

MAP No.

95-E-5,12

ASSESSMENT REPORT  
N. M. E. A. P.  
CONFIDENTIAL  
OPEN FILE

TYPE OF  
WORK: Geol, DDH, Geophy

REPORT FILED UNDER	Getty Pacific - General Crude Joint Venture	DOCUMENT NO. 061027
DATE PERFORMED	July 4 - Aug. 2, 1972	DATE FILED: April 24, 1973
LOCATION - LAT. LONG.	61°30'N	AREA: Flat River, Mack. - Yukon
	127°35'W	
CLAIM NO.	RAM 1-16 N 84788-803	
	ROD 1-32 N 84804-819, A 49082-097	
	TAM 1-55 Y 64238, 261, Y 64318-348	
VALUE \$11,600.00		
WORK DONE BY	D.R. Stelck	
WORK DONE FOR	Getty Mines Ltd.	
REMARKS	Geological mapping of the area, trenching, ground mag and 8 DDH totalling 3,276 feet failed to locate a significant ore deposit although 1.63 million tons grading 5.12% Pb, 5.42% Zn and 0.71 oz/ton Ag are indicated in the B Zone.	

061027

61° 30' N  
127° 35' W  
95-E-5, 12



EXPLORATION SUMMARY

GETTY PACIFIC-GENERAL CRUDE JOINT VENTURE  
YUKON - NORTH WEST TERRITORIES, CANADA

Submitted to: Mr. R. P. Blanc, Manager  
Minerals Exploration Operations  
Los Angeles, California

Submitted by: George B. Griswold  
Manager - Minerals Exploration  
Getty Mines, Limited  
Vancouver, B. C.

Prepared by: D. R. Stelck  
Exploration Geologist  
Getty Mines, Limited  
Vancouver, B. C.

December 1972

This report has been examined by the  
Geological Evaluation Unit  
as to technical worth by R. Hand  
Resident Geologist

Declared acceptable as representation  
work under Section 32 (b) and valued  
in the amount of \$ 14,600.00

R. Hand  
Chief  
Resource Management Division.

## TABLE OF CONTENTS

	<u>Page No.</u>
Summary and Recommendations	1
Exploration Program Summary	1
Work Completed	1
Land Position	1
Camp and Personnel	2
Transportation	2
Geology	3
Exploration Results	3
Southern Zone	4
Cirque No. 2	5
Trenching and Sampling	5
Table of Coordinates (Approximate) of Trenches	6
Diamond Drilling	8

## TABLE OF FIGURES

Figure 1.	Location Map	
Figure 2.	Geology of the Turner Property	(In Pocket)
Figure 3.	"B" Vein Sample Plan	(In Pocket)
Figure 4.	Geologic Detail of Southern Zone	(In Pocket)
Figure 5.	Drill Plan and Sections of Southern Zone	(In Pocket)
Figure 6.	Drill Section Cirque No. 2	(In Pocket)
Figure 7.	Detail Geology, Vicinity of Hole No. 8, Cirque No. 2	After text
Figure 8.	Cirque No. 1, Trenches 1, 2 and 3 - Sampling and Geology	(After text)
Figure 9.	Index of Cirque No. 2 Trenches	(After text)
Figure 10.	Cirque No. 2, Geology near Trench 1	(After text)
Figure 11.	Cirque No. 2, Trench 1 - Sampling and Geology	(After text)
Figure 12.	Cirque No. 2, Trench 2 - Sampling and Geology	(After text)
Figure 13.	Cirque No. 2, Trench 3 - Sampling	(After text)
Figure 14.	Cirque No. 2, Trench 4 - Sampling	(After text)
Figure 15.	East Creek, Southern Zone - Sampling and Geology	(After text)

## APPENDICES

Appendix A.	Claim List
Appendix A1.	Ram-Rod Claim Map
Appendix A2.	Tam Claim Map
Appendix B.	Diamond Drill Hole Summary
Appendix C.	Assay Intervals for Diamond Drill Holes

## SUMMARY AND RECOMMENDATIONS

Field work on the Turner property commenced on July 4, 1972 and terminated August 2, 1972. Considerable time was spent both before and after the actual physical work in preparation, mobilization and demobilization. Total monies expended on the project amounted to \$188,173 which was close to the proposed budget. Work completed this season on the Turner property did not prove the existence of a significant ore deposit and it is recommended to drop the property.

Reconnaissance of surrounding areas was also negative. In that the joint venture area between Getty Mining Pacific, Limited and General Crude Oil Company is large it is recommended that we dissolve the joint venture agreement.

## EXPLORATION PROGRAM SUMMARY

### Work Completed





The helicopter move from the Hyland air strip to camp began on June 27 and was completed in three full days. The camp was constructed and the diamond drill was set up and ready for the main portion of the crew who arrived July 4th.

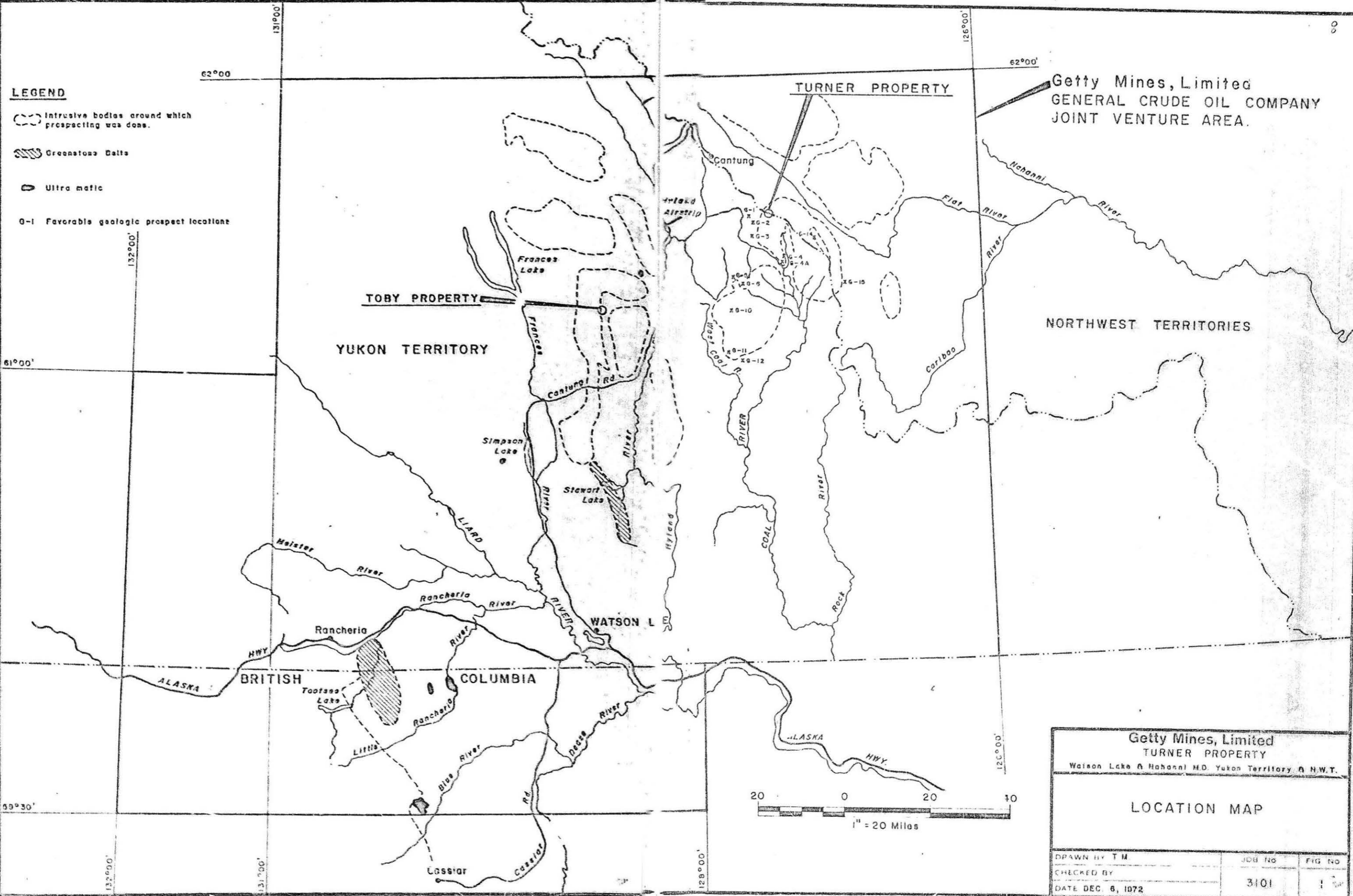
Between July 4th and August 2nd, 3276 feet of NQ-BQ wireline diamond drilling was completed in eight holes. During the same time period 1325 line feet of 3 feet wide 3 feet deep trenches were drilled, blasted and mucked. The area of interest (34,000 x 16,000 feet) was mapped on a scale of 1" = 400'. All trenches were mapped and sampled and the diamond drill core logged and sampled. Four line miles of ground magnetometer survey were initially completed over the south end of the property and then an additional ten miles of more detailed survey was done in the middle of July. At the same time, regional exploration was carried out, particularly in the area immediately surrounding the Turner property. In August, several other major parts of the joint venture area were looked at with the thought of establishing grass roots exploration play for the 1973 field season.

## LAND POSITION

All claims were checked during the summer and were found to be in

**LEGEND**

-  Intrusive bodies around which prospecting was done.
-  Greenstone Belts
-  Ultra mafic
-  G-1 Favorable geologic prospect locations



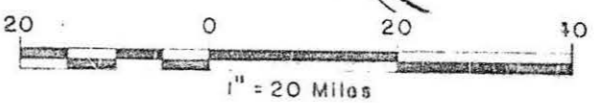
Getty Mines, Limited  
GENERAL CRUDE OIL COMPANY  
JOINT VENTURE AREA.

NORTHWEST TERRITORIES

YUKON TERRITORY

Getty Mines, Limited  
TURNER PROPERTY  
Watson Lake & Nahanni M.D. Yukon Territory & N.W.T.

**LOCATION MAP**



DRAWN BY T.M.	JOB No	FIG No
CHECKED BY	3101	1
DATE DEC. 6, 1972		

good standing. There are at present 103 claims with 55 Tam claims in the Yukon and 32 Ram, 16 Rod claims in the N. W. T. A list of claims and a location map are appended.

Applications for Certificates of Work were made in Watson Lake, Yukon Territory on September 7, 1972. The filings requested two years on each Tam 1 - 55 claims, nine years each on Ram 18 - 32 and four years on Ram 17. The Certificates of Work have not yet been received but no trouble is anticipated. Ram claims 1 - 16 and Rod claims 1 - 16 are in good standing until 1974.

No claims were abandoned and no new staking was done.

### CAMP AND PERSONNEL

The camp and ancillary service for the entire crew was supplied by Manex Mining Ltd. with Mr. G. Beley as camp manager. The camp catered and housed between 19 and 20 personnel as well as occasional visitors. Communications were supplied by a 120 watt transmitter receiver radio with local channels and a direct channel to long distance telephone services.

The Canadian Longyear diamond drill crew consisted of three drillers and three helpers under the capable direction of foreman E. Russel.

The Manex crew under G. Beley consisted of a trenching crew of three and a cook and helper.

Frontier Helicopters had a pilot and mechanic in camp for the duration of the program. The Getty staff varied between four and six.

### TRANSPORTATION

The entire program was helicopter supported. During mobilization and demobilization as many as two Jet Rangers, S55 and a 47G 3B1 were used. A 47G 3B1 was on a 200 hour contract during the summer. A total of 96:30 hours of jet ranger, 29:35 hours of S55, 207:50 hours of 3B1 and 4:20 hours of 47J-2 time were used. Fixed wing aircraft were used on occasion but total costs were low.

The main bulk of the camp and the diamond drill equipment were trucked from Vancouver and Kamloops to the Hyland strip. All of this material was then helicoptered the remaining 30 miles into the Turner property.

## GEOLOGY

Dr. R. A. Burwash mapped the area of interest on a 1" = 400' scale, see Figure 2. Through this mapping, along with the trenching and drilling, it was discovered that the only potential on the property was the "B" vein. All other high grade shows were found to be small calcareous lenses in the lower siltstone unit. These lenses had no continuity and were so widely separated as to have no economic value.

The Burwash mapping revealed that the entire sequence of sediments to be of Lower Cambrian age. These sediments form a column some 6000 feet thick of mainly siltstones and argillaceous limestones. A contact metamorphic aureole of 400-1200 feet wide surrounds the Cretaceous intrusive masses. The intrusive bodies are of two types, the main quartz monzonite batholith and an offset porphyritic granite. Further details are contained in the marginal notes description on Figure 2.

A. C. A. Howe International Limited carried out geologic mapping, trenching, sampling, magnetometer, electromagnetic and geochemical surveys in the fall of 1968 on both the N. W. T. and Yukon claims. The mag, EM and geochem surveys on the Yukon side were run over the ground presently covered by the Tam claims. The three surveys found definite conformable anomalies which were borne out by our own mag surveys.

Studies of the core and the geologic mapping of the property found that the original magnetometer and geochemical highs were directly related to the finely disseminated pyrrhotite and other sulfides in the lower siltstone member.

## EXPLORATION RESULTS

### "B" Zone

The "B" zone, which is a true vein situation, was found to be as good as originally anticipated from the A. C. A. Howe report.

Mapping and sampling of the vein indicated 1.63 MM tons grading 5.12% Pb, 5.42% Zn, 0.71 oz/ton Ag. (Based on 1635 tons per vertical foot over 1000 foot depth). This is not sufficient tonnage or grade for a profitable mining operation. See figure 3 for additional details of the sampling.

The "B" vein samples are thought to be reliable as leaching and oxidation of the sulfides was minimal. The vein strikes approximately north  $35^{\circ}$  and dips into the slope east between  $60^{\circ}$  and  $70^{\circ}$ . The vein consists of two distinct types of ore emplacement. The main vein is stringers of massive sulfides conformable to the vein, pinching and swelling as local conditions dictate. In some locations along the vein, particularly on the south end where the vein widens, the wall rock is a massive calc-silicate skarn into which the sulfides have been disseminated with apparent east. This may be the juncture of a cross fracture. The footwall and hanging walls are still relatively simple to pick as the grade goes from 8 - 9% Pb-Zn combined to less than 1%.

Naturally there are sections of the vein which are too low grade to be mined and the results should not be added to the tonnage. If selective mining were carried out leaving out blocks B and C the overall grade would substantially increase. By grouping blocks A, D - J, the orebody would be 1277.50 tons/vertical foot grading 6.06 Pb, 6.38% Zn, 0.81% oz/ton Ag.

#### Southern Zone

The A. C. A. Howe report indicated a magnetic and geochemical anomaly in the southern part of the map area. An eight foot wide band of excellent sulfides was exposed in a creek, coincident on strike, added credence to these anomalies. The geologic details of this area as now understood are shown in Figure 4.

A fan of diamond drill holes searched the area immediately under the sulfide band exposed in the creek, holes 1, 2, 4 and 5. Hole 3 was drilled directly through the magnetic anomaly, proving its source only to be simply high magnetite and pyrrhotite in siltstone (Unit 2). Detail mapping revealed that to the northwest the quartz monzonite had stopped its way to the base of this unit but it swung away into the limestone members of the underlying Unit 1 further to the southeast. It appeared that the pinch out of Unit 1 at this location was a possible ore control; therefore, holes 6 and 7 explored the contact along strike. The magnetic survey was used

to spot both of these holes so as to pass under subsidiary anomalies satellite to the strongly magnetic siltstone. The results of the drilling are shown in Figures 5 and 6. The sulfide band exposed in the creek proved to be of limited extent. While chip samples of the 8 foot wide outcrop revealed results as high as 20% combined lead and zinc, the best drilled intercept was in Hole 2 which had 2.5% combined over 6 feet. The sulfides are related to a typical marble-tactite contact, and considerable pyrrhotite and magnetite occur along with galena and sphalerite.

