

This is EXHIBIT "A" to the  
Application by EXETER MINES  
LTD (N.P.L.) for Northern  
Mineral Assistance Grant

#00009

GEOLOGICAL REPORT

ON THE

TINTA HILL PROPERTY

WHITEHORSE MINING DIVISION, Y.T.

for

EXETER MINES LTD (N.P.L.)

115-I-7

January 10, 1974  
Vancouver, B.C.

Thomas R. Tough, P.Eng.,  
Consulting Geologist

*NMEAP  
Received Ottawa  
May 22/74*

## TABLE OF CONTENTS

SUMMARY

CONCLUSIONS

RECOMMENDATIONS

INTRODUCTION.....	1
PROPERTY.....	1
OWNERSHIP.....	2
LOCATION.....	2
ACCESS.....	2
TOPOGRAPHY.....	3
WATER.....	3
CLIMATE.....	3
POWER.....	3
SUPPLIES.....	3
TRANSPORTATION.....	4
HISTORY.....	4
GENERAL GEOLOGY.....	4
LOCAL GEOLOGY.....	5
MINERALIZATION.....	5
GEOPHYSICAL SURVEYS.....	10
GEOCHEMICAL SURVEY.....	11
DIAMOND DRILLING.....	12
ORE RESERVES.....	17
POTENTIAL ORE.....	18
ECONOMIC CONSIDERATIONS.....	19

TABLE OF CONTENTS (continued)

EXPLORATION AND DEVELOPMENT PROGRAMME.....	22
ESTIMATED COST OF EXPLORATION AND DEVELOPMENT PROGRAM	22
CERTIFICATE.....	23

M A P S

<u>Title</u>	<u>Scale</u>
LOCATION MAP	1" = 60 miles
CLAIM MAP	1" = 3000 feet
PLAN OF E.M. CONDUCTORS	1" = 800 feet
E.M. PROFILES	1" = 200 feet
DRILL HOLE PLAN	1" = 100 feet
SECTION 7+00E	1" = 50 feet
SECTION 8+00E	1" = 40 feet
SECTION 10+00E	1" = 40 feet
SECTION 11+80E	1" = 40 feet
SECTION 13+60E	1" = 40 feet
SECTION 14+20E	1" = 40 feet
SECTION 16+20E	1" = 40 feet
SECTION 18+30E	1" = 40 feet
SECTION 20+00E	1" = 40 feet
DRILL INDICATED ORE RESERVES	1" = 100 feet

GEOCHEMICAL OIL SURVEY

LEAD IN P.P.M.	1" = 400 feet
SILVER IN P.P.M.	1" = 400 feet
GOLD IN P.P.M.	1" = 400 feet
COPPER IN P.P.M.	1" = 400 feet

APPENDIX

Diamond Drill Logs - 1973 Series.

PART A  
GEOLOGICAL REPORT  
ON THE  
TINTA HILL PROPERTY  
WHITEHORSE MINING DIVISION, Y.T.

SUMMARY

The Tinta Hill property, consists of 25 located mineral claims located approximately 24 air miles northwest of Carmacks, Y.T. and is accessible by 41 miles of road. Eight of the claims are optioned from Canex-Placer Ltd and the remaining 17 are held by Exeter Mines Ltd. (N.P.L.)

The topography is relatively gentle with elevation on the property ranging between 3,300 and 4,100 feet.

Water is available for all phases of exploration and development and railroad facilities are available in Whitehorse.

The property was first discovered in 1930 and has since undergone intermittent exploration primarily for the precious metal content. Exploration to date has consisted of trenching, sampling, the driving of a short adit and limited diamond drilling. Canex Aerial Explorations Ltd. acquired the

property and carried out geochemical and electromagnetic surveys. In 1968, Silgold Mines Ltd., optioned the property from Canex and cleaned out and sampled the existing trenches. Since that date no additional work has been undertaken.

The property is underlain by quartz-monzonite which is highly altered in the vicinity of the shear zone which contains the known zones of mineralization. Galena, sphalerite, pyrite, chalcopyrite, tetrahedrite, azurite and malachite occur in quartz veins and within the altered wall rocks.

#### CONCLUSIONS

1. From data compiled to date, 700 tons/vertical foot of drill indicated ore grading 0.09 oz Au/ton, 3.07 oz Ag/ton, 2.96% Pb, 4.39% Zn and 0.43% Cu have been estimated.
2. The potential for increasing ore reserves appears to be excellent as the zone is open to the northwest, the southeast and to depth.
3. It is concluded from the results of surface sampling, diamond drilling and geophysical information, that there at least two and possibly three sub-parallel

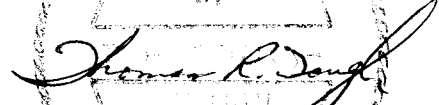
mineralized zones that do and may carry sulphide mineralization in sufficient concentrations to be of economic significance.

4. Systematic diamond drilling and underground development will be required to develop mineable tonnages of gold-silver-lead-zinc-copper ore.
5. Indications to date suggest the possibility of the known zone being economically viable at a rate of between 300 to 500 tons/day.

#### RECOMMENDATIONS

1. It is recommended that surface diamond drilling be undertaken to further delineate the mineralized zones.
2. Upon the completion of the proposed drill programme, underground development, should be undertaken in the main zone of interest.
3. It is also recommended that Exeter Mines Ltd (N.P.L.) allocate the sum of \$75,000.00 to implement and execute the recommended exploration and development programme.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Thomas R. Tough", is written over a circular stamp. The stamp contains some faint, illegible text and a horizontal line.

Thomas R. Tough, P. Eng.,  
Consulting Geologist

January 10, 1974

PART B  
GEOLOGICAL REPORT  
ON THE  
TINTA HILL PROPERTY  
WHITEHORSE MINING DIVISION, Y.T.  
FOR  
EXETER MINES LTD (N.P.L.)  
115-I-7

INTRODUCTION

The following report has been compiled from information obtained during an initial examination by the writer on August 2, 1973; from a study of past records of work carried out by previous and present owners; from a review of government publications; and from the direction and supervision of a diamond drill programme carried out between October 28 and November 20, 1973 by Exeter Mines Ltd (N.P.L.).

PROPERTY

The property consists of 25 mineral claims held by location. They are as follows:

<u>Claim Name</u>	<u>Grant Numbers</u>	<u>Expiry Date</u>
Tinta 1-4 incl.	Y10054-57 incl.	August 22, 1974
Tinta 5-8 incl.	Y20626-29 incl.	November 10, 1974
Tinta 9	Y76840	August 22, 1974
Tinta 11-26 incl.	Y76841-56 incl.	August 22, 1974

#### OWNERSHIP

The Tinta 1-8 claims are owned by Canex-Placer Ltd and Tinta 9, 11-26 incl. are owned by Exeter Mines Ltd (N.P.L.).

#### LOCATION (62° 136° S.W.)

The Tinta Hill property lies on the southern flank of Granite Mountain, Whitehorse Mining Division, Y.T., approximately 24 air miles northwest of the town of Carmacks on the Alaska Highway.

#### ACCESS

A good gravel road, the Crossing Creek road, heads west from Carmacks and at a point 34 miles from Carmacks a four-wheel drive road leads north into the Tinta Hill property, a distance of some 7 miles. The various showings are accessible by road and trail.

### TOPOGRAPHY

The topography is relatively gentle with elevations on the property varying from 3300 feet to 4100 feet. The hillsides are covered with scrub balsam and willow.

### WATER

Merrice Creek and its tributaries have sufficient flowage for all phases exploration, development and domestic use.

### CLIMATE

Winters are relatively severe with moderate snowfall. Total annual precipitation is approximately 20 inches.

### POWER

Diesel electric power would be necessary for the initial stages of development.

### SUPPLIES

Most supplies may be obtained from Whitehorse. Good daily express services will enable purchasing locally unobtainable goods from major centres in the Yukon Territory or British Columbia.

### TRANSPORTATION

Truck transportation to railhead in Whitehorse would be available.

### HISTORY

According to Bostock (1936a, p.55; 1941, p.26) the vein was discovered in 1930 and explored by trenches and shallow shafts until 1932. Restaking took place in 1939 or 1940 and further exploration was carried out.

During the period between 1959-60 Conwest Exploration Company Limited acquired the prospect and carried out trenching and diamond drilling.

Canex Aerial Exploration Ltd acquired the property in 1966 and has since carried out geochemical and electromagnetic surveys. In 1968 Silgold Mines Ltd. optioned the Tinta 1-8 claims from Canex Aerial Exploration Ltd., and cleaned out and sampled the existing trenches.

### GENERAL GEOLOGY

The N.E. flank of the Dawson Range is generally underlain by a basement complex of metamorphic Yukon Schists and an assemblage of highly differentiated Jurassic or Cretaceous intrusives both overlain and underlain by basic and

acid volcanics. The assemblage is cut by many bodies of younger quartz-porphyries and rhyolites. The Dawson Range was not glaciated during the last period of glaciation.

#### LOCAL GEOLOGY

Essentially the property is underlain by quartz-monzonite which is gneissic in places. On the north side of the main shear zone a band of amphibolite occurs.

The quartz-monzonite is generally medium-grained, pink-grey with chloritization of the mafic minerals. Quartz stringers are common and fractures are usually filled with chlorite or calcite.

Alteration is fairly intense in the vicinity of the main shear zone and consists of pink K-feldspar, clay minerals, sericite, green brown and red chlorite, silicification and epidote.

#### MINERALIZATION

Mineralization is confined to a shear zone which strikes at  $300^{\circ}$  and has a near vertical dip. The shear reaches a width of 10 feet or more. Quartz veins within the shear contain pyrite, galena, sphalerite, chalcopyrite and tetra-

hedrite. Some cerrusite, anglesite and smithsonite probably occur as does azurite and malachite. Pyrite, chalcopyrite, azurite and malachite occur within the wall rocks as veinlets and disseminations.

Exploration to date has helped to establish a well-defined mineralized shear zone over a length of some 4,000 feet and open at both ends. The average true thickness of the mineralized zone encountered in diamond drill holes is 5.14 feet. Samples from surface exposures suggest a variance of a few inches to approximately six feet. At the time of the writer's examination most of the trenches were partially sloughed in and vein exposures were poor. Based on previous sampling the surface exposures appear to have an average true thickness of about three feet.

A number of sloughed-in cuts and trenches were noted to the north of the main shear zone and dump material suggested the presence of additional quartz veins which appear to parallel the main vein system.

The trenching along the main shear zone generally follows the baseline and the following descriptions of the showings are related to the grid lines.

TRENCH NO. 1

Located at 2+00E the trench exposes a 5.5 foot section of rusty vein material with chalcopyrite, pyrite, tetrahedrite and malachite. A sample cut across the 5.5 foot width assayed 0.04 oz Au/ton and 8.18 oz Ag/ton. Other elements were not assayed. The vein strikes at 164°.

TRENCH NO. 2 (4+00E) (Strike 148°)

The trench exposes rusty gouge material containing galena and malachite. A three-foot sample assayed 0.07 oz Au/ton and 1.7 oz Ag/ton.

TRENCH NO. 3 (7+00E)

This working consists of an old caved shaft. A select specimen of galena assayed 0.04 oz Au/ton, 98.88 oz Ag/ton and 76.0% Pb.

TRENCH NO. 4 (8+00E) (Strike 170°)

A 4.8 foot zone of vuggy quartz and rusty gouge assayed 0.03 oz Au/ton and 2.91 oz Ag/ton.

TRENCH NO. 5 (10+00E)

Three quartz veins were noted fairly close together two were two inches wide and one was two feet wide. An assay of one of the two inch veins assayed 0.03 oz Au/ton and 1.8 oz Ag/ton.

TRENCH NO. 6 (12+00E) (Strike 150°)

A section across 2.2 feet of rusty vein containing chalcopyrite azurite, malachite and minor galena assayed 0.02 oz Au/ton, 0.78 Ag/ton, 0.06% Pb and 1.53% Cu.

TRENCH NO. 7 (14+70 E) (Strike 140°)

A 2.5 foot section containing vein, gouge and wallrock assayed 0.14 oz Au/ton, 1.62 oz Ag/ton, 2.50% Pb and 0.70% Zn. Minerals present were azurite, malachite and galena.

TRENCH NO. 8 (16+00E) (Strike 148°)

Quartz, gouge, and altered wall rock form a section 5 feet wide which contains galena, possibly cerrusite and anglesite, and malachite. The section assayed 0.08 oz Au/ton, 7.90 oz Ag/ton, 14.5% Pb and 0.42% Cu.

TRENCH NO. 9 (17+00E) (Strike 148°)

A zone of quartz and gouge containing pyrite, galena, chalcopyrite, bornite, and malachite assayed 0.40 oz Au/ton, 30.02 oz Ag/ton, 32.9% Pb, 0.27% Zn and 0.85% Cu across 3.9 feet.

TRENCH NO. 10 (18+00E) (Strike 140°)

2.7 feet of quartz vein and gouge assayed 0.74 oz Au/ton  
14.25 oz Ag/ton, 20.2% Pb and 1.05% Cu - Galena, tetrahedrite  
and malachite were present.

TRENCH NO. 11 (20+00E) (Strike 150°)

A six inch vein containing galena and pyrite assayed 0.02  
oz Au/ton and 0.36 oz Ag/ton.

TRENCH NO. 12 (22+00E) (Strike 145°)

2.7 feet of vein, gouge and wall rock assayed 0.16 oz Au/ton  
24.76 oz Ag/ton, 13.4% Pb and 0.50% Cu. The section contains  
galena, sphalerite, chalcopyrite, azurite and malachite.

TRENCH NO. 13 (24+00E) (Strike 30°)

Selected specimens of gouge and sulphides over two feet  
assayed 0.03 oz Au/ton, 7.51 oz Ag/ton, 15.6% Pb, 20.6% Zn  
and 0.05 % Cu. Sulphides noted were galena, sphalerite  
and pyrite.

