	39
RJ 90 48	<5	<0.1	463	24	8	3340	41
RJ 90 49	11	11.3	7040	9	114	499	19
RJ 90 50	10	<0.1	147	13	34	133	18
RJ 90 51	18	3.5	281	5	59	>10000	40
RJ 90 52	567	>100	>10000	9	1130	>10000	231
RJ 90 53	47	2.8	196	11	41	>10000	65
RJ 90 54	281	51.5	>10000	2050	518	>10000	3080
RJ 90 55	789	62.2	>10000	18	496	>10000	161
RJ 90 56	62	6.0	4190	18	103	6130	35
RJ 90 57	1034	19.3	>10000	9	139	>10000	68
RJ 90 58	29	4.8	3250	29	81	321	30
RJ 90 59	131	1.7	1810	17	51	1690	22

Au -- 30g Fire Assay/AAS
Metals -- Aqua Regia Digestion/AAS Geochem



September 7, 1990

Work Order # 08345

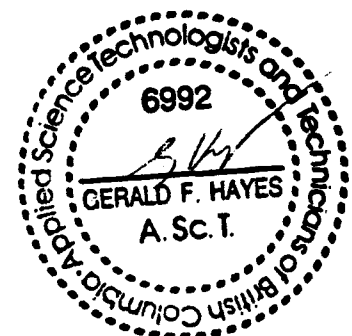
Tombstone Exploration Co. Ltd.
P.O. Box 265
Dawson City, Yukon
Y0B 1G0

File # 08345d

Assay Certificate for Samples Provided

Sample	ppb Au	ppm Ag	ppm Cu	ppm Pb	ppm Zn	ppm As	ppm Sb
RJ 90 60	15	0.4	571	80	6	94	24
RJ 90 61	23	0.3	536	3	15	708	66
RJ 90 62	32	<0.1	69	16	6	181	36
RJ 90 63	279	<0.1	5	13	4	>10000	53
RS 90 35	31	0.4	146	13	20	257	54
RS 90 36	32	<0.1	81	29	41	107	44
RS 90 37	<5	0.2	93	11	23	80	42
RS 90 38	41	<0.1	187	7	18	>10000	78
RS 90 39	443	14.9	5940	61	49	>10000	476
RS 90 40	126	8.3	3950	44	35	>10000	222
RS 90 41	920	3.0	72	158	2	>10000	624
RS 90 42	<5	13.9	>10000	10	293	2570	74
RS 90 43	27	1.3	2280	<1	16	1730	61
RS 90 44	19	0.7	778	15	40	375	38
RS 90 45	1264	1.6	31	256	2	>10000	668
RS 90 46	95	0.5	167	28	22	7360	43
RS 90 47	68	0.6	236	74	31	>10000	58
RS 90 48	47	2.7	94	375	112	285	63
RS 90 49	33	0.4	152	58	8	531	33
RS 90 50	16	5.5	1430	14	28	1260	3
RW 90 04	49	<0.1	13	3	30	6580	57

Au -- 30g Fire Assay/AAS
Metals -- Aqua Regia Digestion/AAS Geochem



September 7, 1990

Work Order # 08345

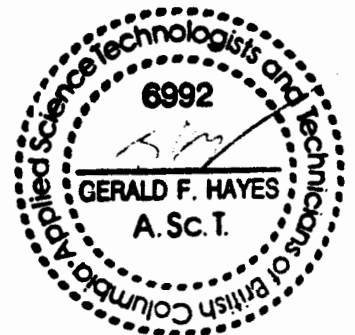
Tombstone Exploration Co. Ltd.
P.O. Box 265
Dawson City, Yukon
Y0B 1G0

File # 08345e

Assay Certificate for Samples Provided

Sample	% Cu	% Pb	% Zn	% As	% Sb
RP 90 01	0.413				
RP 90 03	1.14			0.143	
RP 90 05	0.095			2.33	
RP 90 06				0.396	
RP 90 07	0.103			1.11	
RP 90 08				2.83	
RP 90 09				2.67	
RP 90 11	0.249			0.964	
RP 90 12	0.107			3.50	
RP 90 13	0.091	0.541	0.263		
RP 90 14	0.159				
RP 90 15	0.107	0.139		4.41	
RP 90 16	0.070	9.08	0.978		0.471
RP 90 17		8.18	11.8		0.402
RP 90 18	0.136	0.317	0.022		
RP 90 19		0.243	0.296		
RP 90 23	0.119				
RP 90 24	0.118				
RP 90 25				7.89	
RP 90 26	0.099			2.39	
RP 90 28	0.774			11.8	
RJ 90 29	0.480			2.69	
RJ 90 30	0.415				
RJ 90 34				0.371	
RJ 90 39	0.839			0.188	
RJ 90 40	1.06				
RJ 90 43	0.092				
RJ 90 48				0.373	
RJ 90 49	0.620				
RJ 90 51				1.18	

Metals -- Aqua Regia Digestion/AAS Assay



September 7, 1990

Work Order # 08345

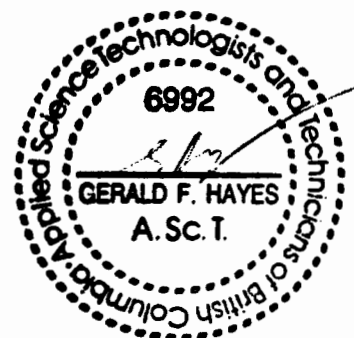
Tombstone Exploration Co. Ltd.
P.O. Box 265
Dawson City, Yukon
Y0B 1G0

File # 08345f

Assay Certificate for Samples Provided

Sample	% Cu	% Pb	% Zn	% As	% Sb
RJ 90 52	6.98		0.011	10.96	
RJ 90 53				1.34	
RJ 90 54	2.47	0.203		2.04	0.278
RJ 90 55	2.61			10.4	
RJ 90 56	0.399			0.638	
RJ 90 57	1.04			3.85	
RJ 90 58	0.241				
RJ 90 59	0.189			0.187	
RJ 90 63				0.048	
RJ 90 35				3.43	
RS 90 38				1.70	
RS 90 39	0.616			24.0	
RS 90 40	0.396			6.99	
RS 90 41				21.4	
RS 90 42	1.35			0.698	
RS 90 43	0.167			0.149	
RS 90 45				39.8	
RS 90 46				0.457	
RS 90 47				1.29	
RS 90 50	0.174			0.167	
RW 90 04				0.835	

Metals -- Aqua Regia Digestion/AAS Assay



September 7, 1990

Work Order # 08345

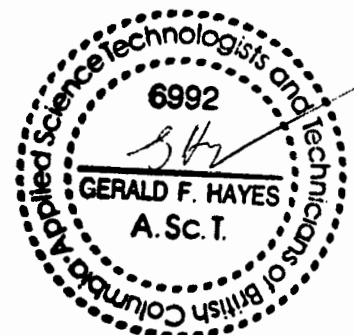
Tombstone Exploration Co. Ltd.
P.O. Box 265
Dawson City, Yukon
Y0B 1G0

File # 08345g

Assay Certificate for Samples Provided

Sample	g/t Ag	oz/t Ag
RP 90 16	691.4	20.17
RP 90 17	180.8	5.27
RJ 90 52	151.7	4.42

Ag -- 1AT Fire Assay/Grav



September 7, 1990

Work Order # 08345

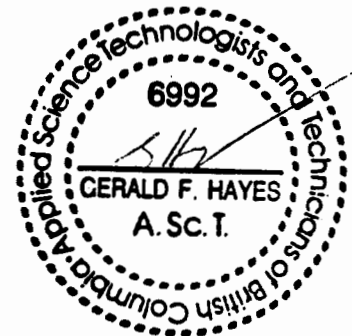
Tombstone Exploration Co. Ltd.
P.O. Box 265
Dawson City, Yukon
Y0B 1G0

File # 08345h

Assay Certificate for Samples Provided

Sample	ppm Co	ppm Ni
RP 90 15	389	108

Metals -- Aqua Regia Digestion/AAS Geochem



September 7, 1990

Work Order # 08345

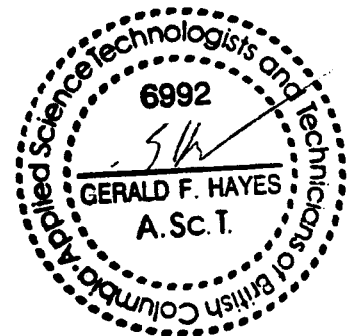
Tombstone Exploration Co. Ltd.
P.O. Box 265
Dawson City, Yukon
Y0B 1G0

File # 08345i

Assay Certificate for Samples Provided

Sample	g/t Au	oz/t Au
RP 90 18	1.99	0.058
RP 90 26	2.33	0.068
RP 90 28	4.22	0.123
RJ 90 57	0.89	0.026
RS 90 45	1.38	0.040

Au -- 1AT Fire Assay/Grav



September 7, 1990

Work Order # 08345

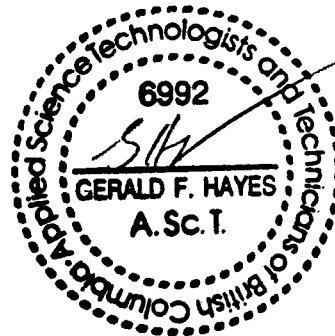
Tombstone Exploration Co. Ltd.
P.O. Box 265
Dawson City, Yukon
Y0B 1G0

File # 08345j

Assay Certificate for Samples Provided

Sample	+100 oz/t Au	-100 oz/t Au	oz/t Au
RJ 90 19	0.002	0.016	0.017

Au -- Metallics Fire Assay



September 13, 1990

Work Order # 08368

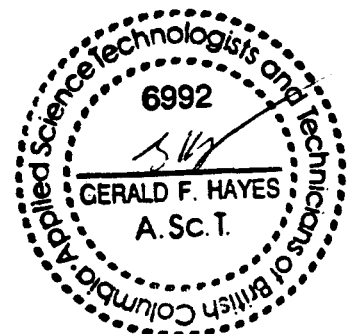
Tombstone Exploration Ltd.
 Box 265
 Dawson City, Yukon
 Y0B 1G0

File # 08368a

Assay Certificate For Samples Provided

Sample	ppb Au	ppm Ag	ppm Cu	ppm Pb	ppm Zn	ppm As	ppm Sb
RW 90 05	<5	<0.1	33	16	8	92	18
RS 90 51	<5	0.1	20	8	68	208	33
RS 90 52	<5	<0.1	15	13	49	213	52
RS 90 53	<5	<0.1	9	19	17	140	63
RS 90 54	<5	<0.1	46	3	36	120	19
RS 90 55	<5	<0.1	18	10	56	205	28
RS 90 56	<5	<0.1	48	97	864	243	34
RS 90 57	6	0.1	70	178	517	195	22
RS 90 57b	21	<0.1	386	6	7	>10000	83
RS 90 58	13	0.1	80	29	43	277	29
RS 90 59	9	<0.1	191	15	6	159	21
RS 90 60	8	<0.1	39	10	9	258	27
RS 90 61	22	<0.1	29	59	13	396	12
RS 90 62	<5	<0.1	55	19	20	278	23
RS 90 63	<5	<0.1	73	36	19	460	31
RS 90 64	<5	<0.1	25	18	34	179	12
RS 90 65	17	<0.1	71	17	36	690	40
RJ 90 63	9	<0.1	70	10	1	275	25
RJ 90 64	<5	<0.1	77	15	28	239	26
RJ 90 65	<5	<0.1	48	28	15	167	16
RJ 90 66	14	<0.1	57	4	12	117	20
RJ 90 67	25	<0.1	95	<1	17	208	24
RJ 90 68	22	<0.1	96	14	27	513	24
RJ 90 69	6	<0.1	36	59	60	166	29
RJ 90 70	<5	<0.1	98	9	444	452	51
RP 90 29	<5	<0.1	27	23	64	157	17
RP 90 30	<5	3.5	81	1732	375	3631	455
RP 90 31	<5	<0.1	27	41	89	233	52
RP 90 32	<5	<0.1	78	31	42	195	25
RP 90 33	18	0.2	56	49	50	133	21

Au -- 30g Fire Assay/AAS
 Metals -- Aqua Regia Digestion/AAS Geochem



September 13, 1990

Work Order # 08368

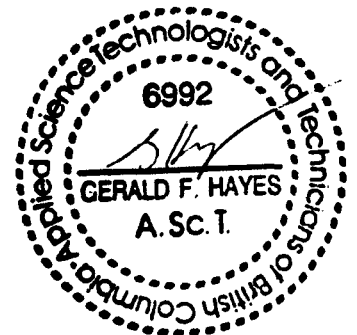
Tombstone Exploration Ltd.
 Box 265
 Dawson City, Yukon
 Y0B 1G0

File # 08368b

Assay Certificate For Samples Provided

Sample	ppb Au	ppm Ag	ppm Cu	ppm Pb	ppm Zn	ppm As	ppm Sb
RP 90 34	<5	<0.1	64	17	24	150	27
RP 90 35	12	<0.1	76	10	6	107	23
RP 90 36	10	<0.1	135	132	69	240	37
RP 90 37	<5	<0.1	99	11	29	418	28
RP 90 37b	6	<0.1	196	25	7	385	43
RP 90 38	21	<0.1	1912	9	52	388	40