### Cirque No. 2

Geologic mapping by Burwash revealed that the quartz monzonite had penetrated through the Unit 2 siltstone at the head of Cirque No. 2, in the vicinity of coordinates 102000 N, 30000 E. A considerable amount of tactite and recrystallized limestone were developed in Unit 3, and some lenses of galena and sphalerite were found by prospecting. A long inclined hole, No. 8, was drilled to test this area. The hole was collared near coordinates 103000 N, 31000 E, and drilled S 50° E at -45° to a 768 foot depth. The location was selected so as to penetrate under a glacial debris covered area containing random outcrops of tactite and marble, a few of which contained small lenses of galena and sphalerite. The hope was that a large mass of replacement ore lay hidden under the glacial debris. See Figure 7 for additional details. The drill hole contained substantial intercepts of pyrite and pyrrhotite, but economic sulfides were limited to bands less than one foot in width, see assay data.

### Trenching and Sampling

Chip sampling and detail mapping of the blasted trenches in Cirques 1, 2, 3 and 4 were completed in seven days during the latter part of July. The sampling was carried out by Steve Weir, a third year UBC geological engineering student and Gerry Delane, and the mapping of selected trenches in Cirques 1 and 2 by Gerry Delane. A total of 1325 feet of trenching was blasted.

The assay results of sampling of trenches 1, 2 and 3 in Cirque No. 1 proved to be disappointing with only sub-economic amounts of Pb-Zn-Ag mineralization apparently present. See Figure 8. The best 5-foot sample interval was present in trench 1 where an assay of 2.00% Pb, 1.82% Zn, 1.82% oz/ton Ag. was obtained. Mineralization is composed of sphalerite, pyrrhotite, galena, traces of chalcopyrite and malachite, and was found to be restricted to north-

easterly-trending fractures or joint planes in sheared skarn zones near the contacts of calc-silicate siltstone rocks and marblized limestones.

Four trenches were sampled in Cirque 2 the results of which indicated the presence of mineralization of a considerably higher tenor than in Cirque 1. See Figures 9 - 14. The best concentrations of mineralization in these trenches were found as pods or lenses in fractured skarn zones which appeared to be developed near the calc-silicate siltstone-marble contacts in close proximity to quartz monzonite intrusives. The best continuous sample section in trench 1 averaged 5.3% combined Pb-Zn, and 0.65% oz/ton Ag, over 35 feet.

In Cirque 6, four trenches were cut of which only one appeared to warrant sampling and its assay results are 3.02 % PB, 4.00% Zn, 0.05% Cu, 3.17 oz/ton Ag over 6.8 feet.

Two trenches were cut in the East Creek Zone of which only one warranted sampling. This trench was exposed on the creek bank and exhibited mineralization which averaged in grade 3.98% combined Pb-Zn, 0.36% oz/ton Ag over 24 feet. Other details are shown in Figure 15.

In summary, the mapping and sampling of the trenches have illustrated the lensey and erratic nature of the mineralization which is generally typical of a contact metamorphic-skarn occurrence. Although some specific sample intervals did assay reasonably high, these were generally found to be of limited dimensions and too restricted to be considered to be economically important either individually or collectively.

Table of Coordinates (Approximate) of Trenches

<u>Cirque</u> <u>No.</u>	<u>Trench</u> <u>No.</u>	<u>Coordinates</u>		<u>Bearing of</u> <u>Trench</u>	<u>Length of</u> <u>Trench</u>
		<u>North</u>	<u>East</u>		
1	1	105+400	35+017	355°	45'
1	2	105+480	35+000	345	27
1	3	105+540	35+053	150	32
2	1	103+100	32+150	120	135
2	2	103+545	32+225	140	55

/..

**GEOLOGY OF THE TURNER PROPERTY,  
UPPER COAL RIVER AREA, YUKON TERRITORY  
AND DISTRICT OF MACKENZIE**

By R. A. Burwash, Ph.D., P. Geol.

**SUMMARY**

The Turner Property is located along the boundary of a quartz monzonite batholith which intrudes a thick sequence of Lower Paleozoic carbonate rocks. The sedimentary rocks, inferred to be of Lower Cambrian age, consist of several well-developed units or dominantly argillaceous to silty limestone beds which aggregate approximately 6500 feet in thickness. The sedimentary rocks preserve the regional strike of the Cambrian, dipping N 30° W. The contact between the intrusive batholith and the carbonate rocks is transitional. The batholith is approximately 22 miles by 12 miles with the long axis oriented N 45° W. Emplaced by forceful injection, the brittle contact aureole and the outer rim of the batholith have both been highly fractured with a number of veins carrying granitic gneiss. The calc-silicate skarn at the contact is widely distributed, containing spherulite and galena which locally reach concentrations of more than 20% combined Pb-Zn.

**SEDIMENTARY ROCKS**

The Lower Paleozoic strata exposed on the Turner Property have been separated into six map units. On the basis of comparison with previously published stratigraphic sections for this area (Gabrielse, Roddick and Blusson, 1965; Blusson, 1968) all units are of either Lower or Middle Cambrian age. No identifiable fossils were found during the present field work despite care in examining weathered surfaces for possible remains of Archeocyathids.

Map units 1 to 4 form a conformable sequence 5000 to 6000 feet thick. The base of the section is not exposed, the lowest beds being transgressed by an intrusive contact. Map unit 1 is poorly exposed and lies almost entirely within the metamorphic aureole of the intrusive. The fine metamorphic rock assemblage was probably dominantly limestone, with interbedded calcareous siltstones and mudstones. As metamorphosed, the unit consists of calc-silicate hornfels, siliceous hornfels and minor beds of medium-grained marble. The contact between map units 1 and 2 is transitional, with several thin beds of unit 2 lithology occurring in the upper part of unit 1.

Map unit 2 has proved to be the most useful stratigraphic marker within the map area. Where not transgressed by the intrusive, it consists of approximately 400 feet of fine-grained, non-calcareous, pyritic siltstone. This unit is dark grey (N3) on fresh surface, but changes to a distinctive moderate brown (5YR 4) on weathered surface. The fresh rock appears massive, but fine laminations of oxidized pyrite permit determination of attitude on weathered surfaces. Adjacent to the intrusive contact this unit is metamorphosed to a quartz-biotite hornfels, with disseminated pyrite. The upper 50 feet of unit 2 contain interbedded dark grey limestone, suggesting that units 2 and 3 are conformable.

Above map unit 2 a thick (3000 to 4000 feet) sequence of limestones proved difficult to separate into defined map units. The lower half (map unit 3) is a light to medium grey limestone characterized by fine laminations on a scale of 1 to 5 mm. These laminations may be colour laminations on the fresh surface or fine raised ridges on the weathered surface. They apparently represent variation in lime-silicic clay shales. Within the thinly laminated limestones (3a) are a number of beds of very light grey calcareous siltstone (3b) which may reach 100 feet in thickness. A prominent siltstone bed exposed on the ridge west of the base camp was conspicuous for a distance of approximately half a mile, but could not be traced northward into the main belt of sediment. Several other lithologically distinctive beds were encountered on one profile, but could not be traced laterally.

The boundary between map units 3 and 4 lies in a transitional zone several hundred feet thick where the finely laminated structure progressively changes to a "wavy banded" structure on weathered surface and finally to a "rough pitted weathering" surface. Beds of finely laminated limestone recur through the transition zone, making a precise map boundary difficult to draw.

Map unit 4 is a massive-weathering limestone conglomerate in which subangular to subrounded elongate clasts of limestone lie along bedding planes separated by wavy banded argillaceous limestone. The pure limestone clasts are finely weathered out, producing the typical "Swiss cheese" limestone referred to by Blusson (1968, Fig. 8). Changes in size, shape, rounding and abundance of clasts produce a wide range of textures on weathered surface.

The stratigraphic relationship between map units 4 and 5 is difficult to define. One of the two unmetamorphosed contacts examined appears to be an unconformity with slight angular discordance. The other contact mapped has marked angular discordance and could be interpreted either as a fault with breccia or as an unconformity. The breccia is exposed along a creek bed along a strike length of less than 15 feet. It varies in thickness from 4 inches to 3 feet. The fragments in the breccia are entirely angular and consist of milky quartz and calcite, resembling those in well-defined shear zones which cut unit 4 at other localities. The most likely relationship of units 4 and 5 is unconformable, with local shearing along the contact.

Unit 5 is an aphanitic, greyish black, calcareous, pyritic, argillaceous siltstone. It resembles unit 2 in its rusty-weathering characteristics but is calcareous and slightly darker in colour. It is possible that units 2 and 5 are the same stratigraphic unit, but this would require a more complex structural interpretation than that shown on the map. It seems probable that unit 5 marks the base of a third sedimentary sequence in the Cambrian rocks in this area.

Unit 6 lies conformably on unit 5, with the transition zone marked by a decrease in silt content and the reappearance of sparse limestone clasts similar to those in unit 4. Fine laminations are due to concentrations of clay minerals along bands 1 to 5 mm. apart. Pyrite occurs as very finely disseminated grains.

**SEDIMENTATION**

The inferred conditions of sedimentation of the Cambrian rock units are as follows:

- (1) Lower carbonate sequence (map unit 1) — shallow water, continental shelf environment with limited clastic influx into a restricted, super-saline basin.
- (2) Pyritic siltstone (map unit 2) — rapid influx of fine silt from low-lying craton to the north-east, possibly with slight deepening of the basin.
- (3) Middle carbonate sequence (map units 3 and 4) — return to stable conditions of (1). No direct evidence found of biogenic limestones, but the greyish-grey limestone beds resembling those containing Archeocyathids in the Yellowhead Pass area, west central Alberta. During the later part of this time interval, the water depth increased, with the initiation of a period of folding. Clasts of pure limestone, derived from the shallower rim of the basin, were added to the normal marine argillaceous limestone matrix of unit 4. At the end of the sequence parts of the area were raised above sea level.
- (4) Upper Carbonate sequence (map units 5 and 6) — the organic-rich pyritic, calcareous siltstone marking the transgression of the sea over the folded units 1 to 4 is transitional upward into normal deep-water marine argillaceous limestone. The top of this sequence has been truncated by erosion.

**IGNEOUS ROCKS**

The map area includes the northwestern margin of a large (250 square miles) batholith which straddles the Yukon-Northwest Territories boundary north of the headwaters of the Coal River (herein referred to as the Turner batholith). The marginal phase of the Turner batholith is a medium-grained, equigranular, hornfelsic quartz monzonite. A fine-grained marginal zone, up to 25 feet wide suggests rapid intrusion of a fairly dry but completely liquid magma, probably in the 700 to 800°C range.

A small stock in the southwest corner of the map area is a porphyritic biotite granite. Microcline phenocrysts up to 2 inches in length form 25 to 35% of this rock, set in a matrix of medium-grained microcline, plagioclase, quartz and biotite. Two small outcrops of this body in the creek bed south of the base camp had phenocrysts up to 3 inches in cross-section. The porphyritic granite is found in a number of other stocks in the area, apparently representing a slightly later, more hydrous phase of the intrusive activity. On the basis of similarity with igneous rocks described from the Canada-Turner property (Blusson, 1968), a mid-Cretaceous age (110 m.y.) is assigned to the batholith and stock.

Associated with, and slightly later than the Turner batholith are a series of intrusive sheets of porphyritic felsite and aplite. The rusty-weathering felsite dikes cut both of the margins of the batholith and the metamorphic aureole, filling fractures with very irregular margins. The number and irregularity of these dikes made detailed mapping of their contacts impractical in the time available. The aplite dikes are less abundant than the felsite, and younger in the few localities where both occur together.

**CONTACT METAMORPHISM**

The northwestern margin of the Turner batholith intrudes either siltstone (unit 2) or carbonate rocks with varying silt and clay content (units 1 and 3). Four distinct metamorphic rock types can be recognized in the inner metamorphic aureole. The siltstone recrystallizes with increase in hornfels. Passing away from the contact the rock becomes finer-grained and darker in colour. In both the inner and outer aureole the siltstone contains pyrite and/or pyrite, making the stratigraphic unit magnetically magnetic.

The calc-silicate metamorphic rocks are completely gradational in mineralogy and texture, but three specific variations can be described. A narrow (5 to 10 foot) contact skarn zone is almost always present between the quartz monzonite and the impure limestones. This rock varies from microcrystalline to fine-grained, weathers a distinctive brown (5YR 3.4) and is highly fractured. The minerals normally present are calcite, diopside, vesuvianite, grossularite and pyrite, with or without spherulite and galena.

Outside the skarn zone the most common metamorphic rock is a fine-grained, granoblastic calc-silicate hornfels, consisting of varying proportions of calcite, diopside, vesuvianite, tremolite, scapolite and pyrite. On fresh surface the colour varies from light grey (N7) to light brown grey (5Y 7), weathering very light grey (N8) to light brownish grey (5Y 7.5). The combination of colour and hardness make this rock difficult to distinguish from unmetamorphosed limestone of unit 2b, since both effervesce with cold 6N HCl.

Fine to medium-grained marble is a relatively rare rock type, occurring as narrow bands within the calc-silicate hornfels. The colour is very light grey on fresh and weathered surface. Minor metamorphic aureole surrounding the small stock of porphyritic granite contains little observed contact skarn, but the other rock types are similar. Where map unit 4 is metamorphosed, the original limestone pebbles change to a fine-grained marble, while the matrix changes to calc-silicate hornfels. The marble weathers more readily than the hornfels, producing the same weathering patterns as the unmetamorphosed "Swiss cheese" limestone.

**STRUCTURE**

The Lower Cambrian sedimentary rocks are part of the Lower Paleozoic belt which extends throughout the length of the Western Canadian Cordillera, marginal to the stable continental interior. The regional strike of N 30° W is preserved away from the intrusive contacts. Near the batholith the metasedimentary rocks assume attitudes closely parallel to the contact. The succession as a whole dips steeply to the west. Minor folds have been recognized locally in units 3 and 4, particularly in the northern part of the map area. The absence of an easily recognizable marker bed in units 3 and 4 makes detailed analysis of the fold pattern difficult. The folds on the north flank of the batholith are of larger amplitude and more open than those mapped on the west flank.

The uncertainty regarding relations between map units 4 and 5 has been mentioned. Search for a mappable fault zone along the west side of the main ridge of sedimentary rocks proved fruitless. None of the ridges of outcrop immediately west of the area of the area mapped showed traces of major fault planes obvious from low-level helicopter observations. In terms of the detailed structure sections shown by Blusson (1968), repetition of strata by folding seems to be more important than by faulting.