## GEOPHYSICAL SURVEYS

### (i) Airborne Magnetometer Survey

The government airborne magnetometer survey map reveals a large magnetic anomaly covering Granite Mountain and its flanks. The Tinta claim group lies on the southern flank of Granite Mountain in an area where considerable distortion of the magnetic anomaly exists. The distortion trends in a northwesterly direction and could probably be reflecting the shear zone which contains the mineralized areas of interest on the property.

### (ii) VLF-EM Survey

Approximately six miles of VLF-EM survey were run utilizing a Ronka E.M. 16. The strongest crossovers occur near 1+00S on lines 0+00E to 25+00E and correspond with the exposed portion of the mineralized shear zone. Extensions of the zone continue over the length of the grid as indicated by readings of lesser intensity.

A near parallel conductor occurs along the north end of the grid lines which has not been detailed enough to provide total interpretation. The conductor may be reflecting either a fault or another mineralized vein structure.

### GEOCHEMICAL SURVEY

A total of 271 soil samples were collected over a grid area of 7,000 feet by 2,000 feet. The grid lines are 500 feet apart with sample stations at every 100 feet. The samples were assayed for silver, lead, copper and gold.

#### (i) Silver

A number of slightly anomalous zones occur throughout the grid area with higher values between L0+00E and L25+00E and between stations 1+00N to 10+00S. There is excellent correlation with high lead values within that area.

#### (ii) Lead

The lead values generally reflect the length of the known mineralized shear zone with some minor downhill displacement.

#### (iii) Copper

There were no strong copper anomalies located within the grid except on L10+00E and L15+00E between stations 1+00S and 3+00S. The high copper values correlate with high lead and silver readings.

(iv) Gold

The only significant gold values were obtained on L10+00E at stations 1+00S and 2+00S and occur in an area of high lead, silver and copper readings.

DIAMOND DRILLING

A total of 1,345 feet of diamond drilling in five holes has been drilled in the past. The drilling tested the mineralized shear zone between L7+00E and L20+00E. Only the core for DDH # 5 remains intact and portions of DDH # 3 were examined. The core from the remaining three holes has been dumped. All the holes were drilled at 032° and at an angle of -45°.

DDH #60-1

Location:	L18+30E 1+20S
Depth:	206'
Intersection:	128' to 139' = 11'
Assay:	Tr Au; 0.20 oz Ag/ton; 0.33% Pb; 1.06% Zn; 0.03% Cu
Intersection	160.5' to 166' = 5.5'
Assay:	0.07 oz Au/ton; 6.05 oz Ag/ton; 11.18% Pb 10.37% Zn; 0.20% Cu.

True Width

3.9'

Assay

0.070 oz Au/ton, 6.05 oz Ag/ton, 11.18% Pb,  
10.37% Zn; 0.20% Cu.

DDH # 60-2

Location: L16+20E 1+10S

Depth: 200'

Intersection: 134 to 166' = 32.0'

Assay: 0.024 oz Au/ton; 1.40 oz Ag/ton;  
0.98% Pb; 1.83% Zn; 0.13% Cu.

Intersection: 150 to 166' = 16.0'

Assay: 0.043 oz Au/ton; 2.63 oz Ag/ton;  
1.71% Pb; 2.87% Zn; 0.22% Cu.

Intersections: 150 to 157.6' = 7.6'

Assay: 0.078 oz Au/ton; 5.19 oz Ag/ton;  
3.25% Pb; 5.01% Zn; 0.49% Cu.

Intersection: 154.5 - 157.6 = 3.1'

Assay: 0.18 Au; 12.50 Ag; 7.40% Pb;  
10.40% Zn; 1.20% Cu.

Total intersection of mineralized zone = 32 feet.

True Width

5.4'

Assay

0.078 oz Au/ton; 5.19 oz Ag/ton;  
3.25% Pb, 5.01% Zn, 0.49% Cu

DDH #60-3

Location: L20+00E 1+25S

Depth: 277'

Intersection: 179.5' to 190.5' = 11.0'

Assay: 0.039 oz Au/ton; 1.64 oz Ag/ton;  
1.76% Pb; 2.76% Zn; 0.08% Cu.

True Width

7.5'

Assay

0.039 oz Au/ton; 1.64 oz Ag/ton;  
1.76% Pb; 2.76% Zn; 0.08% Cu.

DDH #60-4

Location: L8+00E 1+70S  
 Depth: 229'  
 Intersection: 84' to 95.2' = 11.2'  
 Assay: 0.039 oz Au/ton; 0.98 oz Ag/ton;  
 1.12% Pb; 6.02% Zn; 0.42% Cu  
 Intersection: 164.5' to 169.0' = 4.5'  
 Assay: 0.32 oz Au/ton; 5.02 oz Ag/ton;  
 2.00% Pb; 3.80% Zn; 1.25% Cu

Total intersection of mineralized zone = 16.2 feet

True Width

5.7'

Assay

0.182 oz Au/ton; 2.81 oz Ag/ton;  
 1.17% Pb, 2.57% Zn; 0.77% Cu

DDH #60-5

Location: L7+00E 3+30S  
 Depth: 432'  
 Intersection: 242' to 247' = 5.0'  
 Assay: 0.005 Au/ton; 0.18 oz Ag/ton;  
 1.10% Pb; 1.70% Zn; 0.01% Cu  
 Intersection: 410' to 413.5' = 3.5'  
 Assay: 0.13 oz Au/ton; 11.78 oz Ag/ton;  
 9.70% Pb; 6.50% Zn; 0.75% Cu

Total intersection of mineralized zone = 18.5 feet.

True Width

4.6'

Assay

0.065 oz Au/ton; 5.89 oz Ag/ton;  
 4.85% Pb; 3.25% Zn; 0.38% Cu

Diamond Drilling

A total of 1,126 feet of B.Q. diamond drilling was drilled in four holes located between L10+00E and L14+20E. All holes were drilled with a dip of  $-45^{\circ}$  and an azimuth of  $032^{\circ}$ .

DDH #73-1

Location:	L13+80E; 1+70S
Depth:	236'
Intersection:	212' - 214.5' = 2.5'
Assay:	0.01 oz Au/ton; 0.10 oz Ag/ton; 0.25% Pb, 0.45% Zn, 0.04% Cu, 0.001% Cd
Intersection:	214.5 - 219' = 4.5'
Assay:	0.42 oz Au/ton; 4.30 oz Ag/ton; 3.75% Pb, 8.10% Zn, 0.98% Cu, 0.05% Cd
Intersection:	219' - 221' = 2.0'
Assay:	0.005 oz Au/ton; 0.09 oz Ag/ton; 0.35% Pb, 1.15% Zn, 0.03% Cu, 0.01% Cd

True Width

4.6'

Assay

0.031 oz Au/ton; 1.05 oz Ag/ton;  
1.29% Pb, 3.80% Zn, 0.61% Cu,  
0.04% Cd

DDH #73-2

Location:	L11+80E; 1+60S
Depth:	223'
Intersection:	204 - 207 = 3.0'
Assay:	< .05% Pb, 0.30% Zn
Intersection:	207 - 209.5' = 2.5'

Assay: 0.16 oz Au/ton; 3.90 oz Ag/ton;  
3.40% Pb, 10.90% Zn, 1.00% Cu, 0.01% Cd

True Width

3.9'

Assay

0.073 oz Au/ton; 1.77 Ag/ton; 1.57% Pb,  
5.12% Zn, 0.47% Cu, 0.01% Cd

DDH #73-3

Location: L10+00S; 1+52W

Depth: 202.3'

Intersection: 166 - 169' = 3.0'

Assay: Tr Au/ton; 0.06 oz Ag/ton; 0.15% Pb,  
0.30% Zn, 0.01% Cu

Intersection: 169 - 174.7' = 5.7'

Assay: 0.03 oz Au/ton; 2.20 oz Ag/ton; 2.00% Pb,  
4.30% Zn, 0.35% Cu, 0.03% Cd

Intersection: 174.7 - 176.7' = 2.0'

Assay: Tr Au/ton; 0.11 oz Ag/ton; 0.25% Pb,  
0.55% Zn, 0.03% Cu, 0.01% Cd

True Width

5.4'

Assay

0.022 oz Au/ton; 1.66 oz Ag/ton; 1.55% Pb,  
3.33% Zn, 0.27% Cu, 0.024% Cd

DDH #73-4

Location: L14+20E; 2+80W

Depth: 460'

Intersection: 440 - 442.7 = 2.7'

Assay: 0.005 oz Au/ton; 0.18 oz Ag/ton; 0.40% Pb,  
1.00% Zn, 0.04% Cu, 0.01% Cd

Intersection: 442.7 - 445 = 2.3'

Assay:	0.09 oz Au/ton; 2.80 oz Ag/ton; 3.40% Pb, 10.10% Zn, 1.45% Cu, 0.08% Cd
Intersection:	445 - 447.5' = 2.5'
Assay:	0.005 oz Au/ton; 0.37% Ag/ton; 0.30% Pb, 1.04% Zn, 0.06% Cu, 0.01% Cd
<u>True Width</u>	<u>Assay</u>
5.3'	0.031 oz Au/ton; 1.05 oz Ag/ton; 1.29% Pb, 3.80% Zn, 0.61% Cu, 0.03% Cd

### ORE RESERVES

Tonnages were calculated using the true thicknesses of drill hole intersections. The weighted average grades of all assays influencing the area sampled were utilized along with a tonnage factor of eleven cubic feet per ton. With the limited amount of diamond drilling and surface sampling carried out to date, the only categories that may be applied to the reserves is that of drill indicated and inferred ore reserves.

Drill indicated reserves were calculated utilizing only the area of the zone influenced by the diamond drilling. Inferred ore reserves were estimated by taking extensions beyond the drilled area where only surface information is available.

TONNAGE CALCULATIONS

Length of zone tested:	1,500 feet
Average true thickness of zone:	5.14 feet
Weighted average grade:	0.09 oz Au/ton; 3.07 oz Ag/ton; 2.96% Pb; 4.39% Zn; 0.43% Cu.

DRILL INDICATED ORE RESERVES

$$\frac{1,500 \times 5.14 \times 1}{11} = 700 \text{ tons/vertical foot}$$

$$\frac{1,000 \times 5.14 \times 1}{11} = 467 \text{ tons/vertical foot}$$

POTENTIAL ORE

The vein is open in three directions; along strike, and to depth.

The VLF Electromagnetic survey has located a sub-parallel conductor to the north of the main vein and some sections in the drill holes suggest another zone immediately to the south of the main vein.

### ECONOMIC CONSIDERATIONS

Based upon a number of reasonable assumptions of data for an operation producing at a rate of 500 tons per day, calculations were made to determine a profit picture as applied to the drill indicated reserves as they exist to date.

All the contained metals were considered to be extractable, in varying degrees, in only two concentrates ie. lead and zinc. Further studies will be required to determine the feasibility of producing a separate copper concentrate.

The smelter schedules used for the calculations were those of Cominco Ltd as to their Open Schedule, effective January 1, 1974.

### ASSUMPTIONS

#### Pb Concentrate

Pb = 65.00%  
 Zn = 4.00%  
 Ag = 66.92 oz. calculated  
 Au = 1.53 oz. calculated  
 Cu = 4.92%      calculated  
 Tails = 0.52%  
 Fe = 5.00%  
 H<sub>2</sub>O = 10.00%

#### Zn Concentrate

Zn = 56.00%  
 Pb = 1.50%  
 Ag = 4.34 oz. calculated

Au = 0.10 oz. calculated  
 Cu = 2.87% calculated  
 Cd = 0.24% calculated  
 Tails = 0.75%  
 Fe = 5.00%  
 H<sub>2</sub>O = 10%

HEADS

0.09 oz Au/ton; 3.07 oz Ag/ton; 2.96% Pb, 4.39% Zn, 0.43% Cu,  
0.027% Cd

At a rate of 500 Tpd. a total of 18.58 tons of lead concentrate,  
and 31.85 tons of zinc concentrate would be produced with a  
concentration ratio of 10:1.

SMELTER PAYMENTS - LEAD CONCENTRATE

Pb = 1130.86 lbs x 15.73¢	=	\$ 177.88
Zn = 56 lbs x 17.165¢	=	9.61
Ag = 62.24 oz. x \$3.4952	=	217.54
Au = 1.4229 oz. x \$123.97	=	176.40
Cu = 29.52 lbs x 75.562¢	=	22.30
		<hr/>
Total		\$ 603.73
<u>Deductions and Penalties</u>	=	\$ 19.25
		<hr/> <hr/>
Estimated Value per S.D.T.	=	\$ 584.48
		<hr/>
F.O.B. Minesite		

ZINC CONCENTRATE

Zn = 943.67 lbs x 31.12¢	=	\$ 293.67
Pb = 10 lbs x 20.668¢	=	2.07
Ag = 3.34 oz. x \$3.4952	=	11.67
Au = 0.07 oz. x \$123.97	=	8.68
Cd = 1.08 lbs x \$3.25	=	3.51

Total	\$ 319.60
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<u>Deductions and Penalties</u>	=	<u>118.72</u>
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Estimated Value per S.D.T.	\$ 200.88
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F.O.B. Minesite	<u>          </u>
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Freight (estimated) F.O.B. Trail, B.C. = \$ 40.00/ton Conc.

Net value of a ton of lead concentrate = \$544.48

Net value of a ton of zinc concentrate = \$160.88

Net value of Pb production per day = 18.58 x \$544.48 = \$10,116.44

Net value of Zn production per day = 31.85 x \$160.88 = \$ 5,124.03

\$15,240.77

Value of ore in place  $\$15,240.47 \div 500 = \$30.48/\text{ton}$

Mining, milling and overhead costs (estimated) \$19.00/ton

Net Profit/ton of ore \$11.48

Further work will be required regarding a metallurgical study to arrive at more accurate recoveries and grades and to determine milling and concentrating data.

EXPLORATION AND DEVELOPMENT PROGRAMME

Prime consideration should be given to further delineating the known mineralized shear zone by diamond drilling with a view to increasing and up-grading present ore reserves.