Au -- 30g Fire Assay/AAS
 Metals -- Aqua Regia Digestion/AAS Geochem



September 13, 1990

Work Order # 08368

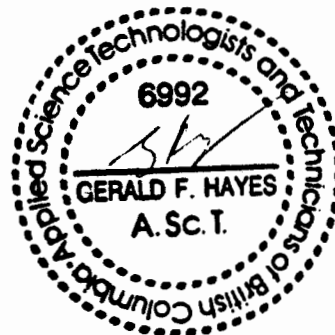
Tombstone Exploration Ltd.
Box 265
Dawson City, Yukon
Y0B 1G0

File # 08368c

Assay Certificate For Samples Provided

Sample	% Cu	% Pb	% As
RS 90 57b			3.29
RP 90 30		0.190	0.386
RP 90 38	0.182		

Metals -- Aqua Regia Digestion/AAS Assay



September 13, 1990

Work Order # 08368

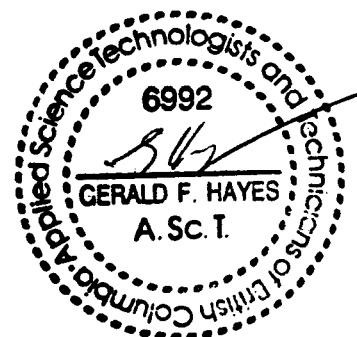
Tombstone Exploration Ltd.
 Box 265
 Dawson City, Yukon
 Y0B 1G0

File # 08368d

Assay Certificate For Samples Provided

Sample	ppb Au	ppm Ag	ppm Cu	ppm Pb	ppm Zn	ppm As	ppm Sb
SED 109	37	<0.1	113	46	203	443	26
SED 110	34	<0.1	165	56	181	603	27
SED 111	41	0.3	229	70	178	996	30
SED 112	27	0.2	112	32	139	497	29
SED 113	29	<0.1	50	21	122	166	3
SED 114	27	<0.1	55	19	123	274	8
SED 115	12	0.1	57	23	151	208	8
SED 116	10	0.5	66	19	165	181	<1
SED 117	16	0.4	67	30	167	248	7
SED 118	25	0.7	279	41	1340	303	11
SED 119	6	0.4	258	42	373	545	20
SED 120	9	<0.1	350	25	324	837	36
SED 121	8	<0.1	56	54	139	324	<1
SED 122	16	1.0	163	189	231	1100	18
SED 123	31	<0.1	70	123	164	591	11
SED 124	14	<0.1	38	24	102	327	<1
SED 125	6	<0.1	60	51	134	484	1
SED 216	18	<0.1	116	40	145	729	31
SED 217	15	<0.1	160	51	136	999	30
SED 218	29	<0.1	186	136	326	3020	44
SED 219	<5	<0.1	51	26	120	266	23
SED 405	<5	<0.1	235	64	402	760	38
SED 406	<5	<0.1	60	28	100	410	28
SED 407	<5	<0.1	97	37	118	849	29
SED 408	<5	<0.1	50	30	136	594	26
SED 409	<5	<0.1	47	25	109	566	21
SED 410	<5	<0.1	23	17	91	387	13
SED 411	<5	<0.1	35	16	85	476	20

Au -- 30g Fire Assay/AAS
 Metals -- Aqua Regia Digestion/AAS Geochem



September 24, 1990

Work Order # 08394

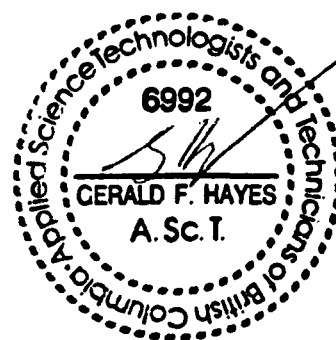
Tombstone Exploration Ltd.
 P.O. Box 265
 Dawson City, Yukon
 Y0B 1G0

File # 08394a

Assay Certificate For Samples Provided

Sample	ppb Au	ppm Ag	ppm Cu	ppm Pb	ppm Zn	ppm As	ppm Sb
RS 90 66	67	<0.1	34	42	104	109	16
RS 90 67	49	0.2	101	3	18	396	9
RS 90 68	59	<0.1	24	9	19	33	3
RS 90 69	28	<0.1	182	3	12	166	4
RS 90 70	>5000	20.7	267	624	8	>1000	320
RS 90 71	247	0.6	161	73	21	>1000	22
RS 90 72	321	0.4	233	19	3	537	12
RS 90 73	69	0.2	59	7	97	40	7
RS 90 74	17	<0.1	155	4	20	511	15
RS 90 75	215	<0.1	27	34	106	86	80
RS 90 76	51	5.1	13	510	>1000	11	40
RS 90 77	25	<0.1	123	11	125	167	7
RS 90 78	26	<0.1	94	2	45	246	11
RS 90 79	<5	0.5	213	24	58	248	18
RP 90 39	<5	<0.1	2	4	4	86	<1
RW 90 06	46	0.4	17	5	61	92	8
RJ 90 71	8	0.5	89	11	34	123	5
RJ 90 72	36	0.1	138	18	50	134	11
RJ 90 73	<5	56.1	27	>1000	134	141	>1000
RJ 90 74	24	<0.1	67	204	98	119	77

Au -- 30g Fire Assay/AAS
 Metals -- Aqua Regia Digestion/AAS Geochem



September 24, 1990

Work Order # 08394

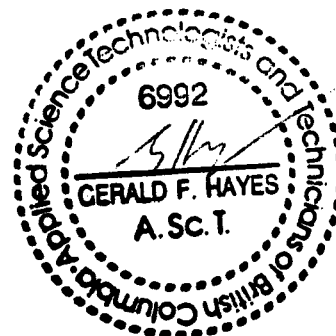
Tombstone Exploration Ltd.
P.O. Box 265
Dawson City, Yukon
Y0B 1G0

File # 08394b

Assay Certificate For Samples Provided

Sample	% Pb	% Zn	% As	% Sb
RS 90 70			23.7	
RS 90 71			0.680	
RS 90 76		0.235		
RJ 90 73	4.22			13.9

Metals -- Aqua Regia Digestion/AAS Assay



September 24, 1990

Work Order # 08394

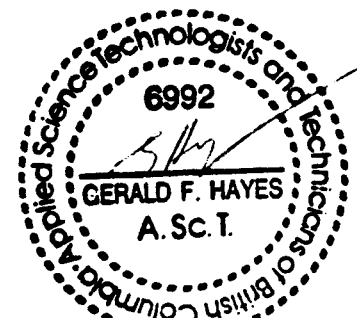
Tombstone Exploration Ltd.
P.O. Box 265
Dawson City, Yukon
Y0B 1G0

File # 08394c

Assay Certificate For Samples Provided

Sample	ppb Au	ppm Ag	ppm Cu	ppm Pb	ppm Zn	ppm As	ppm Sb
SED 126	27	2.7	71	465	634	215	47
SED 127	23	1.8	53	365	364	160	34
SED 128	12	0.9	33	233	264	154	12
SED 129	58	<0.1	39	70	132	103	8
SED 130	21	0.3	37	281	460	74	22
SED 131	68	0.6	109	83	234	636	7
SED 132	22	1.2	45	239	226	93	20
SED 133	57	0.7	30	169	156	122	<1
SED 134	16	<0.1	32	110	133	99	14
SED 135	22	<0.1	47	268	289	127	18
SED 230	43	<0.1	38	52	107	191	8
SED 231	91	<0.1	534	77	270	594	12
SED 232	141	<0.1	239	64	173	1540	14
SED 233	29	<0.1	41	33	66	239	8
SED 234	34	2.7	51	425	198	172	20
SED 235	37	0.1	19	46	96	97	<1
SED 236	26	0.6	46	205	147	106	12
SED 237	36	2.9	52	187	145	153	10
SED 238	49	1.4	99	342	524	565	22
SED 239	15	<0.1	15	36	70	691	<1
SED 240	231	1.7	513	97	106	3570	24
SED 241	89	0.7	171	96	211	926	12
SED 241a	177	<0.1	66	139	168	1050	31
SED 242	103	<0.1	137	39	126	480	4
SED 242a	110	<0.1	129	47	109	805	26
SED 243	546	0.1	72	44	112	1660	21
SED 244	71	1.0	140	259	443	1070	48
SED 245	116	0.9	86	287	211	828	93
SED 246	55	4.0	333	318	323	1300	55
SED 247	24	<0.1	22	129	140	149	19

Au -- 30g Fire Assay/AAS
Metals -- Aqua Regia Digestion/AAS Geochem



September 24, 1990

Work Order # 08394

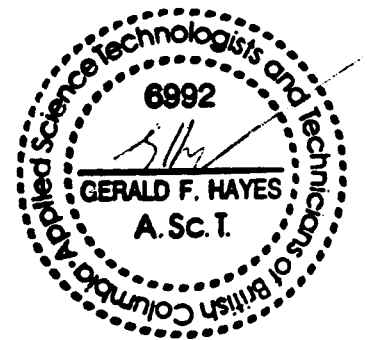
Tombstone Exploration Ltd.
 P.O. Box 265
 Dawson City, Yukon
 Y0B 1G0

File # 08394d

Assay Certificate For Samples Provided

Sample	ppb Au	ppm Ag	ppm Cu	ppm Pb	ppm Zn	ppm As	ppm Sb
SED 248	31	<0.1	29	103	138	158	17
SED 249	94	2.6	52	55	127	147	14
SED 412	69	<0.1	189	23	247	236	<1
SED 413	29	<0.1	16	26	79	103	<1
SED 414	45	2.2	27	36	74	139	3
SED 415	43	<0.1	23	23	72	115	<1
SED 416	13	0.4	15	47	74	96	<1
SED 417	30	1.9	47	24	123	94	<1
SED 418	19	<0.1	29	27	99	124	<1
SED 419	26	<0.1	33	26	125	193	<1
SED 420	41	0.5	23	11	75	135	4
SED 421	45	<0.1	57	21	149	134	<1
SED 422	64	0.3	24	15	64	148	5
HS 90 01	18	<0.1	38	29	132	174	<1
HS 90 02	106	1.5	739	237	149	2250	32
HS 90 03	24	<0.1	100	48	141	595	13
HS 90 04	58	<0.1	58	56	102	453	<1
OX - 1	27	0.1	8	12	146	142	3

Au -- 30g Fire Assay/AAS
 Metals -- Aqua Regia Digestion/AAS Geochem



October 3, 1990

Work Order # 08439

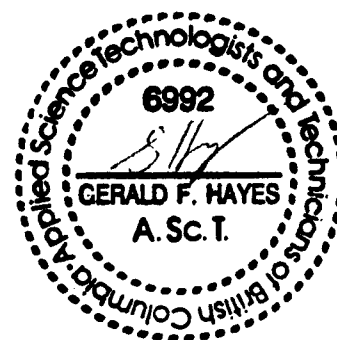
Tombstone Exploration Ltd.
 P.O. Box 265
 Dawson City, Yukon
 Y0B 1G0

File # 08439a

Assay Certificate For Samples Provided

Sample	ppb Au	ppm Ag	ppm Cu	ppm Pb	ppm Zn	ppm As	ppm Sb
SED 13	19	0.4	54	21	128	74	9
SED 14	33	0.8	102	24	132	99	16
SED 136	41	4.8	59	75	171	116	12
SED 137	28	56.1	64	31	141	111	3
SED 138	15	>100	38	250	220	104	<1

Au -- 30g Fire Assay/AAS
 Metals -- Aqua Regia Digestion/AAS Geochem



ROSSBACHER LABORATORY LTD.

2225 S. Springer Ave., Burnaby,
British Columbia, Can. V5B 3N1
Ph: (604)299-6910 Fax: 299-6252

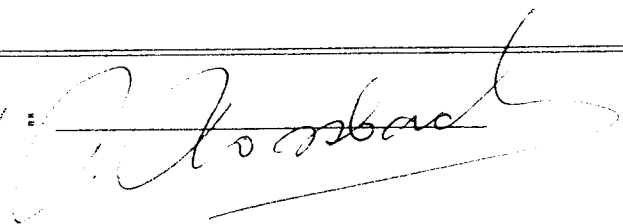
CERTIFICATE OF ANALYSIS

TO : NORTHERN ANALYTICAL LABORATORY LTD.
105 COPPER ROAD
WHITEHORSE, Y.T.
PROJECT : WO#08381
TYPE OF ANALYSIS : GEOCHEMICAL

CERTIFICATE # : 90468
INVOICE # : 10624
DATE ENTERED : 90-09-26
FILE NAME : NAL90468
PAGE # : 1

LINE FIX	SAMPLE NAME	PPM W
P	SED 01	10
P	SED 02	10
P	SED 03	5
P	SED 04	10
P	SED 05	5
P	SED 07	2
P	SED 08	2
P	SED 09	10
P	SED 10	2
P	SED 11	75
P	SED 101	2
P	SED 102	2
P	SED 103	10
P	SED 104	10
P	SED 105	10
P	SED 106	5
P	SED 107	25
P	SED 108	20
P	SED 109	5
P	SED 110	5
P	SED 111	20
P	SED 112	15
P	SED 113	2
P	SED 114	2
P	SED 115	2
P	SED 116	2
P	SED 117	2
P	SED 118	2
P	SED 119	5
P	SED 120	5
P	SED 121	2
P	SED 122	5
P	SED 123	5
P	SED 124	2
P	SED 125	2
P	SED 201	2
P	SED 202	15
P	SED 203	10
P	SED 204	50
P	SED 205	5

CERTIFIED BY :



ROSSBACHER LABORATORY LTD.