The granitic batholiths and stocks of this area are high level plutons, apparently emplaced mainly by forceful injection into the country rock, with near-vertical contacts common. The Turner batholith is approximately 22 miles by 12 miles, with the major axis oriented N 45° W. Both the marginal phase of the batholith and surrounding metamorphic aureole are cut by a multitude of porphyritic felsite sheets, generally between 10 and 100 feet in thickness. Three preferred orientations are noted for these sheets:

- (1) near vertical dykes radial to the core of the batholith
- (2) sheets striking parallel to the contact which dip inward at low angles (eg 30°)
- (3) sheets striking parallel to the contact which dip inward at steep angles (eg 60 to 70°)

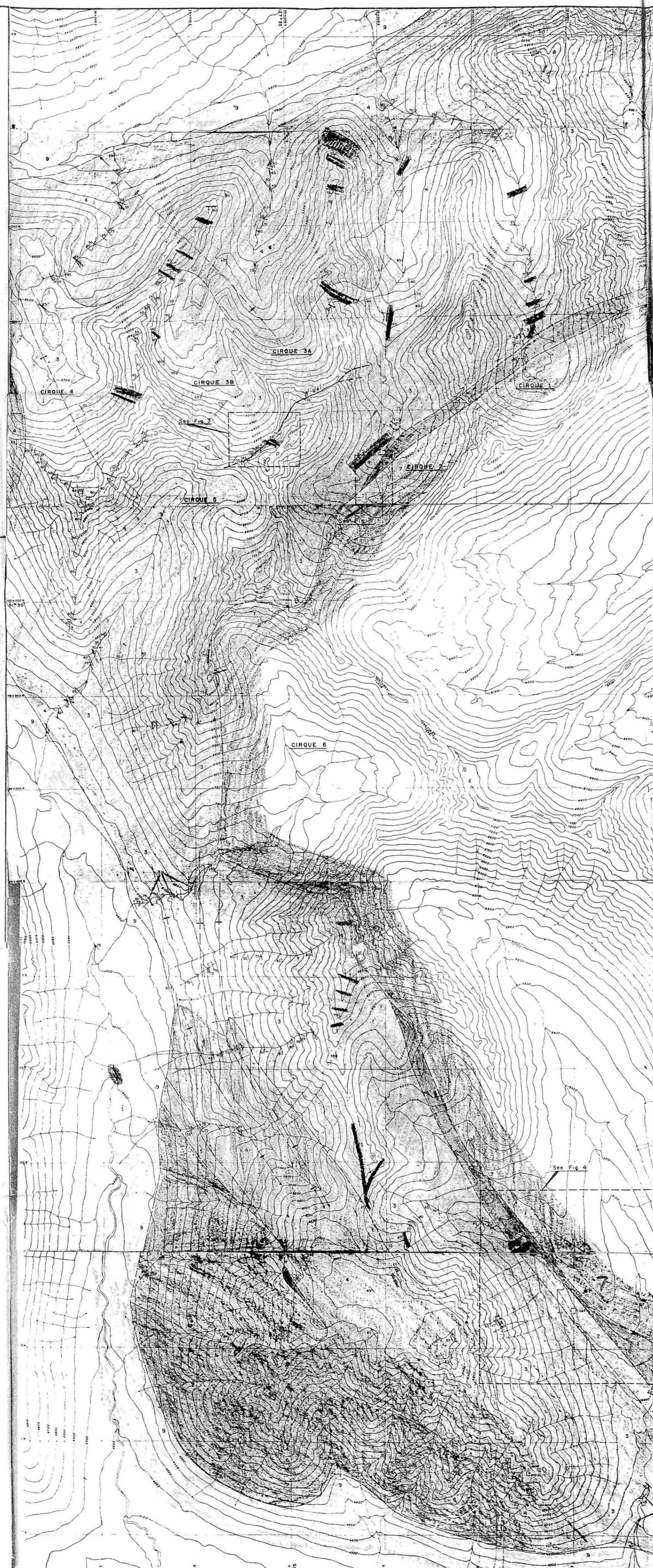
The last set of dykes closely parallel the orientation of the fracture system which carries sulphide mineralization near the northwest corner of the batholith (the "B" zone).

**DISTRIBUTION OF LEAD-ZINC SULPHIDES**

Sphalerite and galena are widely distributed within the skarn zone at the immediate contact with the batholith. The distribution is erratic in detail, but the highest Pb-Zn concentrations seem to occur where carbonate rocks and the pyritic siltstone both occur near the contact. The vein system of the "B" zone Pb-Zn occurrence fits the classical pattern of a marginal thrust (Billings, 1954, p. 327) formed in the late stages of the intrusion of the batholith. As in the occurrences along the western margin, the wall rocks which occur adjacent to the "B" zone are map units 2 and 3. The concentration of sulphides here undoubtedly reflects the replacement of sheared carbonate by the action of hydrothermal solutions.

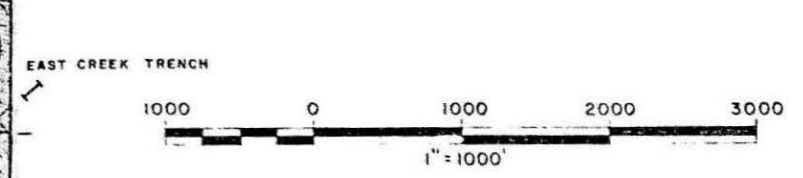
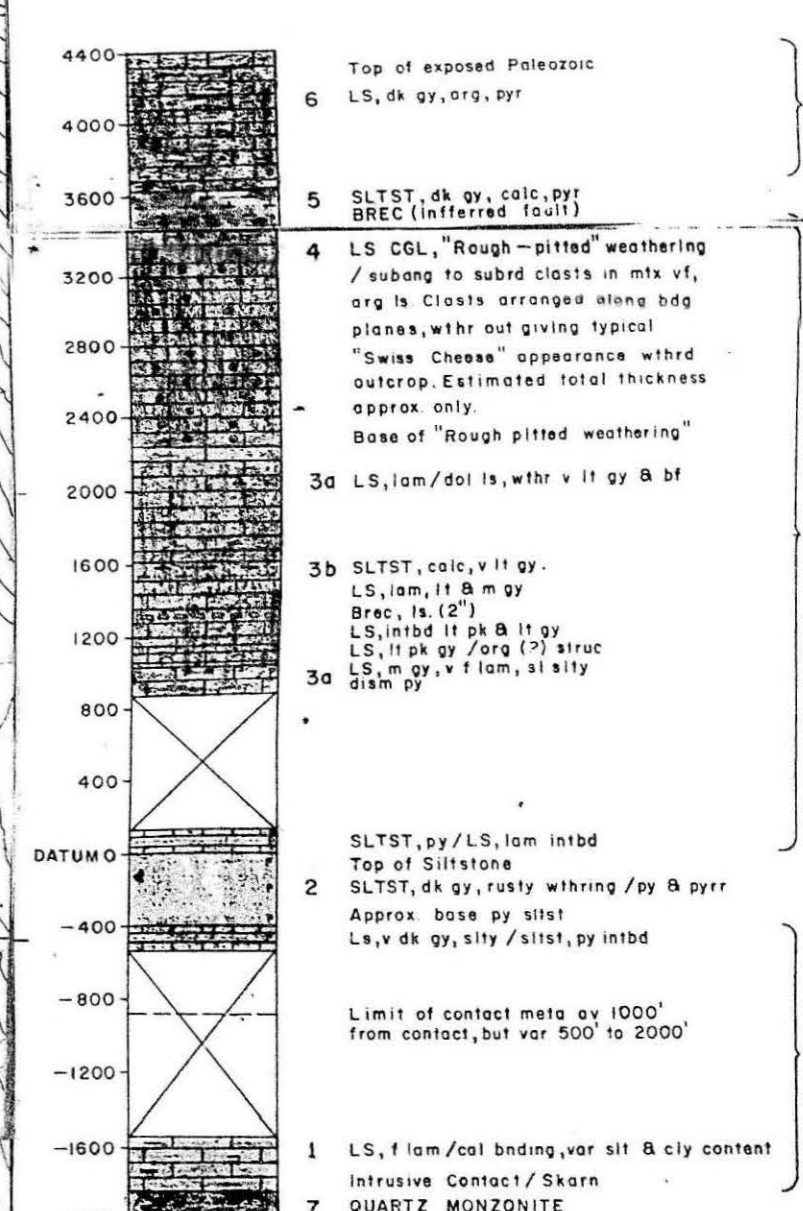
**REFERENCES**

- Billings, M.P. 1954. Structural Geology 2nd Ed. Prentice-Hall Inc., Englewood Cliffs, N.J., 514p.
- Blusson, S.L. 1968. Geology and Tungsten Deposits near the headwaters of Flat River, Yukon Territory and south-western District of Mackenzie, Canada. Geol. Surv. Canada, Paper 67-22.
- Gabrielse, H., Roddick, J.A. and Blusson, S.L. 1965. Flat River, Glacier Lake and Wrigley Lake, District of Mackenzie and Yukon Territory. Geol. Surv. Canada, Paper 64-52.



**EXPLANATION**

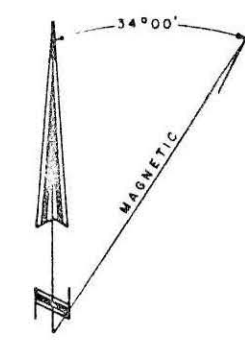
- SEDIMENTARY ROCKS**
- ALLUVIUM: Glacial and alluvial deposits
  - LIMESTONE: Dark grey, argillaceous, pyritic
  - SILTSTONE: Calcareous, argillaceous and pyritic; Dark grey to greyish black
  - LIMESTONE CONGLOMERATE: Rough-pitted weathering limestone and limestone conglomerate
  - THIN-bedded LIMESTONE: Thinly laminated, light to medium grey limestone containing some light grey calcareous siltstones up to 100 feet thick
  - SILTSTONE: Pyritic, non-calcareous siltstone; Dark grey
  - LIMESTONE: Laminated limestone with some thin argillaceous or silty horizons
- IGNEOUS ROCKS**
- DYKES: Aplite to monzonite
  - INTRUSIVE MASSES: Quartz monzonite (7); Porphyritic granite (7a)
- CONTACT AUREOLE**
- SYMBOLS**
- Contacts observed, inferred, projected
  - Strike and dip of beds
  - Strike of vertical beds
  - Faults observed
  - Syncline
  - Anticline
  - Fractures, joints, veins
  - Trench
  - Diamond Drill Hole



**Getty Mines, Limited**  
TURNER PROPERTY  
WATSON LAKE & NAHANNI M.D. YUKON TERRITORY & N.W.T.

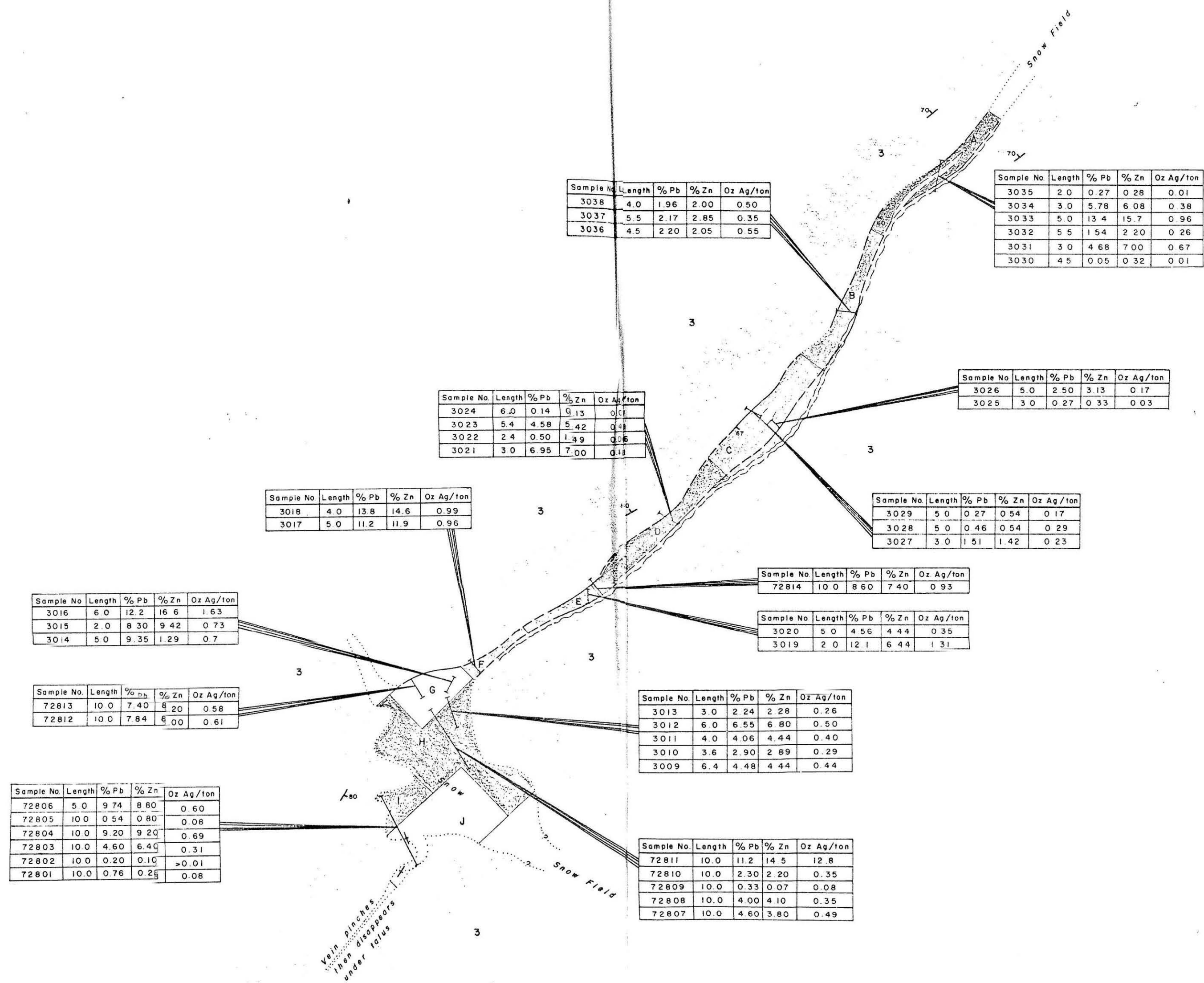
**GEOLOGY  
of the  
TURNER PROPERTY**

DRAWN BY T.M. JOB No. 3101 FIG No. 2  
CHECKED BY DATE DEC 6, 1972  
N.T.S. 95/E



EXPLANATION

- 3 THIN-bedded LIMESTONE
- Calcite Band



Sample No	Length	% Pb	% Zn	Oz Ag/ton
3038	4.0	1.96	2.00	0.50
3037	5.5	2.17	2.85	0.35
3036	4.5	2.20	2.05	0.55

Sample No	Length	% Pb	% Zn	Oz Ag/ton
3035	2.0	0.27	0.28	0.01
3034	3.0	5.78	6.08	0.38
3033	5.0	13.4	15.7	0.96
3032	5.5	1.54	2.20	0.26
3031	3.0	4.68	7.00	0.67
3030	4.5	0.05	0.32	0.01

Sample No	Length	% Pb	% Zn	Oz Ag/ton
3024	6.0	0.14	0.13	0.01
3023	5.4	4.58	5.42	0.41
3022	2.4	0.50	1.39	0.06
3021	3.0	6.95	7.00	0.11

Sample No	Length	% Pb	% Zn	Oz Ag/ton
3026	5.0	2.50	3.13	0.17
3025	3.0	0.27	0.33	0.03

Sample No	Length	% Pb	% Zn	Oz Ag/ton
3018	4.0	13.8	14.6	0.99
3017	5.0	11.2	11.9	0.96

Sample No	Length	% Pb	% Zn	Oz Ag/ton
3029	5.0	0.27	0.54	0.17
3028	5.0	0.46	0.54	0.29
3027	3.0	1.51	1.42	0.23

Sample No	Length	% Pb	% Zn	Oz Ag/ton
3016	6.0	12.2	16.6	1.63
3015	2.0	8.30	9.42	0.73
3014	5.0	9.35	1.29	0.7

Sample No	Length	% Pb	% Zn	Oz Ag/ton
72814	10.0	8.60	7.40	0.93

Sample No	Length	% Pb	% Zn	Oz Ag/ton
3020	5.0	4.56	4.44	0.35
3019	2.0	12.1	6.44	1.31

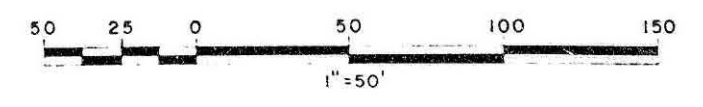
Sample No	Length	% Pb	% Zn	Oz Ag/ton
72813	10.0	7.40	8.20	0.58
72812	10.0	7.84	8.00	0.61

Sample No	Length	% Pb	% Zn	Oz Ag/ton
3013	3.0	2.24	2.28	0.26
3012	6.0	6.55	6.80	0.50
3011	4.0	4.06	4.44	0.40
3010	3.6	2.90	2.89	0.29
3009	6.4	4.48	4.44	0.44