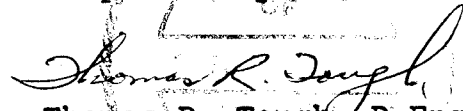
Upon the successful completion of detailed diamond drilling, a programme of underground development should be undertaken to prove the drill indicated reserves.

ESTIMATED COST OF EXPLORATION AND DEVELOPMENT PROGRAMME

Diamond drilling 3,000 feet B.Q. wireline \$17/foot all inclusive	\$ 51,000.00
Engineering and Supervision	9,000.00
Travel and Living Expenses	5,000.00
Vehicle Rental	3,000.00
Contingencies	7,000.00
	<hr/>
	\$ 75,000.00
	<hr/> <hr/>

It is estimated that the above programme should take approximately 4 months to complete.

Respectfully submitted,

  
Thomas R. Tough, P.Eng.,  
Consulting Geologist

January 10, 1974

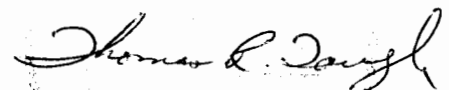
## CERTIFICATE

I, THOMAS R. TOUGH, of the City of Richmond, in the Province of British Columbia, do hereby certify:

That I am a Consulting Geologist and an associate of T.R. Tough & Associates Ltd., with offices at 519 - 602 West Hastings Street, Vancouver, B.C.

I further certify:

1. That I am a graduate of the University of British Columbia (1965) and hold a B.Sc. degree in Geology.
2. I have been practising in my profession for the past eight years and have been active in the mining industry for the past fifteen years.
3. I am registered with the Association of Professional Engineers of British Columbia.
4. This report is based on information obtained by the writer during an initial personal examination of the property August 2, 1973, from a study of available data from government and other publications; and from the direct supervision of the diamond drill programme carried out by Exeter Mines Ltd (N.P.L.) during November, 1973.
5. I am the unregistered shareholder of 11,000 shares of Exeter Mines Ltd (N.P.L.).



Thomas R. Tough, P.Eng.,  
Consulting Geologist

January 10, 1974

The following updated calculations are derived from metal price quotations from Metals Week monthly average for March 1974 and from April 15, 1974 Metals Week.

Smelter Payments - Lead Concentrate

Pb = 1130.86 lbs x	=	\$199.23
Zn = 56 lbs x 20.868¢	=	11.69
Ag = 62.24 ozs x \$5.2555	=	327.10
Au = 1.4229 ozs x \$165.421	=	235.38
Cu = 29.52 lbs x \$1.20785	=	<u>35.66</u>

TOTAL \$809.06

Deductions and penalties \$ 19.25

Estimated value per S.D.T. = \$789.81  
F.O.B. Minesite

Zinc Concentrate

Zn = 943.67 lbs x 34.742¢	=	\$327.85
Pb = 10 lbs x 27.626¢	=	2.76
Ag = 3.34 ozs x \$5.2555	=	17.55
Au = 0.07 ozs x \$165.421	=	11.58
Cd = 1.08 lbs x \$3.25	=	<u>3.51</u>

TOTAL \$363.25

Deductions and Penalties = 130.11

Estimated value per S.D.T. = 233.14  
F.O.B. Minesite

Freight (estimated) F.O.B. Trail, B.C. = \$ 40.00/ton conc.

Net value of a ton of lead concentrate = \$749.81

Net value of a ton of zinc concentrate = 193.14

Net value of PB production per day = 18.58 tons x \$749.81 = \$13,931.47

Net value of Zz production per day = 31.85 tons x \$193.14 = 6,151.51

\$20,082.98

Value of ore in place \$20,082.98 ÷ 500 tons = \$40.17/ton

Mining, milling and overhead costs (estimated) \$19.00/ton

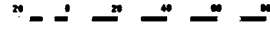
Net profit/ton of ore \$21.17

T.R. TOUGH & ASSOCIATES LTD.  
EXETER MINES LTD. (N.P.L.)  
TINTA HILL PROPERTY

# LOCATION MAP

TINTA HILL, YUKON

SCALE IN MILES

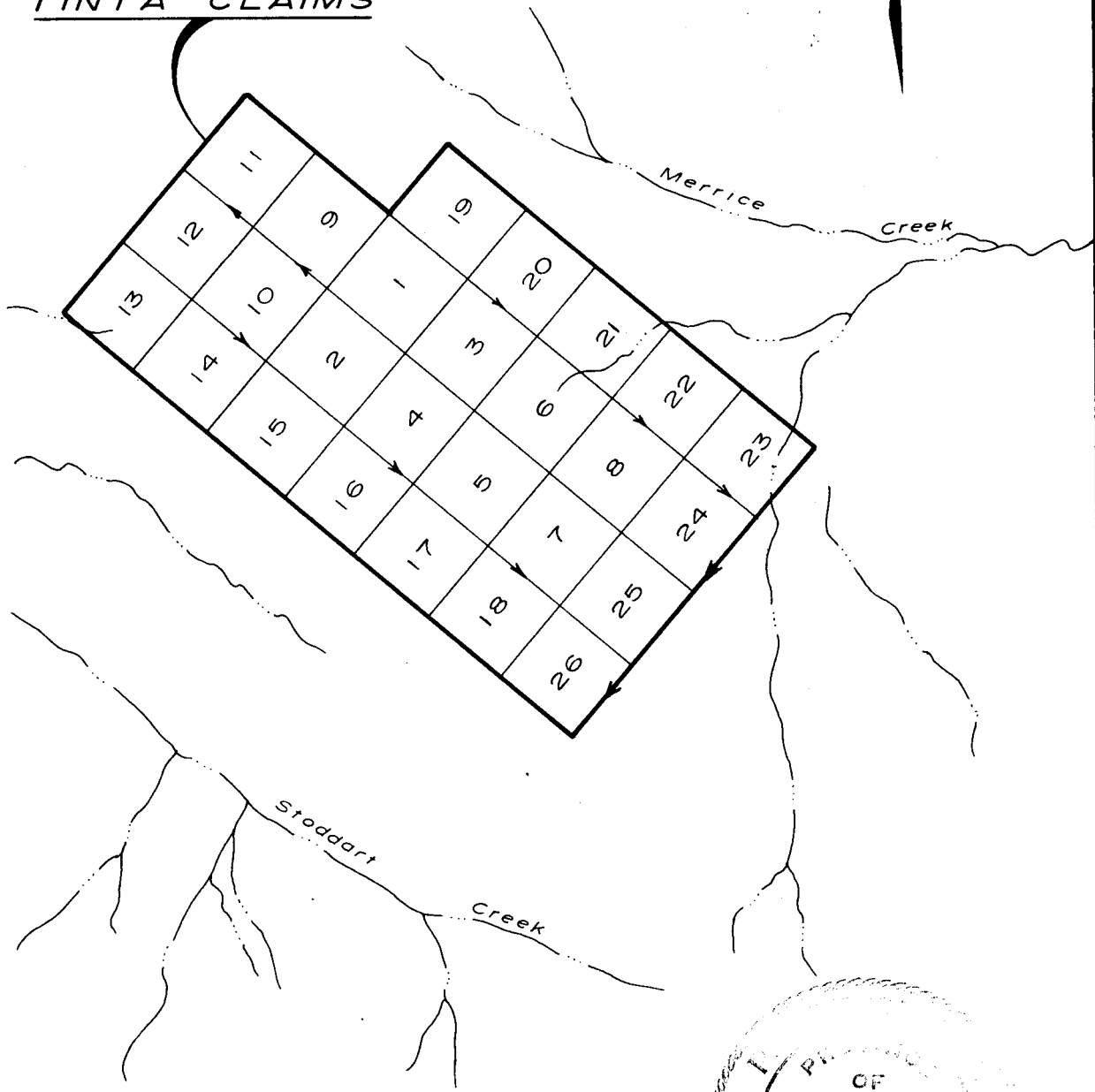


altair drafting services ltd





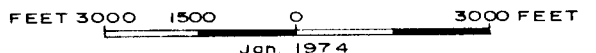
TINTA CLAIMS



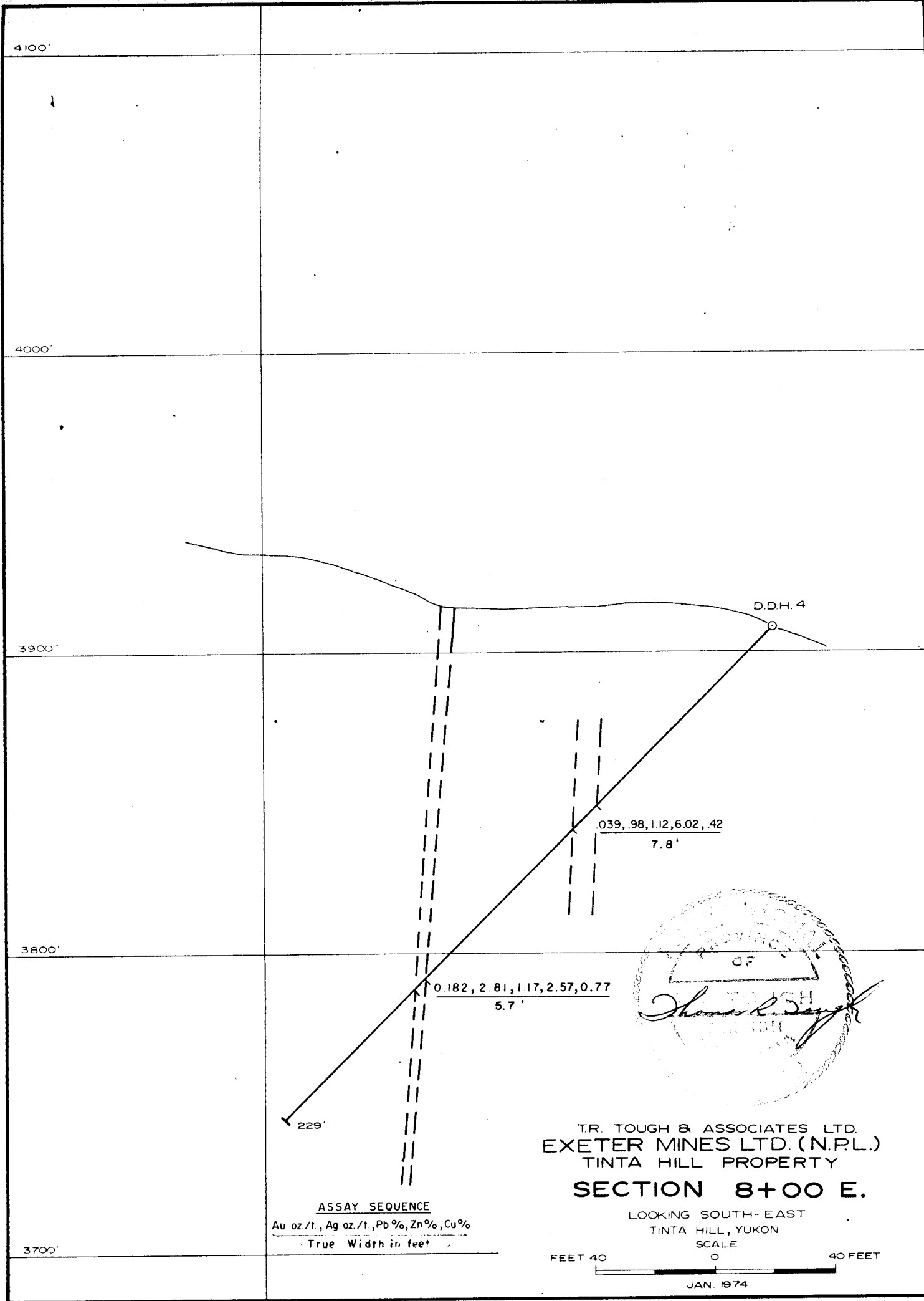
T.R. TOUGH & ASSOCIATES LTD.  
EXETER MINES LTD. (N.P.L.)  
TINTA HILL PROPERTY

**CLAIM MAP**

TINTA HILL, YUKON  
SCALE



Jan. 1974



4100'

4000'

3900'

3800'

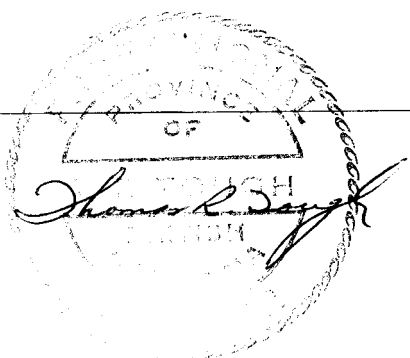
3700'

D.D.H. 4

.039, .98, 1.12, 6.02, .42  
7.8'

0.182, 2.81, 1.17, 2.57, 0.77  
5.7'

229'



TR. TOUGH & ASSOCIATES LTD.  
EXETER MINES LTD. (N.P.L.)  
TINTA HILL PROPERTY  
**SECTION 8+00 E.**

LOOKING SOUTH-EAST  
TINTA HILL, YUKON  
SCALE



JAN 1974

ASSAY SEQUENCE

Au oz./t., Ag oz./t., Pb%, Zn%, Cu%  
True Width in feet

3900'