2225 S. Springer Ave., Burnaby,
British Columbia, Can. V5B 3N1
Ph: (604)299-6910 Fax: 299-6252

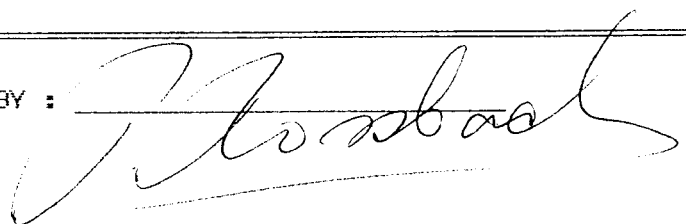
CERTIFICATE OF ANALYSIS

LAB : NORTHERN ANALYTICAL LABORATORY LTD.
105 COPPER ROAD
WHITEHORSE, Y.T.
PROJECT : WO#08381
TYPE OF ANALYSIS : GEOCHEMICAL

CERTIFICATE # : 90468
INVOICE # : 10624
DATE ENTERED : 90-09-26
FILE NAME : NAL90468
PAGE # : 2

LINE FIX	SAMPLE NAME	PPM W
0	SED 206	2
0	SED 207	10
P	SED 208	25
0	SED 209	5
0	SED 210	2
P	SED 211	30
P	SED 212	25
0	SED 213	2
P	SED 214	2
P	SED 215	10
0	SED 216	10
0	SED 217	2
P	SED 218	2
0	SED 219	25
0	SED 401	30
P	SED 402	2
P	SED 403	2
0	SED 404	30
P	SED 405	2
P	SED 406	2
0	SED 407	2
0	SED 408	10
P	SED 409	25
0	SED 410	10
0	SED 411	5

CERTIFIED BY :



APPENDIX B

Rock Sample Descriptions

TOMBSTONE EXPL'S CO. LTD. ROCK SAMPLE DESCRIPTIONS Appendix B-1
 LORRIE PROPERTY NTS 116A4,5, 116B1.8 1990 PROGRAM.
 Sampling by J. Laudon, S. Ridgway, W. McIntyre, J.P. Jutras.

SAMPLE NUMBER	LOCATION	SAMPLE DESCRIPTION
RJ-90-01	NE of Mike Lake	unrecognizable gossanous gangue, float with heavy Aspy.
RJ-90-02	NE of Mike Lake in place	15ft zone of hydro altd gssn Actinolite crystals; chip of zone
RJ-90-03	NE of Mike Lake float	Sulfide rich c.g. quartzite. py fine diss. 15%.
RJ-90-04	Peak, NE of Mike Lake	Malachite staining, 1m chip in place
RJ-90-05	as above in place	Very resistant grey qtzite. cpy. asp.sulf 15% chip 1m.
RJ-90-06	as above in place	Gossanous highly altd. unrecognizable. heavy. grab
RJ-90-07	Ridge, NE of Mike Lake	Rhyolite Dike. Diss. po.5% in place
RJ-90-08	as above in place	Heavy, highly altd. unrec min. some asp.
RJ-90-09	Saddle, NE of Lorrie Lake	Highly altd.gossanous, unrec'. in place
RJ-90-10	as above place	Highly altd. Ochre weath'g in grunge. Malachite staining. 2m chip
RJ-90-11	N of Mike L. Talus	Grey to black quartzite. po. cpy in stringers.
RJ-90-12	N of Mike L. Talus	Grey to light purple chert po. cpy.
RJ-90-13	N of Mike L. Talus	Grey altd to green chert po, cpy.
RJ-90-14	N of Mike L. Talus	Massive po, py, in resistant altd, dk green quartzite.
RJ-90-15	N of Mike L. Talus	Grey quartzite. fine diss of po & cpy.
RJ-90-16	R/L Fish Ck. Float	Tan quartzite. Heavy Diss po.

TOMBSTONE EXPL'S CO. LTD. ROCK SAMPLE DESCRIPTIONS Appendix B-2
 LORRIE PROPERTY NTS 116A4.5, 116B1.8 1990 PROGRAM.
 Sampling by J. Laudon, S. Ridgway, W. McIntyre, J.P. Jutras.

SAMPLE NUMBER	LOCATION	SAMPLE DESCRIPTION
RJ-90-17	E of Mike Lake Talus	Altd quartzite. Epidote, aspy.
RJ-90-18	E of Mike Lake Talus	White quartzite, altd to green (diopside) po, aspy.
RJ-90-19	W of Fish Cr. in place	Black arglt. heavy, slightly magnetic, po, aspy, cpy. massive. grab
RJ-90-20	W of Fish Cr. in place	In Black arglt, massive sulfides. po pv aspy cpy mag. grab
RJ-90-21	W of Fish Cr. Talus	Massive po repl' black/grey arglt. Very abundant in talus.
RJ-90-22	W of Fish Cr. Talus	Massive sulfides in arglt. po pv aspy. cpv py. +
RJ-90-23	W of Fish Cr. Talus	White milky calcareous chert. light green alteration.?
RJ-90-24	W of Fish Cr. Talus	Grey quartzite. massive py, aspy
RJ-90-25	W of Fish Cr. talus	Black arglt. Heavy sulfides in fractures spl, aspy py
RJ-90-26	L/L Fish Ck Talus	Massive sulfides in arglt. po py spl cpy aspy
RJ-90-27	Rubble Lake Talus	Massive sulfides. po py aspy
RJ-90-28	Rubble Lake Talus	Black arglt, sulfides in fractures-py, aspy.
RJ-90-29	E of Lorrie Lake R/L. float	Hornfels, sulfides 50% + aspy, cpv, py, +
RJ-90-30	E of Lorrie Lake float	Hornfels, heavy cpy. other sulfides.
RJ-90-31	E of Lorrie Lake Talus	Calcareous green chert
RJ-90-32	E of Lorrie Lake Talus	Quartzite, hornfels silicified cpy, aspy 15%

TOMBSTONE EXPL'S CO. LTD. ROCK SAMPLE DESCRIPTIONS Appendix B-3
 LORRIE PROPERTY NTS 116A4.5, 116B1.8 1990 PROGRAM.
 Sampling by J. Laudon, S. Ridgway, W. McIntyre, J.P. Jutras.

SAMPLE NUMBER	LOCATION	SAMPLE DESCRIPTION
RJ-90-33	E of Lorrie Lake Talus	Quartzite, gossanous cpv.
RJ-90-34	E of Lorrie Lake Talus	light grey tuff, diss. sulfides.
RJ-90-35	E of Lorrie Lake in place	black arglt. hornfels heavy aspy - grab
RJ-90-36	S of Rubble Lake in place	Black arglt. aspy cpv in fractures beside Rhyolite dike. 2m chip.
RJ-90-37	S of Rubble Lake float	Massive sulfides in black arglt, Galena. cpv.
RJ-90-38	S of Rubble Lake in place	Gossanous chert. diss cpv po 100ft from Ksv contact. 2m chip sample.
RJ-90-39	S of Rubble Lake in place	altd quartzite heavy diss cpv malachite, grab
RJ-90-40	S of Rubble Lake in place	Massive tremolite with diss cpv grab
RJ-90-41	S of Rubble Lake in place	Bull quartz vein 8 ft wide parallel to bedding: chip
RJ-90-42	Rubble lake S/face Talus	Grungy gossanous rock heavy po py cpv galena.
RJ-90-43	Rubble Lake Talus	Grunge. Skarny appearance. massive po,py slight magnetic
RJ-90-44	Rubble Lake Talus	Brecciated qtz injected black arglt. minor cpv.
RJ-90-45	Rubble Lake Talus	Black arglt. heavy diss sulfides aspy,py cpv
RJ-90-46	Rubble Lake Talus	Sheared black arglt; qtz & tremolite stringers
RJ-90-47	Rubble Lake Talus	Grungy black arglt. heavy diss qtz + cpv.
RJ-90-48	Rubble Lake Talus	Grungy vesicular gouge

TOMBSTONE EXPL'S CO. LTD. ROCK SAMPLE DESCRIPTIONS Appendix B-4
 LORRIE PROPERTY NTS 116A4,5, 116B1,8 1990 PROGRAM.
 Sampling by J. Laudon, S. Ridgway, W. McIntyre, J.P. Jutras.

SAMPLE NUMBER	LOCATION	SAMPLE DESCRIPTION
RJ-90-49	Rubble Lake Talus	Black arglt.heavy diss sulf po py cpy
RJ-90-50	Rubble Lake Talus	Grey chert. f.g.cpy throughout
RJ-90-51	Rubble Lake Talus	Hornfels outz heavy aspy minor mal.
RJ-90-52	Rubble Lake Talus	Massive sulfide float.
RJ-90-53	Rubble Lake Talus	alt'd brecciated quartzite large black crystals?
RJ-90-54	Rubble Lake Talus	quartzite heavy diss sulf slickensides on surface
RJ-90-55	Rubble Lake Talus	Massive po. slightly magnetic.
RJ-90-56	Rubble Lake Talus	Goss quartzite sulf in large blebs. po.py cpy aspy.
RJ-90-57	Rubble Lake	Grungy brecc arglt cpy aspy
RJ-90-58	Rubble Lake	Very goss vesicular rock po py
RJ-90-59	Rubble Lake	Quartzite altd to green and purple? diopside? minor cpy, mal
RJ-90-60	Rubble Lake	Grey quartzite. fine diss cpy
RJ-90-61	Rubble Lake	Fractured black arglt fine sulfides along fractures.
RJ-90-62	Rubble Lake	Black argilite,heavy diss po.
RJ-90-63	Rubble Lake	Syenite. aspy on shear planes
RJ-90-63a	W fork Aussie Cr. float	Grey quartzite. Hornfels. Diss po cpy
RJ-90-64	W fork Aussie Cr. in place	Black Argilite with qtz veinlets, minor sulphides
RJ-90-65	W fork Aussie Cr. float	Brecciated Goss grey arglt. fine diss sulfides

TOMBSTONE EXPL'S CO. LTD. ROCK SAMPLE DESCRIPTIONS Appendix B-5
 LORRIE PROPERTY NTS 116A4,5, 116B1,8 1990 PROGRAM.
 Sampling by J. Laudon, S. Ridgway, W. McIntyre, J.P. Jutras.

SAMPLE NUMBER	LOCATION	SAMPLE DESCRIPTION
RJ-90-66	W fork Aussie Cr. in place	black arglt fin diss sulf 1m chip
RJ-90-67	W fork Aussie Cr. float	grey arglt, alt to light green diss cpy aspy
RJ-90-68	W fork Aussie Cr. float	Brecc'd quartzite, diss aspy
RJ-90-69	W fork Aussie Cr. float	Buff arglt green in areas large blebs po py
RJ-90-70	as above in place	Brecc. loosely cemented conglomerate; composite grab
RJ-90-71	SW of Lorrie Lake in place	Black arglt with fine stringers of po; grab
RJ-90-72	as above float	Dark andesite, minor diss sulfides
RJ-90-73	as above float	Brecc black arglt with qtz blocks, dark grey sulf & red soft mineral.
RJ-90-74	as above in place	15 ft mafic dike, fine diss py, po, grab
RP-90-01	E of Lorrie Lake Float	Massive sulfides po/py 85% minor bornite
RP-90-02	E of Lorrie Lake float in stream	Banded rhyolite light grey microcrystalline 5% Sulf.
RP-90-03	E of Lorrie Lake o/c. 1m thick	shear in banded L/stone 100% limonite minor py.
RP-90-04	E of Lorrie Lake float	Min'd L/stone, crystalline Ign' intrusive py cpy 10% of rock
RP-90-05	E of Lorrie Lake float	Limonitic, vry black oxidized, py po.
RP-90-06	E of Lorrie Lake float	Arglt, calcite veining 5% 20% sulf. Pent py cpy bor aspv
RP-90-07	E of Lorrie Lake Talus	massive po. ass'd with basaltic dike.

TOMBSTONE EXPL'S CO. LTD. ROCK SAMPLE DESCRIPTIONS Appendix B-6
 LORRIE PROPERTY NTS 116A4,5, 116B1,8 1990 PROGRAM.
 Sampling by J. Laudon, S. Ridgway, W. McIntyre, J.P. Jutras.