Sample No	Length	% Pb	% Zn	Oz Ag/ton
72806	5.0	9.74	8.80	0.60
72805	10.0	0.54	0.80	0.08
72804	10.0	9.20	9.20	0.69
72803	10.0	4.60	6.40	0.31
72802	10.0	0.20	0.10	0.01
72801	10.0	0.76	0.25	0.08

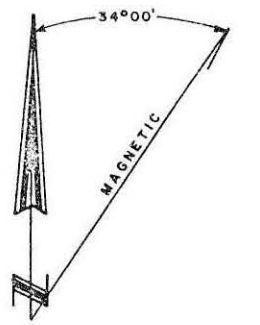
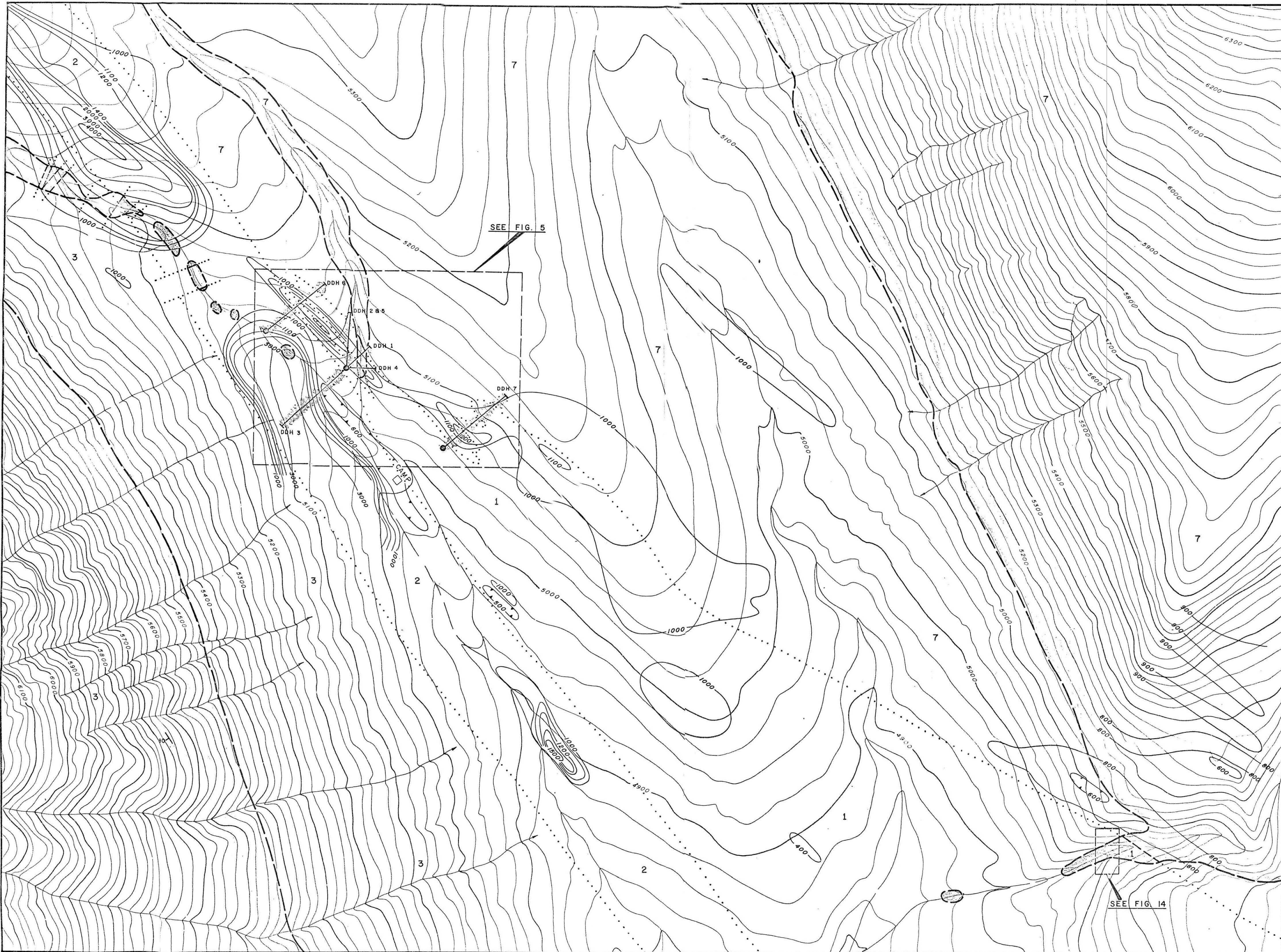
Sample No	Length	% Pb	% Zn	Oz Ag/ton
72811	10.0	11.2	14.5	12.8
72810	10.0	2.30	2.20	0.35
72809	10.0	0.33	0.07	0.08
72808	10.0	4.00	4.10	0.35
72807	10.0	4.60	3.80	0.49

BLOCK No	% Pb	% Zn	Oz Ag/ton	Area Sq. Ft.	Tons/vert ft.
A	6.47	7.87	0.57	1250	125.0
B	2.12	2.35	0.45	1575	157.5
C	1.48	1.74	0.23	2000	200.0
D	4.33	4.98	0.33	1350	135.0
E	7.82	6.42	0.80	1000	100.0
F	12.35	13.10	0.97	350	35.0
G	9.32	10.04	3.60	1450	145.0
H	4.71	3.87	0.40	3850	385.0
I	9.38	9.06	0.66	725	72.5
J	4.60	6.40	0.31	2800	280.0



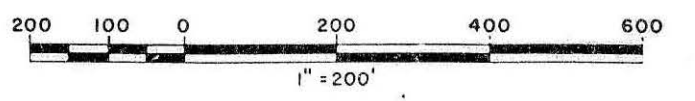
Getty Mines, Limited  
TURNER PROPERTY  
WATSON LAKE & NAHANNI, MD. YUKON TERRITORY & N.W.T.

"B" VEIN SAMPLE PLAN



**EXPLANATION**

OUTCROP	INFERRED
	7
	3
	2
	1
80	
Strike & Dip	
Contacts	
800	
Magnetic Contour	






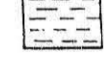
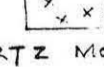
**Getty Mines, Limited**  
TURNER PROPERTY  
WATSON LAKE & NAHANNI M.D. YUKON TERRITORY & N.W.T.

**GEOLOGIC DETAIL**  
of  
**SOUTHERN ZONE**

DRAWN BY T. M.	JOB No	FIG No
CHECKED BY	3101	4
DATE DEC 6, 1972		
NTS 95/E		



EXPLANATION

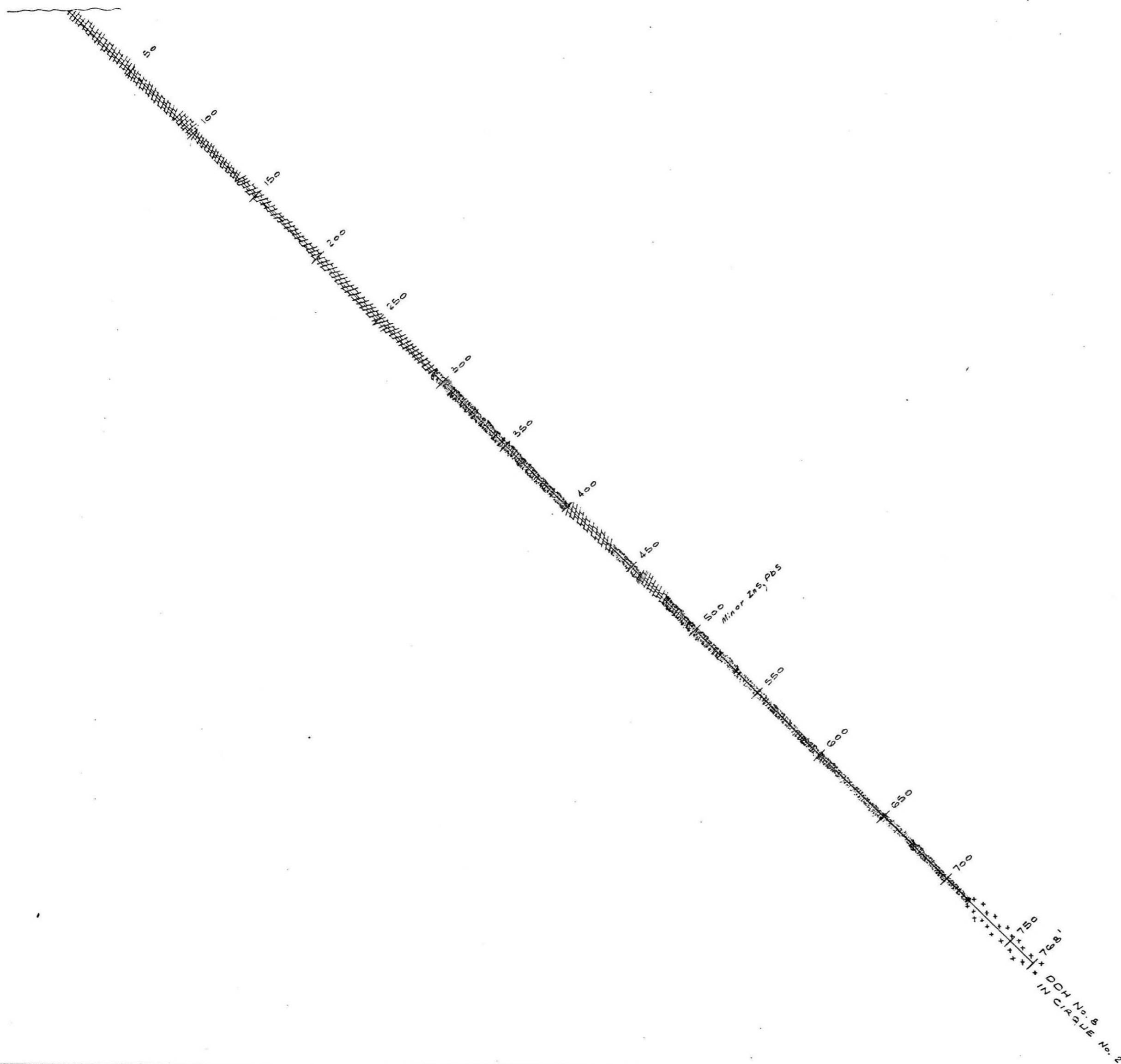
-  MASSIVE SULPHIDES
-  TACTITE
-  MARBLE LIMESTONE
-  SILTSTONE
-  QUARTZ MONZONITE




**Getty Mines, Limited**  
 TURNER PROPERTY  
 WATSON LAKE & NAHANNI M.D. YUKON TERRITORY & N.W.T.

DRILL PLAN & SECTIONS  
 of  
 SOUTHERN ZONE

DRAWN BY: T.M.	JOB No.	FIG. No.
CHECKED BY:	3101	5
DATE: DEC. 5, 1972		
NTS:		



EXPLANATION

-  MARBLE LIMESTONE
-  TACTITE
-  QUARTZ MONZONITE



**Getty Mines, Limited**  
TURNER PROJECT/  
WATSON LAKE & NAHANNI M.D. YUKON TERRITORY & N.W.T.

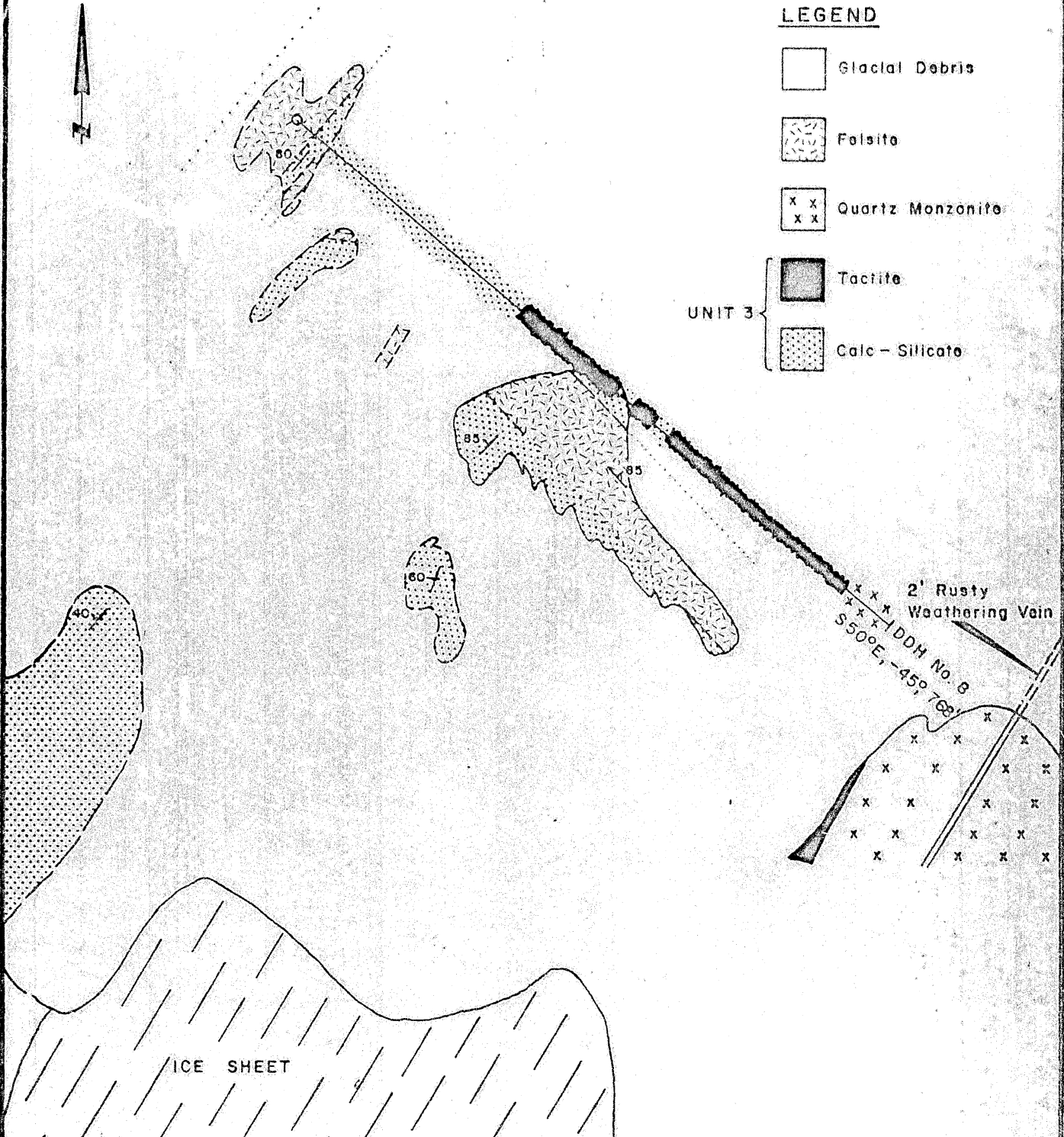
DRILL SECTION  
CIRQUE No. 2

DRAWN BY T.M.	JOB No	FIG No
CHECKED BY	3101	6
DATE DEC. 6, 1972		
NTS		

**LEGEND**

-  Glacial Debris
-  Felsite
-  Quartz Monzonite
-  Tactite
-  Calc - Silicate

UNIT 3



**Getty Mines, Limited**  
 TURNER PROPERTY  
 NORTHWEST TERRITORIES

**DETAIL GEOLOGY**  
 VICINITY OF HOLE No. 8  
 CIRQUE 2

DRAWN BY T.M.	JOB No.	FIG No.
CHECKED BY	3101	7
DATE DEC. 6, 1972		

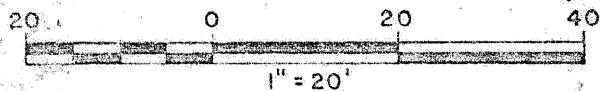
Sample No.	% Pb	% Zn	Oz. Ag/ton
81738	0.01	0.02	0.01
81739	<0.01	0.02	<0.01
81740	0.01	0.03	<0.01
81741	0.02	0.09	<0.01
81742	0.01	0.04	<0.01
81743	0.05	0.03	<0.01
81744	0.01	0.01	<0.01

Sample No.	% Pb	% Zn	Oz. Ag/ton
81737	0.04	0.09	0.01
81733	0.09	0.14	0.11
81735	0.07	0.14	0.08
81734	0.15	0.27	0.08
81733	0.29	0.25	0.08

## NOTE

All chip samplings taken over 5' intervals except as shown (3')

Sample No.	% Pb	% Zn	Oz. Ag/ton
81732	0.01	0.02	0.03
81731	0.12	0.14	0.08
81730	<0.01	0.01	<0.01
81729	0.01	0.02	0.03
81728	0.02	0.03	0.03
81727	0.03	0.08	0.05
81726	0.01	0.04	0.03
81725	2.00	1.82	1.82
81724	0.48	0.82	0.29



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CHIP SAMPLING  
OF TRENCHES 1,2,3  
IN CIRQUE 1

DRAWN BY: T. M.

