

PROSPECTUS
Oct. 10, 1980.

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GEOLOGICAL REPORT

ON THE

TINTA HILL PROPERTY

WHITEHORSE MINING DIVISION, Y.T.

for

SILVER TUSK MINES LTD.

and

PANTHER MINES LTD.

115-I-7

April 21, 1980
Vancouver, B.C.

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

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CLAIM MAP	1" = 3000 feet
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DRILL HOLE PLAN	1" = 100 feet

SECTION	10+00W	1" = 40'
	5+00W	1" = 40'
	0+00	1" = 40'
	2+00E	1" = 40'
	5+00E	1" = 40'
	7+00E	1" = 50'
	8+00E	1" = 40'
	10+00E	1" = 40'
	11+80E	1" = 40'
	13+60E	1" = 40'
	14+00E	1" = 40'
	14+20E	1" = 40'
	16+00E	1" = 40'
	16+20E	1" = 40'
	18+30E	1" = 40'
	20+00E	1" = 40'
	22+00E	1" = 40'
	23+40E	1" = 40'
	24+50E	1" = 40'
	25+00E	1" = 40'
	27+00E	1" = 40'
	30+00E	1" = 40'
	35+00E	1" = 40'
DRILL INDICATED RESERVES		1" = 100'

GEOCHEMICAL SURVEY

Lead in PPM	1" = 400'
Silver in PPM	1" = 400'
Gold in PPM	1" = 400'
Copper in PPM	1" = 400'
DRILL HOLE PLAN	1" = 100'

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

PART A

SUMMARY

The Tinta Hill property, consists of 32 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 24 are held jointly by Silver Tusk Mines Ltd. and Panther Mines Ltd.

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 diamond drilling.

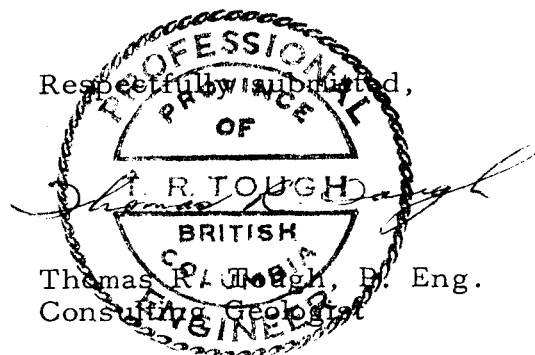
Canex Aerial Explorations Ltd. acquired the property and carried out geochemical and electromagnetic surveys. In 1968, Silgold Mines Ltd. optioned the property from Canex and cleaned out and sampled the existing trenches. In 1973 four B.Q. diamond drill holes were drilled by Exeter Mines Ltd. and a VLF-EM survey was carried out.

The property is underlain by a granodiorite 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, 1,875 tons/vertical foot of drill indicated reserves grading 0.075 oz Au/ton, 5.35 oz Ag/ton, 4.71% Pb, 6.03% Zn, 0.37% Cu, and 0.49% Cd are estimated.
2. The potential for increasing reserves appears to be excellent as the zone is open to the northwest, the southeast and to depth. Additional sub-parallel and parallel zones located by the VLF-EM survey have been partially tested.

3. Underground development should be undertaken in the main zone of interest.
4. It is also recommended that Silver Tusk Mines Ltd. and Panther Mines Ltd. allocate the sum of \$96,000 to implement and execute Phase I of the recommended exploration program.



April 21, 1980

Vancouver, B. C.

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

for
SILVER TUSK MINES LTD, and
PANTHER MINES LTD.

115-I-7

PART B

INTRODUCTION

The following report has been compiled from information obtained during numerous visits to the property by the writer in 1973, 1974 and 1975; from a study of past records of work carried out by previous and present owners; from a review of government publications; from the direction and supervision of a diamond drill programme carried out in October and November, 1973 and July and August 1974 and 1976.

PROPERTY

The property consists of 32 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, 1980
Tinta 5-8 incl.	Y20626-29 incl.	November 10, 1980
Tinta 9-12 incl.	Y48246-49 incl.	September 21, 1980
Tinta 21-24 incl.	Y48347-50 incl.	October 18, 1980
Tinta 13-20	Y48367-74 incl.	October 22, 1980
Tinta 25-32	Y48375-82 incl.	October 22, 1980

OWNERSHIP

The Tinta 1-8 claims are owned by Canex Placer Ltd. and Tinta 9-32 inclusive are owned jointly by Silver Tusk Mines Ltd. and Panther Mines Ltd.

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 Klondike 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 seven miles. The various showings are accessible by road and rail.

TOPOGRAPHY

The topography is relatively gentle with elevations on the property varying from 3,300 feet to 4,100 feet. The hillsides are covered with scrub balsam and willow.

WATER

Merrice Creek and its tributaries have sufficient flowage for all phases of 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 centers 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.

In 1973 Exeter Mines Ltd drilled four B.Q. holes for a total of 1,126 feet.

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-porphyrities and rhyolites. The Dawson Range was not glaciated during the last period of glaciation..

LOCAL GEOLOGY

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

The granodiorite 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° and has a near vertical dip. The shear reaches a width of ten feet or more. Quartz veins within the shear contain pyrite, galena, sphalerite, chalcopyrite and tetrahedrite. 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 11,500 feet and open at both ends. The average true thickness of the mineralized zone encountered in diamond drill holes is 5.35 feet. Samples from surface exposures suggest a variance of a few inches to approximately six feet. The old trenches are partially sloughed in and vein exposures are generally 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 systems.

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

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+70E) (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 wallrock form a section five 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+10E) (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 150⁰)

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 145⁰)

2.7 feet of vein, gouge and wallrock 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 30⁰)

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.

TRENCH NO. 14 (16+00E) (2+00N)

Selected specimens of gouge and sulphides over five feet assayed 0.06 oz Au/ton; 53.2 oz Ag/ton, 12.60% Pb; 0.68% Zn, 1.13% Cu.

TRENCH NO. 15 (18+00E - 12+50N)

Selected specimens of gouge and sulphides assayed 0.04 oz Au/ton; 19.4 oz Ag/ton; 20.00 % Pb; 0.22% Zn; 0.06% Cu.

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 zones which contain the mineralized areas of interest on the property.

(ii) VLF-EM Survey

Approximately six line miles of VLF-EM survey were run during the 1973 exploration season. The strongest crossovers were found to correlate with the exposed portion of the mineralized shear zone. Extensions along the strike of the zone were indicated over the length of the grid.

Approximately 28 line miles of VLF-EM survey were carried out during the 1974 exploration season. A Ronka E.M.16 instrument was utilized.

The Tinta vein zone was extended over the length of the grid to L85E and L30W. The intensity of the readings are somewhat lower from the eastern limit of the drilling at L30E to L40E. however, are significant from there. Similarly, lower

readings occur from L2W to L5W but are anomalous to L30W. These two areas of low readings are possibly reflected by a watercourse in the west, and a swampy area in the east, where considerable weathering, leaching and oxidation has taken place.

A parallel anomalous zone extends from L25E to beyond the limits of the grid at L15W at this point, and approximately 1,100 feet north of the main zone. The zone has been trenched at L18E and a shear zone containing variable amounts of galena and sphalerite has been located.

These two zones are connected by a northerly striking zone which has been trenched, sampled and drilled and which returned favourable assays.

A second sub-parallel anomalous zone extends from L75E to the limits of the grid at L00 and is from 1,600 to 3,200 feet north of the main zone.

An additional anomalous zone, 1,800 feet to the north, is indicated from a line run along the road north of the above zone.

An anomalous area suggesting two sub-parallel intersecting zones, occurs 1,200 to 2,600 feet south of the Tinta Vein zone and extends beyond the eastern limit of the grid at L100E.

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 correlations 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 (1960)

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 holes were drilled at 032° and at an angle of -45° .

DDH #60-1

Location: L18+30E 1+20S

Depth: 206'

Intersection: 128-139' = 11'

True Width Assay

7.5'

Tr Au; 0.20 oz Ag/ton, 0.33% Pb;
1.06% Zn; 0.03% Cu

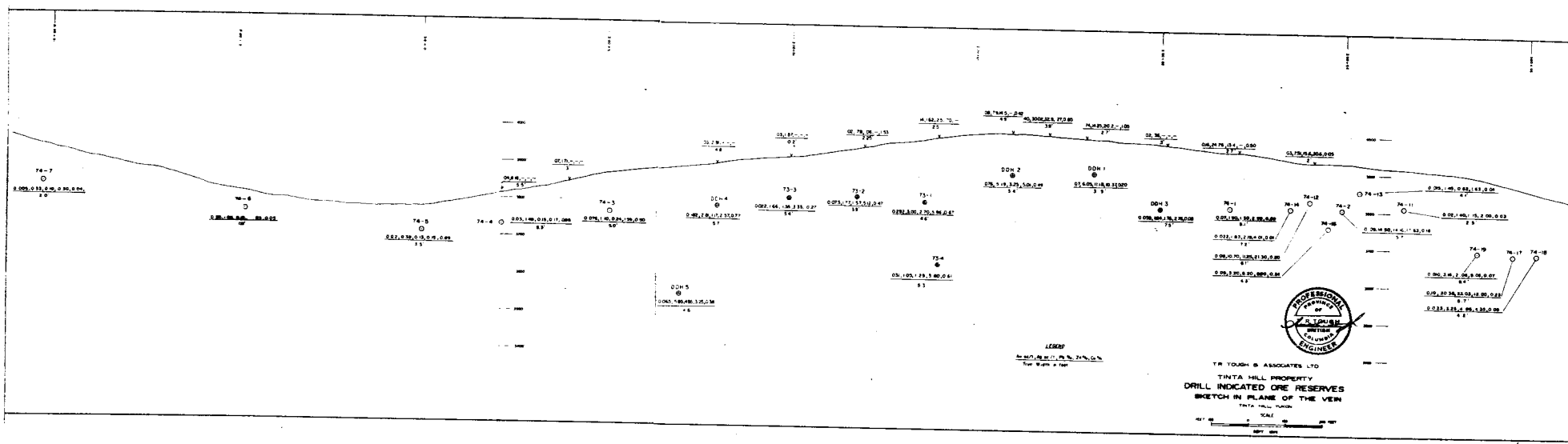
Intersection: 160.5' to 166' = 5.5'