SAMPLE NUMBER	LOCATION	SAMPLE DESCRIPTION
RP-90-08	E of Lorrie Lake Talus	bdd/arglt; massive aspy py diss cubes up to 5mm throughout.
RP-90-09	E of Lorrie Lake float	silic/arglt.15% sulfides aspy minor py.
RP-90-10	E of Lorrie Lake Talus	silic/arglt.massive po 85% sulf. minor aspy/cpy
RP-90-11	E of Lorrie Lake Talus	Mass sulf.Magnetic 80% po py cpy minor calcite
RP-90-12	E of Lorrie Lake Talus	massive po.large tabular crystals dark, magnetic
RP-90-13	E of Lorrie Lake Talus	Massive sulf. v/heavy po spl cpy + black sulf?
RP-90-14	E of Lorrie Lake Talus	Vry f.g massive po slightly magnetic, dark & heavy
RP-90-15	E of Lorrie Lake Talus	Vry heavy dark mass of sulf 30% po,+ black metallic sulf
RP-90-16	E of Lorrie Lake Talus	Mass' sulf. 75% galena 20% Py as bands in Gal. 5% cpy
RP-90-17	E of Lorrie Lake Talus	Mass sulf. 60% py 30% galena
RP-90-18	E of Lorrie Lake float	Mass po, minor cpy py heavy, magnetic
RP-90-19	E of Lorrie Lake o/c 60ft+	goss greyish silic' bedded arglt sulf in veinlets along fractures
RP-90-21	N of Rubble Lake float	silicified epidotized unidentifiable sulfides 85% po py
RP-90-22	N of Rubble Lake float	highly silic arglt. grey/black po in fine diss 10% of rock
RP-90-23	N of Rubble Lake float	Green weathered sulf bearing 20% fibrous green opaque cryst?

TOMBSTONE EXPL'S CO. LTD. ROCK SAMPLE DESCRIPTIONS Appendix B-7
 LORRIE PROPERTY NTS 116A4,5, 116B1,8 1990 PROGRAM.
 Sampling by J. Laudon, S. Ridgway, W. McIntyre, J.P. Jutras.

SAMPLE NUMBER	LOCATION	SAMPLE DESCRIPTION
RP-90-24	N of Rubble Lake float	Massive po minor py cpy born
RP-90-25	N of Rubble Lake float	green silic bleached rock. calcite epidote aspy py
RF-90-26	E of Rubble Lake Talus	f.g.greenish arglt.5% evenly diss py aspy.
RF-90-27	E of Rubble Lake talus	diorite leached bleached. light grey calcite aspy py
RF-90-28	E of Rubble Lake in place	vein in Sv. 5cm wide zoned aspy py cpy qtz black tour.
RP-90-29	W fork Aussie Cr. in place	fine grnd intrusive, light grey 5% diss po in blebs; magnetic
RF-90-30	as above in place	highly silic'd limonitic gouge from small shear. 30cm grab
RF-90-31	W fork Aussie Cr. in place	Limestone. 10% diss sulf o/c interbedded lim/silt
RF-90-32	W fork Aussie Cr. in place	Goss dk grey intrusive po diss throughout 10% magnetic
RF-90-33	W fork Aussie Cr. in place	Rusty silic'd bedded siltstone 10% limonite 10% po
RF-90-34	W fork Aussie Cr. in place	Rusty silic limestone lt grey sulf on fractures 30% of rock
RF-90-35	W fork Aussie Cr.	as 90-33
RF-90-36	S of Nit-Nat L.	as above sulfide content 40%
RF-90-37	W fork Aussie Cr. in place	silic bedded light grey mudstone; 20% po.
RF-90-37b	W fork Aussie Cr. float	Bedded light grey silic mudstone sulfides in pods; 30% py po
RF-90-38	W fork Aussie Cr. float	Silic arglt light grey 60% diss sulf. po cpy
RF-90-39		

TOMBSTONE EXPL'S CO. LTD. ROCK SAMPLE DESCRIPTIONS Appendix B-8
 LORRIE PROPERTY NTS 116A4,5, 116B1,8 1990 PROGRAM.
 Sampling by J. Laudon, S. Ridgway, W. McIntyre, J.P. Jutras.

SAMPLE NUMBER	LOCATION	SAMPLE DESCRIPTION
RS-90-01	NE of Mike Lake in place	Skarny gangue-diopside tremolite cpy. vein 4ft oxd. grab.
RS-90-02	NE of Mike Lake in place	v/weathered greenish rock qtz aspy + other sulf. as above; grab sample.
RS-90-03	NE of Mike Lake float	dk c g quartzite diopside, aspy, cpy along fractures
RS-90-04	NE of Mike Lake float	chloritized qtz with heavy aspy, cpy, py
RS-90-05	NE of Mike Lake Talus	brecciated hornfels quartzite aspy
RS-90-06	NE of Mike Lake Talus	altd greenish quartzite minor aspy cpy po. slightly magnetic
RS-90-07	NE of Mike Lake Talus	brecciated qtz heavy sulf aspy cpy po py +
RS-90-08	NE of Mike Lake Talus	hornfels quartzite heavy aspy
RS-90-09	NE of Mike Lake talus	light c g andesite 10% sulf aspy cpy
RS-90-10	NE of Mike Lake talus	andesite dike rock minor po fine diss
RS-90-11	through -16 taken from east side of Lorrie Lake. 11 & 12 were float, 13 to 16 in place, chip samples from several "zones" that cut the face. The whole cliff is severely folded and very gossanous. Numerous "linears" criss-cross on the face. Mineralization is massive to heavily diss po py minor cpy born in hornfelsed arglt. Numerous intermediate narrow dikes can be seen in the Ck bed at the foot of the face striking N/E. The face is quite steep and prospecting it difficult. Min'd float is very abundant on the lower slopes and was seen above the sampled areas (eg RS-90-12).	
RS-90-17	E bowl, Lorrie L. float	rusty weath black arglt diss sulf 10% po py cpy

TOMBSTONE EXPL'S CO. LTD. ROCK SAMPLE DESCRIPTIONS. Appendix B-9
 LORRIE PROPERTY NTS 116A4,5, 116B1,8 1990 PROGRAM.
 Sampling by J. Laudon, S. Ridgway, W. McIntyre, J.P. Jutras.

SAMPLE NUMBER	LOCATION	SAMPLE DESCRIPTION
RS-90-18	E of Lorrie Lake in place	Massive py po cpy non magnetic.
RS-90-19	E finger float	andesitic dike rock 5% sulf py aspy
RS-90-20	through -23	were chip samples taken from replacement zones adjacent to dikes cutting the qtzt/arglt of the Mike Lake (south of) cirque gossan. Min'n graded out from massive po or aspy in pods to heavy/ diss to light/diss over three to four metres. Much of the float in the area contained diss py & po, sometimes the latter is quite magnetic.
RS-90-24	Mike Lake cirque float	mafic dike rock minor fg sulf
RS-90-25	SE of Mike Lake float	rusty weath black arglt 5 to 10% sulfides py cpy.
RS-90-26	W of Mike Lake talus	qtz stringers in Ksy porphyry aspy in large blebs.
RS-90-27	W finger talus	andesite? dike rock. f g sulfides evenly diss'd throughout
RS-90-28	to 31	are 3m chip samples taken from gossanous hornfels adjacent to and between narrow (2 -6ft) intermediate to mafic dikes that cut the argillites and quartzites of the finger bowl. Heavy diss po py are evenly distributed through the siliceous argillites. Sulfide content as high as 25% of the rock in places.
RS-90-32	Mike Lake cirque float	Massive sulfides. aspy po py heavy dark non magnetic
RS-90-34	Mike Lake cirque float	Qtz stringers in Ksy porphyry aspy in large blebs
RS-90-35	West of Mike Lake talus	silicified arglt. diss sulf 15% of rock po aspy py
RS-90-36	West of Mike Lake in place	3m chip sample silic goss arglt fine diss sulf. po

TOMBSTONE EXPL'S CO. LTD. ROCK SAMPLE DESCRIPTIONS Appendix B-10
 LORRIE PROPERTY NTS 116A4,5, 116B1,8 1990 PROGRAM.
 Sampling by J. Laudon, S. Ridgway, W. McIntyre, J.P. Jutras.

SAMPLE NUMBER	LOCATION	SAMPLE DESCRIPTION
RS-90-37	E of Brewery Cr. in place	hornfels arglt minor sulf in blebs. 2m chip.
RS-90-38	NE of Lorrie Lake float	vuggy qtz large crystals aspy in large blebs
RS-90-39	NE of Lorrie L. in place	3 narrow {4"} qtz/asp/cpy veins in large 15ft shear zone. Grab sample.
RS-90-40	NE of Lorrie L. in place	asp/cpy heavy diss in silic wallrock beside above shear grab
RS-90-41	NE of Lorrie L. in place	massive qtz/asp vein in shear in Ksv. grab
RS-90-42	NE of Lorrie L. in place	hornfels seds. heavy diss sulf cpy po spl aspy: chip 1m
RS-90-43	NE of Lorrie L. in place	silic goss outzt? heavy sulf 70% of rock po py. cpy grab
RS-90-44	NE of Lorrie L. in place	silic.d goss outzt? sulf 20% of rock. slight mag, 3m chip.
RS-90-45	N of Rubble L. float	massive aspy in qtz
RS-90-46	N of Rubble L. in place	hornfels seds diss sulf 15-20% asp/cpy po py cpy 1m chip
RS-90-47	Rubble Lk float	rusty brecciated qtz. no vis. sulfides
RS-90-48	as above float	brecciated qtz malachite stain
RS-90-49	as above float	brecciated qtz. po aspy in fracture plains
RS-90-50	as above in place	hornfels outzt/qtz breccia cpy aspy py in fractures 1m chip
RS-90-51	W fork Aussie Cr. in place	Mafic dike or flow rock

TOMBSTONE EXPL'S CO. LTD. ROCK SAMPLE DESCRIPTIONS Appendix B-11
 LORRIE PROPERTY NTS 116A4,5, 116B1,8 1990 PROGRAM.
 Sampling by J. Laudon, S. Ridgway, W. McIntyre, J.P. Jutras.

SAMPLE NUMBER	LOCATION	SAMPLE DESCRIPTION
RS-90-52	W fork Aussie Cr. in place	Gritty outzt minor sulf, grab
RS-90-53	W fork Aussie Cr. in place	Schistose silic'd arglt
RS-90-54	W fork Aussie Cr. in place	Rusty carbonaceous arglt
RS-90-55	W fork Aussie Cr. in place	Mafic dike or flow rock minor py
RS-90-56	W fork Aussie Cr. in place	silic'd carbonaceous arglt po cpy along fractures
RS-90-57	W fork Aussie Cr. in place	as above some mal staining
RS-90-57b	L/fork Ck. float	Brecc qtz, vuggy rusty aspy cpy mal
RS-90-58	as above float	silic'd quartzite heavy diss sulf po py
RS-90-59	as above float	Massive sulf in outzt mostly po py.
RS-90-60	as above Talus	Intrusive dike rock, minor sulf less 10%
RS-90-61	W fork Aussie Cr. Talus	Brecc qtz pockmarks no vis. sulfides
RS-90-62	W fork Aussie Cr. in place	Goss and very weath'd arglt
RS-90-63	W fork Aussie Cr. in place	Schistose and stained arglt diss f.g. sulfides
RS-90-64	W fork Aussie Cr. Talus	weath'd crumbly intrusive
RS-90-65	S of Nit-Nat Lakes Talus	very weath'd goss arglt
RS-90-66	Nit-Nat Lk float	Granitic dike rock minor sulf py
RS-90-67	Nit-Nat Lakes float	Mass chlorite/actinolite skarn po/py

TOMBSTONE EXPL'S CO. LTD. ROCK SAMPLE DESCRIPTIONS Appendix B-12
 LORRIE PROPERTY NTS 116A4,5, 116B1,8 1990 PROGRAM.
 Sampling by J. Laudon, S. Ridgway, W. McIntyre, J.P. Jutras.

SAMPLE NUMBER	LOCATION	SAMPLE DESCRIPTION
RS-90-68	Nit-Nat Lakes in place	Weakly brecc c. g. qutzt rare vugs, diss po.py
RS-90-69	Nit-Nat Lakes in place	c.g.qutzt. evenly diss po py grab
RS-90-70	Nit-Nat Lakes float	qtz/flspar clay alt. goss brx, aspy py
RS-90-71	Nit-Nat Lakes in place	Massive goethite boxwork sulfides grab
RS-90-72	N of Nit-Nat L. float	Rusty wth qutzt 25% diss sulf large boulder
RS-90-73	as above float	Rusty wth brecciated arglt minor sulf
RS-90-74	SW of Lorrie L. Talus	Dk rusty wth pock marked very hard hornfels 20% py cpy
RS-90-75	SW of Lorrie L. in place	rusty wth qutzt fragments ridge top, large saddle
RS-90-76	SW of Lorrie L. in place	Hornfelses carbonaceous rusty seds. from old pit
RS-90-77	SW of Lorrie L. in place	Gritty qutzt, diss py 2m chip
RS-90-78	SW of Lorrie L. float	Granitic dike rock, minor sulfides
RS-90-79	SW of Lorrie Lake float	Silic'd qutzt 30% diss sulf f.g. py cpy aspy
RW-90-01	E of Mike Lake float	hornfels argillite 10% diss sulfides even diss
RW-90-02	Mike Lake cirque float	massive sulf 80% of rock greenish alt. po py cpy aspy born
RW-90-03	Mike Lake cirque in place	light grey/white qutzt silic? sulf even diss 10to30%. po py 5m chip

TOMBSTONE EXPL'S CO. LTD. ROCK SAMPLE DESCRIPTIONS Appendix B-13
 LORRIE PROPERTY NTS 116A4.5, 116B1.8 1990 PROGRAM.
 Sampling by J. Laudon, S. Ridgway, W. McIntyre, J.P. Jutras.