JOB No.

FIG. No.

CHECKED BY:

3101

8

DATE: DEC. 6, 1972

Geology of Cirque 1, Trenches 1, 2, 3

Turner Ram-Rod Prospect

Scale 1" = 20' July 29, 1972.

Mapping by G.D. Delane, Getty  
Mining Ltd.

35+000 E

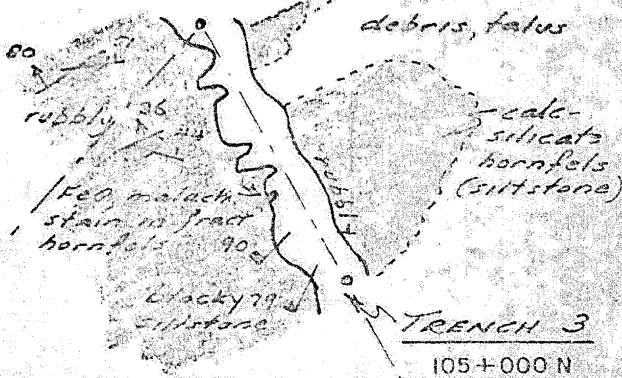


large ota. pale  
greenish hornfels

poorly lamina.  
limestone  
hornfels

calc. silic. hornfels  
(siltstone)

debris, talus



felsite dyke rubble

TRENCH 2

intensely fractured,  
FeO stained, Mn  
coatings, non-magnet-  
ic, skarny, malach.  
in rubble





ZnS in rubble

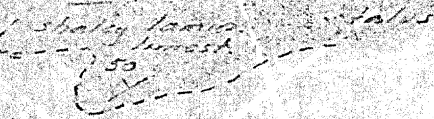
calc. silic.  
hornfels  
(skarn?)

TRENCH 3

105+000 N

LEGEND

-  calc. silicate hornfels  
(or siltstone)
-  skarn
-  limestone & marble
-  mineralization ZnS  
PbS, cpy, py, pyrro.



TRENCH 1

greenish-grey calc.  
silicate hornfels  
(may be skarn)  
specie cpy, py, FeO

talus  
patch ZnS in bottom  
of trench

Fe stained, calc.  
hornfels (effervescent)

talus,  
debris

intensely jointed  
calc. silic. hornfels  
with minor FeO staining

specie coarse py. in  
matrix & parallel to joints  
rubble

FeO stain on fract.  
closely fractured  
rock, some visible  
ZnS, FeO, hydrous

dic ZnS over 24"  
rubble obscures skarn-marble contact  
shaly bedding  
isll-exhibited  
in laminated  
limestone

laminated limestone  
marginated in trench  
with obscure contacts

talus & rubble



T-2

32+250 E

T-3

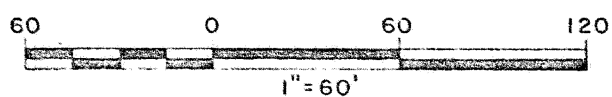
103+300 N

ACA HOWE BASE LINE  
N 30° E

44+00 NE

T-4

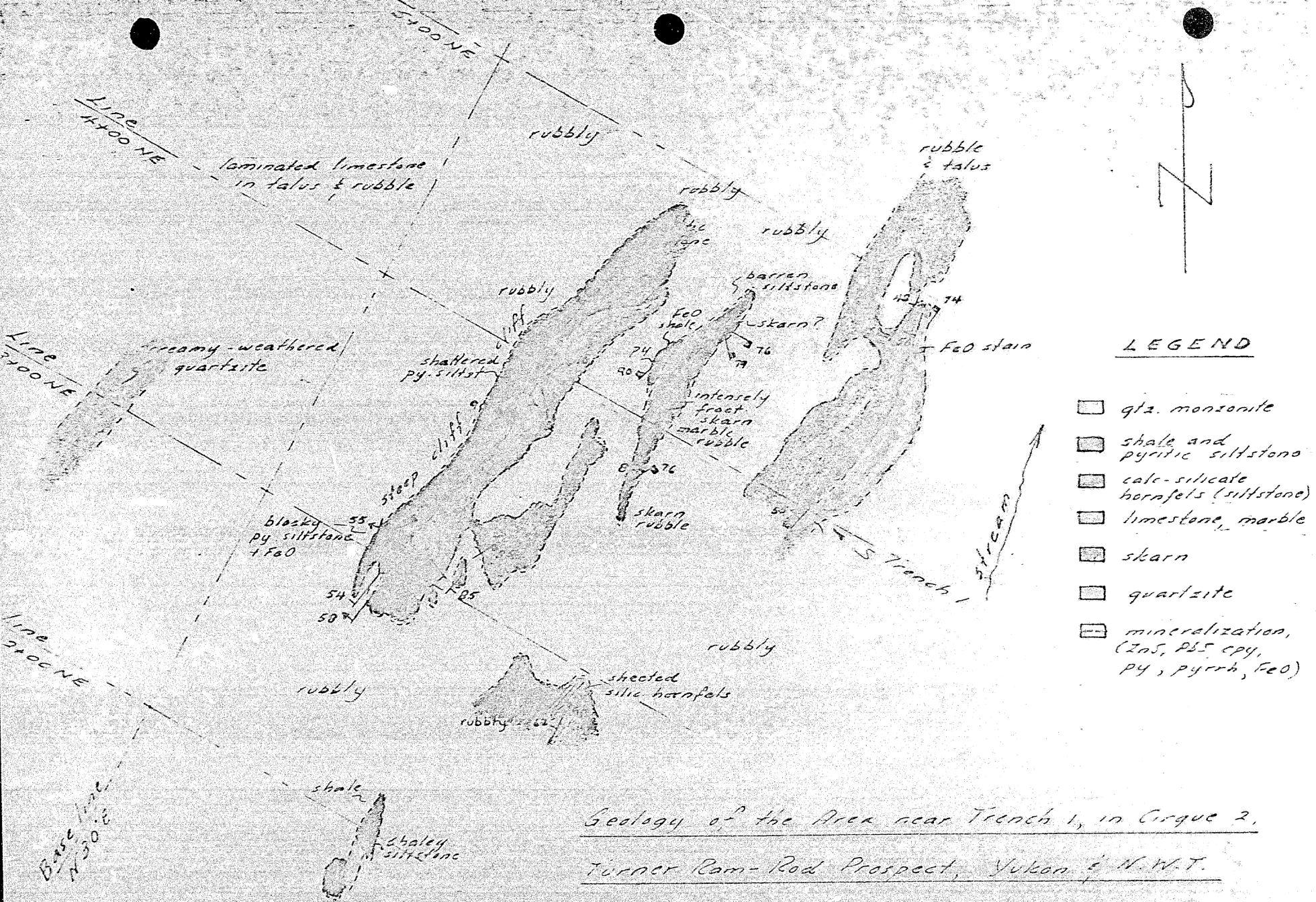
T-1



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N.W.T. & YUKON TERRITORIES

CIRQUE 2 TRENCHES

DRAWN BY T.M.	JOB NO	FIG NO
CHECKED BY	3101	9
DATE DEC 6, 1972		



Geology of the Area near Trench 1, in Cirque 2,

Turner Ram-Road Prospect, Yukon & N.W.T.

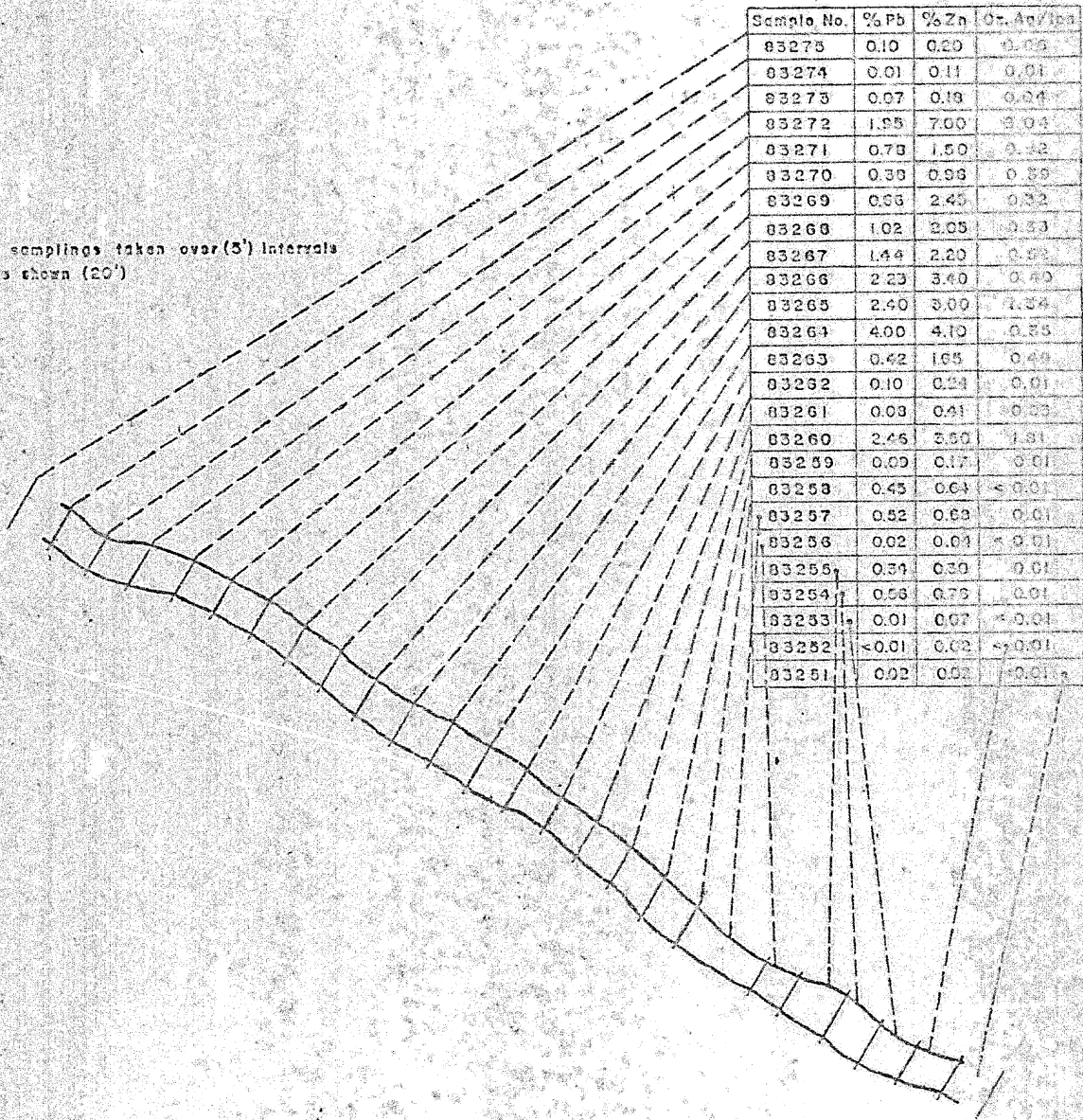
Scale 1"=50'

July 27, 1972

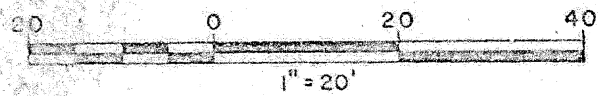
Mapping by G.V. Delane, Getty Mines Ltd.

**NOTE**

All chip samplings taken over (5') intervals except as shown (20')



Sample No.	%Pb	%Zn	Gr. Ag/lb.
83275	0.10	0.20	0.05
83274	0.01	0.11	0.01
83273	0.07	0.13	0.04
83272	1.95	7.00	3.04
83271	0.78	1.50	0.42
83270	0.38	0.98	0.35
83269	0.36	2.45	0.32
83268	1.02	2.05	0.33
83267	1.44	2.20	0.33
83266	2.23	3.40	0.40
83265	2.40	3.00	1.34
83264	4.00	4.10	0.35
83263	0.42	1.65	0.49
83262	0.10	0.24	0.01
83261	0.03	0.41	0.03
83260	2.46	3.50	1.31
83259	0.09	0.17	0.01
83258	0.43	0.64	< 0.01
83257	0.52	0.63	0.01
83256	0.02	0.01	< 0.01
83255	0.34	0.30	0.01
83254	0.56	0.79	0.01
83253	0.01	0.07	< 0.01
83252	< 0.01	0.02	< 0.01
83251	0.02	0.02	< 0.01



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TURNER PROPERTY  
N.W.T. & YUKON TERRITORY

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**CHIP SAMPLING  
OF TRENCH 1  
IN CIRQUE 2**

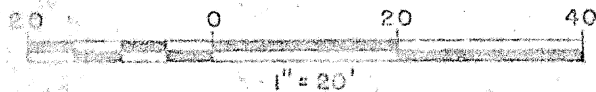
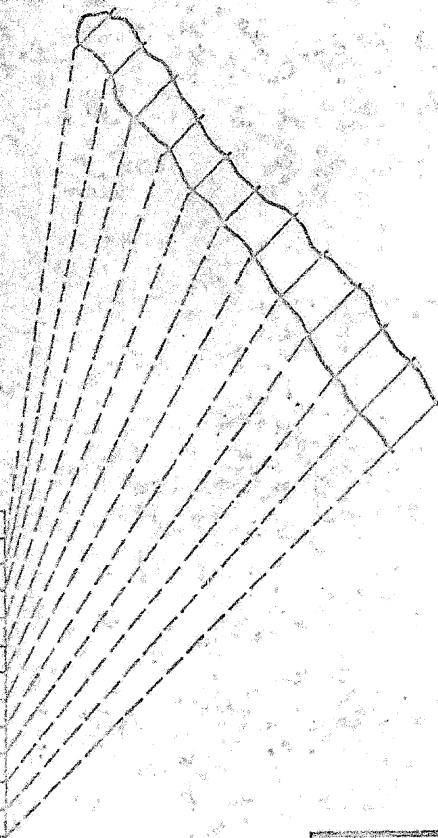
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DRAWN BY: T. H.	JOB No.	FIG No.
CHECKED BY	3101	11
DATE DEC. 6, 1972		



NOTE:  
Chip sampling taken over (5') intervals

Sample No.	% Pb	% Zn	Oz. Ag/ton
83275	2.95	3.60	2.51
83277	0.53	3.70	1.34
83278	3.09	15.0	6.24
83279	0.73	5.40	1.28
83280	0.20	2.50	0.52
83291	0.44	3.10	0.29
83292	0.23	1.55	0.93
83293	0.33	0.17	0.09
83294	<0.01	0.02	< 0.01
81701	0.11	0.03	< 0.01
81792	0.02	0.03	< 0.01



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TURNER PROPERTY  
N.W.T. & YUKON TERRITORY