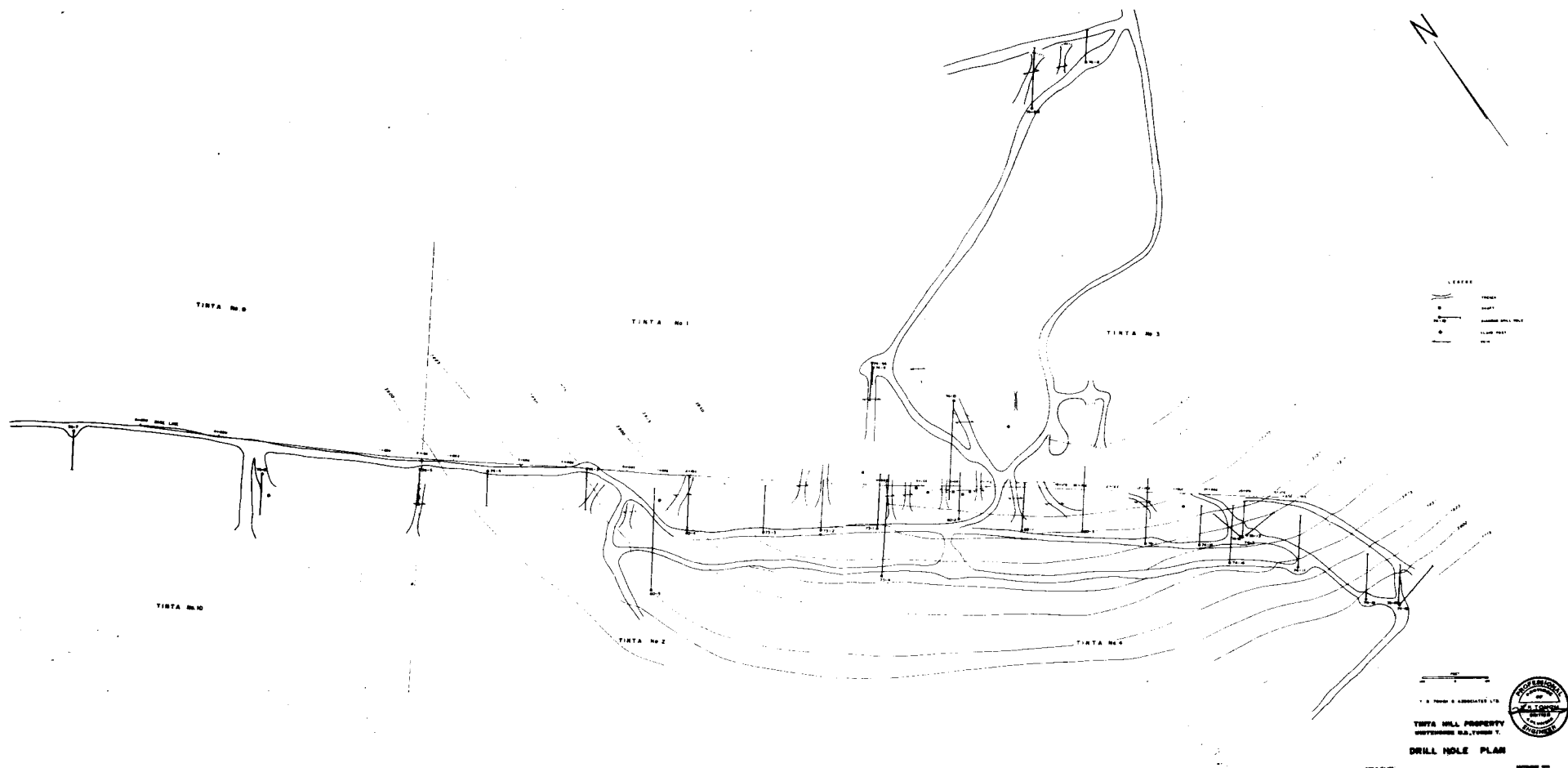
True Width

Assay

3.9'

0.070 oz Au/ton, 6.05 oz Ag/ton, 11.18% Pb,
10.37% Zn; 0.20% Cu, 0.09% Cd.





CLAIM NO. PAGE TWO

DIAMOND DRILL RECORD

PROPERTY.....

HOLE NO.

LATITUDE ELEVATION BEARING DEPTH STARTED COMPLETED

DEPARTURE SECTION DIP DRILLED BY LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
169-205	Banded granodiorite and quartz diorite								
205-222.5'	Granodiorite contact 45° to C.A. at 222.5' fractured and broken								
	to 213'								
222.5-271	Quartz diorite highly altered, kaolinite, chlorite stringers								
	little mafics, pale grey-green minor foliation 45° to C.A. sericite								
	pyrite stringers and disseminations 253-254 Fracturing 70° to								
	C.A. at 255'								
271-277.5'	Gneiss auger gneissosity 43° C.A. minor pyrite								
277.5-351.7'	Granodiorite altered calcite stringers at 279' kaolinization								
	chlorite, chlorite slickensides at 296' 65° C.A. heavy								
	chlorite at 291'. Minor gouge at 303' fractures with chlorite								
	at 329.5' chlorite alteration increasing, gouge fragments								
	340.5'-342								
351.7-394'	Altered zone footwall quartz diorite, kaolinized, pyrite stringers 62°								
	to C.A. at 357' and 358.5' sericite sulphide at 341' 1" vein								
	45° to C.A.								
394-405'	Mineralized Zone								
	Contact 45° to C.A. gouge to 395' Silicious from 346'-405'								
	good sulphides, pyrite, galena, sphalerite, chalcoppyrite.								
405-416.5	Highly altered hanging wall.								

CLAIM NO. Tinta #4

DIAMOND DRILL RECORD

PROPERTY Tinta Hill, Y.T.

HOLE NO. 76-1

LATITUDE L25+00E

ELEVATION 3827

BEARING 032°

DEPTH 455.5' STARTED July 19, 1976 COMPLETED July 29, 1976

DEPARTURE 3+75S

SECTION L25+00E

DIP -45°

DRILLED BY Mike McCloy

LOGGED BY T.R. Tough

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OUNCES ASSAYS			
						Au/t	Ag/t	Pb%	Zn%
0- 30'	Casing		396.0'	399.0'	3.0'	0.044	1.03	0.56	1.39
14.5- 42'	Quartz diorite - mg. rusty, brown altered feldspar							0.005	Cu
			399.0'	405.0'	6.0'	0.010	2.76	2.73	7.18
								0.05	Cd%
42- 60'	Granodiorite, mg, gray, hypidomorphic granular textures, less on fractures, minor magnetite biotite								
60- 68'	Quartz diorite mg minor magnetite, bleached sericite altered feldspar								
68 -69.5'	Granodiorite								
69.5-92	Quartz diorite, 75-76.5' granodiorite, chlorite stringers								
92-98	Granodiorite foliation 37° to C.A.								
98-102.5	Quartz diorite								
102.5-108	Granodiorite, chlorite stringers dark green								
108-119.5	Quartz diorite somewhat bleached, contact 40° to C.A.								
195-146'	Granodiorite mg. foliation 43° to C.A. Occasional narrow bands of quartz diorite, rusty fractures, chlorite stringers								
146-158	Quartz diorite, chlorite stringers and blebs								
158-167	Granodiorite foliation 53° to C.A. at 162'								

CLAIM NO. _____

DIAMOND DRILL RECORD

PROPERTY.

HOLE NO. 74-19

LATITUDE	ELEVATION	BEARING	DEPTH	STARTED	COMPLETED
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DEPARTURE	SECTION	DIP	DRILLED BY	LOGGED BY

[illegible]

CLAIM NO. TINTA 4

DIAMOND DRILL RECORD

PROPERTY TINTA HILL

HOLE NO. 74-19

LATITUDE 29 + 00E ELEVATION 3798 BEARING 032° DEPTH 192 STARTED Aug. 12/74 COMPLETED Aug. 13/74

DEPARTURE 3 + 25S SECTION 29 +00E DIP -45° DRILLED BY Arctic Diamond Drilling LOGGED BY L. Sookochoff

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS					
						Au	Ag	Pb	Zn	Cu	Cd
0-8	Casing										
8-19	Diorite - m.g.; gray										
19-51.6	Granodiorite - pinkish gray; hypidiomorphic granular texture;										
	m.g.; lt. trach. @ 42°. Anhedral lt. alt'd. hbl.; occ.										
	p.f. X1 1"										
	46-50 Broken - siliceous										
51.6-102	Meta diorite - rusty w/ loc. fresher sec. w/ r.h. thru matrix										
	loc. diss. mag.; fr. @ 45° 72°										
102-110	Gneissic w/ f.g. bands @ 35-45° rusty on fr. planes.										
110-124	Diorite - m.g. lt. r.h. through matrix; lt. ep.; lt.										
	mafic alt'n.										
124-144	Altered zone - mod. bleached - kaolinization of feldspars -										
	loc. rusty										
144-157.3	Mineralized Zone										
	144-145 Patchy & blebs sph. & gal. in qtz. carb. matrix										
	145-153 Qtz. str. & sil. zones w/ blebs & diss. sph. & gal.										
	Str. & veinlets @ 52°										
	155-157.3 Sil. stringers & zones w/ lt. gal. sph.										

CLAIM NO. TINTA #6

DIAMOND DRILL RECORD

PROPERTY TINTA HILL Y.T.

HOLE NO. 74-18

LATITUDE 30 + 00E

ELEVATION 3782'

BEARING 078°

DEPTH 216

STARTED Aug. 5/74

COMPLETED Aug. 6/74

DEPARTURE 3 + 25S

SECTION

DIP -45°

DRILLED BY Arctic Diamond
Drilling

LOGGED BY T.R. Tough

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS					
						Au	Ag	Pb	Zn	Cu	Cd
0-7	Casing										
7-127.5	Meta- Quartz Diorite - m.g. hypidiomorphic granular texture - gneissic 34' - 36' @ 42° - mafics generally alt'd. to chlorite; - hem. on fr. planes - rusty 85 f.g. diorite @ 30° 89-100 moderately altered - kaolinization of fels. 97-98 Gougy										
127.5-193	Altered zone Mineralized stringers @ 129-130 0.4' massive 129.6-130.0' Contact 50° to C.A. 131.6, 131.8, 136.4. 145.5-146 151-151.3 - 45° to C.A.; 165.2 60° to C.A. 182-183.5 Gouge 183.5-184.2 Heavy sulphides leached 184.2-186.2 Gouge 192-193 Gneissic @ 47°										
193-216	Meta quartz diorite - same as 7-127.5										
	216' END OF HOLE										

CLAIM NO. TINTA #4

DIAMOND DRILL RECORD

PROPERTY TINTA HILL Y.T.

HOLE NO. 74-17

LATITUDE 30 + 00E ELEVATION 3782 BEARING 032° DEPTH 163.5' STARTED Aug. 3/74 COMPLETED Aug. 5/74

DEPARTURE 3 + 25S SECTION L 30 + 00E DIP -45° DRILLED BY Arctic Diamond Drilling LOGGED BY T.R. Tough

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS					
						Au	Ag	Pb	Zn	Cu	Cd
0-6	Casing										
6-83	Qtz. Diorite m.g. gneissic in places - blocky core to 28'										
	gneissosity 0° to 45° to C.A. Fe oxides on fractures.										
83-95	Altered qtz. diorite brown gouge sections some grey - feldspars										
	broken down, bleached.										
95-114	Granodiorite with gougy and altered sections, bleached	16592	112.6	114.3	1.7	Tr	Tr	.14	.19	.01	-
114-116	Mineralized zone, contact 45° to C.A., galena, sphalerite, cpy	16581	114.3	116.1	1.8	.16	6.30	7.16	9.88	.23	.08
	py., in qtz., feldspar gangue. Well mineralized	16591	116.1	118.7	2.6	.005	.02	.39	.36	.01	-
116-140	Altered granodiorite with mineralized stringers @ 130 to 140'	16585	129.5	134	4.5	.005	.18	.84	.82	.01	.01
140-148.3	Mineralized zone, heavy sulphides in qtz. - feldspars gangue,	16582	134.0	140.2	6.2	.03	.41	1.32	1.76	.02	.01
	galena, sphalerite, cpy., py. Contacts with high grade										
	bands 45° - 50° to C.A. Hanging wall contact 45° to C.A.	16583	140.2	148.3	8.1	.10	20.30	23.03	13.00	.23	.11
148.3-151	Gouge with minor sulphides	16584	148.3	151	2.7	.005	.40	.70	.74	.01	.01
151-155	Altered granodiorite, bleached										
155-163.5	Granodiorite, relatively unaltered, gneissic subtly										
	163.5' END OF HOLE										

CLAIM NO. TINTA #4

DIAMOND DRILL RECORD

PROPERTY.....TINTA HILL

HOLE NO.....74-16

LATITUDE 24 + 50E

ELEVATION 3898.