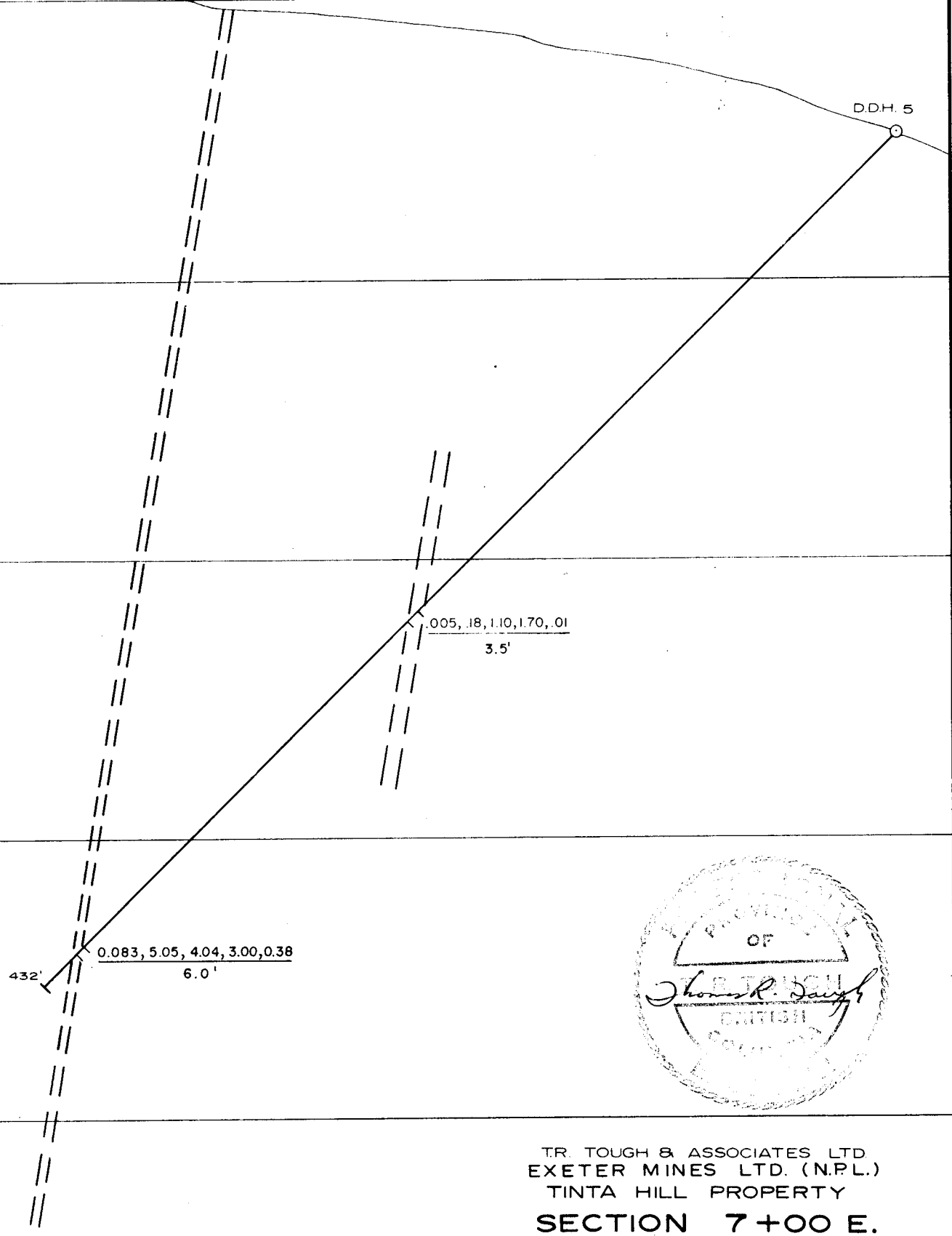
3800'

3700'

3600'

3500'

DDH. 5



432' 0.083, 5.05, 4.04, 3.00, 0.38  
6.0'

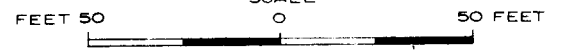
.005, .18, 1.10, 1.70, .01  
3.5'



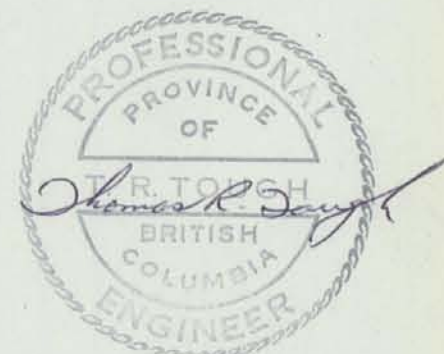
TR. TOUGH & ASSOCIATES LTD.  
EXETER MINES LTD. (N.P.L.)  
TINTA HILL PROPERTY  
**SECTION 7+00 E.**

ASSAY SEQUENCE  
Au oz./t., Ag oz./t., Pb%, Zn%, Cu%  
True Width in Feet

LOOKING SOUTH-EAST  
TINTA HILL, YUKON  
SCALE

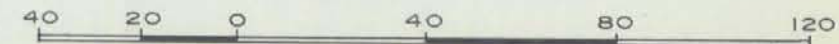


Jan. 1974

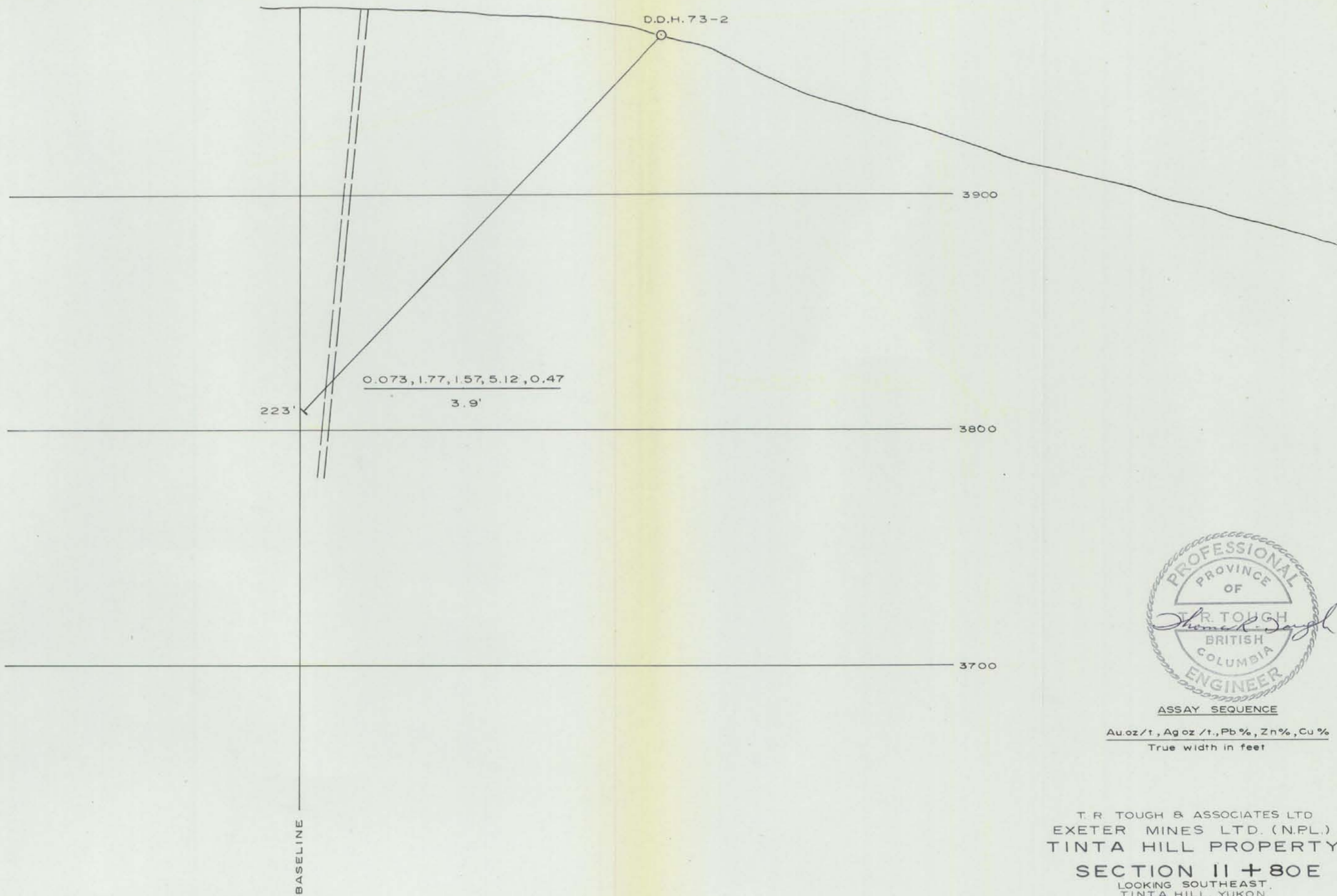


ASSAY SEQUENCE  
Au oz/t, Ag oz/t, Pb%, Zn%, Cu %  
 True width in feet

T. R. TOUGH & ASSOCIATES LTD.  
 EXETER MINES LTD. (N.P.L.)  
 TINTA HILL PROPERTY  
 SECTION 10 + 00E  
 LOOKING SOUTHEAST  
 TINTA HILL, YUKON  
 SCALE IN FEET

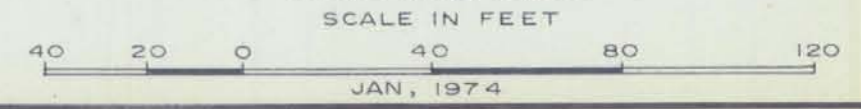


JAN, 1974



ASSAY SEQUENCE  
Au.oz/t, Ag oz/t, Pb%, Zn%, Cu%  
 True width in feet

T. R. TOUGH & ASSOCIATES LTD  
 EXETER MINES LTD. (N.P.L.)  
 TINTA HILL PROPERTY  
**SECTION II + 80E**  
 LOOKING SOUTHEAST  
 TINTA HILL, YUKON



4000

4000

3900

3900

3800

3800

DDH. 73-1

0.292, 3.00, 2.70, 5.96, 0.67

4.6'

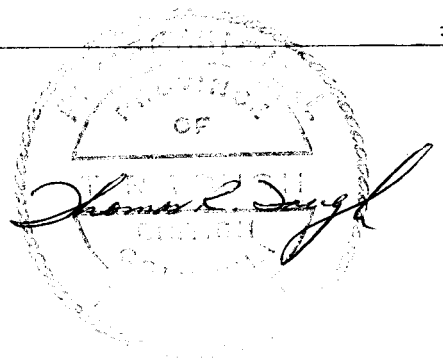
236'

BASELINE

ASSAY SEQUENCE

Au oz / t, Ag oz / t, Pb % , Zn % , Cu %

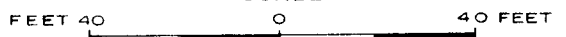
True width in feet



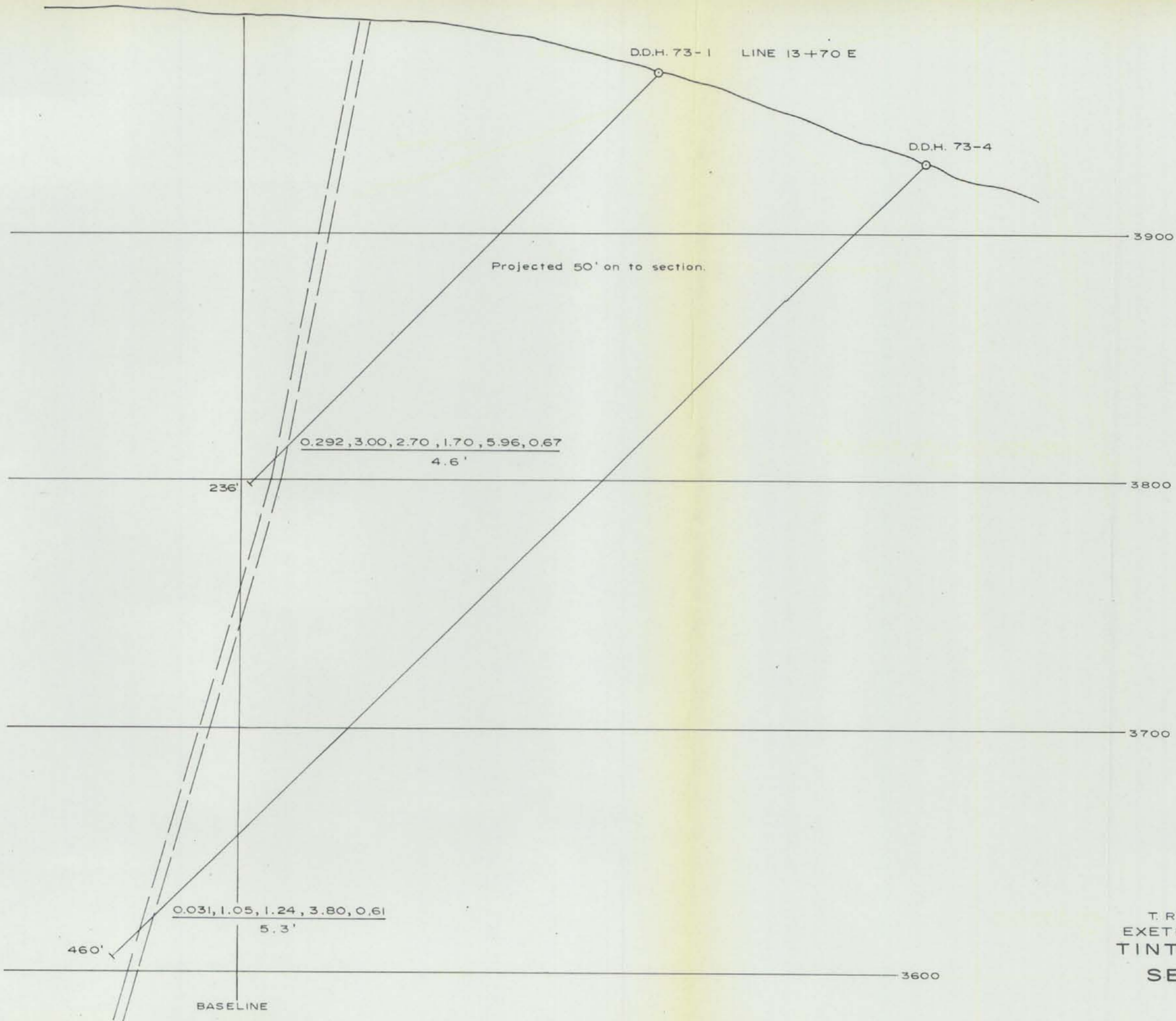
T.R. TOUGH & ASSOCIATES LTD  
EXETER MINES LTD. (N.P.L.)  
TINTA HILL PROPERTY  
SECTION 13+60 E.