SAMPLE NUMBER	LOCATION	SAMPLE DESCRIPTION
RW-90-04	W of Rubble L. float	black arglt diss po aspy py
RW-90-05	W fork Aussie Cr. float	light grey chert. f.g.sulf
RW-90-06	Lost Ck. in place	Dk brown arglt rusty "baked" shell diss po py + chip 3m

Abbreviations Used:

L/L	Left limit, looking downstream
R/L	Right limit, looking downstream
py	Pyrite
po	Pyrrhotite
aspy	Arsenopyrite
cpy	Chalcopyrite
born	Bornite
mal	Malachite
diss	Disseminated, disseminations
arglt	Argillite
goss	Gossan, gossanous

APPENDIX C

Geochemical Histograms

The following 14 histograms are presented in Appendix C:

1. Logarithmic distribution of gold in 200 rock samples.
2. Logarithmic distribution of silver in 200 rock samples.
3. Logarithmic distribution of copper in 200 rock samples.
4. Logarithmic distribution of lead in 200 rock samples.
5. Logarithmic distribution of zinc in 200 rock samples.
6. Logarithmic distribution of arsenic in 200 rock samples.
7. Logarithmic distribution of antimony in 200 rock samples.
8. Logarithmic distribution of gold in 137 sediment and soil samples.
9. Logarithmic distribution of silver in 137 sediment and soil samples.
10. Logarithmic distribution of copper in 137 sediment and soil samples.
11. Logarithmic distribution of lead in 137 sediment and soil samples.
12. Logarithmic distribution of zinc in 137 sediment and soil samples.
13. Logarithmic distribution of arsenic in 137 sediment and soil samples.
14. Logarithmic distribution of antimony in 137 sediment and soil samples.

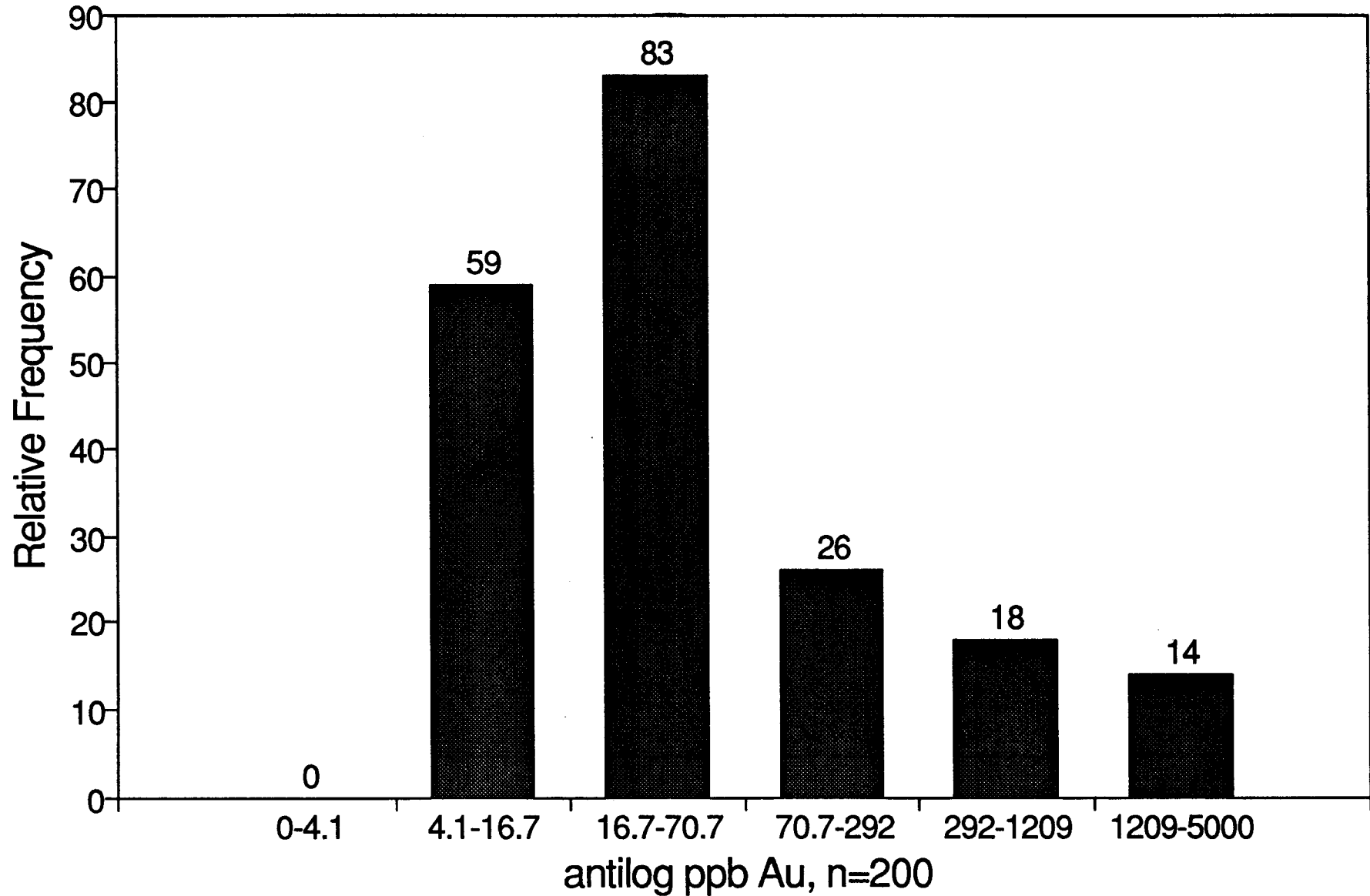
Note: Class Intervals were determined as follows:

$$K = (\log M) / 6$$

where K = interval width
M = largest value in population

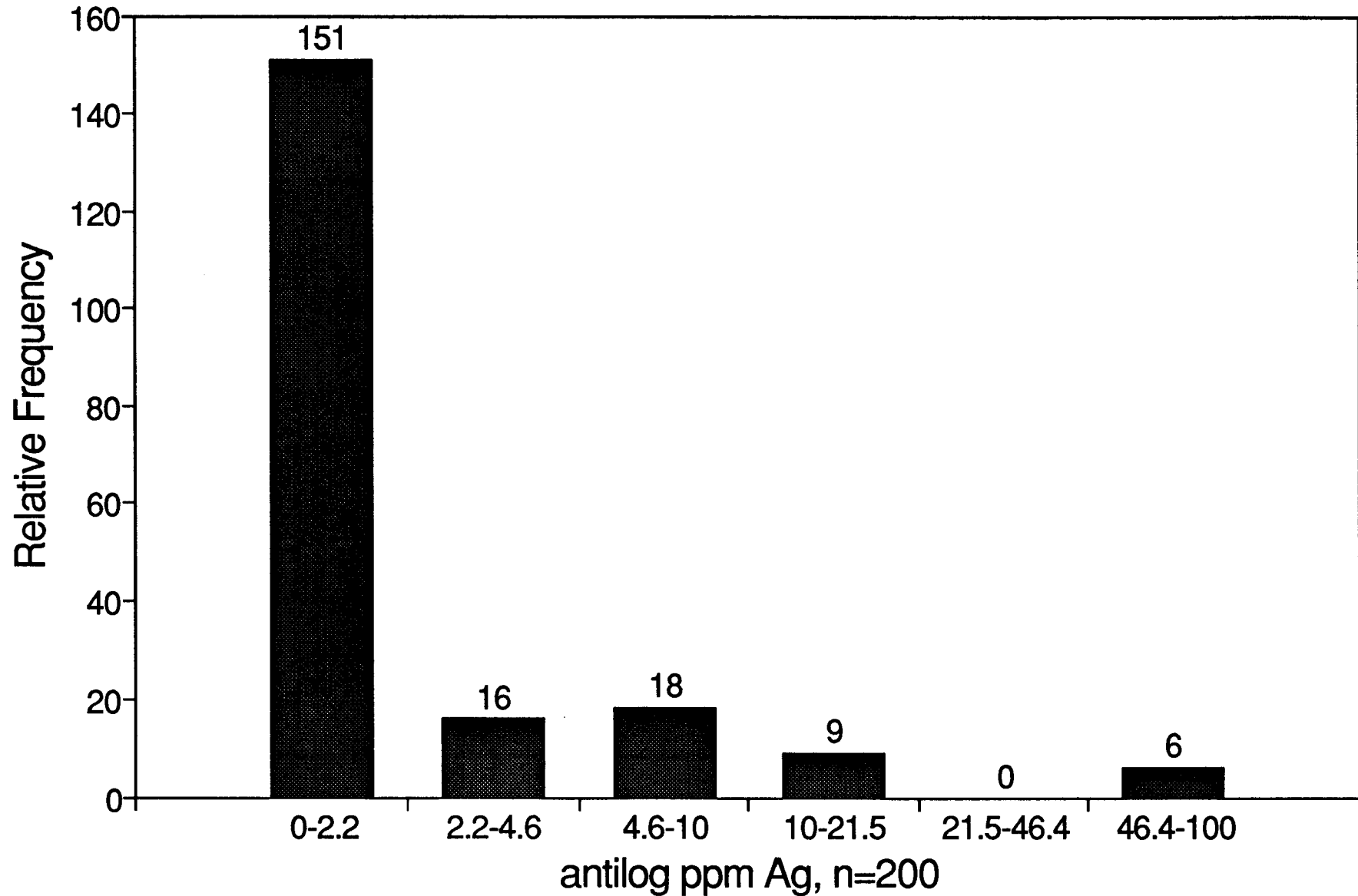
Lorrie Property

Log distribution of gold in rocks



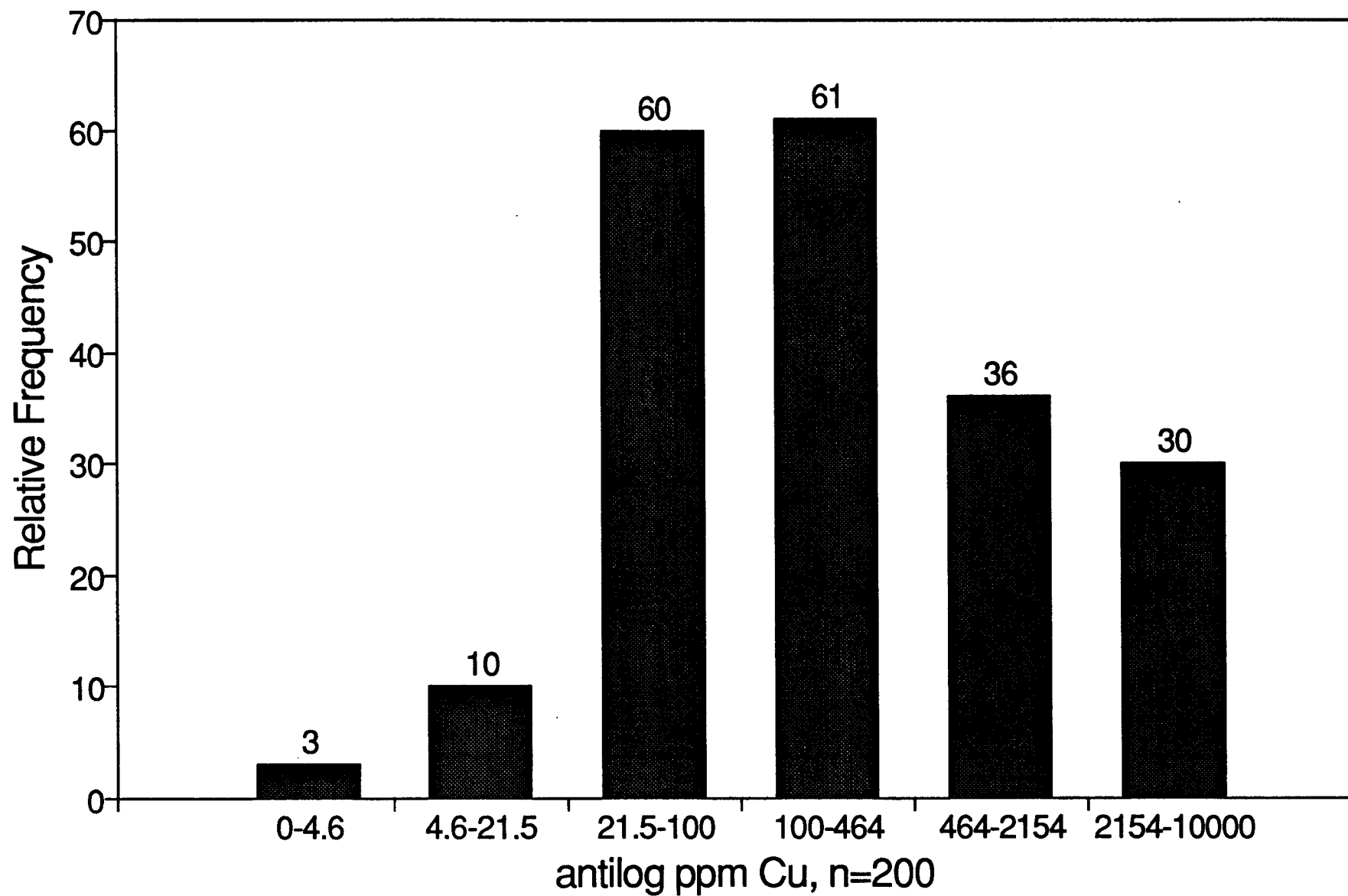
Lorrie Property

Log distribution of silver in rocks



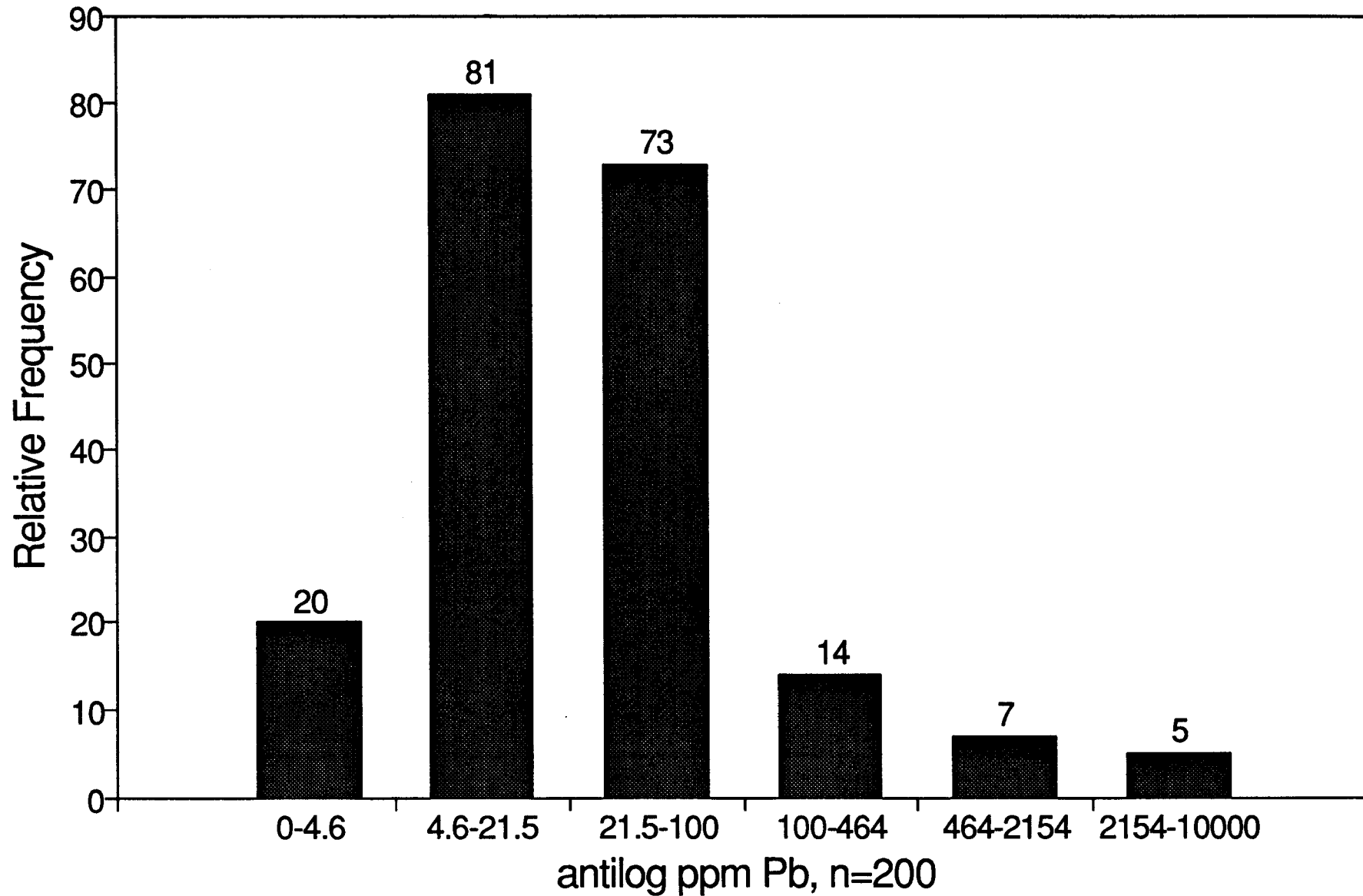
Lorrie Property

Log distribution of copper in rocks



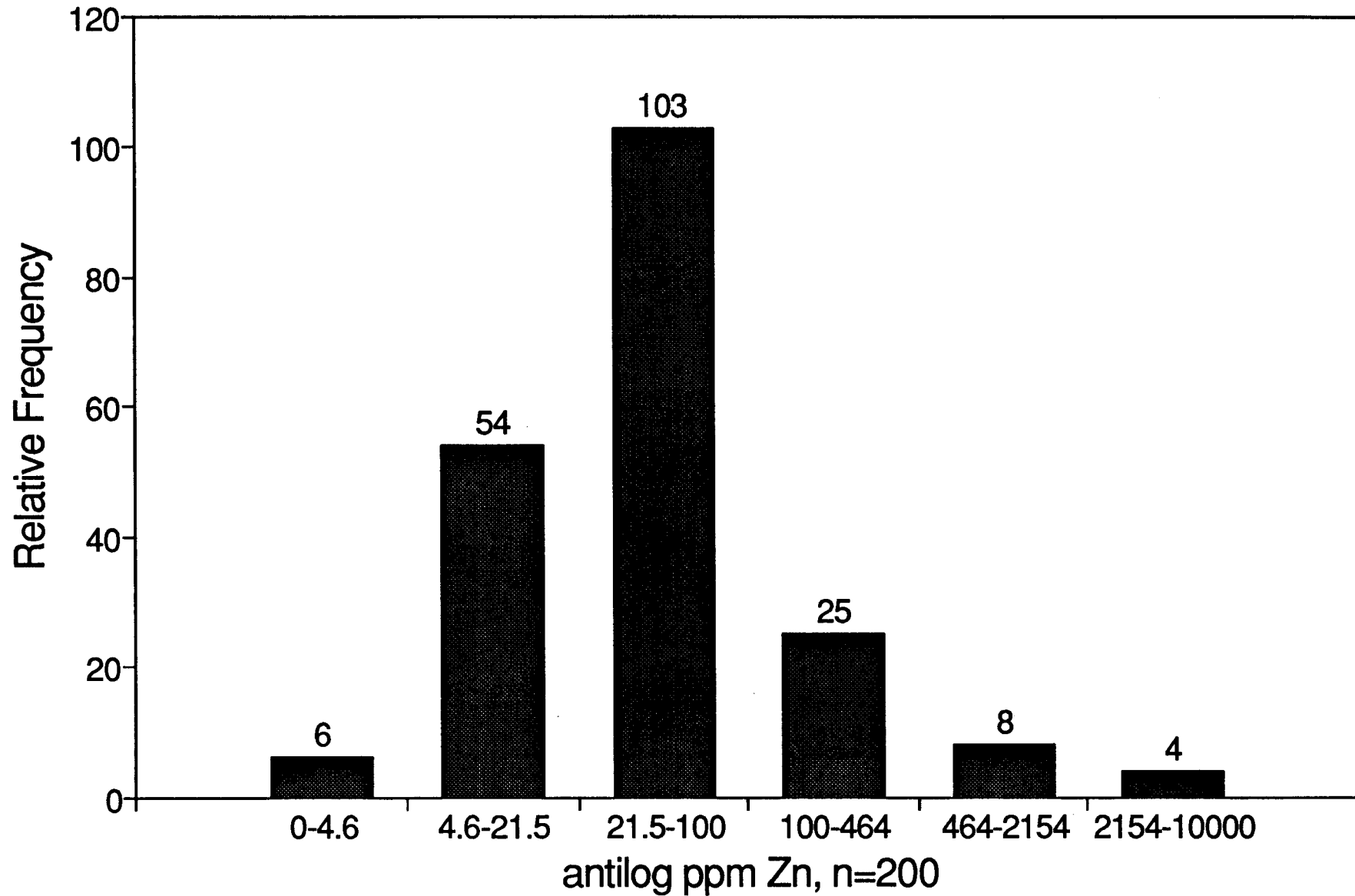
Lorrie Property

Log distribution of lead in rocks