BEARING ... 032°

DEPTH 252

STARTED July 31/74

COMPLETED . . . Aug. 3/74

DEPARTURE 1 + 90S

SECTION **24 + 50E**

DIP.....-45°

DRILLED BY Arctic Diamond

LOGGED BY T.R. Tough

Drilling

[illegible]

CLAIM NO. TINTA #4

DIAMOND DRILL RECORD

PROPERTY TINTA HILL

HOLE NO. 74-16

LATITUDE 24 + 50E

ELEVATION 3878

BEARING 032

DEPTH 252'

STARTED July 31/74

COMPLETED Aug. 3/74

DEPARTURE 1 + 90S

SECTION 24 + 50E

DIP -45°

DRILLED BY Arctic Diamond
Drilling

LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS					
						Au	Ag	Pb	Zn	Cu	Cd
0-9	Casing										
9-53	Qtz. diorite, gneissic, m.g. gneissosity 21° to C.A.										
	- blocky core to 22', fracture parallel to core 21-24'										
53-124	Granodiorite, contact 0° to C.A. m.g. grey-green, occasional										
	band of Qtz. diorite.										
	Altered from 87-89' Contact 40° to C.A. Bleached										
	granular texture										
124-168	Altered zone, bleached, epidote, chlorite, fractures 65° to C.A.										
	Little gouge @ 159' 2" Qtz. vein @ 137 minor sulphides.										
168-168.3	Gouge-brown granular with some Qtz. contact 45° to C.A.										
168.3-172.5	Altered zone										
172.5-174	Gouge with dark bluish black bands, 45° to C.A., pyrite, myl.	16576	172.5	174.6	2.1	.005	.02	.09	.52	.01	.01
174-184	<u>Mineralized zone</u>										
	Good galena & sphalerite as blebs, patches, disseminations	16577	174.6	180.7	6.1	.09	13.20	8.20	8.80	.34	.14
	wormy texture (mercuritic) chalcopyrite, tetrahedrite.										
	Sphalerite, a light amber colour, Qtz.-feldspar gangue.	16578	180.7	184	3.3	.02	1.70	1.08	3.20	.08	.03
	Slickensides at 176 20° to C.A. crushed sulphides										
184-200	Mylonitic gouge - bands of chlorite	16579	184	186	2.0	.005	.02	.11	.21	.01	.01
200-203	<u>Mineralized zone</u> vein-gouge galena, sphalerite pyrite										

CLAIM NO. TINTA 5

DIAMOND DRILL RECORD

PROPERTY TINTA HILL

HOLE NO. 74-15

LATITUDE 35 00E

ELEVATION

BEARING 032°

DEPTH 229'

STARTED July 29/74

COMPLETED July 31/74

DEPARTURE 7 + 50N

SECTION 35 + 00N

DIP -45°

DRILLED BY Arctic Diamond
Drilling

LOGGED BY L. Sookochoff

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
0-56	Granodiorite - m.g. gray hypidiomorphic granular texture; lt. mod. chloritic alteration; lt. trach. @ 55°; subhedral pink feldspar Xls 1" throughout; chl. str. through matrix.								
56-88	Meta Diorite - m.g. hypidiomorphic granular texture; greenish-gray; rare cal. str. @ 45°; loc. p.f. alteration 86-88 Granular & gougy								
88-127	Rhyodacite Porphyry - f.g.; pinkish-gray; subhedral black augite and whitish feldspar Xls in aphanitic - f.g. matrix Contact @ 52°								
127-142	Granodiorite - same as 0-56; ep. alt'n. 139-142								
142-188	Diorite - gray; lt. p.f. alt'n. - occ. ep. patch; lt. to nil alt'n. 176-183.6 Granodiorite								
188-229	Granodiorite - same as 0-56 204-205 Gougy 206.5-208.6 Lamprophyre dyke 226-229 m.c.g. diorite 229' END OF HOLE								

CLAIM NO. _____ **DIAMOND DRILL RECORD** PROPERTY _____ HOLE NO. 74-14

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
	Sulphides @:	16634	141.4	145.5	4.1	.01	1.50	2.00	5.10	.03	.04
	141.5 - 3" qtz. carb. @ 30° w/ lg. blebs gal. sph.	16635	145.5	149	3.5	Tr	.06	.10	.30	<.01	-
	142.9 1" @ 64° w/ lt. mod.	16636	149	151.5	25	.07	4.80	6.60	7.40	.11	-
	143.8-144.5 @ 43° mod. blebs gal. sph.	16637	151.5	156.5	5.0	Tr	.72	.70	1.20	.01	-
	(144. pebbly grinding could be 2" 1st. core)	16638	156.5	161.5	5.0	.03	.73	1.05	2.10	.03	-
	145.5 2" @ 38° w/ mod. brown sph. & gal.										
	149 - 151.5 Heavy patches & veinlets @ 55° sph. gal.										
151.5-161.5	Altered zone										
	154.5-156.5 Granular										
	156.5-161.5 Friable gougy loc. sections										
	Good diss. sulph. 160-161.5										
161.5-171	Quartz diorite - lt. to mod. alteration; loc. rusty on surface.										
	166.5 - 3/8" qtz. w/ str. gal. sph.										
	170 Siliceous section - dark qtz.										
	170-171 - Harder < alt'n.										
	171 END OF HOLE										

CLAIM NO. TINTA 4

DIAMOND DRILL RECORD

PROPERTY TINTA HILL

HOLE NO. 74-14

LATITUDE 23 + 40E ELEVATION 3907 BEARING 032 DEPTH 171 STARTED July 21/74 COMPLETED July 21/74

DEPARTURE 1 + 45S SECTION 23 + 40E DIP -45° DRILLED BY Arctic Diamond Drilling LOGGED BY L. Sookochoff

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS		
0-11	Casing							
11-137	Granodiorite - m.g.; low quartz-trachytic texture @ 50° - mafics generally altered to chlorite; alt'n 20+. Occ. pink K-spar subhedral Xls < ½" 57+ lt. chl. ~~on fr.~~ planes 57 gougy 57-68 random chlorite and blackish str.; hem. on fr. pl. 83 1' friable 84-114 lt. bleaching friable to 85' 88.5 - 89.5' 106 chlorite veinlets < ½"							
115-137	Altered zone - mod. to heavy alteration to complete kaol. of feldspars Occ. sulphides in qtz. stringers @ 118 (½"), 124 (1") 52°, 125 (1") 42°, 131 (½") 25°. 127-130 Heavy alteration - granular							
137-151.5	Mineralized zone - Sulphide mineralization usually within quartz veins ~~hosted~~ by heavily altered material.							

CLAIM NO. TINTA 4

DIAMOND DRILL RECORD

PROPERTY TINTA HILL

HOLE NO. 74-13

LATITUDE 25 + 00E

ELEVATION 3915

BEARING 085

DEPTH 149

STARTED July 20/74

COMPLETED July 21/74

DEPARTURE 1 + 25S

SECTION 25 + 00E

DIP -45°

DRILLED BY Arctic Diamond Drilling

LOGGED BY L. Sookochoff

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS					
						Au	Ag	Pb	Zn	Cu	Cd
0-12	Casing										
12-25	Granodiorite - m.g. trachytic @ 42°; mafics var. to chl.										
25-45	Qtz. diorite typical										
	33 - 2" gouge @ 44°										
	45 - 2" gouge										
45-63	Granodiorite hem. thru matrix; loc. rusty sec.	16632	79	81.8	2.8	.02	1.40	.20	1.30	.05	-
	62.5 1½" gouge	16630	81.8	84.8	3.0	.01	1.50	1.04	1.95	.03	-
63-82	Altered zone - heavily alt'd., loc. granular occ. diss. py.	16631	84.8	87.8	3.0	.005	.06	1.05	.95	.01	-
	& dk. bands @ 45° - 52°										
82-85	Mineralized zone - Diss. py. - rare patches & blebs sph. &										
	gal.										
	81.8-84 1.0' lost core										
85-104	Altered zone 86-104 Mod. alt'n.; rare sulphides										
104-149	Quartz diorite; trachytic @ 45°; hem. thru matrix & as										
	str. @ 45°-60°										
	111-115.5 Rusty zone - mod. alt'd.										
	115.5-145 Lt. alt'n. chl. & hem. thru matrix										
	135-145 Bleached fr. @ 45°										

149' END OF HOLE

CLAIM NO. _____

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 74-12

HOLE NO. 74-12

[illegible]

DEPARTURE	SECTION	DIP	DRILLED BY	LOGGED BY
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[illegible]

CLAIM NO. TINTA 4

DIAMOND DRILL RECORD

PROPERTY TINTA HILL

HOLE NO. 74-12

LATITUDE 25 + 00E ELEVATION 3914 BEARING 345° DEPTH 155.5 STARTED July 20/74 COMPLETED July 20/74

DEPARTURE 1 + 25S SECTION 25 + 00E DIP -45° DRILLED BY Arctic Diamond Drilling LOGGED BY L. Sookochoff

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS					
						Au	Ag	Pb	Zn	Cu	Cd
0-7	Casing										
7-10.5	Diorite - c.g.; mafics to chl. & biotitic trach. @ 56°										
10.5-35	Granodiorite m.g. pinkish K-spar subhedral Xls ½"										
	trachytic 10% mafics gen. alt'd.; ep. hem. thru										
	matrix.										
35-59	Quartz Diorite - typical; rare K-spar; m.g.; trach. @ 52°										
	46.5 Banded qtz. zone @ 45° - rusty	16633	117	119.8	2.8	.01	.14	.35	.85	.01	-
	^{sorty} ~~300~~ cc. bleached to 47.5; fr. @ 80°										
59-122.5	Altered zone - bleached - hard to 90'	16626	121.5	123.5	2.0	.005	.35	.30	.60	.01	-
	90-100 Q. diorite - hem. on fr.	16625	123.5	135	11.5	.08	10.70	11.25	21.30	.20	.19
	100-123.5 Heavily alt'd.; friable; granular										
	lt. gray - lt. diss. py. 117-123.5	16627	135	140	5.0	.005	.10	.30	.75	.01	-
122.5-135	Mineralized zone - Mod. - heavy patches, veinlets & diss. sph.										
	gal. & occ. py. in qtz.	16628	140	142.5	2.5	.04	1.10	2.55	7.60	.02	-
	@ 62°; 122.5-123.5 core lost - grinding	16588	142.5	144.5	2.0	Tr	Tr	.20	.35	.01	-
	135-40 Altered zone w/ lt. diss. py. occ. thin str.										
	sph. & gal.										
	140-142.5 Qtz. @ 62° w/ mod. patches, blebs & diss.										
	sph. gal. & occ. py.										

CLAIM NO. TINTA #4

PROPERTY.....TINTA HILL

HOLE NO. 74-11

LATITUDE 27 + 00E

ELEVATION 3869

BEARING 032

DEPTH **220**

STARTED July 18/74

COMPLETED July 19/74

DEPARTURE 2 + 10S

SECTION 27 + 00E

DIP -45

DRILLED BY Arctic Diamond

LOGGED BY L. Sookchohoff

Drilling

[illegible]

CLAIM NO. _____

PROPERTY _____

HOLE NO. 74-10

LATITUDE	ELEVATION	BEARING	DEPTH	STARTED	COMPLETED
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DEPARTURE	SECTION	DIP	DRILLED BY	LOGGED BY

[illegible]

CLAIM NO.