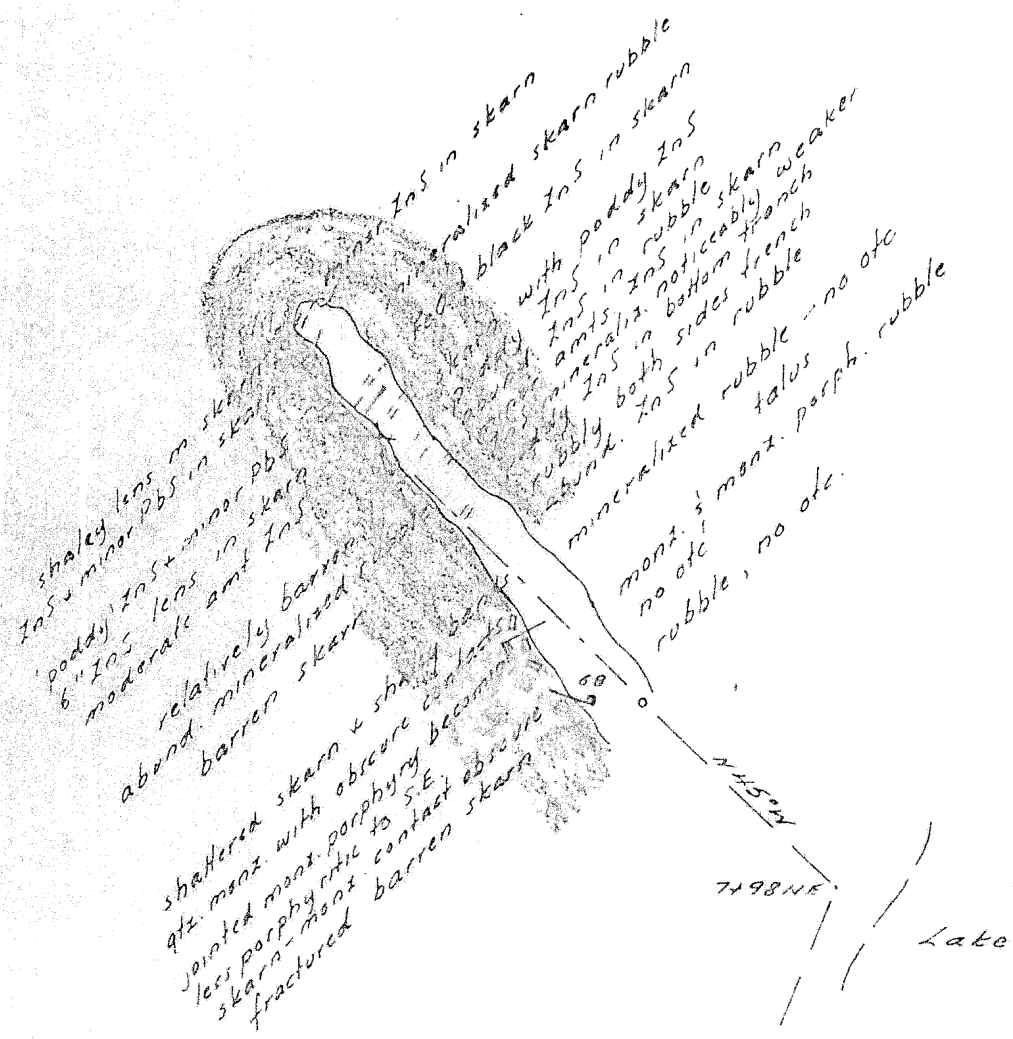
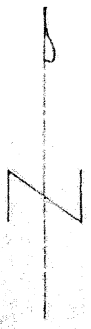
CHIP SAMPLING  
OF TRENCH 2  
IN CIRQUE 2




DRAWN BY: T.M.	Job No.	FIG. No.
CHECKED BY:	3101	12
DATE: DEC. 6, 1972		

Geology of Trench 2 in Cirque 2  
of Turner Ram-Rod Prospect,  
Ujikon E.N.H.T.

Scale 1" = 20' July 20, 1972.

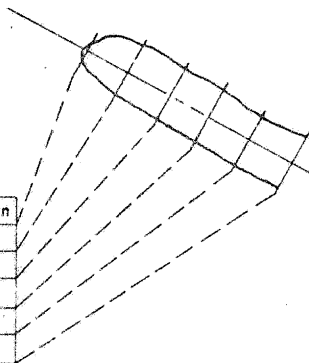
Mapping by G.D. Delane, Getty Mines Ltd.



-  skarn
-  monzonite porphyry
-  mineralization, ZnS, PbS, cpy, py, pyrrh.



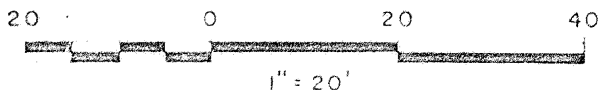
Sample No.	% Pb	% Zn	Oz. Ag/ton
81703	1.02	1.30	0.20
81704	0.63	2.50	0.79
81705	0.20	0.76	0.28
81706	0.34	0.41	0.17
81707	0.28	0.65	0.25



NOTE

All chip samplings taken over (5') intervals

Base Line N 30E  
Intersects @ E 7+00E



Getty Mines, Limited TURNER PROPERTY N.W.T & YUKON TERRITORY		
CHIP SAMPLING OF TRENCH 3 IN CIRQUE 2		
DRAWN BY T.M.	FILE NO	FIG. NO
REVISIONS	3101	13
DATE DEC 6, 1972		



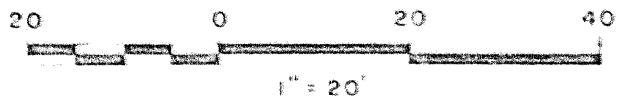
Sample No	% Pb	% Zn	Gz. Ag / ton
81708	2.00	3.00	1.02
81709	2.04	5.00	2.48
81710	0.68	0.85	0.35
81711	1.66	2.70	1.16
81712	0.13	0.17	0.20
81713	0.03	0.04	0.05
81714	0.02	0.04	< 0.01
81715	0.02	0.04	< 0.01
81716	0.54	0.45	0.03

NOTE

All chip samplings taken over (5) intervals

Base Line N 30E

3+50 NE



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TURNER PROPERTY  
N.W.T. & YUKON TERRITORY

CHIP SAMPLING  
OF TRENCH 4  
IN CIRQUE 2

Drawn by J.M.

Draw No.

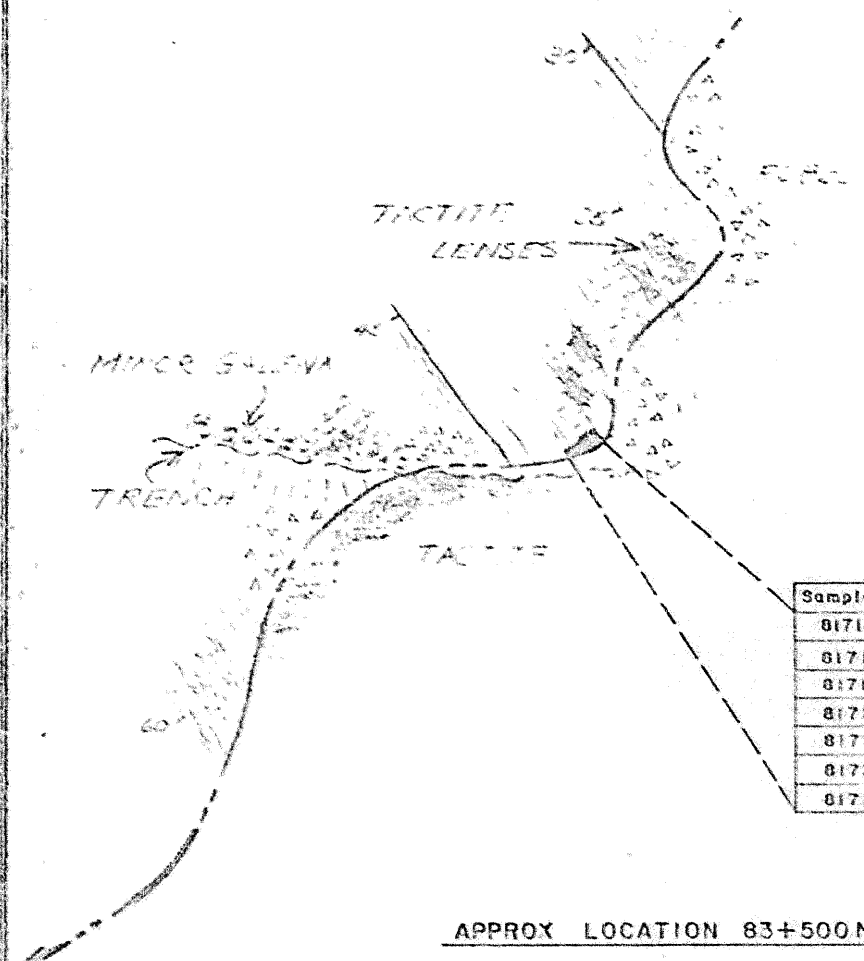
Fig. No.

Checked by

3101

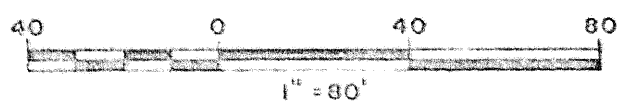
14

DATE DEC 6, 1972



Sample No.	Length	% Pb	% Zn	Oz. Ag/ton
81717	5.0	1.27	0.32	0.33
81718	5.0	0.22	1.73	0.26
81719	5.0	0.01	0.05	0.01
81720	4.0	4.22	4.64	0.60
81721	2.0	1.92	2.00	0.44
81722	3.0	5.00	5.60	0.79
81723	1.0	0.06	0.05	0.03

APPROX LOCATION 83+500N, 38+000E



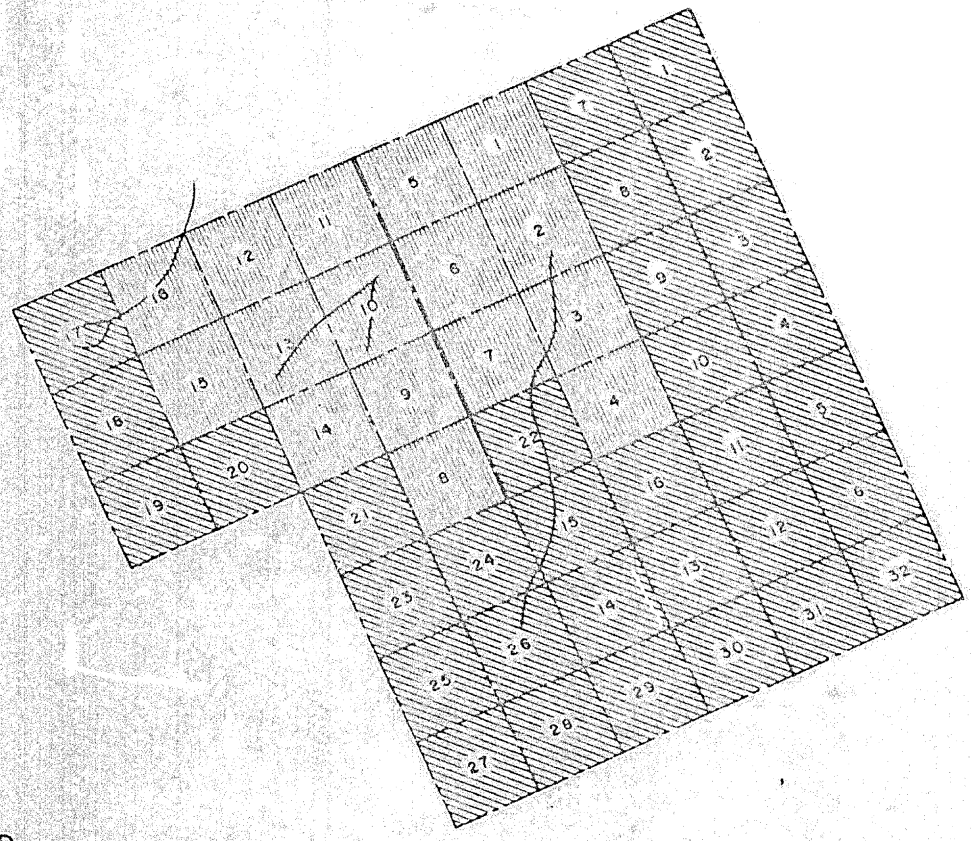
Getty Mines, Limited TURNER PROPERTY N.W.T. & YUKON TERRITORY		
CHIP SAMPLING & SKETCH OF EAST CREEK ZONE		
DRAWN BY T.H.	JOB NO.	FIG. NO.
CHECKED BY	3101	15
DATE DEC 6, 1972		

APPENDIX A



CLAIM LIST

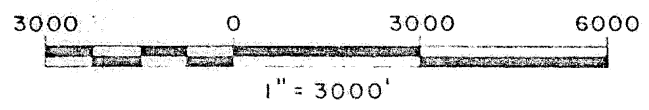
<u>Claim Name</u>	<u>Claim No.</u>	<u>Tag No.</u>	<u>Expiry Date</u>
Ram	1-16	N84788-N84803	March 22, 1978
Rod	1-16	N84804-N84819	March 22, 1978
Rod	17	A49082	Sept. 7, 1976
Rod	18-32	A49803-A49097	Sept. 7, 1981
Tam	1-24	Y64238-Y64261	August 24, 1974
Tam	25-55	Y64318-Y64348	Sept. 7, 1974

*Probably  
A49083*

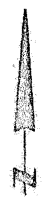


**LEGEND**

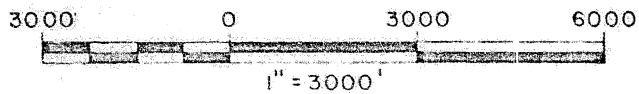
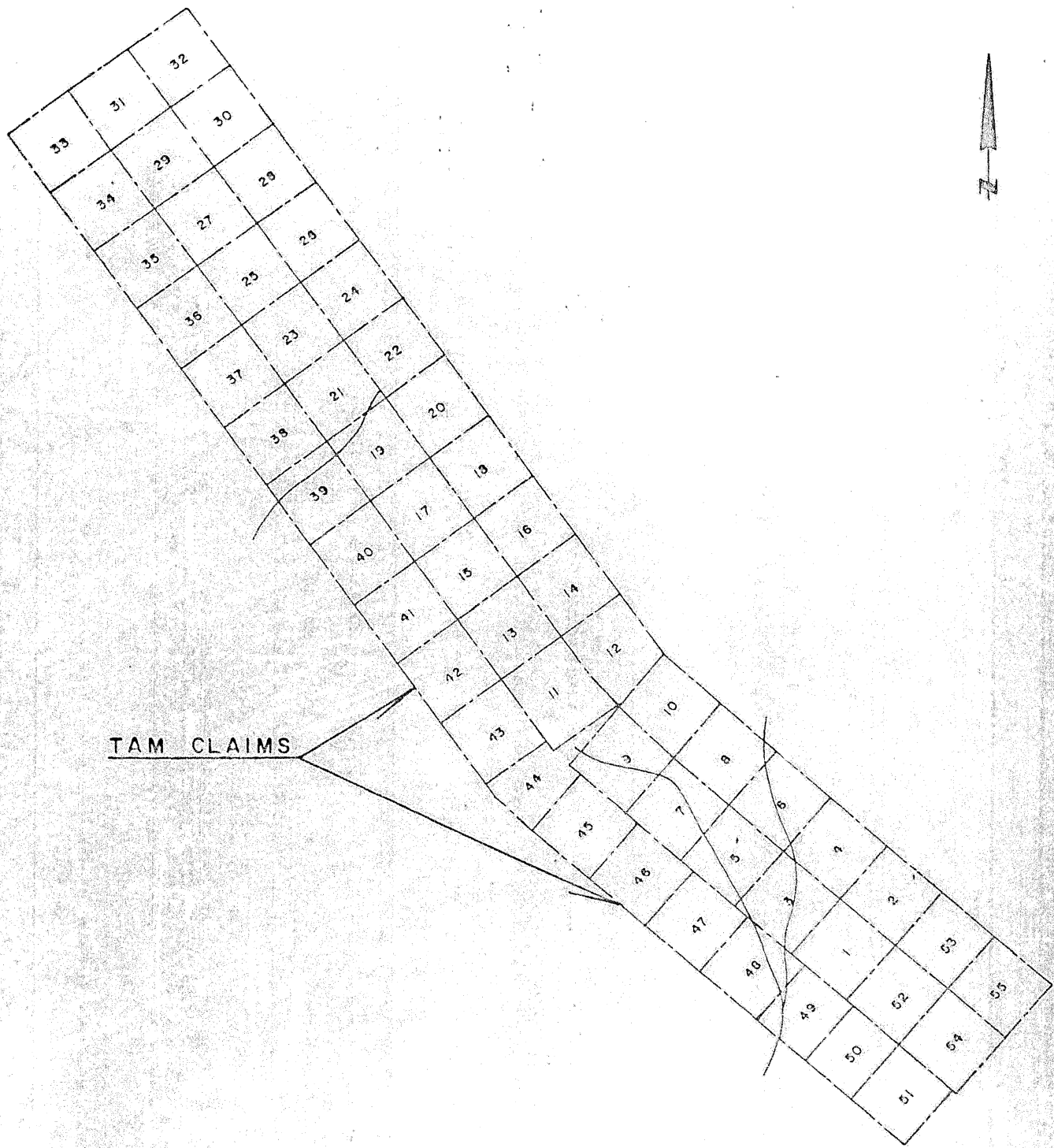
-  RAM CLAIMS
-  ROD CLAIMS