LOOKING SOUTH-EAST  
TINTA HILL, YUKON

SCALE

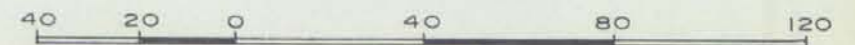


Jan. 1974



ASSAY SEQUENCE  
Au oz./t., Ag oz./t., Pb %, Zn %, Cu %  
 True width in feet

T. R. TOUGH & ASSOCIATES LTD.  
 EXETER MINES LTD. (N.P.L.)  
 TINTA HILL PROPERTY  
 SECTION 14+20E.  
 LOOKING SOUTHEAST  
 TINTA HILL, YUKON  
 SCALE IN FEET



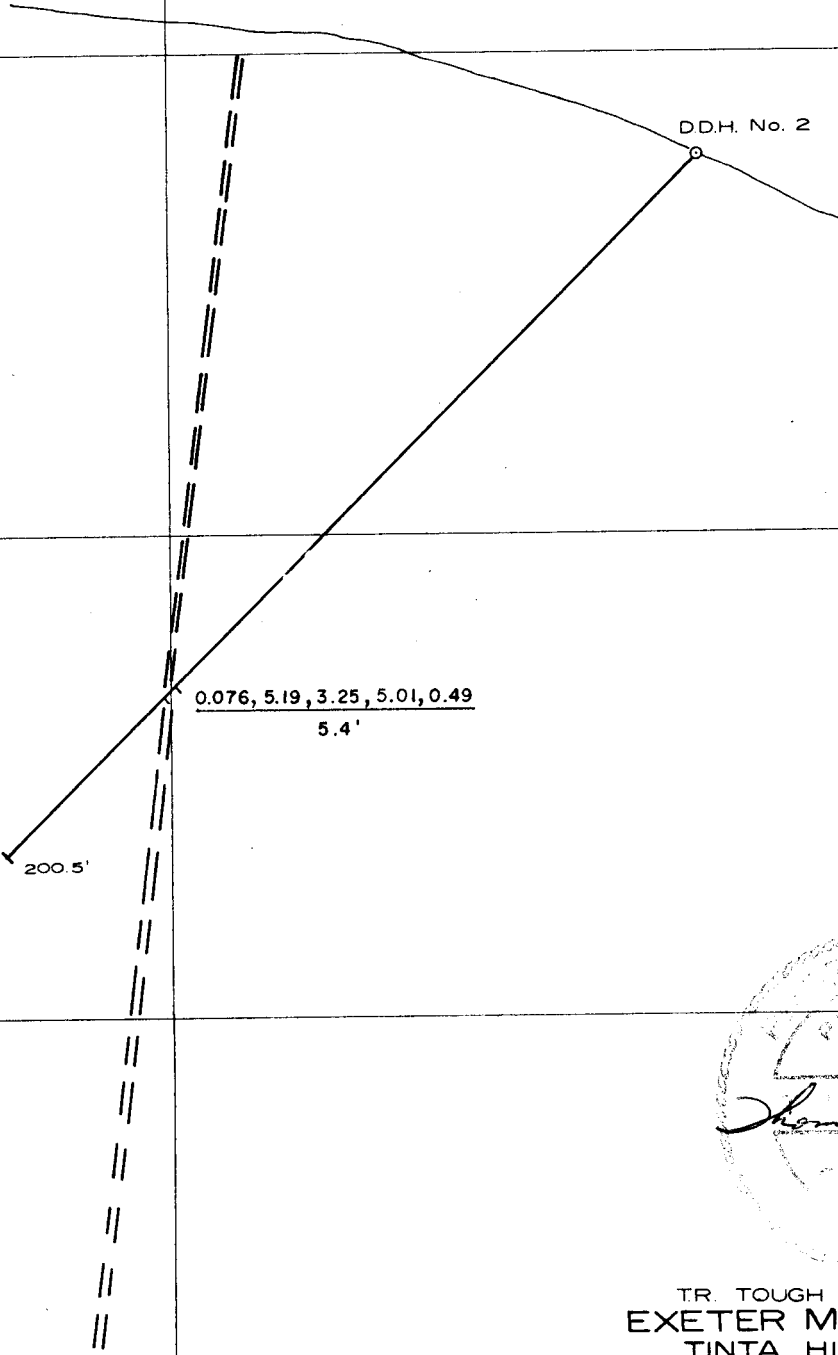
JAN, 1974

4000'

3900'

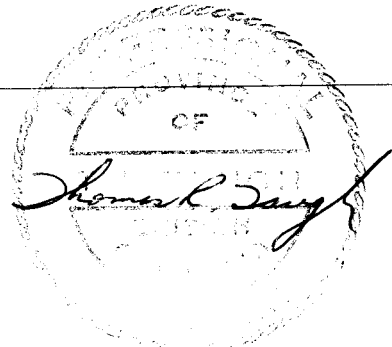
3800'

3700'



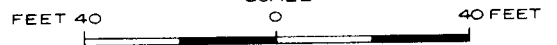
ASSAY SEQUENCE

Au oz./t, Ag oz./t, Pb %, Zn %, Cu %  
True Width in Feet



TR. TOUGH & ASSOCIATES LTD.  
 EXETER MINES LTD. (N.P.L.)  
 TINTA HILL PROPERTY  
**SECTION 16+20 E.**

LOOKING SOUTH-EAST  
 TINTA HILL, YUKON  
 SCALE



JAN. 1974

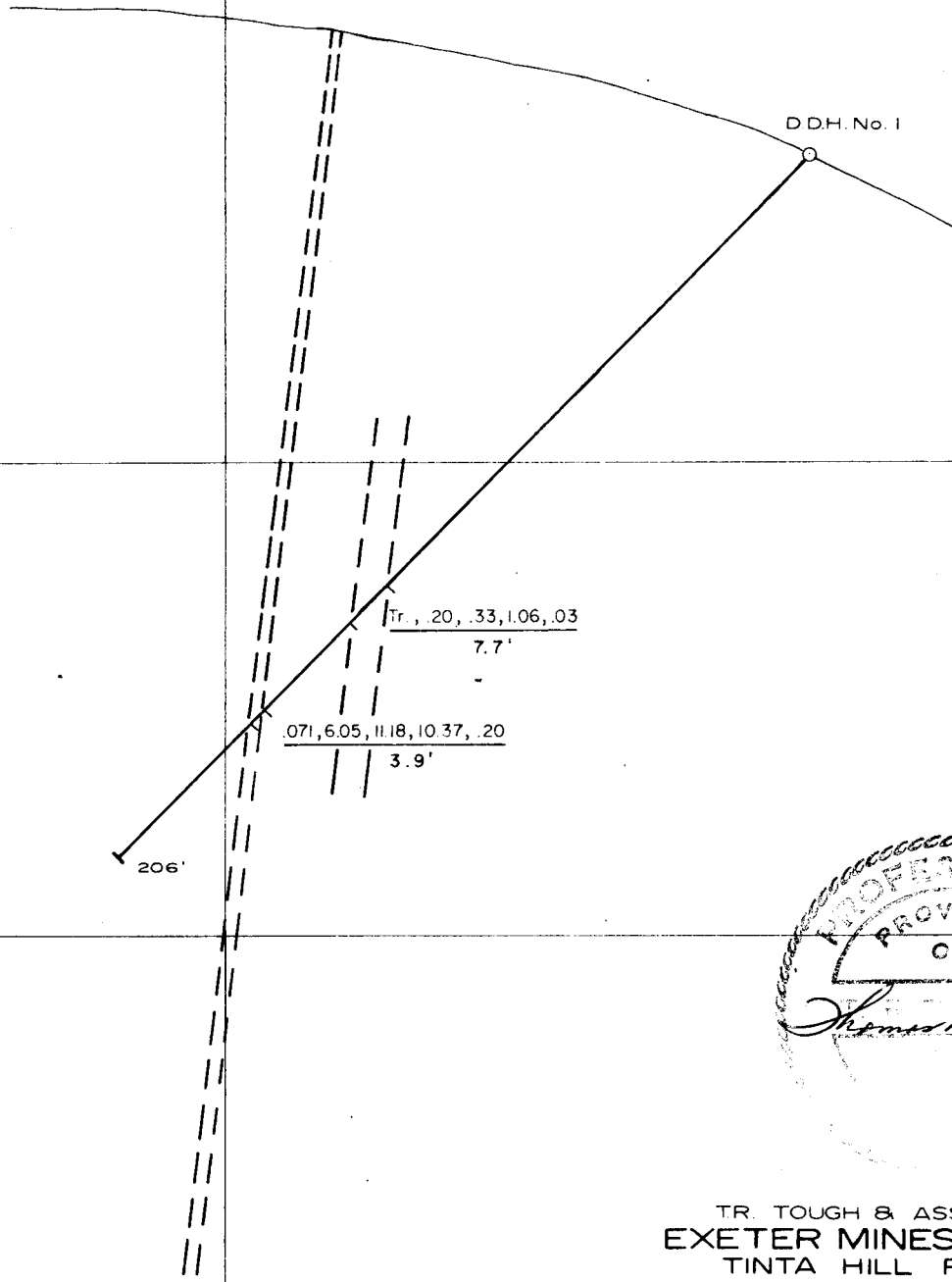
4100'

4000'

3900'

3800'

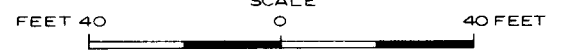
3700'



PROFESSIONAL  
 TINTA HILL PROPERTY  
 OF  
*Thomas R. Tough*

TR TOUGH & ASSOCIATES LTD.  
 EXETER MINES LTD. (N.P.L.)  
 TINTA HILL PROPERTY  
**SECTION 18+30 E.**

LOOKING SOUTH-EAST  
 TINTA HILL, YUKON  
 SCALE



JAN. 1974

ASSAY SEQUENCE

Au oz./t., Ag oz./t., Pb%, Cu%  
 True Width in Feet

4100'

4000'

3900'

3800'

3700'

D.D.H. 3

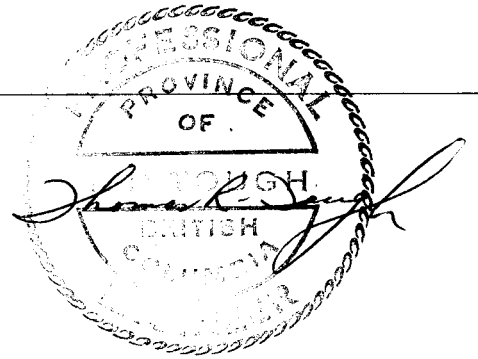
.039, 1.64, 1.76, 2.76, .08  
7.5'

277'