DIAMOND DRILL RECORD

PROPERTY HOLE NO. 74-10

LATITUDE ELEVATION BEARING DEPTH STARTED COMPLETED

DEPARTURE SECTION DIP DRILLED BY LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
	240-244 meta qtz. dior. trach. @ 42°								
	244- mod. to heavy alt'n.; loc. gougy friable; occ.								
	fels. cal. veinlets @ 32°								
253-254	Mineralized Zone - 2 zones								
	1" heavy gal. sph. in qtzitic @ 50°, 46°								
	1" mod. patches gal. cpy. @ 50° in assoc. w/ qtz. carb.								
	str.								
	Chlorite str. upto 1' on walls of zone.								
254-338	Quartz Diorite - M. - M-C. grained; trachytic @ mafics -								
	variable to chl.; chl. on fr. planes								
	257-258 Lt. sulph. over 2"								
	265-269 Gneissic - banded w/ pinkish q. fels. @ 60°								
	271 3" f/g. pinkish mang. @ 39°								
	280-303 Mod. alt'd. q. dior. > chl.								
	303+ Lt. alt'n. trach. @ 35°								
	319 Irregular braided sulphide str. @ 57°								
	327-338 Q. diorite w/ pinkish K.spar xls								
338-388.5	Metagranodiorite & altered zone; shem & chl. on f.p. @ 42°								
	Mod. alt'n. bleaching to 360								

CLAIM NO.

DIAMOND DRILL RECORD

PROPERTY HOLE NO. 74-10

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
	cpy. in a siliceous and quartz zone 40% (recovery)	16641	96.5	100	3.5	.005	.27	.15	1.35	.13	.01
	103-105 Altered zone -	16640	100	103	3.0	.07	8.20	2.80	2.75	1.60	.03
	105-109 Moderate splashes & patches diss. gal. cpy.	16642	103	105	2.0	.02	.37	.10	.15	.12	.01
	lt. cpy. enargete - covellite & tetrahedrite in	16643	105	109	4.0	0.24	15.10	5.70	2.70	1.15	.02
	vuggy siliceous zone. 107-109 - 6" core (25% recovery)										
	105-107 - 1.0' core	16644	109	111.5	2.5	.03	.24	.62	.45	.09	.01
	109-111 Diss. py. in heavily alt'd zone.										
	123 3/8 chl. str. @ 67° w/ adj. heavily diss. py. in										
	patches										
169-230	Granodiorite - m.c.g. hyp. gran. tex; lt. trachyte @ 42°;										
	prolific K-spar subhedral Xls										
	< 1/4"; mafics to chlorite										
	196.6 ep. assoc. w/ qtz. str. @ 65°										
	200 f.g. diorite @ 42°										
	201 lt. green chl. str. @ 45°										
	222+ alt'n.; chl; mod. friable. fr. @ 55°, 65°, 80°										
230-253	Altered Zone - Grayish white to greenish white; whitish fels.										
	prom. in greenish g.m.; occ. K-spar										

CLAIM NO. TINTA #3**DIAMOND DRILL RECORD**PROPERTY TINTA HILLHOLE NO. 74-10LATITUDE 15 + 92EELEVATION 4029BEARING 212DEPTH 421STARTED July 22/74COMPLETED July 23/74DEPARTURE 2 + 45 NSECTION 16 + 00EDIP -45°DRILLED BY Arctic Diamond
DrillingLOGGED BY L. Sookochoff

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
0-10	Casing								
10-169	Quartz Diorite - m.g.; trachtyic texture @ 42°; mafics mod. altered to chlorite; occ. qtz. carb. stringer @ 45° 14.5-16 f.g. diorite @ 45° sharp cont. 36 -46 loc. zones of rusty core - bleaching w/ assoc. sooty cc. & lt. pyr. & sulph. @ 38 - broken - blebs gal. sph. & py. adj. py. in bleached zone. 46 6 qtz. str. w/ blebs sph. gal. cpy. & assoc. py. @ 42° 44.5 @ 33° thin str. gal. sph. & qtz. w/ cpy. 49 ¼" str. gal. @ 53° 60-66.5 2.0' core - gougy & Alt'd. 69-71 6" core - diss. py. to 71. 81-83.5 diss. py & smears of sulph. on f.p. Altered Zone - Grayish white mod-heavily altered loc. sec. granular, gougy and brecciated. 96.5-100 Lt. diss. and thin random stringers sulphides 100-103 Splashes, blebs, patches gal., sph. & lt. py.								

CLAIM NO. TINTA 1

DIAMOND DRILL RECORD

PROPERTY TINTA HILL

HOLE NO. /4-9A

LATITUDE 14 + 25E

ELEVATION 4015

BEARING 212

DEPTH 161

STARTED July 25/74

COMPLETED July 27/74

DEPARTURE 3 + 30 N

SECTION 14 + 25E

DIP -45°

DRILLED BY Arctic Diamond

LOGGED BY L. Sookochoff

Drilling

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS					
						Au	Ag	Pb	Zn	Cu	Cd
0-8	Casing										
8-39	Granodiorite - m.g.; trachytic @ 48°; mafics generally to chlorite; occ. pinkish K-spar subhedral Xls 15' 6" gneissic @ 72° 30+ loc. alt'd. zones - loc. dioritic	16645	121.3	127.2	5.9	Tr	Tr	.06	.40	.02	-
39-46	Quartz Diorite - typical m.g. trachytic										
46-60	Altered zone - Variably bleached - loc. friable & rusty 46-48 Heavy py. in qtzitic. zone & rusty 56 - Patches heavy diss. py.	16646 16647	127.2 129.5	129.5 134.6	2.3 5.1	.35	7.80	3.08	1.74	3.00	-
60-108	Qtz. diorite - typical - trachytic - gneissic 75-79 Granodiorite - distinct contact @ 70°; m.g. w/ pinkish K-spar subhedral Xls										
100-120	Gneissic bands of qtz. diorite and granodiorite @ 50°										
120-127.2	Altered zone - Greenish-gray - variably bleached 120.6-126 - 3.0' core (2.6' lost). w/ pebbly section of qtz. w/ blebs py.										
127.2-134	Mineralized zone 127.2-129 Quartz carbonate w/ irreg. patches blebs of mainly gal. & lesser cpy.; blebs & var. diss. of py. 20% sulphides.										

CLAIM NO. TINTA 2

DIAMOND DRILL RECORD

PROPERTY TINTA HILL

HOLE NO. 74-9

LATITUDE 14 + 25E ELEVATION 4015 BEARING 212 DEPTH 71' STARTED July 24/74 COMPLETED July 24/74

DEPARTURE 3 + 20N SECTION 14 + 25E DIP -45 DRILLED BY Arctic Diamond Drilling LOGGED BY L. Sookochoff

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
0-10	Casing								
10-47	Granodiorite - m.g.; mafics mod. to chl.; K-spar Xls $\frac{1}{2}$ "								
	14.5' f.g. diorite @ 58°								
	18.6-25 rusty - broken qtz. str. lt. diss. py. sooty cc.								
	on fr. planes								
	31.5 - 44 Altered - mod. bleached - whitish fels. in								
	greenish gray matrix.								
	Loc. rusty sections w. qtz. & lt. diss. py.								
47-57	Gabbroic schist - light schistosity @ 58°								
	60% mafics w/ grayish white subhedral fels.; mafics								
	mod. - biotite								
57-71	Diorite - C.I. 50 m.g. lt. trach.; subhedral fels.								
	locally 1.0' granodiorite.								
	71' END OF HOLE								
	Abandoned due to cave.								

CLAIM NO. TINTA 4

DIAMOND DRILL RECORD

PROPERTY TINTA HILL

HOLE NO. 74-8A

LATITUDE 11 + 25 N

ELEVATION 4038

BEARING 032

DEPTH 260

STARTED Aug. 13/74

COMPLETED Aug. 16/74

DEPARTURE 18 + 45E

SECTION

DIP -45°

DRILLED BY Arctic Diamond
Drilling

LOGGED BY L. Sookochoff

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS					
						Au	Ag	Pb	Zn	Cu	Co
0-10	Casing										
10-190	Qtz. diorite - m.g.; hypidromorphic granular texture; greenish-gray; mafics generally alt'd. to chloritic; lt. lineation @ 52°; 10% qtz. 20% mafics; loc. blebs diss. hem.; rusty sections; occ. cal. veinlet @ 62°; broken & rusty to 35'										
	139-190 lt. pink fels. alteration & lt. epidote										
	190 3" of patches veinlets py. @ 52°	16598	241	247	6.0	.01	.02	.05	.05	.05	.1
190-260	Altered zone - bleached - heavily kaolinized w/ irregular & @ 52° str. chlorite & hem. occ. chl. str. @ 55°; blebs magnetite										
	196-197.5 mod. alt'd. diorite. loc. syenitic w/ diss. py.										
	233-260 Less alt'n.; mod. hard; greenish-gray										
	241-242; 244-247 Mod. - heavy diss. py. w/ cal. str. @ 67° & 56° - contact @ 52°;										
	251-254 irreg. str. hem. - blebs mag.										
	260' END OF HOLE										

CLAIM NO. _____ TINTA 3

DIAMOND DRILL RECORD

PROPERTY.....TINTA HILL

HOLE NO. 74-8

LATITUDE 20 + 00E

ELEVATION 4027

BEARING.....032

DEPTH.....138

STARTED July 28/74

COMPLETED .. July 28/74

DEPARTURE 13 + 65N

SECTION 20 + 00E

DIP -45°

DRILLED BY Arctic Diamond
Drilling

LOGGED BY L. Sookchohoff

[illegible]

CLAIM NO. TINTA 9**DIAMOND DRILL RECORD**PROPERTY TINTA HILLHOLE NO. 74-7LATITUDE 10 + 00WELEVATION 3918BEARING 212°DEPTH 166STARTED July 16/74COMPLETED July 17/74DEPARTURE 0 + 50SSECTION 10 + 00WDIP -45°DRILLED BY Arctic DiamondLOGGED BY L. SookochoffDrilling

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS				
						Au	Ag	Pb	Zn	Cu
0-10	Casing									
10-82	Granodiorite - hyp. gran. texture; lt. trach. m.g.; large pinkish K-spar Xls: mafics variably alt'd. to chl.									
82-106	Quartz diorite - m.g. trachytic									
	96 - Heavier alt'n. w/ loc. sec. bleaching & brown surf. mag. blebs thru matrix.									
	106 - ½" Qtz. str. w/ sulph. @ 35° across trachytic @ 43°	16639	116.8	119.6	2.8	.005	.53	.10	.30	.04
106-120	Altered zone - locally meta granodioritic; mod. alt'n.									
	121-122 gougy 115-116									
	116 Lt.-mod. diss. py.									
	117-118 Qtz. @ 45° w/ mod. blebs & patches py.									
	118-120 Heavy alt'n. diss. py.									
120-166	Meta Granodiorite - mod. alt'n. siliceous									
	140-148; 150-151 Gougy									
	Lt. altered zone to 163									
	163-166 K-spar Xls < ½"									
	166' END OF HOLE									

CLAIM NO. TINTA 10

DIAMOND DRILL RECORD

PROPERTY TINTA HILL

HOLE NO. 74-6

LATITUDE 5 + 00W ELEVATION 3807 BEARING 212 DEPTH 173 STARTED July 16/74 COMPLETED July 16/74

DEPARTURE 0 + 80S SECTION 5 + 00W DIP -45° DRILLED BY Arctic Diamond Drilling LOGGED BY L. Sookochoff

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS					
						Au	Ag	Pb	Zn	Cu	Cd
0-10	Casing										
10-123	Qtz. diorite - typical w/ hem. chl. ep. blebs thru matrix.										
123-144	Altered zone										
	47.3 Rusty thru matrix w/ black, sooty material on fr.										
	planes @ 35°, 65°-78°	16621	55	60	5.0	Tr	.02	.05	.05	.11	-
	Quartz w/ weathered out sulphides @:										
	75.5 1" @ 20° (75.5-78 granular gougy)	16620	73.5	77.5	4.0	.005	.20	.05	.05	.08	-
	78.5 1.0' @ 35°	16619	77.5	80	2.5	.02	1.06	.10	.05	.05	-
	Variable alt'n. rusty to 90' w/ loc. sections granular										
	88 Gneissic band @ 57°										
	95 c.c. on fr. @ 57, 54, 30° - rusty										
	98 2" rusty sil. str. @ 38°										
	103-105 rusty locally friable.										
144-173	Quartz-diorite - typical										
	146 3/4" qtz. @ 44° w/ blebs py. cpy.										
	173' END OF HOLE										

1974

DDH # 74-2

Location: L25+00E 1+25S Azimuth: 032°
Depth: 155' Dip. -45°
Intersection: 64.5 - 72.5' = 8.0'

True Width

5.7'

Assay

0.09 oz Au/ton; 14.50 oz Ag/ton; 14.10% Pb;
17.63% Zn; 0.18% Cu; 0.16% Cd.