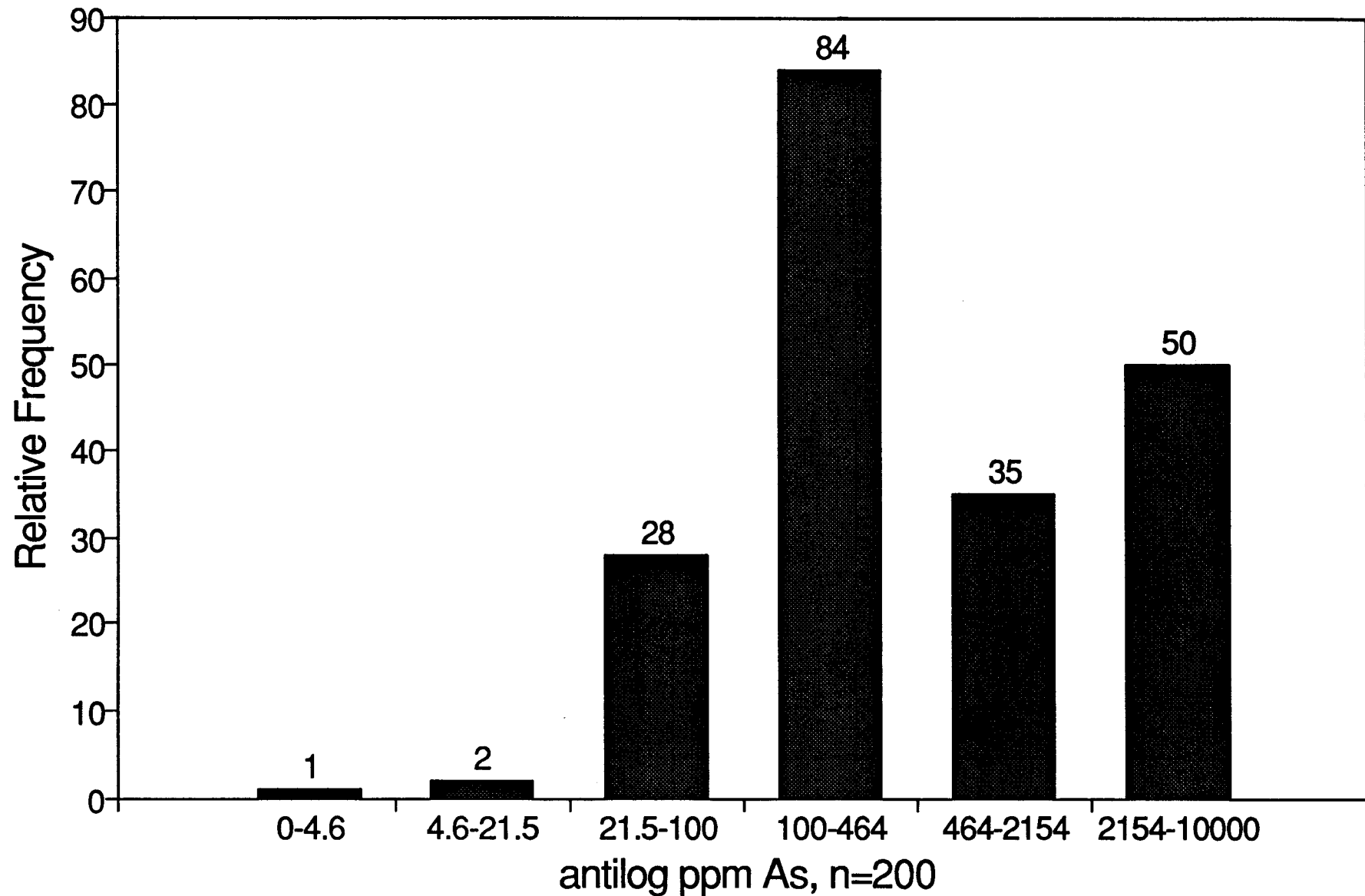
Lorrie Property

Log distribution of zinc in rocks



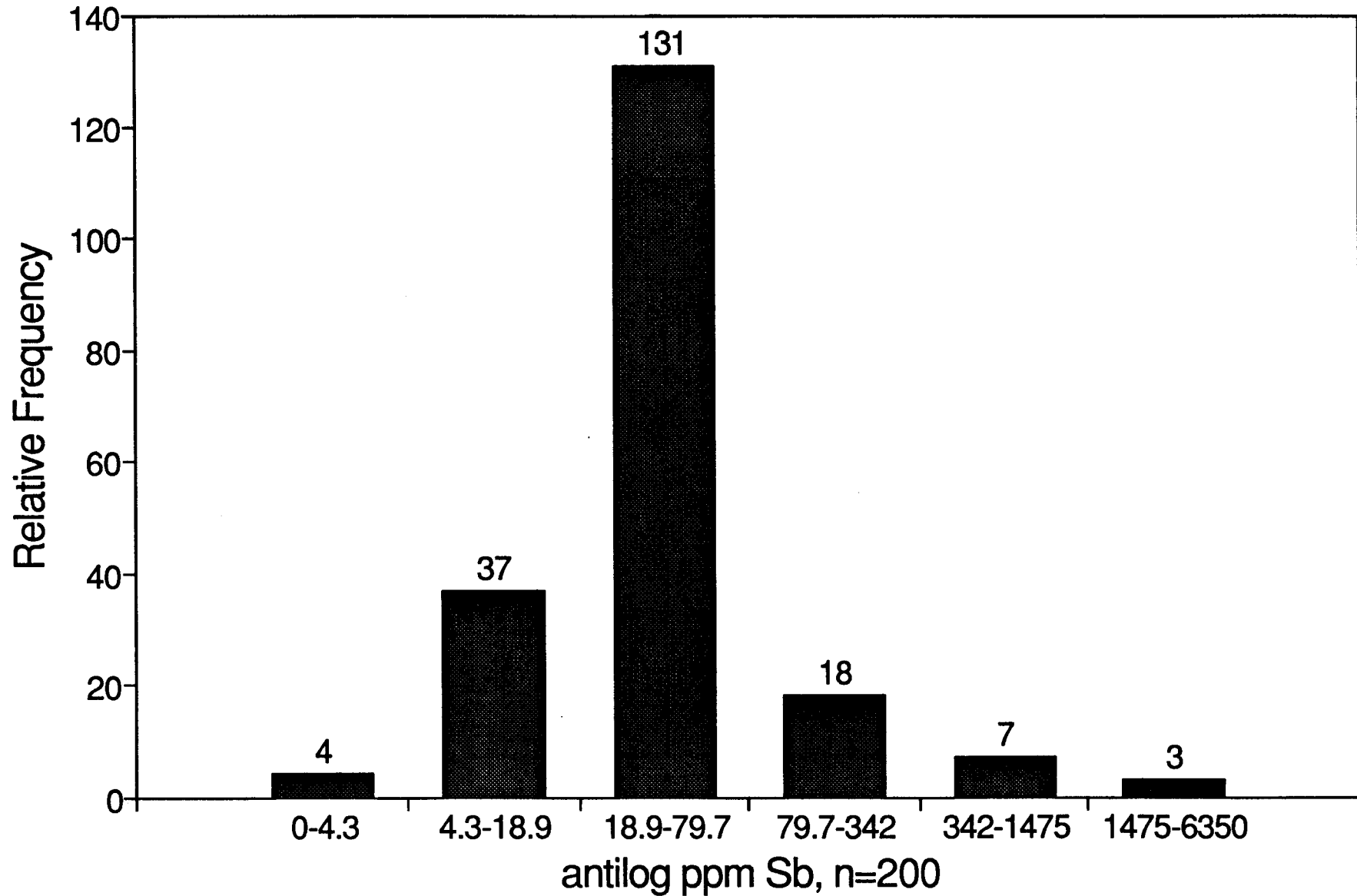
Lorrie Property

Log distribution of arsenic in rocks



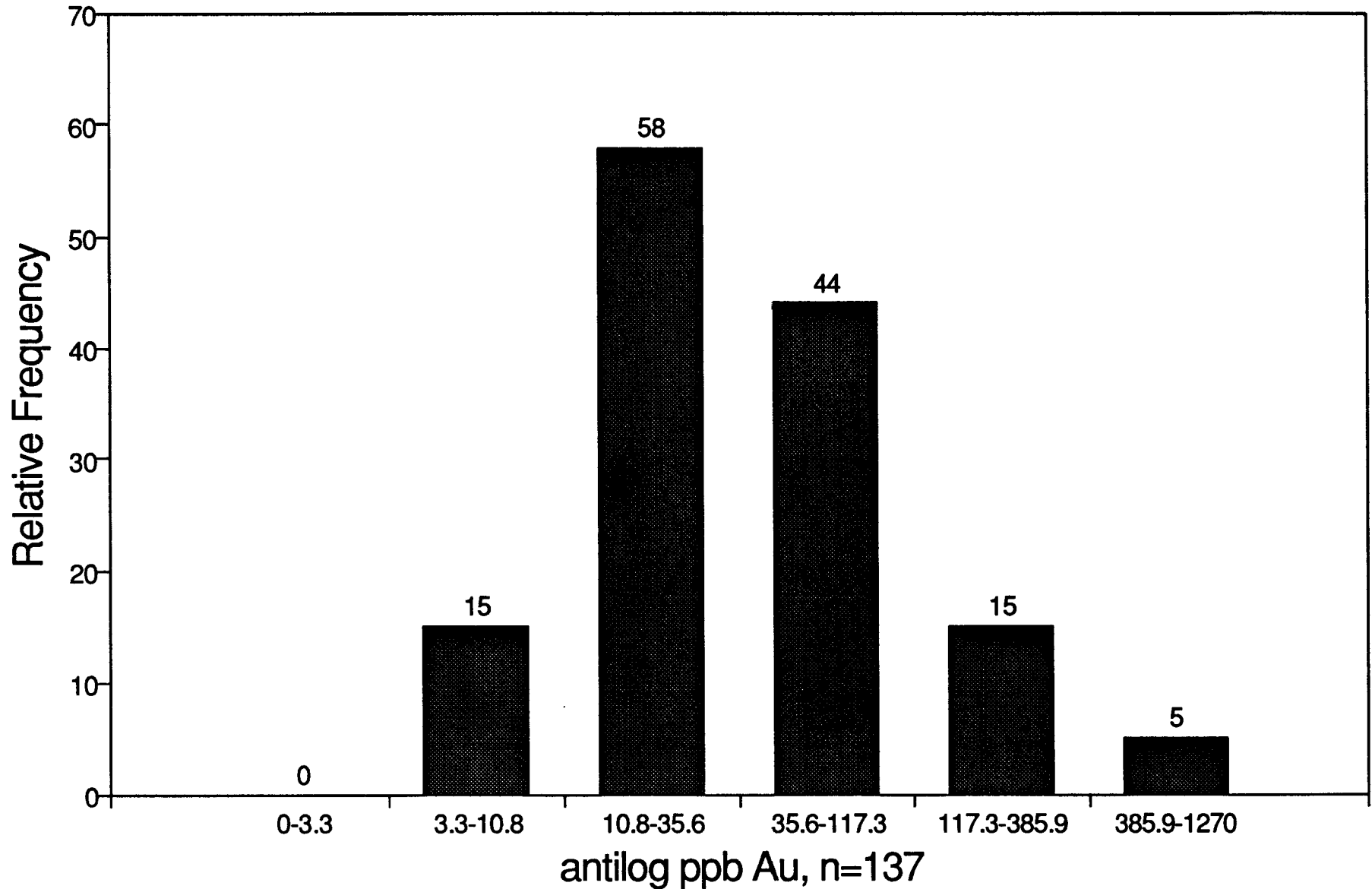
Lorrie Property

Log distribution of antimony in rocks



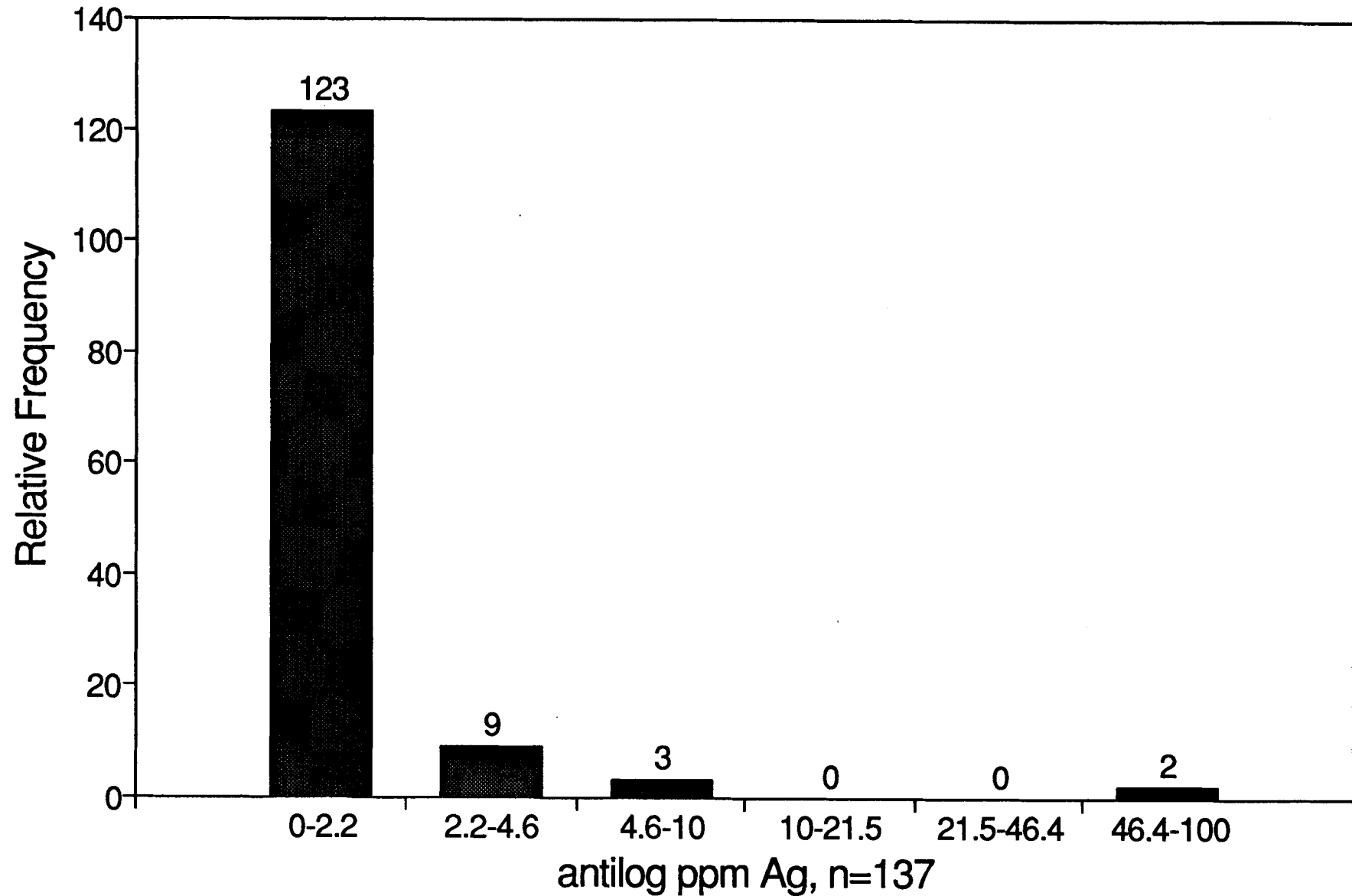
Lorrie Property

Log distribution of gold in sediments



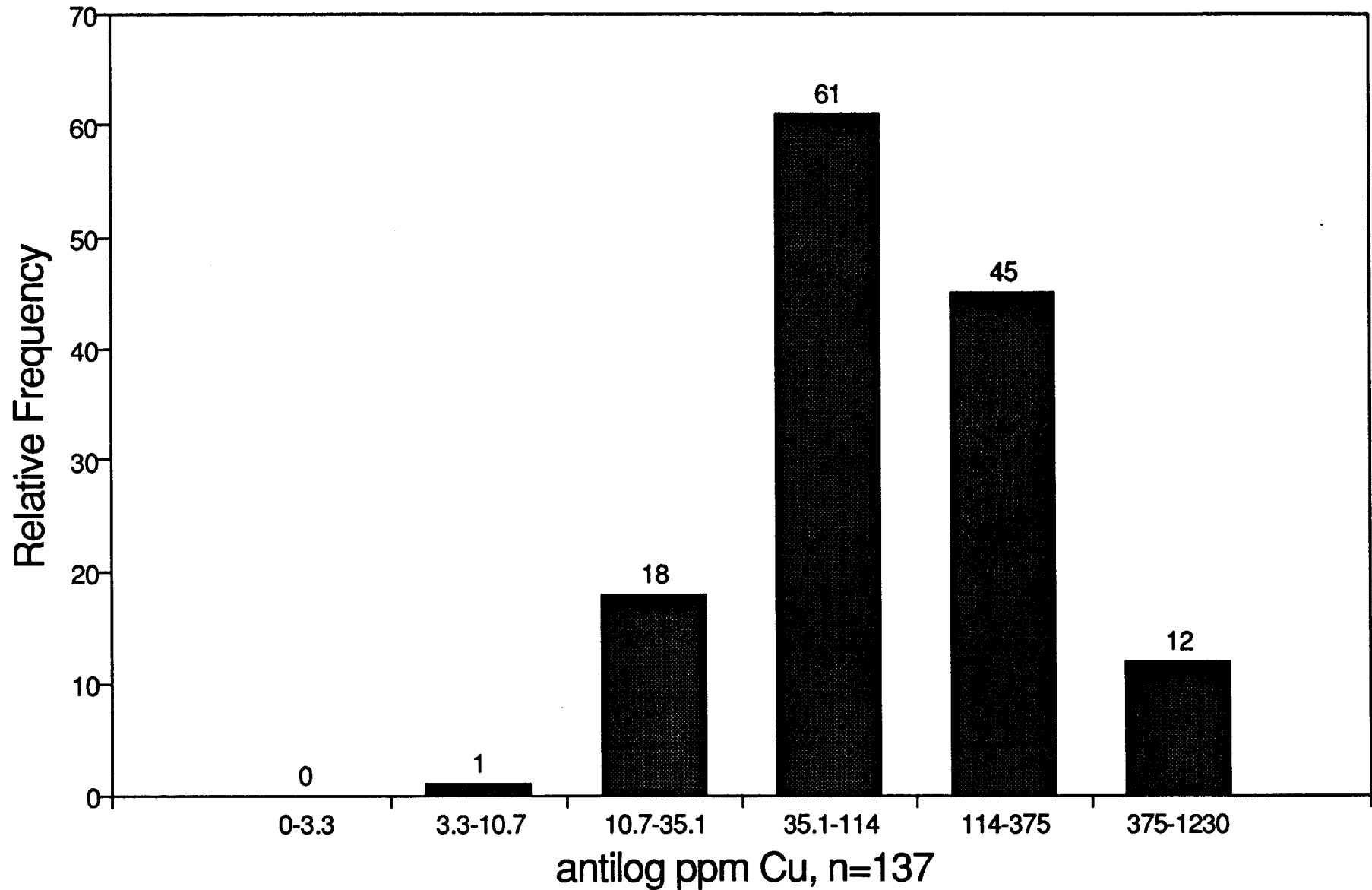
Lorrie Property