<b>Getty Mines, Limited</b> TURNER PROPERTY NORTHWEST TERRITORIES		
<h2 style="margin: 0;">RAM CLAIMS</h2>		
DRAWN BY T.M.	JOB No	FIG No
CHECKED BY	3101	A-1'
DATE DEC 6, 1972		



TAM CLAIMS



<p>Getty Mines, Limited          TURNER PROPERTY          N.W.T. &amp; YUKON TERRITORY</p>		
<p>TAM CLAIMS</p>		
DRAWN BY T.M.	JOB NO	FIG NO
CHECKED BY	3101	A-2
DATE DEC 6, 1972		

## APPENDIX B

### DIAMOND DRILL HOLE SUMMARY

<u>DDH #1.</u>	Dip 45 <sup>o</sup> , strike 46 <sup>o</sup> , TD 200', recovery 98%, core size NQ.
0 - 21	Overburden
21 - 42	Close interfingering of diopside marble - calc-silicate hornfels.
42 - 52	Hybrid zone
52 - 155	Hornblende biotite quartz monzonite
155 - 181	Calc-silicate skarn
181 - 188	Diopside marble
188 - 200	Hornblende biotite quartz monzonite
<u>DDH #2.</u>	Dip 45 <sup>o</sup> , strike 5 <sup>o</sup> , TD 320', recovery 48.5%, core size NQ
0 - 23	Overburden
23 - 47	Marble (white)
47 - 87	Diopside marble with calc-silicate stringers
87 - 94	Biotite hornblende quartz monzonite
94 - 113	Hybride zone
113 - 192	Biotite hornblende quartz monzonite
192 - 204	Hybride zone
204 - 245	Diopside marble
245 - 293	Calc-silicate skarn
293 - 320	Biotite hornblende quartz monzonite
<u>DDH #3.</u>	Dip 45 <sup>o</sup> , strike 230 <sup>o</sup> , TD 511', recovery 97%, core size NQ
0 - 28	Overburden
28 - 44	Calc-silicate hornfels
44 - 187	Meta siltstone
187 - 193	Felsite dyke
193 - 322	Meta siltstone
322 - 328	Felsite dyke
328 - 330	Meta siltstone
330 - 331	Felsite dyke
331 - 511	Meta siltstone

DDH #4. Strike 90<sup>0</sup>, TD 191', recovery 99%, core size NQ

0 - 28 Overburden  
 28 - 37 Diopside marble  
 58 - 58 Hybrid zone  
 58 - 191 Biotite hornblende quartz monzonite

DDH #5. Dip 60<sup>0</sup>, strike 5<sup>0</sup>, TD 371', recovery 95.8%, core size NQ

0 - 19 Overburden  
 19 - 53.5 Interfingering of diopside marble - calc-silicate hornfels  
 53 - 91 Calc-silicate  
 91 - 109 Diopside garnet skarn  
 109 - 219 Calc-silicate  
 219 - 237 Biotite hornblende quartz monzonite  
 237 - 302 Calc-silicate  
 302 - 316 Porphyry dyke  
 316 - 344 Calc-silicate  
 344 - 371 Biotite hornblende quartz monzonite

DDH #6. Dip 45<sup>0</sup>, strike 50<sup>0</sup>, TD 460', recovery 98%, core size NQ 24-37', BQ 37-460'

0 - 24 Overburden  
 24 - 124 Meta siltstone  
 124 - 128 Felsite dyke  
 128 - 239 Meta siltstone  
 239 - 268 Biotite hornblende quartz monzonite  
 268 - 285 Hybrid zone  
 285 - 295 Diopside marble  
 295 - 320 Calc-silicate skarn  
 320 - 460 Biotite hornblende quartz monzonite

DDH #7. Dip 50<sup>0</sup>, strike 50<sup>0</sup>, TD 455', recovery 97%, core size NQ 25-41', BQ 41-455'

0 - 25 Overburden  
 25 - 240 Biotite hornblende quartz monzonite, lenses of marble and tactite.  
 240 - 252 Hybrid zone  
 252 - 330 Meta siltstone  
 330 - 402 Biotite hornblende quartz monzonite  
 402 - 416 Meta siltstone  
 416 - 455 Biotite hornblende quartz monzonite

DDH# 8.

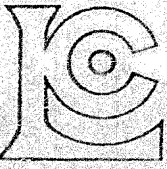
Dip  $45^{\circ}$ , strike  $130^{\circ}$ , TD 768', recovery 99%, core  
size NQ 0 - 92', BQ 92 - 768

0 - 290	Calc-silicate hornfels
290 - 398	Calc-silicate garnet skarn
398 - 430	Calc-silicate hornfels
430 - 458	Calc-silicate garnet skarn
456 - 478	Calc-silicate hornfels
478 - 717	Diopside garnet skarn
717 - 768	Biotite hornblende quartz monzonite

APPENDIX C

ASSAY INTERVALS FOR DIAMOND DRILL HOLES

<u>Hole</u>	<u>Sample No.</u>	<u>Footage</u>	<u>Length</u>	<u>Pb%</u>	<u>Zn%</u>	<u>Ag oz/ton</u>
DDH2	3501A	245.5-248	2.5	0.01	0.02	0.09
	3502A	248 - 250	2.0	0.01	0.02	0.11
	3503A	250 - 252	2.0	0.01	0.02	0.07
	3504A	252-254	2.0	0.01	0.02	0.05
	3505A	254 - 256	2.0	0.01	0.02	0.04
	3506A	256 - 258	2.0	0.01	0.02	0.08
	3507A	258 - 260	2.0	0.01	0.01	0.08
	3508A	260 - 262	2.0	0.01	0.03	0.08
	3509A	262 - 264	2.0	0.01	0.02	0.07
	3510A	264 - 266	2.0	0.01	0.01	0.08
	3511A	266 - 268	2.0	0.01	0.03	0.08
	3512A	268 - 270	2.0	0.01	0.02	0.05
	3513A	270 - 272	2.0	0.01	0.03	0.02
	3514A	272 - 274	2.0	0.01	0.16	0.01
	3515A	274 - 276	2.0	0.01	1.35	0.02
	3516A	276 - 278	2.0	0.01	2.45	0.06
	3517A	278 - 280	2.0	0.01	3.00	0.04
DDH6	3513A	295 - 300	5.0	0.01	0.01	0.11
	3519A	300 - 305	5.0	0.01	0.10	0.10
	3520A	305 - 310	5.0	0.01	0.01	0.10
	3521A	310 - 315	5.0	0.01	0.01	0.05
	3522A	315 - 318	3.0	0.01	0.01	0.03
DDH8	3523A	499.5-504	4.5	0.01	0.02	0.01
	3524A	504 - 504.4	0.4	5.36	6.26	7.87
	3525A	504.4-508	3.6	0.02	0.02	0.01
	3526A	508 - 508.6	0.6	8.85	13.3	11.1
	3527A	508.6-511.7	3.1	0.06	0.05	0.05
	3528A	511.7-512.2	0.5	5.00	5.28	6.12
3529A	512.2-517	4.8	0.21	0.37	0.23	



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## CERTIFICATE OF ASSAY

CERTIFICATE NO. 21266

TO: Getty Mines Ltd.,  
 1904 - 1177 W. Hastings St.,  
 Vancouver, B. C.

INVOICE NO. 7843

RECEIVED Aug. 14/72

ANALYSED Aug. 17/72

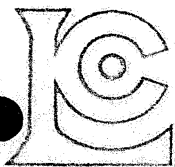
ATTN: Dr. Griswold

SAMPLE NO.	% Copper	% Lead	% Zinc	Oz/Ton Silver	
3001A	< 0.01	4.24	3.86	0.35	B vein Sampling done vertical in vein with 200g checks G. Delane
3002	< 0.01	3.20	3.16	0.32	
3003	< 0.01	2.00	2.20	0.26	
3004	< 0.01	7.25	6.62	0.58	
3005	< 0.01	4.94	4.36	0.38	
3006	< 0.01	6.85	6.80	0.58	
3007	< 0.01	4.68	4.36	0.50	
3008	< 0.01	3.83	2.20	0.35	
3009	< 0.01	4.48	4.44	0.44	
3010	< 0.01	2.90	2.89	0.29	
3011	< 0.01	4.06	4.44	0.40	B vein Trench 1 G. Delane sampling
3012	< 0.01	6.55	6.80	0.50	B vein TRENCH 2 G. Delane sampling
3013	< 0.01	2.24	2.28	0.26	
3014	< 0.01	9.35	12.9	0.79	B vein TRENCH 3 G. Delane sampling
3015	< 0.01	8.30	9.42	0.73	
3016	< 0.01	12.2	16.6	1.63	B vein TRENCH 4 G. Delane sampling
3017	< 0.01	11.2	11.9	0.96	
3018	< 0.01	13.8	14.0	0.99	B vein TRENCH 5 G. Delane sampling
3019	< 0.01	12.1	6.44	1.31	
3020	< 0.01	4.56	4.44	0.35	B vein TRENCH 6 G. Delane sampling
3021	< 0.01	6.95	7.00	0.41	
3022	< 0.01	0.50	1.49	0.06	B vein TRENCH 7 G. Delane sampling
3023	< 0.01	4.48	5.42	0.41	
3024	< 0.01	0.14	0.13	0.01	B vein TRENCH 8 G. Delane sampling
3025	< 0.01	0.27	0.33	0.03	
3026	< 0.01	2.50	3.13	0.17	B vein TRENCH 9 G. Delane sampling
3027	< 0.01	1.51	1.42	0.23	
3028	< 0.01	0.46	0.54	0.29	B vein TRENCH 10 G. Delane sampling
3029	< 0.01	0.27	0.54	0.17	
3030	< 0.01	0.05	0.32	0.01	B vein TRENCH 11 G. Delane sampling
3031	< 0.01	4.68	7.00	0.67	
3032	< 0.01	1.54	2.20	0.26	B vein TRENCH 12 G. Delane sampling
3033	< 0.01	13.4	15.7	0.96	
3034	< 0.01	5.78	6.08	0.38	B vein TRENCH 13 G. Delane sampling
3035	< 0.01	0.27	0.28	0.01	
3036	< 0.01	2.20	2.05	0.55	B vein TRENCH 14 G. Delane sampling
3037	< 0.01	2.17	2.85	0.35	
3038A	< 0.01	1.96	2.00	0.50	CIRCUIT 1 TRENCH 1
81724		0.43	0.80	0.29	
81725		2.00	1.82	1.89	

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 G.S.G.  
 AUG 16 1972

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## CERTIFICATE OF ASSAY

CERTIFICATE NO. 21117

TO: Getty Mines Ltd.,  
1904 - 1177 W. Hastings St.,  
Vancouver, B. C.

INVOICE NO. 7554

RECEIVED July 14/72

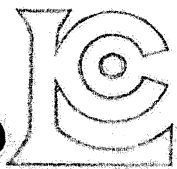
ANALYSED July 25/72

ATTN: Dr. Griswold cc: Watson Lake

SAMPLE NO.:	% Iron	% Arsenic	% Indium	% Antimony	% Tin	% WO <sub>3</sub>
72536				< 0.01		
72537		26.9		< 0.01	0.40	
72540						< 0.01
72751					0.15	
72752	51.9				0.18	
72753	28.6					
72754						0.72
72755		4.47				
72758						< 0.01
72759						< 0.01

Note: Indium assay to follow.

*Handwritten signature*



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## CERTIFICATE OF ASSAY

TO: Getty Mines Ltd.,  
 1904 - 1177 W. Hastings St.,  
 Vancouver, B. C.

CERTIFICATE NO. 21117

INVOICE NO. 7486

RECEIVED July 14/72

ANALYSED July 19/72

ATTN: Mr. D. Stelck

SAMPLE NO.	% Copper	% Molybdenum	% Lead	% Zinc	% Nickel	Oz/Ton Silver	Oz/Ton Gold
72535	< 0.01					0.02	< 0.003
72536	< 0.01		0.30	42.0		0.33	0.031
72537	< 0.01	< 0.001	0.07	0.11		0.73	< 0.003
72538	< 0.01		1.95	4.60		3.48	< 0.003
72539	0.93		1.04	1.06		0.64	< 0.003
72540	0.23		2.71	3.90		0.63	< 0.003
72541	< 0.01		5.00	6.40		0.44	< 0.003
72542	< 0.01		13.7	20.3		4.82	< 0.003
72751	0.23		20.4	0.06		11.6	0.003
72752	0.08		0.44	0.03		0.37	0.003
72753							
72754	0.02		0.05			0.08	< 0.003
72755	0.14					0.16	< 0.003
72756	0.18				< 0.01	0.11	< 0.003
72757	0.23				< 0.01	0.08	< 0.003
72758	< 0.01					0.07	< 0.003
72759	< 0.01					0.07	< 0.003

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JUL 20 1972	
FILE	

% Cadmium % Bismuth

72536	0.35	0.24
72537	0.001	0.01

72535 - Felsite dyke at top of saddle West of BDA 6  
 72536 - Massive sulfide from East Creek TRENCH  
 72537 - 2' vein of ARGENTOPYRITE in CIRQUE 2  
 72539, 72539, 72540 - From area around trenches in CIRQUE 6  
 72541, 72542 - CIRQUE 4 massive skarn mineralization from West facing wall

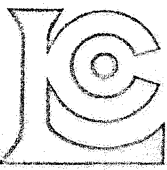
72751, 72752, 72753 - PROSPECT LOCATION G4  
 72754 - PROSPECT LOCATION G8

Note: WO<sub>3</sub>, As, Sn, Sb, Fe, In to follow.

72755, 72756, 72757 - PROSPECT LOCATION G13

72758, 72759 - PROSPECT LOCATION G12

*Handwritten signature*



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## CERTIFICATE OF ASSAY

TO: Getty Mines Ltd.,  
 1904 - 1177 W. Hastings St.,  
 Vancouver, B.C.