DDH # 74-3

Location: L5+00E 0+00 Azimuth: 212°
Depth: 173' Dip. -45°
Intersection: 122'-129'

True Width

5.0'

Assay

0.076 oz Au/ton; 1.10 oz Ag/ton; 0.24% Pb;
1.59% Zn; 0.50% Cu; 0.024% Cd.

DDH # 74-4

Location: L2+00E 0+20S Azimuth: 212°
Depth: 148' Dip -45°
Intersection: 114-118.2'

True Width

5.3'

Assay

0.031 oz Au/ton; 1.49 oz Ag/ton; 0.15% Pb;
0.17% Zn; 0.95% Cu; 0.044% Cd.

DDH # 74-5

Location:	L0+00 0+20S	Azimuth:	212 ^o
Depth:	151'	Dip	-45 ^o
Intersection:	122'-127'		
<u>True Width</u>	<u>Assay</u>		
3.5'	0.02 oz Au/ton; 0.39 oz Ag/ton; 0.13% Pb; 0.15% Zn; 0.69% Cu; 0.01% Cd.		

DDH # 74-6

Location:	L5+00W 0+80S	Azimuth:	212 ^o
Depth:	173'	Dip	-45 ^o
Intersection:	77.5' - 80'		
<u>True Width</u>	<u>Assay</u>		
1.8'	0.02 oz Au/ton; 1.06 oz Ag/ton; 0.10% Pb; <0.05% Zn; 0.05% Cu;		

DDH # 74-7

Location:	L10+00W 0+50S	Azimuth:	212 ^o
Depth:	166'	Dip	-45 ^o
Intersection:	116.8' - 119.6'		
<u>True Width</u>	<u>Assay</u>		
2.0	0.005 oz Au/ton; 0.53 oz Ag/ton; 0.10% Pb; 0.30% Zn' 0.04% Cu;		

DDH # 74-8

Location: L20+00E 13+85N Azimuth: 032°
Depth: 138' Dip: -45°

Vein not intersected - collared on vein.

DDH # 74-8A

Location: 18+45E 11+25N Azimuth: 032°
Depth: 260' Dip: -45°

Intersection: 241' - 247'

True Width

4.2'

Assay

0.01 oz Au/ton; 0.02 oz Ag/ton; <.05% Pb;
<.05% Zn; <.01% Cu; <.01% Cd.

DDH # 74-9

Location: 13+70E 3+20N Azimuth: 212°
Depth: 71' Dip: -45°

No intersection - hole abandoned at 71' due to cave.

DDH # 74-9A

Location: 13+70E 3+30N Azimuth: 212°
Depth: 161' Dip: -45°
Intersection: 127.2' - 134.6'

DDH # 74-9A (continued)

<u>True Width</u>	<u>Assay</u>
5.2'	0.11 oz Au/ton; 2.55 oz Ag/ton; 1.05% Pb; 1.82% Zn; 1.06% Cu; 0.02% Cd.

DDH # 74-10

Location:	15+92E 2+45N	Azimuth:	212'
Depth:	421'	Dip:	-45°
Intersection:	100' - 109'		

<u>True Width</u>	<u>Assay</u>
6.4'	0.134 oz Au/ton; 9.53 oz Ag/ton; 3.49% Pb; 2.15% Zn; 1.07% Cu; 0.02% Cd.

DDH # 74-11

Location:	L27+00E 2+10S	Azimuth:	032°
Depth:	220'	Dip:	-45°
Intersection:	80.5' - 84'		

<u>True Width</u>	<u>Assay</u>
2.5'	0.02 -z Au/ton; 1.40 oz Ag/ton; 1.15% Pb; 2.00% Zn; 0.03% Cu; 0.015% Cd.

DDH # 74-12

Location:	L25+00E 1+25S	Azimuth:	345°
Depth:	155.5	Dip:	-45°

DDH # 74-12 (continued)

Intersection: 123.5' - 135'

True Width

Assay

8.1'

0.08 oz Au/ton; 10.70 oz Ag/ton; 11.25% Pb;
21.30% Zn; 0.20% Cu; 0.19% Cd.

DDH # 74-13

Location: L25+00E 1+25S Azimuth: 085°

Depth: 149' Dip: -45°

Intersection: 79' - 84.8'

True Width

Assay

4.1'

0.015 oz Au/ton; 1.45 oz Ag/ton; 0.62% Pb;
1.63% Zn; 0.04% Cu; 0.015% Cd.

DDH # 74-14

Location: L23+40E 1+45S Azimuth: 032°

Depth: 171' Dip: -45°

Intersection: 141.4 - 151.5

True Width

Assay

7.2'

0.022 oz Au/ton; 1.83 oz Ag/ton; 2.49% Pb;
4.01% Zn; 0.04% Cu; 0.14% Cd.

Intersection: 156.5 - 161.5

True Width

Assay

3.5'

0.03 oz Au/ton; 0.73 oz Ag/ton; 1.05% Pb;
2.10% Zn; 0.03% Cu; 0.02% Cd.

DDH # 74-14 (continued)

Intersection: 151.5 - 156.5

True Width

3.5'

Assay

Tr Au; 0.72 oz Ag/ton; 0.70% Pb; 1.20% Zn;
0.01% Cu; 0.01% Cd.

DDH # 74-15

Location: 35+00E 7+50N

Azimuth: 212°

Depth: 229'

Dip: -45°

74-15 was not on the main zone - No mineralization was intersected.

DDH # 74-16

Location: L24+50E 1+90S

Azimuth: 032°

Depth: 252'

Dip: -45°

Intersection: 174.6' - 180.7'

True Width

4.3'

Assay

0.09 oz Au/ton; 13.20 oz Ag/ton; 8.20% Pb;
8.80% Zn; 0.34% Cu; 0.14% Cd.

Intersection: 180.7' - 184'

True Width

2.3'

Assay

0.02 oz Au/ton; 1.70 oz Ag/ton; 1.08% Pb;
3.20% Zn; 0.08% Cu; 0.03% Cd.

DDH # 74-17

Location: L30+00E 3+25S Azimuth: 032°

Depth: 163.5' Dip: -45°

Intersection: 112.5' - 118.7

True Width

4.0'

Assay

0.053 oz Au/ton; 2.10 oz Ag/ton; 2.39% Pb;
3.29% Zn; 0.08% Cu; 0.03% Cd.

Intersection: 134' - 140.2'

True Width

4.4'

Assay

0.03 oz Au/ton; 0.41 oz Ag/ton; 1.32% Pb;
1.76% Zn; 0.02 % Cu; 0.01% Cd.

Intersection: 140.2' - 148.3'

True Width

5.7'

Assay

0.10 oz Au/ton; 20.30 oz Ag/ton; 23.03% Pb;
13.00% Zn; 0.23% Cu; 0.11% Cd.

DDH # 74-18

Location: L30+00E 3+25S Azimuth: 078°

Depth: 221' Dip: -45°

Intersection: 129.3' - 131.7'

True Width

1.7'

Assay

0.06 oz Au/ton; 1.50 Ag/ton; 3.12% Pb;
3.88% Zn; 0.10% Cu; 0.03% Cd.

DDH # 74-18 (continued)

Intersection: 181' - 187'

True Width

4.2'

Assay

0.023 oz Au/ton; 5.25 oz Ag/ton; 4.86% Pb;
4.35% Zn; 0.09% Cu; 0.023% Cd.

DDH # 74-19

Location: L29+00E; 3+25S Azimuth: 032⁰

Depth: 192' Dip -45⁰

Intersection 144' - 157.3'

True Width

9.4'

Assay

0.010 oz Au/ton; 3.16 oz Ag/ton;
2.06% Pb; 5.06% Zn; 0.07% Cu; 0.02% Cd.

1976

DDH # 76-1

Location: L25+00E; 3+75S Azimuth: 0.32⁰

Depth: 416.5' Dip -45⁰

Intersection 396'-399'

True Width

2.20'

Assay

0.044 oz Au/ton; 1.03 oz Ag/ton; 0.56% Pb
1.39% Zn; 0.05% Cu

Intersection: 399-405'

True Width

4.30'

Assay

0.010 oz Au/ton; 2.76 oz Ag/ton; 2.73% Pb
7.18% Zn; 0.09% Cu; 0.05% Cd.

RESERVES

Tonnages were calculated using the true thickness of drill hole intersections. The weighted average grades of all assays influencing the area samples 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 are those of drill indicated and inferred reserves.

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

TONNAGE CALCULATIONS

Length of zone tested:	3,500 feet
Average true thickness of zone:	5.35 feet
Weighted average grade:	0.075 oz Au/ton; 5.35 oz Ag/ton; 4.71% Pb; 6.03% Zn; 0.37% Cu; 0.049% Cd

DRILL INDICATED RESERVES

$$\frac{3,500 \times 5.35 \times 1}{10} = 1,875 \text{ tons/vertical foot}$$

POTENTIAL RESERVES

The main Tinta Vein is open in three directions; along strike, and to depth. Drill Holes 74-5, 6, and 7 drilled on the western extension of the Tinta Vein were drilled in the upper leached portion of the vein and yielded low grade mineralization. Deeper drilling will be required to properly evaluate this section of the vein.

Geophysics has revealed the Tinta Vein zone extends over 11,500 feet of which 3,500 feet has been drilled.

Two parallel geophysical anomalies to the north of and similar to the Tinta Vein anomaly suggest similar mineralized zones may be present.

Two drill holes on an anomaly connecting the Tinta Vein zone with an anomaly to the north revealed a mineralized zone comparable in width and tenor to the Tinta Vein zone.

Other sub-parallel conductors are indicated to the south of the main zone.

METALLURGICAL STUDY

A copy of a metallurgical report prepared by Bacon, Donaldson & Associates Ltd. is appended hereto.