Log distribution of silver in sediments



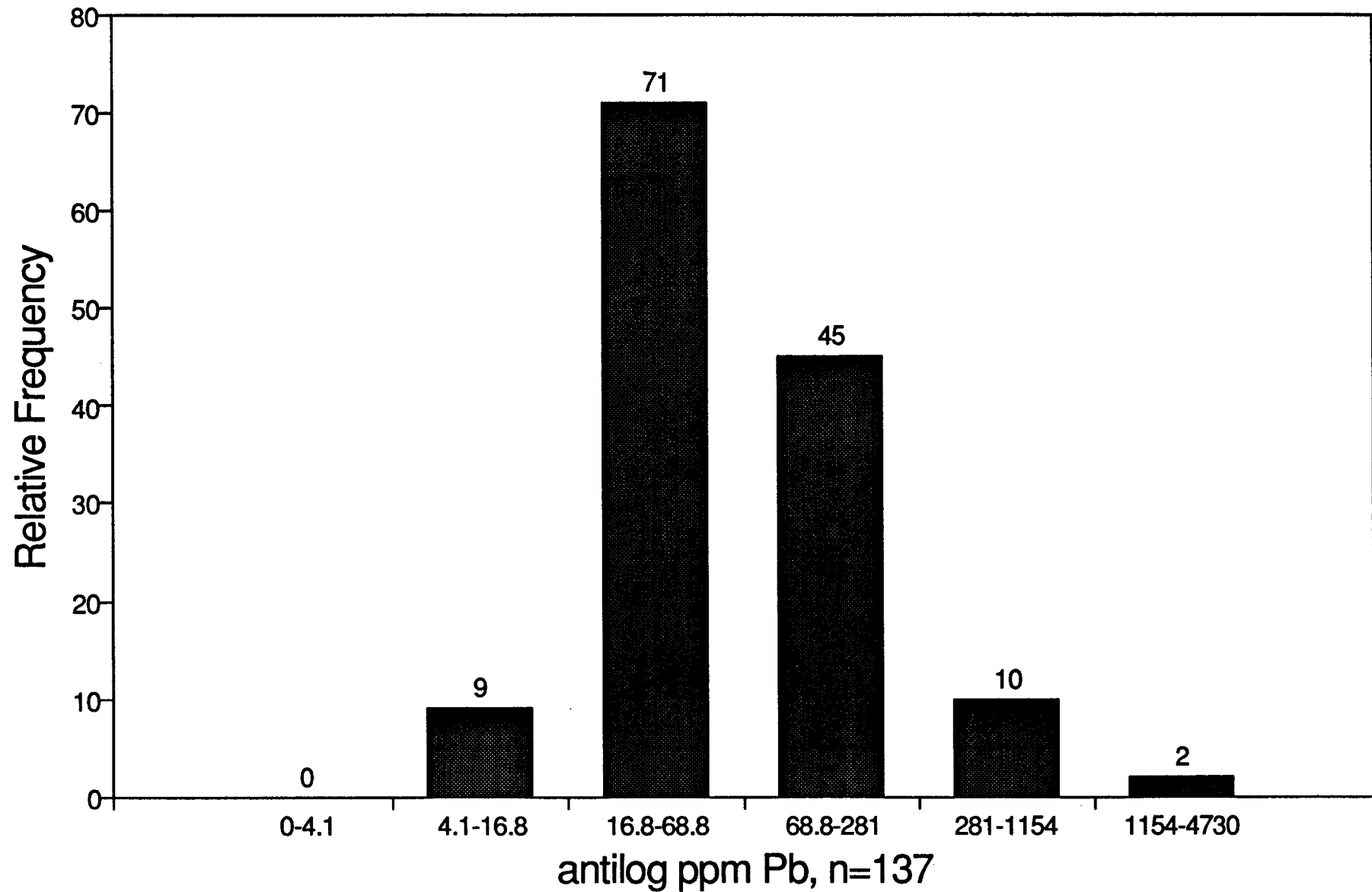
Lorrie Property

Log distribution of copper in sediments



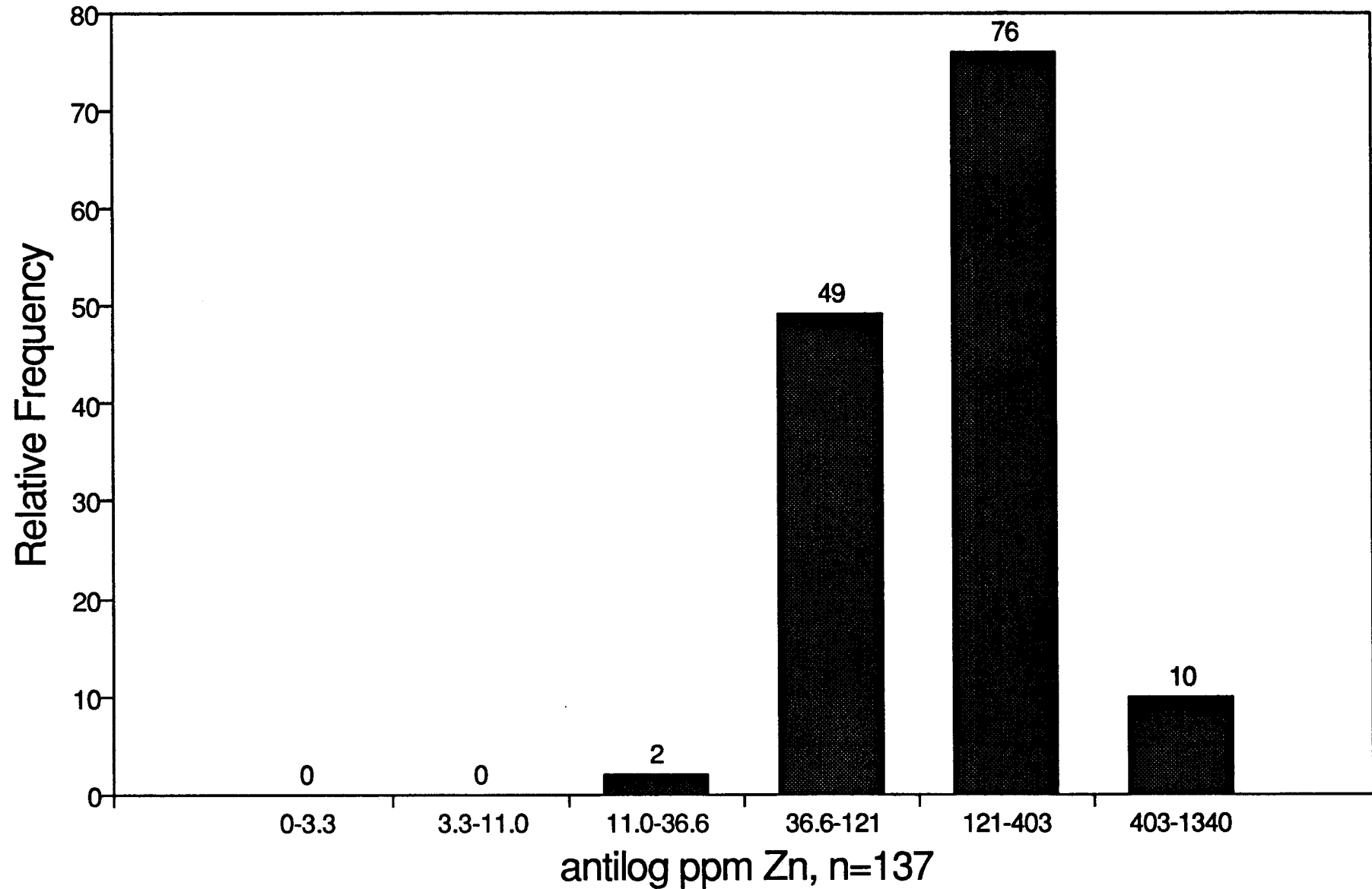
Lorrie Property

Log distribution of lead in sediments



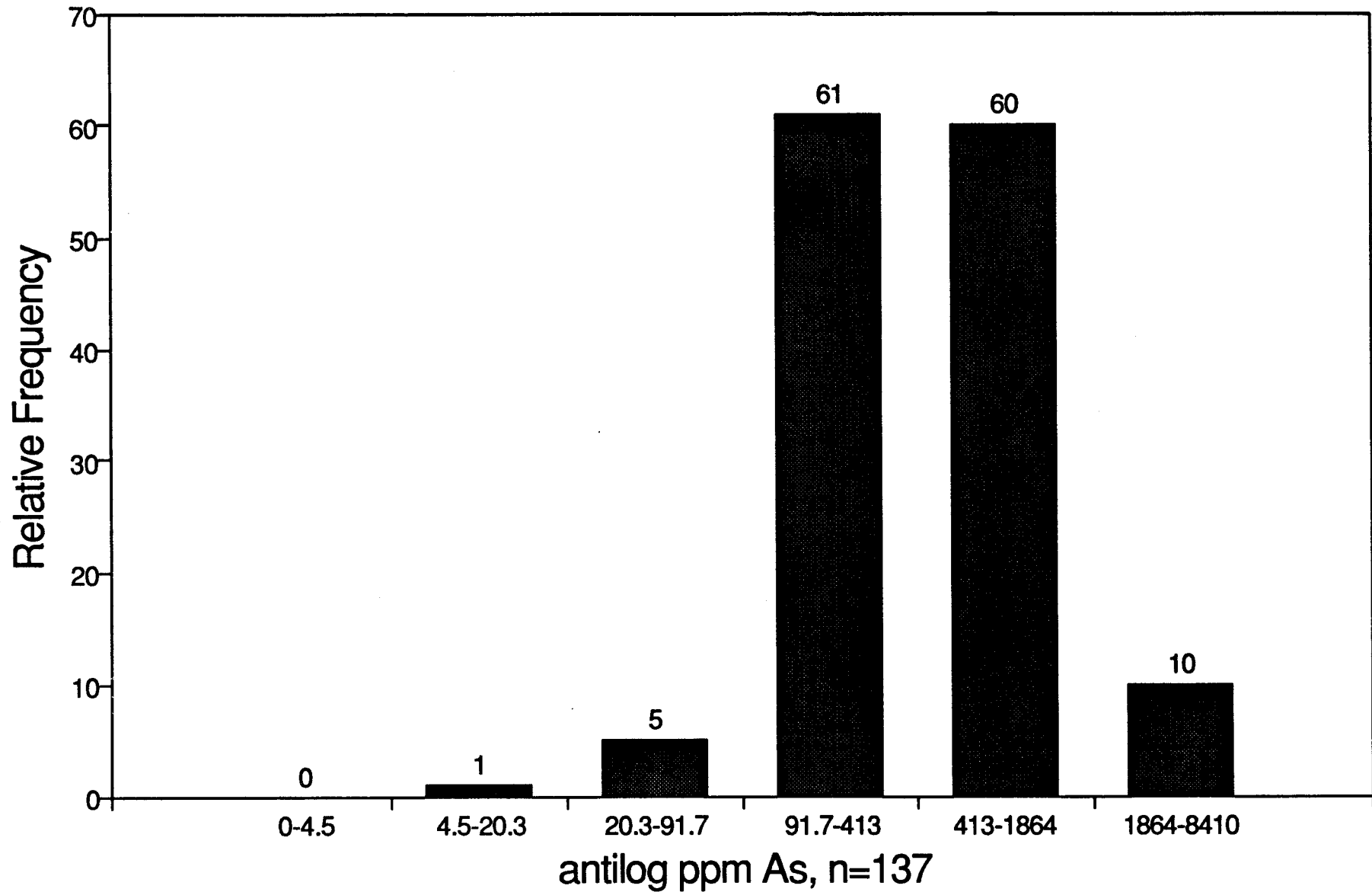
Lorrie Property

Log distribution of zinc in sediments



Lorrie Property

Log distribution of As in sediments



Lorrie Property

Log distribution of Sb in sediments