CERTIFICATE NO. 21054

INVOICE NO. 7326

RECEIVED June 30/72

ANALYSED July 6/72

ATTN: Mr. Dave Stelck

SAMPLE NO.	% Copper	% Molybdenum	% Zinc	Oz/Ton Silver	Oz/Ton Gold
LARGE 72533	0.06	< 0.001	0.25	0.14	< 0.003
SMALL 72534	0.01	< 0.001	4.00	0.08	< 0.003
	% Nickel	% Cobalt	% Sulphur	% Iron	% Cadmium
72533	< 0.01	0.01	14.0	23.9	0.003
72534	< 0.01	< 0.01	3.1	6.2	0.035
	% Bismuth	% Arsenic	% Antimony	% SiO <sub>2</sub>	% Lead
72533	0.13	< 0.01	< 0.01	39.2	0.01
72534	0.01	< 0.01	< 0.01	29.4	0.02

NOTE: Mercury to follow.

*Samples from vein in creek at which DDH #1 was aimed*

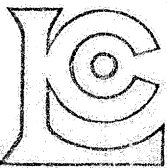
Getty Mines, Limited

DATE	
TIME	
JUL 7 - 1972	
FILE	



*[Handwritten signature]*





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## CERTIFICATE OF ASSAY

CERTIFICATE NO. 21273

INVOICE NO. 7861

TO: Getty Mines Ltd.,  
1904 - 1177 W. Hastings St.,  
Vancouver, B.C.

RECEIVED August 14/72

ANALYSED August 18/72

ATTN: Dr. G. Griswold      cc: Watson Lk.

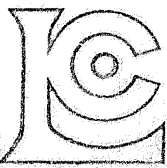
SAMPLE NO.	% Copper	% Lead	% Zinc	Oz/Ton Silver	
3039A	0.05	3.02	4.00	3.17	CIRQUE 6 TRENCH 499.5 - 504 504 - 504.4 504.4 - 508 508 - 508.6 508.6 - 511.7 511.7 - 512.2 512.2 - 517 DDH # 8
3523	< 0.01	0.01	0.02	< 0.01	
3524	< 0.01	5.36	6.26	7.87	
3525	< 0.01	0.02	0.02	< 0.01	
3526	< 0.01	8.85	13.3	11.1	
3527	< 0.01	0.06	0.05	0.05	
3528	< 0.01	5.00	5.23	6.12	
3529A	< 0.01	0.21	0.37	0.23	

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G.B.G.	
AUG 1 1972	
FILE	



*Ben Amadio*



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## CERTIFICATE OF ASSAY

TO: Getty Mines Ltd.,  
 1904 - 1177 W. Hastings St.,  
 Vancouver, B. C.

CERTIFICATE NO. 21267  
 INVOICE NO. 7858  
 RECEIVED Aug. 14/72  
 ANALYSED Aug. 18/72

ATTN: Dr. Griswold

cc: Watson Lake

SAMPLE NO.:	% Copper	% Lead	% Zinc	Oz/Ton Silver	Oz/Ton Gold	
81726		0.01	0.04	0.03		SAMPLES FROM CIRQUE 1, TRENCH 1
81727		0.03	0.08	0.05		
81728		0.02	0.06	0.05		
81729		0.01	0.02	0.03		
81730		< 0.01	0.01	< 0.01		
81731		0.12	0.14	0.06		CIRQUE 1, TRENCH 2
81732		0.01	0.02	0.03		
81733		0.29	0.25	0.06		
81734		0.15	0.27	0.17		
81735		0.07	0.14	0.08		
81736		0.09	0.14	0.11		CIRQUE 1, TRENCH 3
81737		0.04	0.09	0.01		
81738		0.01	0.02	0.01		
81739		< 0.01	0.02	< 0.01		
81740		0.01	0.05	< 0.01		
81741		0.02	0.09	< 0.01		DDH #6
81742		0.01	0.04	< 0.01		
81743		0.05	0.05	< 0.01		
81744		< 0.01	0.01	< 0.01		
3518A	0.07	< 0.01	0.01	0.11	< 0.003	
3519	0.09	< 0.01	0.10	0.10	< 0.003	300-305'
3520	0.10	< 0.01	< 0.01	0.10	< 0.003	305-310'
3521	0.03	< 0.01	< 0.01	0.05	< 0.003	310-315'
3522A	< 0.01	< 0.01	< 0.01	0.03	< 0.003	315-318'

Getty Mines, Limited

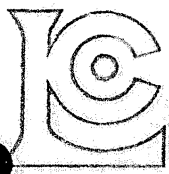
G.S.S.	
AUG 18 1972	
FILE	

Note: Assay on WO<sub>3</sub> to follow.



MEMBER  
 CANADIAN FEDERATION

*Elva Anderson*



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## CERTIFICATE OF ASSAY

CERTIFICATE NO. 21155A

TO: Getty Mines Ltd.,  
 1904 - 1177 W. Hastings St.,  
 Vancouver, B.C.

INVOICE NO. 7782

RECEIVED August

ANALYSED August 12/72

ATTN: Dr. G. Griswold      cc: Watson Lk.

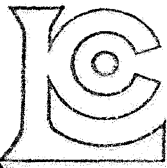
SAMPLE NO.	% Copper	Oz/Ton Gold	% WO <sub>3</sub>	
3501-A	0.05	< 0.003		
3502	0.02	< 0.003		
3503	0.02	< 0.003		
3504	0.01	< 0.003		
3505	< 0.01	< 0.003		
3506	0.02	< 0.003		
3507	0.03	< 0.003		
3508	< 0.01	< 0.003		DDH# 2
3509	0.01	< 0.003		
3510	0.04	< 0.003		
3511	0.02	< 0.003		
3512	0.01	< 0.003		
3513	< 0.01	< 0.003		
3514	< 0.01	< 0.003		
3515	< 0.01	< 0.003		
3516	0.02	< 0.003		
3517A	< 0.01	< 0.003		
72808	< 0.01	< 0.003	< 0.01	
72809	< 0.01	< 0.003	< 0.01	
72810	< 0.01	< 0.003	< 0.01	
72811	< 0.01	< 0.003	< 0.01	TRENCH 2 'B' vein DR. Sticks sampling
72812	< 0.01	< 0.003	< 0.01	
72813	< 0.01	< 0.003	< 0.01	
72814	< 0.01	< 0.003	< 0.01	TRENCH 3 'B' vein DR. Sticks sampling
72801			< 0.01	
72802			< 0.01	
72803			< 0.01	TRENCH 4 'B' vein DR. Sticks sampling
72804			< 0.01	
72805			< 0.01	
72806			< 0.01	
72807			< 0.01	TRENCH 2 'B' vein DR. Sticks sampling

Getty Mines, Limited

C.B.G.	
AUG 14 1972	
FILE	



*W. J. Anderson*



# CHEMEX LABS LTD.

312 GROOM ROAD AVE.  
NORTH VANCOUVER, B.C.  
CANADA  
TELEPHONE: 692-0048  
AREA CODE 604

◊ CHEMISTS   ◊ GEOCHEMISTS   ◊ ANALYSTS   ◊ ASSAYERS

## CERTIFICATE OF ASSAY

CERTIFICATE NO. 21201

TO: Getty Mines Ltd.,  
1904 - 1177 W. Hastings St.,  
Vancouver, B.C.

INVOICE NO. 7662

RECEIVED August 01/72

ATTN: Dr. G. Griswold

cc: Frontier Helicopters

ANALYSED August 04/72

SAMPLE NO.:	%		Oz/Ton	
	Lead	Zinc	Silver	
81717	1.27	0.32	0.33	15.0'
81718 <i>East</i>	0.22	1.78	0.26	15.0'
81719 <i>Track</i>	0.01	0.05	0.01	15.0'
81720	4.22	4.84	0.60	14.0'
81721 <i>Track</i>	1.92	2.80	0.44	12.0'
81722	5.00	5.60	0.79	13.0'
81723	0.06	0.06	0.03	11.0'



MEMBER  
CANADIAN TESTING

*[Handwritten signature]*



# CHEMEX LABS LTD.

21, BROOKBANK AVE.  
 NORTH VANCOUVER, B.C.  
 CANADA  
 TELEPHONE: 915-0618  
 AREA CODE 604

CHEMISTS    GEOCHEMISTS    ANALYSTS    ASSAYERS

## CERTIFICATE OF ASSAY

CERTIFICATE NO. 21155

TO: Getty Mines Ltd.,  
 1904 - 1177 N. Hastings St.,  
 Vancouver, B.C.

INVOICE NO. 7567

RECEIVED July 24/72

ANALYSED July 26/72

ATTN: Dr. G. Griswold      cc: Watson I.K. Y.T.

SAMPLE NO.	% Lead	% Zinc	Oz/Ton Silver	
3501-A	< 0.01	0.02	0.09	245.5 - 248
3502-A	0.01	0.02	0.11	249 - 250
3503-A	< 0.01	0.02	0.07	250 - 252
3504-A	0.01	0.02	0.05	252 - 254
3505-A	0.01	0.02	0.04	254 - 256
3506-A	0.01	0.02	0.08	256 - 258
3507-A	< 0.01	0.01	0.08	258 - 260
3508-A	< 0.01	0.03	0.08	260 - 262
3509-A	< 0.01	0.02	0.07	262 - 264
3510-A	0.01	0.01	0.08	264 - 266
3511-A	0.01	0.03	0.08	266 - 268
3512-A	< 0.01	0.02	0.05	268 - 270
3513-A	0.01	0.03	0.02	270 - 272
3514-A	< 0.01	0.16	0.01	272 - 274
3515-A	0.01	1.35	0.02	274 - 276
3516-A	0.01	2.45	0.06	276 - 278
3517-A	0.01	3.00	0.04	278 - 280

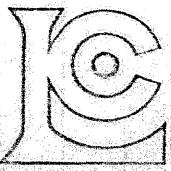
DDH # 2

Getty Mines, Limited

G.S.S.	
JUL 27 1972	
FILE	



MEMBER  
 CANADIAN TESTING



# CHEMEX LABS LTD.

11, BROOKMAN AVE.  
 NORTH VANCOUVER, B.C.  
 CANADA  
 TELEPHONE: 689-0648  
 AREA CODE 604

• CHEMISTS • GEOCHEMISTS • ANALYSTS • ASSAYERS

## CERTIFICATE OF ASSAY

CERTIFICATE NO. 21153

TO: Getty Mines Ltd.,  
 1904 - 1177 W. Hastings St.,  
 Vancouver, B.C.

INVOICE NO. 7566

RECEIVED July 24/72

ANALYSED July 26/72

ATTN: Dr. C. Griswold, Mr. D. Stelck cc: Watson Lk.

SAMPLE NO.	% Lead	% Zinc	Oz/Ton Silver			
72801	0.76	0.28	0.08	TRENCH 1	'B' vein	DR Stelck sampling
72802	0.20	0.10	< 0.01			
72803	4.60	6.40	0.31			
72804	9.20	9.20	0.69			
72805	0.54	0.80	0.08			
72806	9.74	8.80	0.60	TRENCH 2	'B' vein	DR Stelck sampling
72807	4.60	3.80	0.49			
72808	4.00	4.10	0.35			
72809	0.33	0.07	0.08			
72810	2.30	2.20	0.35			
72811	11.2	14.5	1.28	TRENCH 3	'B' vein	DR Stelck sampling
72812	7.84	8.00	0.61			
72813	7.40	8.20	0.58			
72814	8.60	7.40	0.93			
81701	0.11	0.09	< 0.01	CIRQUE 2, TRENCH 2		
81702	0.02	0.03	< 0.01			
81703	1.02	1.30	0.20			
81704	0.63	2.50	0.79			
81705	0.20	0.76	0.28			
81706	0.34	0.41	0.17	CIRQUE 2, TRENCH 3		
81707	0.28	0.66	0.25			
81708	2.00	3.00	1.02			
81709	2.04	5.00	2.48			
81710	0.68	0.86	0.35			
81711	1.66	2.70	1.16	CIRQUE 2, TRENCH 4		
81712	0.13	0.17	0.29			
81713	0.03	0.04	0.05			
81714	0.02	0.04	< 0.01			
81715	0.02	0.04	< 0.01			
81716	0.54	0.45	0.05	CIRQUE 2, TRENCH 1		
83251	0.02	0.02	< 0.01			
83252	< 0.01	0.02	< 0.01			
83253	0.01	0.07	< 0.01			
83254	0.56	0.76	0.01			
83255	0.34	0.30	0.01	CIRQUE 2, TRENCH 1		
83256	0.02	0.04	< 0.01			
83257	0.52	0.68	0.01			
83258	0.45	0.64	< 0.01			
83259	0.09	0.17	0.01			
83260	2.46	3.50	1.81			

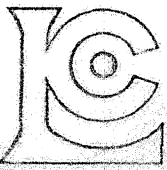
Getty Mines, Limited

G.B.C.	
JUL 27 1972	
FILE	



MEMBER  
 CANADIAN TESTING

*Watson Lk*



# CHEMEX LABS LTD.

212 BROADBANK AVE.  
 NORTH VANCOUVER, B.C.  
 CANADA  
 TELEPHONE (604) 666-0611  
 AREA CODE 604

• CHEMISTS    • GEOCHEMISTS    • ANALYSTS    • ASSAYERS

## CERTIFICATE OF ASSAY

TO: Getty Mines Ltd.,  
 1904 - 1177 W. Hastings St.,  
 Vancouver, B.C.

CERTIFICATE NO. 21154  
 INVOICE NO. 7566  
 RECEIVED July 24/72  
 ANALYSED July 26/72

ATTN: Dr. G. Griswold, Mr. D. Stelck cc: Watson Lk.

SAMPLE NO.	% Lead	% Zinc	Oz/Ton Silver	
83261	0.08	0.41	0.03	CIRQUE 2, TRENCH 1
83262	0.10	0.24	0.01	
83263	0.42	1.65	0.49	
83264	4.00	4.10	0.35	
83265	2.40	3.00	1.34	
83266	2.23	3.40	0.40	
83267	1.44	2.20	0.52	
83268	1.02	2.05	0.53	
83269	0.66	2.45	0.32	
83270	0.38	0.96	0.39	
83271	0.78	1.50	0.52	CIRQUE 2, TRENCH 2
83272	1.95	7.00	2.04	
83273	0.07	0.18	0.04	
83274	0.01	0.11	0.01	
83275	0.10	0.20	0.06	
83276	2.96	3.60	2.51	
83277	0.53	3.70	1.34	
83278	3.08	15.0	6.24	
83279	0.73	5.40	1.28	
83280	0.20	2.60	0.52	
83281	0.14	3.10	0.29	
83282	0.38	1.55	0.93	
83283	0.36	0.17	0.09	
83284	< 0.01	0.02	< 0.01	



*Dr. G. Griswold*

<u>Cirque</u> <u>No.</u>	<u>Trench</u> <u>No.</u>	<u>Coordinates</u>		<u>Bearing of</u> <u>Trench</u>	<u>Length of</u> <u>Trench</u>
		<u>North</u>	<u>East</u>		
2	3	103+435	32+170	120 <sup>0</sup>	25'
2	4	103+100	32+040	120	45
3B	B-zone	103+400	29+700	-	-
6	1	94+250	29+200	100	6.8
East Creek Zone	2	83+500	38+200	060	25

### DIAMOND DRILLING

Eight diamond drill holes were completed in the five week program. A Canadian Longyear model 38 diesel powered wireline drill was used for all holes.

<u>Hole #</u>	<u>Depth</u>	<u>OB</u>	<u>Casing</u>	<u>Recovery %</u>	<u>Started</u>	<u>Completed</u>
1	200'	21'	21'	98	July 3	July 5
2	320'	23'	23'	98.5	July 6	July 8
3	511'	28'	28'	97	July 9	July 12
4	191'	24'	27'	99	July 13	July 14

<u>Hole #</u>	<u>Depth</u>	<u>OB</u>	<u>Casing</u>	<u>Recovery %</u>	<u>Started</u>	<u>Completed</u>
5	371'	20'	20'	95.8	July 15	July 17
6	460'	24'	37'	98	July 18	July 20
7	455'	25'	25'	97	July 21	July 26
8	768'	0'	0'	99	July 27	Aug. 2

The cost per foot, including mobilization and moves, was \$13.29 per foot.