EXPLORATION PROGRAM

A crosscut should be driven to intersect the main vein in the vicinity of L16+00E on the baseline. The crosscut should be collared on L16+00E at 3+00S and should be driven for some 300 feet at 032°.

Drifting along the strike of the vein should be carried out for 50 feet in each direction.

ESTIMATE OF COSTS OF EXPLORATION PROGRAM

PHASE I

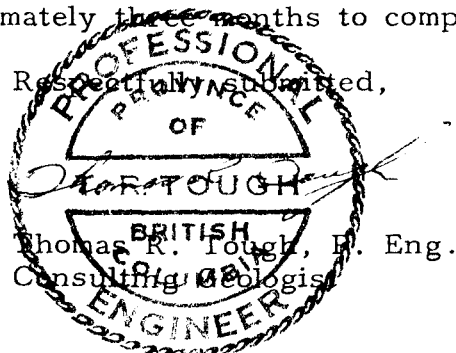
300 feet of Crosscut - 8' x 7' @ \$200/ft. all inclusive	\$ 60,000
100 feet of Drilling - 8' x 7' @ \$200/ft. all inclusive	20,000
Contingencies @ 20%	<u>16,000</u>
	<u>\$ 96,000</u>

Contingent upon the success of the results from Phase I, a second phase consisting of further underground exploration and development should be undertaken.

PHASE II

Drifting, Crosscutting, and Raising - 1,000' @ \$200/ft. all inclusive	\$200,000
Contingencies @ 20%	<u>40,000</u>
	<u>\$240,000</u>

It is estimated that Phase I of the recommended exploration and development program should take approximately ~~three~~ months to complete.



April 21, 1980

Vancouver, B. C.

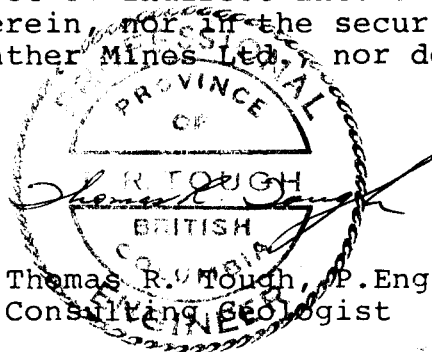
CERTIFICATE

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

That I am a Consulting Geologist Engineer and an associate of T.R. Tough & Associates Ltd., with offices located at 708-850 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 my profession 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 from personal examination of the property in 1973, 1974 and from 1976, and the direct supervision and direction of diamond drill programmes carried out during those years.
5. I do not own any direct or indirect interest in the property described herein, nor in the securities of Silver Tusk Mines Ltd or Panther Mines Ltd, nor do I expect to receive any therein.



April 21, 1980

APPENDIX "A"

METALLURGICAL REPORT

September 23, 1975

T.R. Tough & Associates Ltd.
519 - 602 West Hastings Street,
Vancouver 2, B.C.

ATTENTION: Mr. T.R. Tough

Dear Sir:

Re: Tinta Hill Mines Metallurgy

We have carried out a series of flotation tests on core reject samples from the Tinta Hill Mines property in order to establish the concentrate grades and recoveries to be achieved.

The average calculated head grade of the material tested was:

7.58 % Lead

9.37 % Zinc

9.58 oz. per ton Silver

This calculated value is somewhat lower than the head assay but is a more reliable figure.

The best results were obtained in Test No. 4 as follows:

Lead Concentrate: 59.49 % Lead
 8.76 % Zinc
 73.65 oz. per ton Silver
 0.370 oz. per ton Gold
 4.37 % Iron
 1.37 % Copper

Recoveries: Lead - 94.5 %
 Zinc - 11.1 %
 Silver - 89.9 %

....2

Zinc Concentrate: 59.22 % Zinc
 0.44 % Lead
 2.06 oz. per ton Silver
 0.032 oz. per ton Gold
 2.49 % Iron
 0.17 % Copper
 0.45 % Cadmium

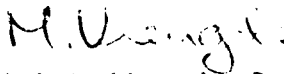
Recoveries: Zinc - 81.0 %
 Lead - 0.8 %
 Silver - 2.7 %

These results are likely very close to the optimum for this ore. Further addition of depressants could move some additional zinc from the lead to the zinc concentrate but the low value of zinc concentrate makes this pointless. The copper in this ore is a nuisance mineral since it has negligible value and could result in marketing problems for the lead concentrate. Cominco in general will not accept a lead concentrate with greater than 1 % Copper. Shipping to an alternate smelter such as Asarco results in a higher basic royalty.

If additional information is required we would be pleased to provide our services.

Yours respectfully,

BACON, DONALDSON & ASSOCIATES LTD.


M.J.A. Vreugde, P. Eng.

TEST NO. 1

This test was performed on a composite sample made up from grab samples. It was apparent during the test that while the sample had significant lead, there was little zinc present. The test products were not assayed and the test conditions were used as a starting point for testing with the core reject composite. The grab sample composite assayed as follows:

24.63 oz. per ton Silver

19.25 % Lead

1.41 % Zinc

TEST NO. 2

This test was performed on a composite sample of core rejects. The samples included in the composite were as follows:

16630	16632	16629
16640	16642	16643
16577	16583	16593
16594	16595	566

The composite sample assayed as follows:

7.75 % Lead

9.77 % Zinc

10.35 oz. per ton Silver

TEST PROCEDURE

<u>Stage</u>	<u>Time (Minutes)</u>	<u>Additions</u>
Grinding	5	3 lbs. per ton Na_2CO_3 0.3 lb. per ton NaCN 0.9 lb. per ton ZnSO_4
Conditioning	2	0.05 lb. per ton Z-11 0.05 lb. per ton DF 250
Lead Flotation	$3\frac{1}{2}$	-
Conditioning	5	1.5 lb. per ton CuSO_4 Lime to pH = 10. 0.05 lb. per ton Z-200 0.10 lb. per ton DF 250
Zinc Flotation	4	-

TEST PROCEDURE - Cont'd

<u>Stage</u>	<u>Time (Minutes)</u>	<u>Additions</u>
Lead Cleaning	4	Lime to pH = 10 0.05 lb. per ton NaCN 0.10 lb. per ton ZnSO ₄
Zinc Cleaning	5	Lime to pH = 10.5

Flotation Feed = 31.4 % minus 200 mesh

Although a lead-zinc separation was achieved in this test, it was apparent that some improvement could be made, particularly in the lead circuit. One problem that was encountered was that oxidation of some minerals in the rock results in a very low pH after grinding. Even the addition of 3 lbs. per ton Na₂CO₃ was insufficient to keep the pH at an acceptable level when using Vancouver tap water. It is likely that if the water at the minesite has even moderate hardness, additions of soda ash significantly below those required in the testwork will be adequate.

TEST NO. 3

PROCEDURE

<u>Stage</u>	<u>Time (Minutes)</u>	<u>Additions</u>
Grinding	6	5 lbs per ton Na_2CO_3 0.3 lb. per ton NaCN 0.9 lb. per ton ZnSO_4
Condition	2	0.05 lb. per ton Z-11 0.20 lb. per ton DF 250
Lead Flotation	5	
Condition	5	1.5 lbs. per ton CuSO_4 Lime to pH = 10 0.05 lb. per ton Z-200 0.20 lb. per ton DF 250
Zinc Flotation	6	
Lead Cleaning	5	0.05 lb. per ton NaCN 0.10 lb. per ton ZnSO_4
Lead Recleaning	5	-
Zinc Cleaning	6	Lime to pH = 10.5
Zinc Recleaning	6	Lime to pH = 10.5

Flotation Feed = 34 % minus 200 mesh

RESULTS

Product	% Weight	% Lead	% Zinc	Oz/Ton Silver	Percent Recovery		
					Lead	Zinc	Silver
Lead Conc.	11.7	58.46	10.72	69.19	89.2	13.5	86.0
2nd Cl. Tail	1.0	33.26	11.90	42.26	4.3	1.3	4.5
1st Cl. Tail	2.2	11.33	11.73	16.32	3.3	2.8	3.8
Zinc Conc.	10.8	0.39	59.80	2.03	0.5	69.3	2.3
2nd Cl. Tail	1.8	0.95	28.43	3.80	0.2	5.5	0.7
1st Cl. Tail	4.4	0.75	8.14	2.32	0.4	3.8	1.1
Rougher Tail	68.1	0.23	0.53	0.22	2.0	3.9	1.6
Calc Head	100.0	7.67	9.32	9.42			

TEST NO. 4

PROCEDURE

<u>Stage</u>	<u>Time (Minutes)</u>	<u>Additions</u>
Grinding	6	5 lbs. per ton Na_2CO_3 0.4 lb. per ton NaCN 1.2 lb. per ton ZnSO_4
Conditioning	2	0.05 lb. per ton Z-11 0.05 lb. per ton SA 1012
Lead Flotation	5	-
Conditioning	5	1.5 lbs. per ton CuSO_4 Lime to pH = 10 0.05 lb. per ton Z-200 0.05 lb. per ton SA 1012
Zinc Flotation	5	-
Lead Cleaning	5	0.05 lb. per ton NaCN 0.10 lb. per ton ZnSO_4
Lead Recleaning	6	-
Zinc Cleaning	5	Lime to pH = 10.5
Zinc Recleaning	5	Lime to pH = 10.5

TEST NO. 4 - Cont'd

RESULTS

<u>Product</u>	<u>% Weight</u>	<u>% Lead</u>	<u>% Zinc</u>	<u>Oz./Ton Silver</u>	<u>Percent Recovery</u>		
					<u>Lead</u>	<u>Zinc</u>	<u>Silver</u>
Lead Conc.	11.9	59.49	8.76	73.65	94.5	11.1	89.9
2nd Cl. Tail	0.5	20.65	11.86	29.26	1.3	0.6	1.5
1st Cl. Tail	1.5	5.47	8.14	8.80	1.1	1.3	1.4
Zinc Conc.	12.9	0.44	59.22	2.06	0.8	81.0	2.7
2nd Cl. Tail	1.0	0.48	12.33	4.98	0.1	1.3	0.5
1st Cl. Tail	3.1	0.92	5.52	3.16	0.4	1.8	1.0
Rougher Tail	69.1	0.20	0.40	0.42	1.8	2.9	3.0
Head (Calc)	100.0	7.49	9.43	9.75			

APPENDIX "B"

DIAMOND DRILL LOGS

1973

1974

1976

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 154 - 188 greenish @ 55°								

DIAMOND DRILL RECORD

CLAIM NO.

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 ½" 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.,	2623	440	442.7	2.7'	.005	18	.40	1.00	.04
	py in qtz.								Cd.	.01
	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	.06
									Cd.	.01
445-459.5	Altered q. monz. lt. gray to lt. greenish gray									
		2551	447.5	452.5	5.0'			.10	.25	
459.5-460	459.5 - 460 Qtz. monzonite									
	460 END OF HOLE									

CLAIM NO. Tinta 2

DIAMOND DRILL RECORD

PROPERTY Tinta Hill Y.T.

HOLE NO. 73-3

EXETER MINES LTD (NPL)

LATITUDE 1 + 52 SW

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	Otz. 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. 1/4" @ 60° across lin'n. 111 patchy chlorite 123 > silic'n & alt'n. Ox'n on fr. planes 125.9 barren qtz. str. @ 56°								

CLAIM NO.