ASSAY SEQUENCE

Au oz./t., Ag oz./t., Pb%, Zn%, Cu%

True Width in Feet



TR. TOUGH & ASSOCIATES LTD.  
 EXETER MINES LTD. (N.P.L.)  
 TINTA HILL PROPERTY  
**SECTION 20+00 E.**

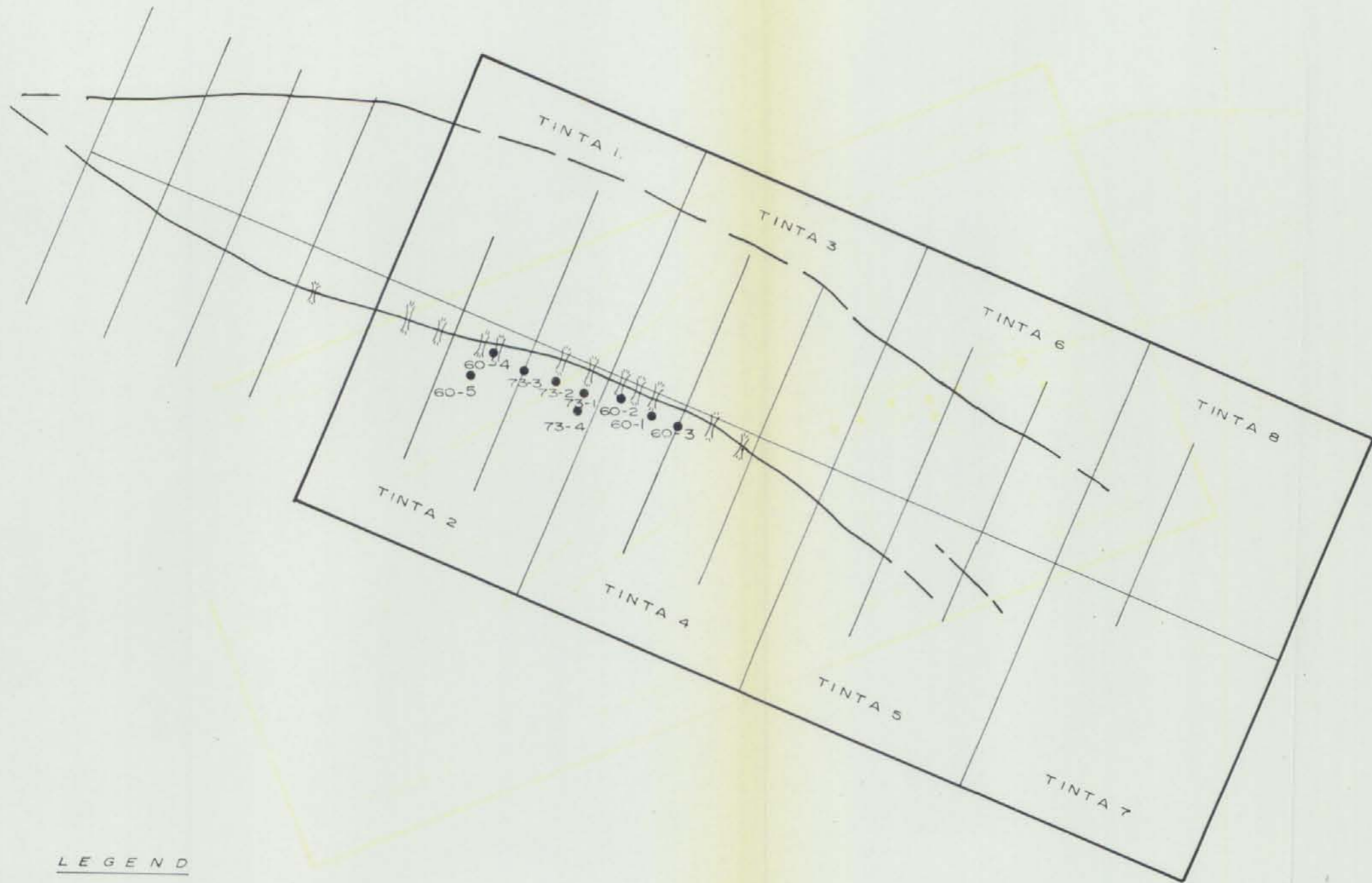
LOOKING SOUTH-EAST

TINTA HILL, YUKON





SCALE

FEET 40 0 40 FEET

JAN. 1974



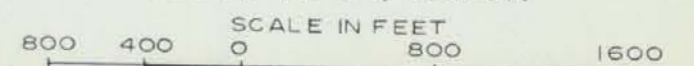
LEGEND

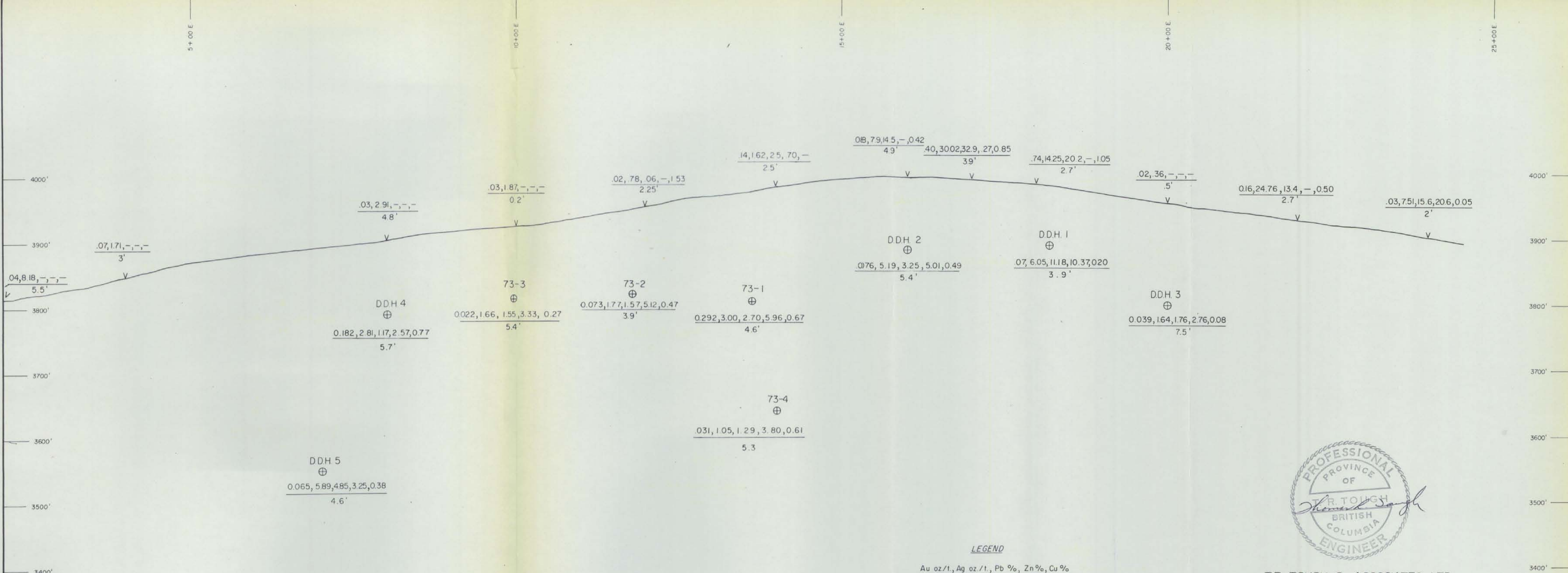
-  EM 16 CONDUCTOR
-  INFERRED EXTENSION OF CONDUCTOR
-  BULLDOZER TRENCHES
-  DRILL HOLE



T. R. TOUGH & ASSOCIATES LTD.  
 EXETER MINES LTD. (N.P.L.)  
 TINTA HILL PROPERTY  
**PLAN OF E.M. CONDUCTORS**

TINTA HILL, YUKON





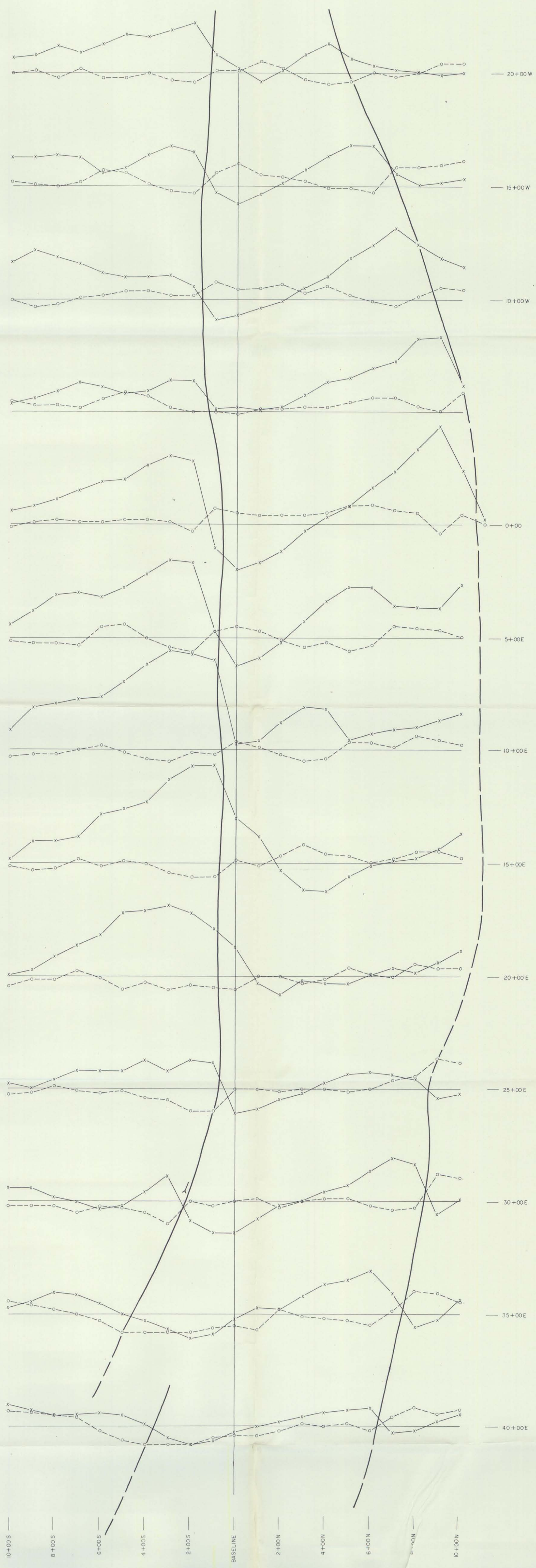
**LEGEND**  
 Au oz./t., Ag oz./t., Pb %, Zn %, Cu %  
 True Width in feet



T.R. TOUGH & ASSOCIATES LTD.  
 EXETER MINES LTD. (N.P.L.)  
 TINTA HILL PROPERTY  
**DRILL INDICATED ORE RESERVES**  
**SKETCH IN PLANE OF THE VEIN**  
 TINTA HILL, YUKON

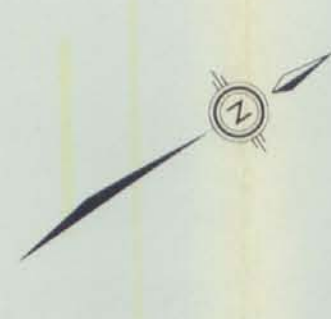


JAN, 1974



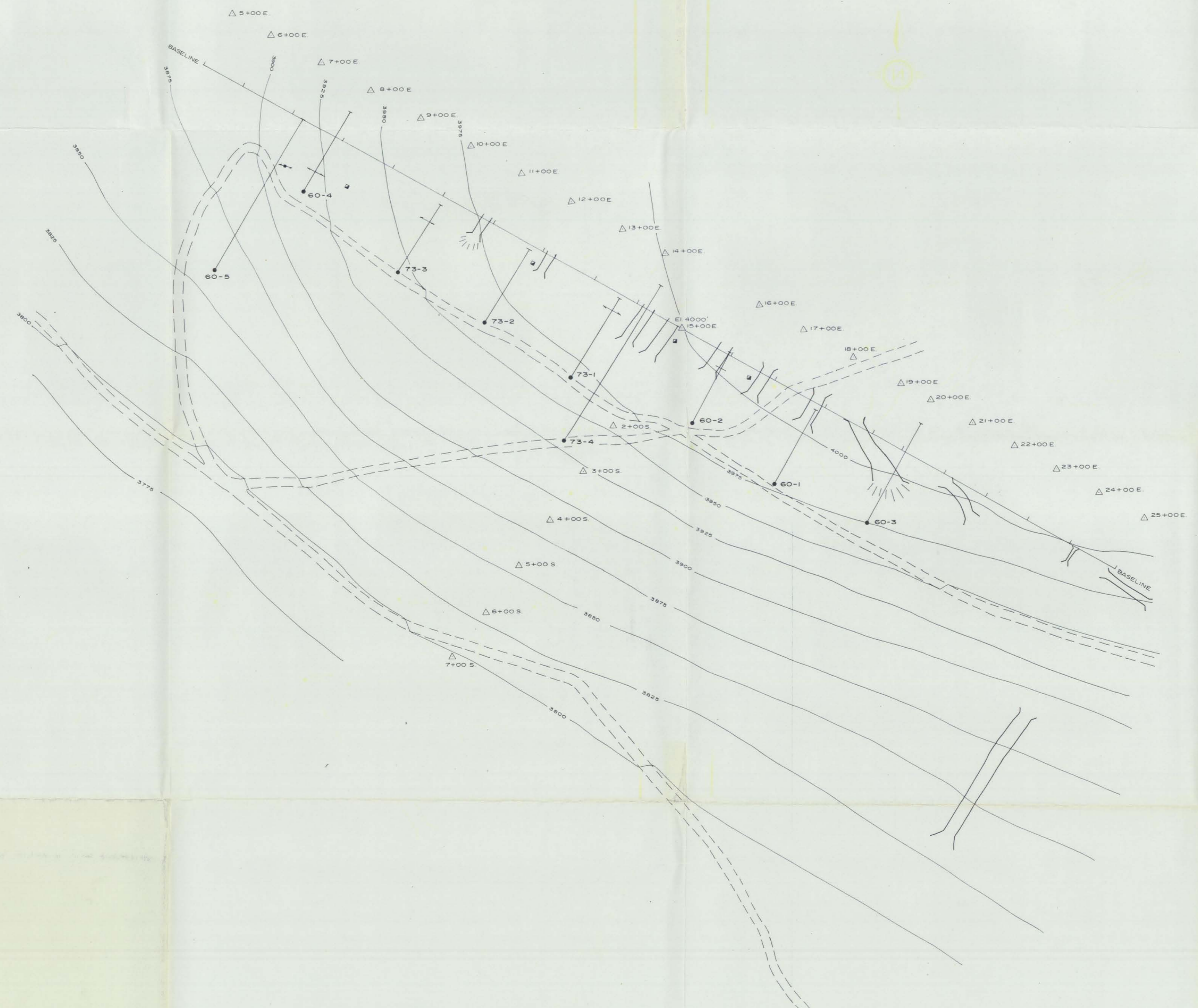
10+00S — 8+00S — 6+00S — 4+00S — 2+00S — BASELINE — 2+00N — 4+00N — 6+00N — 8+00N — 10+00N