DIAMOND DRILL RECORD

PROPERTY

HOLE NO. 13-3

LATITUDE ELEVATION BEARING DEPTH STARTED COMPLETED

DEPARTURE SECTION DIP DRILLED BY LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS				
						Al	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")							Cd		.03
	171.4 - 173.2 - greenish gray < alt'n.									
	≈ 2% diss. sulph.									

CLAIM NO. _____ DIAMOND DRILL RECORD PROPERTY _____ HOLE NO. _____

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	<.01
	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 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 &	2609	204	207	3.0'			<.05	0.30
	moderate to heavy blebs and patches pyrite, sphalerite,	2608	207	209.5	2.5'	0.16	3.90	3.40	10.90
	galena & chalcopryrite ≈ 45% sulphides pyrite 35%					Cu.	1.00	Cd.	0.01
	sphalerite 35% galena 30% cpy 5%	2610	209.5	211.5	2.0'			.05	.10
	216 - 223 Less altered qtz. monzonite with hbl.; pink and	2612	211.5	216.5	5.0'			<.05	<.05
	gray feldspars	2613	216.5	223	5.5'			<.05	<.05
	223' END OF HOLE								

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. Sookocheff

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. 13-1

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					Cu	0.04	Cd.	0.001
	gray comprised mainly of feldspars w/ quartz and irregular	2601	214.5	219	4.5'	0.42	4.30	3.75	8.10
	chlorite					Cu	0.98	Cd.	0.05
	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/	2604	221	226	5.0'			<.05	<.05
	galena @ 52° 15% qtz. 70% sulphides	2605	226	231	5.0'			<.05	<.05
	214.7 - 215.6 Light to moderate diss. py & galena; discontin-	2606	231	236	5.0'			<.05	<.05
	uous stringers galena in brecciated and vuggy quartz; ox'd								
	pockets throughout.								
	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. _____

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 73-1

LATITUDE	ELEVATION	BEARING	DEPTH	STARTED	COMPLETED
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DEPARTURE SECTION DIP DRILLED BY LOGGED BY

[illegible]

CLAIM NO. TINTA 4**DIAMOND DRILL RECORD**PROPERTY EXETER MINES LTD
TINTA HILL Y.T.HOLE NO. 74-1LATITUDE 22 + 00E ELEVATION 3925 BEARING 032 DEPTH 276 STARTED July 11/74 COMPLETED July 13/74DEPARTURE 1 + 30S SECTION 22 + 00E DIP -45° DRILLED BY Arctic Diamond Drilling LOGGED BY L. Sookochoff

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
0-10	Casing								
10-30	Qtz. diorite - m.g.; trachytic @ 57°; mafics variably to chl.								
	10% qtz.; grayish white sub.feldspars; hem. on fr.								
	planes & rusty - gradational to								
30-80	Granodiorite: m.g. trachytic; 20% qtz. w/ pinkish K-fels								
	subhedral Xls 1/2"								
	65+ alt'n.								
	78.9 chlorite str. & veinlets @ 80°								
	fr. @ 43, 55, & 80°								
80-130	Qtz. diorite - moderate alteration; localized bleached								
	and friable.								
130-160	Granodiorite - as 30-80 locally bleached & variable								
	alteration (kaolinization of feldspars) hem. on fr.								
	planes & as str.								
160-257	Altered Zone - Variable alteration to complete breakdown of								
	fel: loc. gougy & granular sections.								
	Occ. diss. & blebs sphal. & gal.								
	Better min'n. @								

CLAIM NO.

DIAMOND DRILL RECORD

PROPERTY

HOLE NO. 74-1

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	Cu	Cd
	163.5 ½ str. @ 54° sph. & gal. & lt. py. cpy.	16601	163.5	166	2.5	.07	1.0	2.54	3.10	.06	.03
	overall 6" section of lt.-mod. sulphides	16602	166	170.8	4.8	.005	.02	.05	0.10	.02	.01
	- little qtz.	16603	170.8	178	7.2	.07	1.9	1.50	2.90	.09	.02
	171 2" irreg. qtz. w/ patches sph. gal. & cpy.										
	173 2" irreg. diss. veinlet of qtz. w/ patches	16604	178	182	4.0	.01	1.7	0.15	0.26	.02	.01
	sph. gal. diss. cpy. py.										
	174-176 variable qtz. @ 46° w/ mod. irregular blebs	16623	237	238.5	2.8	.005	.02	.20	.50	.01	
	diss., & patches sph. & gal.										
	176-178 Siliceous w/ thin str. & blebs sulphides	16624	226	229	3.0	.02	12.80	1.65	3.35	.21	
	198-205 Loc. qtz. veinlets w/ lt. blebs sul.										
	201 1.5" qtz. @ 32° w/ sph.										
	202 1" @ 50° blebs & disc. str.	16648	197	204	7.0	Tr	Tr	.20	.47	.01	
	207-239.8 Localized sec. diss. py.										
	207.5-211.5 Siliceous zone w/ lt. mod. gal.	16649	207	211.5	4.5	.02	.13	.67	.80	.01	
	sph., diss. py.										
	226-229 1.0' lt. patches cpy.										
	237-239 Qtz. @ 45° blebs, sph. & gal.										
	pockets py. & mag.										
257-276	Granodiorite - typical w/ lg. K-spar sub. Xls str. hem on fr.										
	planes 70-75° trachytic @ 52° ep. chl. & hem. thur matrix; minimal qtz.				276'	END OF HOLE					

CLAIM NO. TINTA #4

DIAMOND DRILL RECORD

PROPERTY TINTA HILL Y.T.

HOLE NO. 74-2

LATITUDE L25 +00E

ELEVATION 3914'

BEARING 032°

DEPTH 155'

STARTED July 10/74

COMPLETED July 11/74

DEPARTURE 1 + 25S

SECTION 25 + 00E

DIP -45°

DRILLED BY Arctic Diamond
Drilling

LOGGED BY T.R. Tough

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS					
						Au	Ag	Pb	Zn	Cu	Cd
0-7	Casing										
7-54	Quartz Diorite - m.g.; lt. alt'd.; trachytic; CI 20; rusty & hem. on fr, planes.										
	36 - 3" friable zone @ 45°; 38-44 friable										
	7-14 c.g. diorite										
54-64.5	Altered wall rock, granular gouge zone, sparsely disseminated sulphides, with occasional bands of galena, sphalerite, pyrite. 45° to C.A.										
	- bands of blue-black gouge 60'-61' @ 45° to C.A.										
64.5-72.5	Mineralization-extremely heavy 70% sulphides, very coarse	566	64.5'	72.5'	8.0'	.09	14.50	14.10	17.63	.18	.16
	galena, sphalerite, pyrite and chalcopyrite with finer	567	62	64.5	2.5	.005	.38	1.05	1.80	-	.01
	crystals. Sphalerite is a light amber - Contact 15° to	568	60	62	2.0	Tr	.12	.45	.75	.01	.01
	C.A. and partly obliterated.	569	55	60	5.0	Tr	Tr	.05	.05	.01	.01
		570	72.5	75	2.5	.005	.04	.25	.95	.01	.01
72.5-76	Altered wall rock and gouge, white with blue-black bands 50° to C.A. Chlorite stringers, minor sulphides.										
76-117	Quartz Diorite - Moderate alt'n to 95 - bleached										
	95-117 lt. alteration - mafics chlorite; hem. on fr.										
	pl. @ 32°, 70°										

CLAIM NO. _____

PROPERTY _____

HOLE NO. 74-2

LATITUDE **ELEVATION** **BEARING** **DEPTH** **STARTED** **COMPLETED**

DEPARTURE	SECTION	DIP	DRILLED BY	LOGGED BY
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EASTERN MINER PRESS LTD.
STANDARD FORM NO. 502

CLAIM NO. TINTA 2

DIAMOND DRILL RECORD

PROPERTY TINTA HILL

HOLE NO. 74-3

LATITUDE 5 + 00E

ELEVATION 3861

BEARING 212

DEPTH 173

STARTED July 13/74

COMPLETED July 14/74

DEPARTURE Baseline

SECTION 5 + 00E

DIP -45°

DRILLED BY Arctic Diamond
Drilling

LOGGED BY L. Sookochoff

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS					
						Au	Ag	Pb	Zn	Cu	Cd
0-12	Casing										
12-84	Granodiorite - m.g.; gray; hyp. gran. texture; trachytic; lt. hem. ep. thru matrix; large pink K-spar subhedral Xls 1"; localized bleached & rusty sections; occ. magnetite blebs; fr. @ 62° 80° 43-45 Broken & pebbly 48 ¼" myl. @ 80°										
84-122	Altered Zone - variable bleaching; kaolinization of feldspar; in greenish gray matrix; loc. gougy & granular sections.										
122-153.5	Mineralized zone - mineralization hosted in quartz or generally within altered zone; Sulphides @:	16605	122	125	3.0	.005	.04	.41	1.30	.03	.01
	122-125 Str. diss. blebs gal. sph.	16606	125	129	4.0	.13	1.90	.12	1.80	.85	.02
	125-129 Qtz. veinlets @ 35, 55°, 620 w/ mod.-heavy diss. blebs patches py., sph., cpy; rare gal.										
	129-142 Local granular sec. w/ 2" zones of heavy py. @ 133.5, 136, 138.	16607	129	133.5	4.5	.005	.02	.20	.70	.13	.01
	142 Disc. str. blebs sulphides	16608	133.5	138.5	5.0	.06	.50	.21	.73	.20	.01

CLAIM NO. _____

PROPERTY _____ HOLE NO. 74-3

LATITUDE	ELEVATION	BEARING	DEPTH	STARTED	COMPLETED
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DEPARTURE	SECTION	DIP	DRILLED BY	LOGGED BY
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[illegible]

CLAIM NO. TINTA 2

DIAMOND DRILL RECORD

PROPERTY _____ TINTA HILL

HOLE NO. 74-4

LATITUDE 2 + 00E

ELEVATION 3815

BEARING..... 212

DEPTH 148

STARTED July 14/74

COMPLETED July 14/74

DEPARTURE 0 + 20S

SECTION 2 + 00E

DIP.....-45°

DRILLED BY Arctic Diamond
Drilling

LOGGED BY L. Sookchohoff

[illegible]

CLAIM NO. TINTA 2

DIAMOND DRILL RECORD

PROPERTY TINTA HILL

HOLE NO. 74-5

LATITUDE 0 + 00 ELEVATION 3796 BEARING 212 DEPTH 151 STARTED July 15/74 COMPLETED

DEPARTURE 0 + 20S SECTION 0 + 00 DIP -45 DRILLED BY Arctic Diamond Drilling LOGGED BY L. Sookochoff

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS					
						Au	Ag	Pb	Zn	Cu	Cd
0-8	Casing										
8-80.5	Granodiorite - m.g.; 20% qtz.; subhedral gray fels. w/ large pink K-spar Xls 1", lt. chl. alt'n.; lt. trach. @ 44° Mafics mod. to chl.; fr. @ 55°-80° lt. chl. & rusty 47 chl. str. @ 25° 78.5-80.5 Monzonite - f.g. pinkish gray										
80.5-93	Quartz Diorite - typical										
93-96.5	Altered zone - Variable alt. - mod.-heavy; m.g. fels. - whitish to grayish white - subhedral w/ patchy lt. green chl. thru matrix Granular @ 96.5-97, 121-123.5										
96.5-127	Mineralized zone - 96.5 2" @ 45° si. zone w/ disc. str. & blebs py. cpy. ga. & sph. 123.5-125.5 Qtz. @ 45° w/ mod. py. lt.cpy. 125.5-127 Siliceous zone diss. & blebs py. Thin str. gal.	16622 16615 16613 16614	95.5 120 122 127	97.5 122 127 129.5	2.0 2.0 5.0 2.5	.02 .005 .02 .005	.03 .04 .39 .04	.08 .05 .13 .39	.15 .42 .15 .89	.03 .02 .69 .05	- .01 .01 .01

DDH # 60-2

Location: L16+20E 1+10S

Depth: 200'

Intersection: 150 to 157.6' = 7.6'

True Width

5.4'

Assay

0.078 oz Au/ton; 5.19 oz Ag/ton;

3.25% Pb, 5.01% Zn, 0.49% Cu, 0.02% Cd.