RDG.  
 18.6 Kc.  
 ——— E.M. CONDUCTOR  
 - - - - - INFORMED EXTENSION

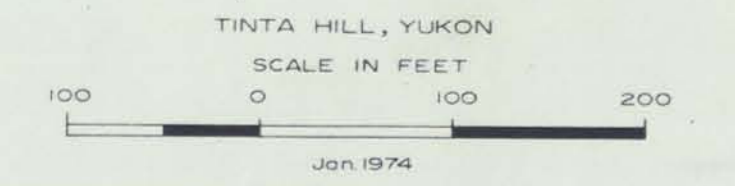


T.R. TOUGH & ASSOCIATES LTD.  
 EXETER MINES LTD. (N.P.L.)  
 TINTA HILL PROPERTY  
**E.M. PROFILES**

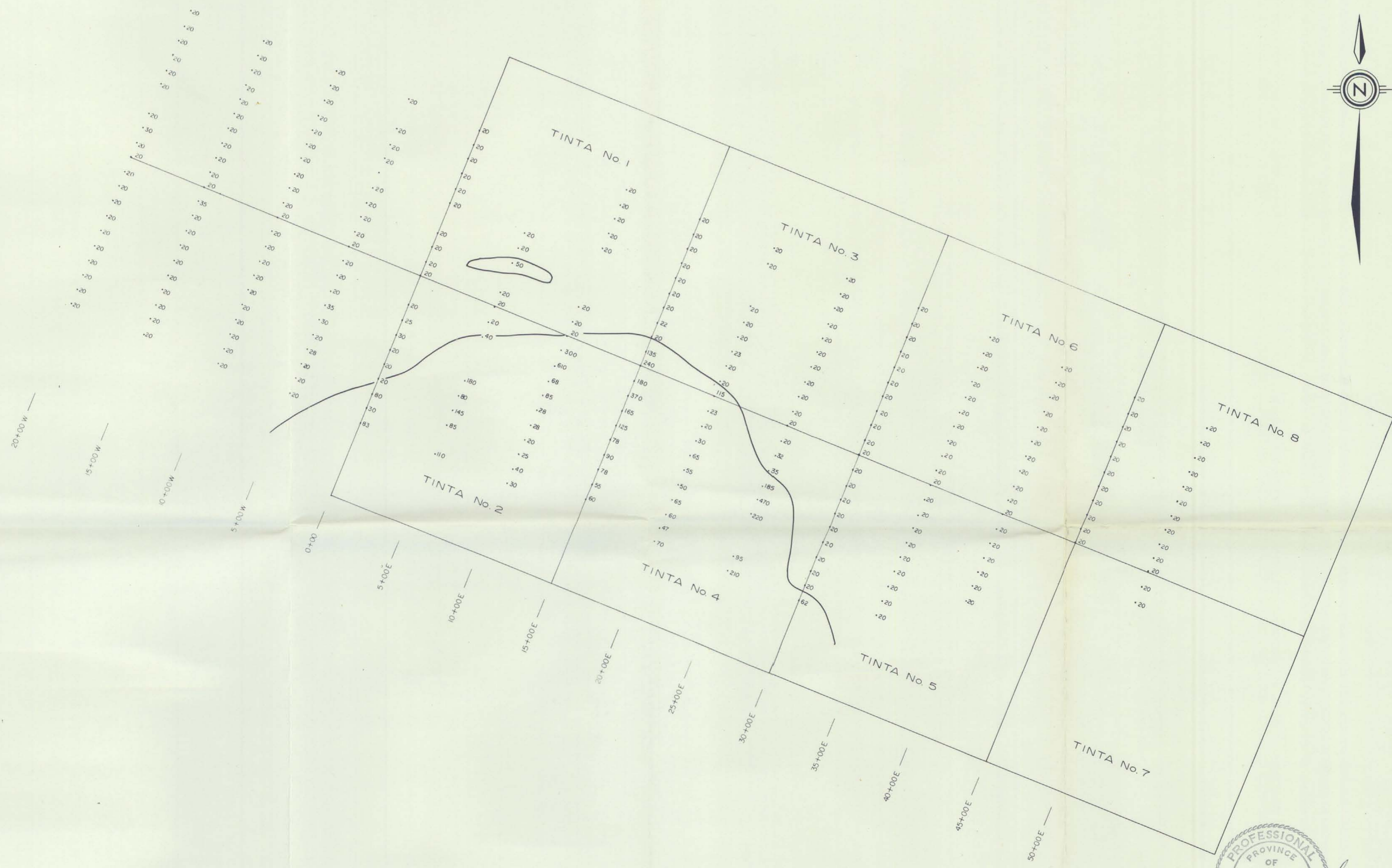
TINTA HILL, YUKON  
 HORIZONTAL SCALE: 1" = 200 FT.  
 VERTICAL SCALE: 1" = 20'



T.R. TOUGH & ASSOCIATES LTD.  
 EXETER MINES LTD. (NPL.)  
 TINTA HILL PROPERTY  
 DRILL HOLE PLAN



06115-7



 ANOMALOUS AREA



T. R. TOUGH & ASSOCIATES LTD.  
EXETER MINES LTD. (NPL.)  
TINTA HILL PROPERTY  
**GEOCHEMICAL SOIL SURVEY**  
LEAD IN PPM.  
TINTA HILL, YUKON



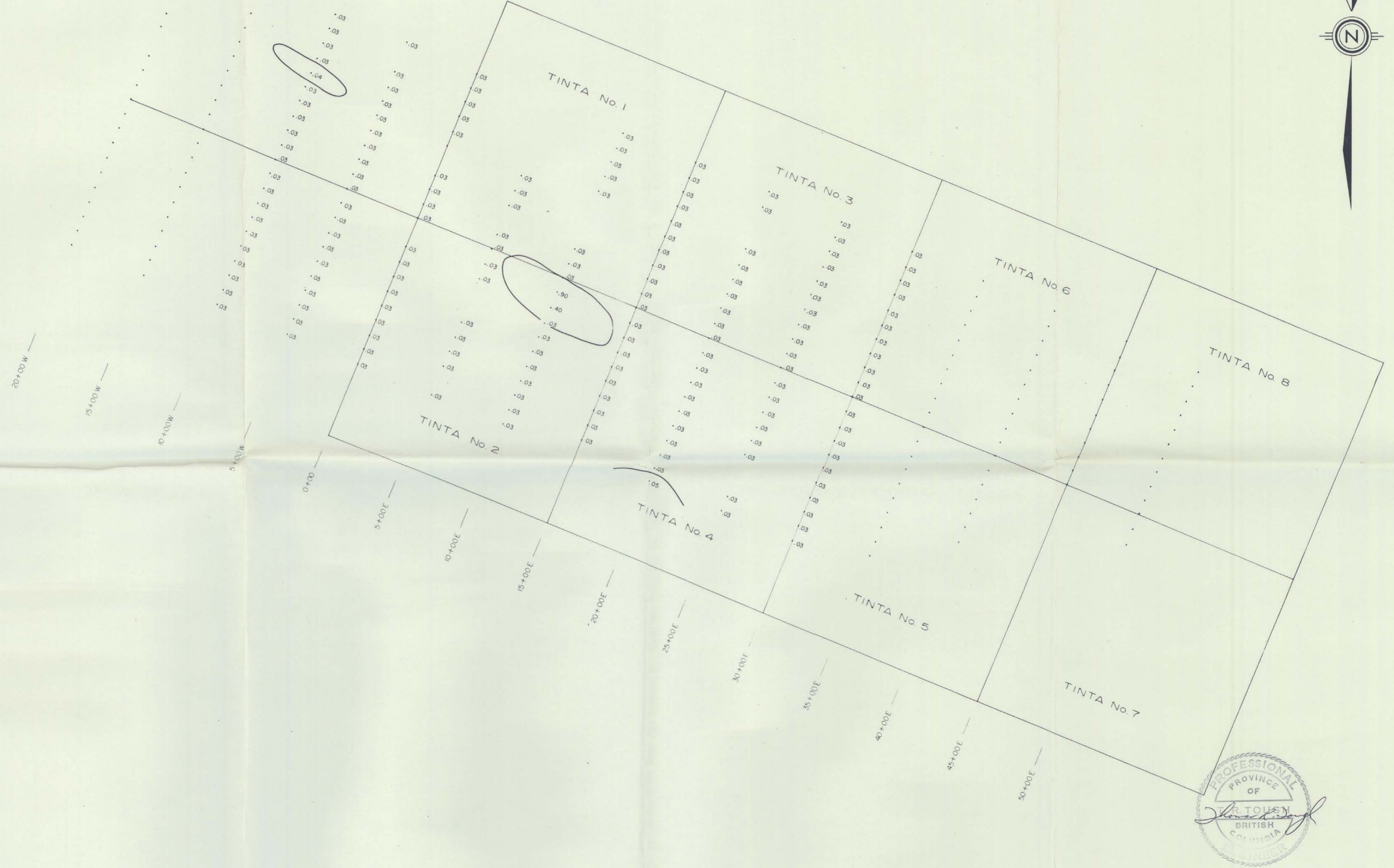


 ANOMALOUS AREA



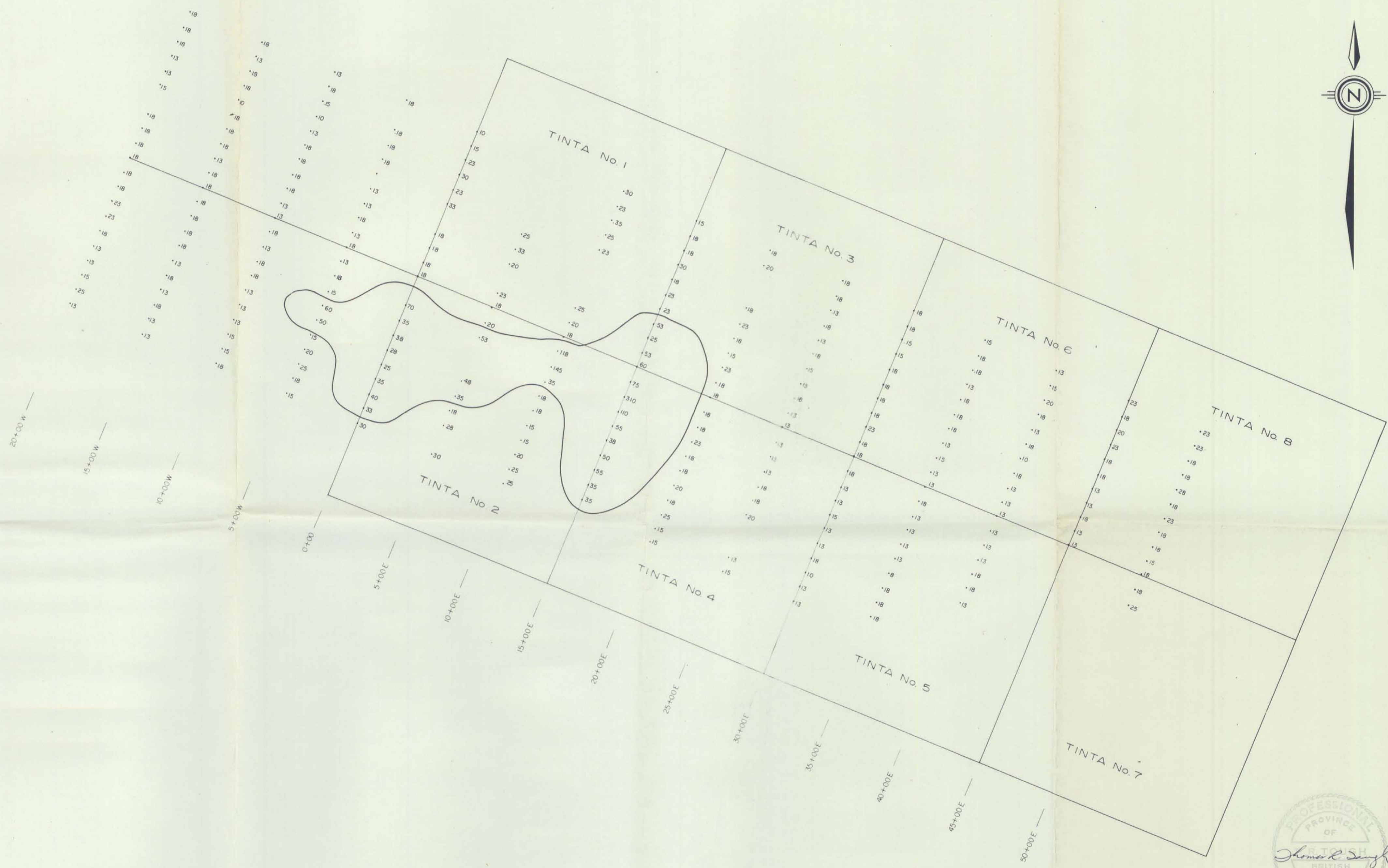
T. R. TOUGH & ASSOCIATES LTD.  
EXETER MINES LTD. (N. P.L.)  
TINTA HILL PROPERTY  
**GEOCHEMICAL SOIL SURVEY**  
SILVER IN PPM.  
TINTA HILL, YUKON






T. R. TOUGH & ASSOCIATES LTD.  
EXETER MINES LTD. (N.P.L.)  
TINTA HILL PROPERTY  
**GEOCHEMICAL SOIL SURVEY**  
GOLD IN P.P.M.  
TINTA HILL, YUKON

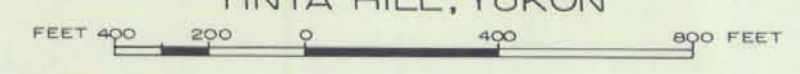




 ANOMALOUS AREA



T. R. TOUGH & ASSOCIATES LTD.  
EXETER MINES LTD. (N.P.L.)  
TINTA HILL PROPERTY  
**GEOCHEMICAL SOIL SURVEY**  
COPPER IN P.P.M.  
TINTA HILL, YUKON



CLAIM NO. Tinta.2

## DIAMOND DRILL RECORD

PROPERTY Tinta Hill Y.T.

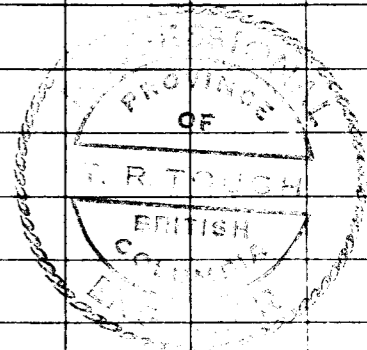
HOLE NO. 73-1

EXETER MINES LTD (NPL)

LATITUDE 1 + 70 SW ELEVATION 3966' BEARING 032° DEPTH 236 STARTED NOV. 3/73 COMPLETED NOV. 8/73

DEPARTURE 13 + 80 SE SECTION 13 + 80 DIP -45° DRILLED BY Arctic Drilling LOGGED BY L. Sookochoff

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
0 - 6	Casing								
6 - 210	Quartz monzonite - gray to pinkish gray; medium grained; hypidiomorphic granular texture; composed of white to gray albite, pinkish orthoclase - anhedral to subhedral; subhedral to anhedral hornblende partially altered to chlorite. Scattered sericite. Lamination @ 47°. Fractures @ 46 - 55° Altered qtz. monzonite w/ < 2% mafics - chlorite @ 13 - 14' "contact" @ 11 to c/a 17 - 18' "contact" @ 60° across lamination 20.5 - 21 @ 62° 24 - 25 @ 90° 34 - 34.2 @ 65° 36 - 41 @ 70° Gneissic @ 23 - 24' @ 68° to 90° @ 44 - 47' @ 65° 170 - 210' Quartz increasing; large subhedral pinkish orthoclase < 3/4"; increasing chlorite alteration of hbl.; blebs and occ. stringers epidote; occ. barren quartz stringer < 1/8" 177' 1/2" qtz.-carb. stringer @ 47° w/ patches brownish sphalerite and lesser galena; 176.6 - 177 - bleached granite								



CLAIM NO. ....

## DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 73-1

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
						Au	Ag	Pb	Zn
	177 - 177.2								
	203' 3/8" qtz. stringer @ 52° w/ blebs cpy	2607	207	212				<.05	<.05
	204 1" chloritic stringer @ 60°	2602	212	214.5	2.5'	0.01	0.10	0.25	0.45
210 - 236	Altered quartz monzonite varying from light gray to greenish gray comprised mainly of feldspars w/ quartz and irregular chlorite	2601	214.5	219	4.5'	Cu 0.42	0.430	3.75	8.10
	210 - 214.5 Light gray w/ lt. diss. py.	2603	219	221	2.0'	0.005	0.09	0.35	1.15
	214.5 - 219 Mineralized zone (97% recovery)					Cu 0.03		Cd. 0.01	
	214.5 - 214.7 Massive sulphide stringers - mainly py. w/ galena @ 52° 15% qtz. 70% sulphides	2604	221	226	5.0'			<.05	<.05
	214.7 - 215.6 Light to moderate diss. py & galena; discontinuous stringers galena in brecciated and vuggy quartz; ox'd pockets throughout.	2605	226	231	5.0'			<.05	<.05
	214.7 - 215.6 Light to moderate diss. py & galena; discontinuous stringers galena in brecciated and vuggy quartz; ox'd pockets throughout.	2606	231	236	5.0'			<.05	<.05
	215.6 - 216.2 Massive sulphide stringers @ 52°; sphalerite, galena, rare cpy								
	216.2 - 216.9 Light to mod. diss. sulphides - mainly py. in alt'd granite								
	216.9 - 219 Patches, blebs & discontinuous stringers - decreasing order - cpy. sphalerite, galena								
	219 1/2" mud seam								



CLAIM NO. Tinta 2

## DIAMOND DRILL RECORD

PROPERTY Tinta Hill Y.T.

HOLE NO. 73-2

EXETER MINES LTD (NPL)

LATITUDE 1 + 60 SW

ELEVATION 3966'

BEARING 032°

DEPTH 223'

STARTED NOV. 8/73

COMPLETED NOV. 10/73

DEPARTURE 11 + 80 SE

SECTION 11 + 80

DIP -45°

DRILLED BY Arctic Drilling

LOGGED BY L. Sookochoff

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
0 - 9	Casing								
9 - 14	Quartz monzonite - greenish gray; hypidiomorphic granular texture ≈ 15% quartz, 10% hbl. - light to moderate alteration to chlorite; hbl - subhedral; lt. chlorite on fr. planes @ 45°								
14 - 19	Andesite dyke - aphanitic; dk. green; contact @ 44°; fr. @ 45°								
19 - 190	Quartz monzonite - same as 9 - 14 w/ pink orthoclase < 3/4" and orthoclase in matrix; light oxidation on fr. planes; lt. kaol. of feldspar 32 - 34 friable - broken; more quartz 34 + less alteration; lineation @ 49° 67 + increasing alteration - ox'd + lt. chl. on fr. planes @ 45° - 60° 90 - 91 Gneissic @ 61° 104 - 105 Gneissic @ 62° 105 + Increasing mafics - dioritic - lt. epidote assoc. w/ hbl. 122 Fr. @ 90° 122 - 137 Heavier ox'd on fractures @ 45, 60, 75° 137.5 - 138 Friable - gougy								

CLAIM NO. ....

## DIAMOND DRILL RECORD

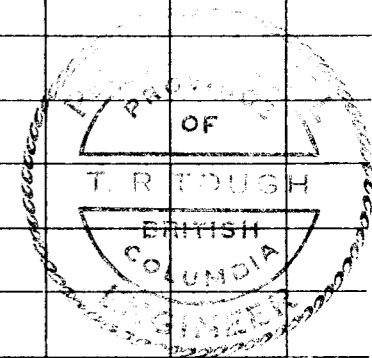
PROPERTY .....

HOLE NO. 73-2

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
						Au	Ag	Pb	Zn
	137 + Increasing chlorite alteration								
	C.I. 50; Lt. to no quartz								
	142 Irregular patches chlorite								
	155 Qtz. & lt. sulphides @ 50° - ox'd. bleached for 1 - 2" either side								
	166 - 170 > alt'n Kaol. of feldspars								
	170 - 190 Chlorite alt'n green & red								
190-223	Altered quartz monzonite - light gray; hypidiomorphic texture; 10% quartz; mafics if present all altered to chlorite; chlorite as lacy thin stringers through core;	2611	199	204	5.0'			<.05	<.05
	207 - 209.5 Mineralized zone @ 50° Occ. massive stringers & moderate to heavy blebs and patches pyrite, sphalerite, galena & chalcopryrite ≈ 45% sulphides pyrite 35% sphalerite 35% galena 30% cpy 5%	2609 2608	204 207	207 209.5	3.0' 2.5'			<.05	0.30
	216 - 223 Less altered qtz. monzonite with hbl.; pink and gray feldspars	2612 2613	211.5 216.5	216.5 223	5.0' 5.5'	0.16	3.90	3.40	10.90
	223' END OF HOLE							Cu. 1.00	Cd. 0.01
								.05	.10
								<.05	<.05
								<.05	<.05



CLAIM NO. Tinta 2

# DIAMOND DRILL RECORD

PROPERTY Tinta Hill Y.T.

HOLE NO. 73-3

LATITUDE 1 + 52 SW      EXETER MINES LTD (NPL)      ELEVATION 3942'      BEARING 032°      DEPTH 202.3      STARTED NOV. 10/73      COMPLETED NOV. 13/73

DEPARTURE 10 + 00 SE      SECTION 10 + 00      DIP -45°      DRILLED BY Arctic Drilling      LOGGED BY L. Sookochoff

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
0 - 10	Casing								
10 - 143	Qtz. Monzonite - granodiorite - gray; hypidiomorphic granular texture; 15% hbl. anhedral - euhedral - variably alt'd to chlorite - 0-20% (lt. - mod); 10% quartz; anhedral light gray feldspar; fr. @ 45°, 53°, 29 - 32 epidote stringers at 62°; lineation @ 46° ox'n on fr. @ 53° 51' 1" > mafics - biotite hbl. < chlorite 58' reddish alt'n 62 - 63 qtz. fels. @ 77° 66 - 68 ox'n & friable fels on fr. @ 82° 68' "xenoliths" of fels. porphyry < 3/4" 95 - 96.6 ox'd 97' lin'n @ 60° 98.6 - 100 broken - friable and loc. - gougy sections reddish ox'n on fr. @ 90° 115 chl. str. 1/2" @ 60° across lin'n. 111 patchy chlorite 123 > silic'n & alt'n. Ox'n on fr. planes 125.9 barren qtz. str. @ 56°								

WESTERN MINER PRESS LTD. STANDARD FORM NO. 502

CLAIM NO. ....

## DIAMOND DRILL RECORD

PROPERTY .....

HOLE NO. 73-3

LATITUDE .....

ELEVATION .....

BEARING .....

DEPTH .....

STARTED .....

COMPLETED .....

DEPARTURE .....

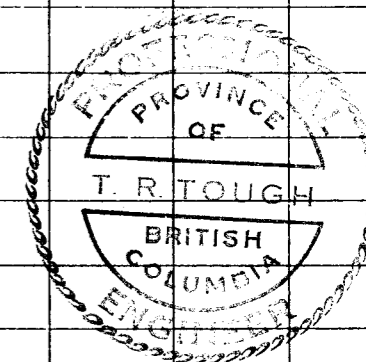
SECTION .....

DIP .....

DRILLED BY .....

LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS				
						Au	Ag	Pb	Zn	Cu
	125.9 - 143 > alt'n of mafics - irregular thru core. Random irregular chl. stringers. Chl. on fr. planes									
	135 4" ox'd zone @ 47°									
143-151	Andesite - green, aphanitic @ 58°									
151-160	Qtz. monzonite - same as 125.9 - 143									
160-161.5	Andesite @ 58°									
161.5-166	Qtz. monzonite same as 125.9 - 143									
166-169	Altered qtz. monzonite - light gray < 10% mafics - chlorite; quartz & feldspars; whitish fels, variably altered; friable									
	169 1" gouge @ 48°									
169-174.7	Mineralized zone - (85% recovery)	2614	166	169	3.0'	Tr.	.06	.15	.30	.01
	169 - 170.4 - ≈ 30% sulphides; disc. stringers, blebs, patches of intimately assoc. brownish sphalerite, galena and chalcopyrite tetrahedrite? (decreasing order); mod. patches & diss. py.; fr. & str. @ 44 - 50°	2615	169	174.7	5.7'	.03	2.2	2.0	4.3	.35
	170.4 - 173.2 highly altered; lt. gray; friable; mainly qtz. & fels. w/ diss. sulph & occ. str. of sph. & gal. (< 1/4")									.03
	171.4 - 173.2 - greenish gray < alt'n.									
	≈ 2% diss. sulph.									



CLAIM NO. ....

**DIAMOND DRILL RECORD**

PROPERTY .....

HOLE NO. 73-3

LATITUDE .....

ELEVATION .....

BEARING .....

DEPTH .....

STARTED .....

COMPLETED .....

DEPARTURE .....

SECTION .....

DIP .....

DRILLED BY .....

LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS								
						Au	Ag	Pb	Zn	Cu	Cd			
	173.2 - 174.5 45% sulphides as stringers (40-45°) blebs, patches and diss. sphal.; galena, cpy. and moderate py.													
	174.4 1/4 - 3/8" sphal. & gal. @ 25°													
	174.5 3/4" qtz. w/ heavy patches & blebs cpy.													
174.7-201	Altered qtz. monzonite - light gray to light greenish gray; disc. irregular chlorite; fr. @ 45 - 60°	2616	174.7	176.7	2.0'	Tr.	.11	.25	.55	.03	<			
	Lt. diss. sulph. - mainly py; occ. str. galena and sphalerite; - variable - mainly @ 60°	2617	176.7	181.7	5.0'			<.05	<.05					
	196 - 196.6 str. qtz. w/ gal. sph. @ 62°													
		2618	181.7	186.7	5.0'			.10	.30					
201-202.3	Qtz. monzonite - greenish gray; lt. alt'n of mafics to chlorite													
		2619	186.7	192	5.3'			<.05	.05					
	202.3 END OF HOLE													
		2620	192	196	4.0'			<.05	.25					
		2621	196	199	3.0'			.15	.40					

CLAIM NO. Tinta 2

**DIAMOND DRILL RECORD**

PROPERTY Tinta Hill YT. HOLE NO. 73-4

EXETER MINES LTD (NPL)

LATITUDE 2 + 80 SW ELEVATION 3930' BEARING 032° DEPTH 460' STARTED NOV. 16/73 COMPLETED NOV. 19/73

DEPARTURE 14 + 20 SE SECTION 14 + 20 DIP -45° DRILLED BY Arctic Drilling LOGGED BY L. Sookochoff

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
0 - 8	Casing								
7 - 428	Qtz. monzonite; greenish gray; medium grained, hypidiomorphic granular texture; anhedral quartz; anhedral to euhedral milky white to grayish feldspar; anhedral - euhedral hornblende								
	10 - 15%								
	C.I. 60; to 14.5, lt. to nil quartz								
	13.5 - 14.5 dioritic, c.g., @ 45°								
	14.5 - quartz variable from 10 - 30% mafics <qtz: Alt'n of Hbl. to chl. variable up to 40%. Lin'n @ 45°; 45' fr. @ 45°								
	28 - 30 broken								
	45 - 90 pink fels; ep. blebs & str. ox'n on fr.								
	71 + > alt'n 72 ox'd, friable @ 60°								
	91 - 100 - fresh qtz. monzonite hard								
	100 - 116 > alt'n ox'd on fr.								
	116 - 117 ox'd, broken @ 45°								
	120 + pink fels < 3/4"								
	125 2" gougy ox'd @ 60°								
	1" chloritic veinlet								
	144 - 154 5.5' core/10' - qtz. monzonite								
	186 - 188 gneissic @ 55°								

CLAIM NO. ....

**DIAMOND DRILL RECORD**

PROPERTY.....

HOLE NO. 73-4

LATITUDE .....

ELEVATION .....

BEARING .....

DEPTH .....

STARTED .....

COMPLETED .....

DEPARTURE .....

SECTION .....

DIP .....

DRILLED BY.....

LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS				
						Au	Ag	Pb	Zn	Cu
	194 - 195 Gneissic @ 60°									
	210 - patches chlorite									
	221 + 224 2" heavier mafics @ 42°									
	222 - 460 carbonates on fr. @ 48° - 55°									
	245 - 460 pink fels. lt. magnetite occ. hematite - occ ep									
	422 ½" gouge @ 42°									
	423 ¼" qtz. @ 25° w/ blebs galena, sphalerite									
428-442.5	Altered q. monzonite lt. gray to lt. greenish gray qtz. & fels - fels milky white variably altered									
	442.5 - 442.7 myl. & gouge @ 50°									
	442.7 - 445 Mineralized zone (95% recovery)	2624	435	440	5.0'			.05	.05	
	6" banded & patchy sphalerite w/ blebs assoc. galena, cpy., py in qtz.	2623	440	442.7	2.7'	.005	18	.40	1.00	.04
	443.4 - 445 mainly py & cpy w/ galena in quartz	2622	442.7	445	2.3'	.09	2.8	3.40	10.10	1.45
	445 6" gouge @ 60° w/ diss py									Cd. .08
	459 ½" qtz. @ 37° w/ galena, sphalerite	2625	445	447.5	2.5'	.005	.37	.30	1.04	.05
445-459.5	Altered q. monz. lt. gray to lt. greenish gray									Cd. .01
459.5-460	459.5 - 460 Qtz. monzonite	2551	447.5	452.5	5.0'			.10	.25	
	460 END OF HOLE									