DDH # 60-3

Location: L20+00E 1+25S

Depth: 277'

Intersection: 179.5' to 190.5' - 11.0'

True Width

7.5'

Assay

0.039 oz Au/ton; 1.64 oz Ag/ton;

1.76% Pb; 2.76% Zn; 0.08% Cu; 0.01% Cd.

DDH # 60-4

Location: L8+00E 1+70S

Depth: 229'

Intersection: 84' to 95.2' = 11.2'

True Width

7.9'

Assay

0.039 oz Au/ton; 0.98 oz Ag/ton;

1.12% Pb; 6.02% Zn; 0.42% Cu; 0.05% Cd.

DDH #60-4 (continued)

Intersection: 161.0' to 169.0' = 8.0'

True Width

Assay

5.7'

0.182 oz Au/ton; 2.81 oz Ag/ton;

1.17% Pb, 2.57% Zn; 0.77% Cu; 0.03% Cd.

DDH #60-5

Location: L7+00E 3+30S

Depth: 432'

Intersection: 242' to 247' = 5.0'

True Width

Assay

3.5'

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'

True Width

Assay

4.9'

0.065 oz Au/ton; 5.89 oz Ag/ton;

4.85% Pb; 3.25% Zn; 0.38% Cu; 0.01% Cd.

DIAMOND DRILLING (1973)

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° and an azimuth of 032° .

DDH #73-1

Location: L13+80E 1+70S
Depth: 236'
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
0.292 oz Au/ton; 3.00 oz Ag/ton; 2.70% Pb;
5.96% Zn; 0.62% Cu; 0.04% Cd.

DDH #73-2

Location: L11+80E 1+60S
Depth: 223'
Intersection: 204-209.5

DDH # 73-2 (continued)

<u>True Width</u>	<u>Assay</u>
3.9'	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+00E 1+52W
Depth: 202.3'
Intersection: 169 - 174.7' = 5.7'

Assay
0.03 oz/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; 0.11oz Ag/ton; 0.25% Pb;
0.55% Zn; 0.03% Cu; 0.01% Cd.

<u>True Width</u>	<u>Assay</u>
5.4'	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

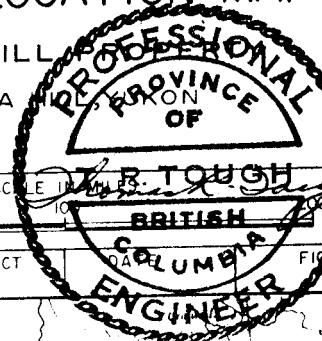
Location: L14+20E 2+80W
Depth: 460'
Intersection: 442.7 - 445 = 2.3'

T.R. TOUGH & ASSOCIATES LTD.

YUKON LOCATION MAP

TINTA HILL

TINTA



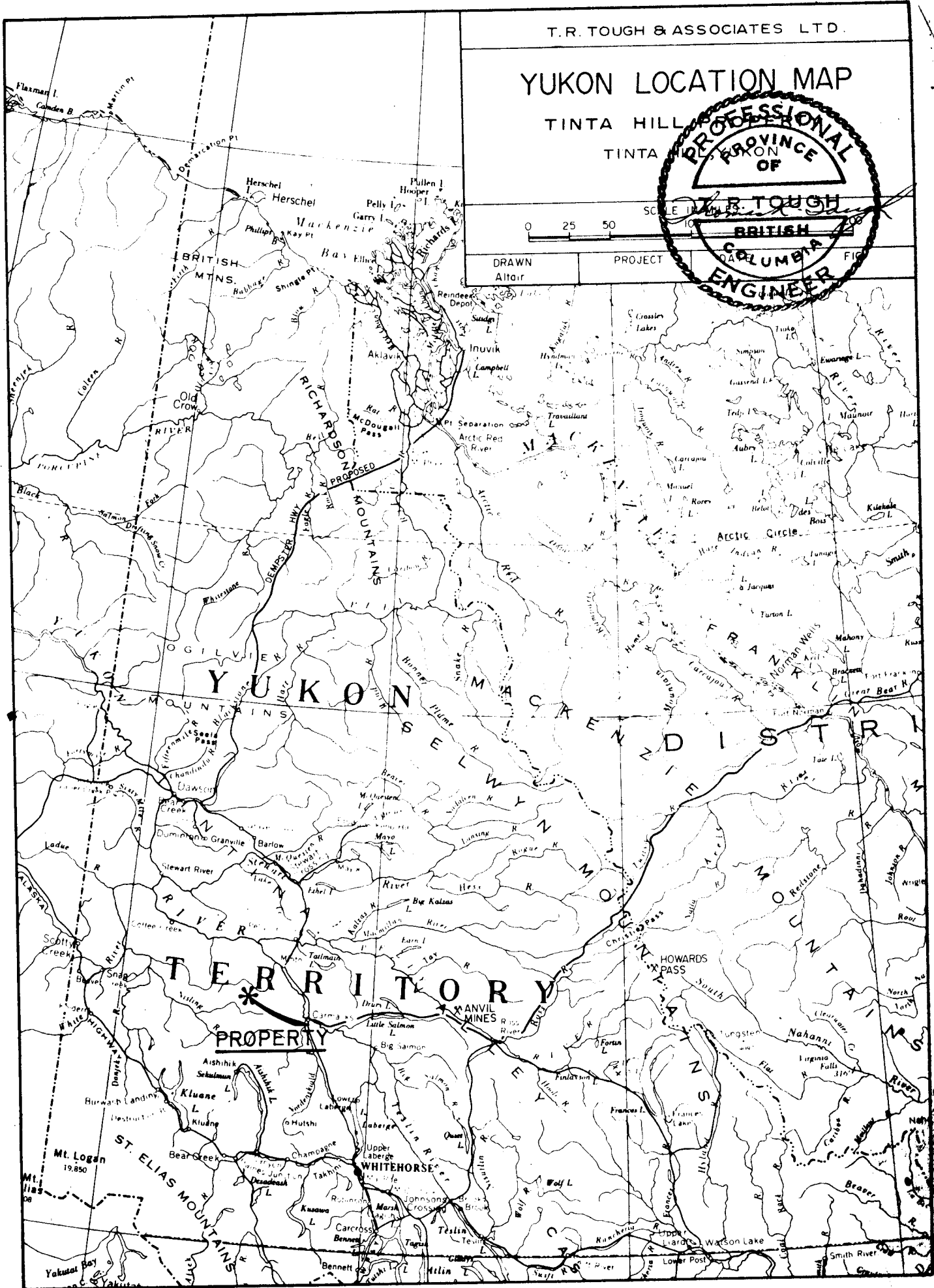
SCALE IN MILES

0 25 50

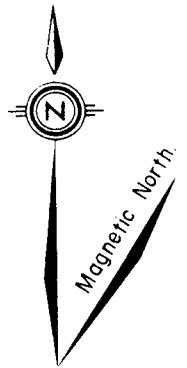
DRAWN
Altair

PROJECT

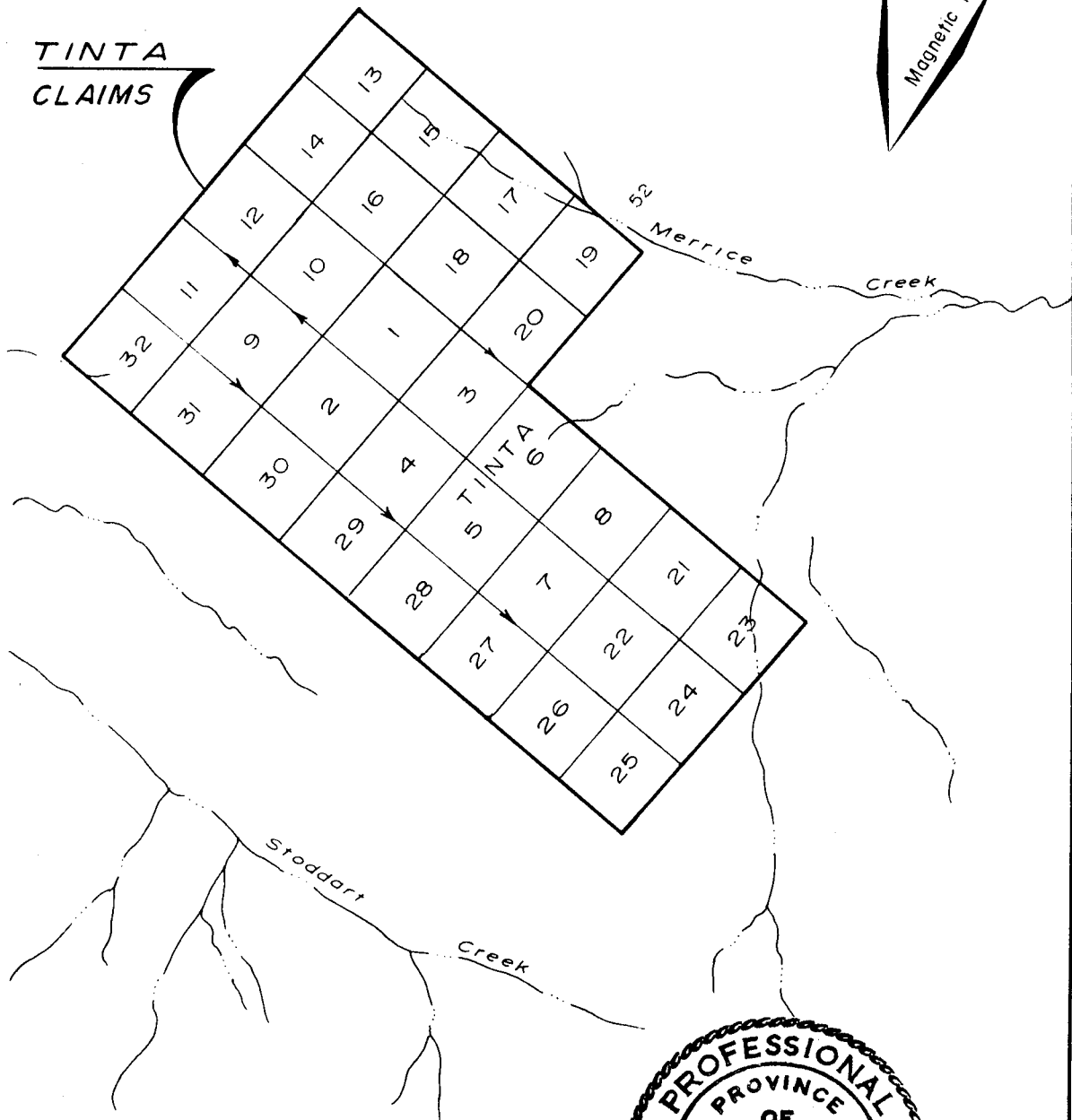
FIG.



△ 4663



TINTA
CLAIMS



62° 15'

137° 00'



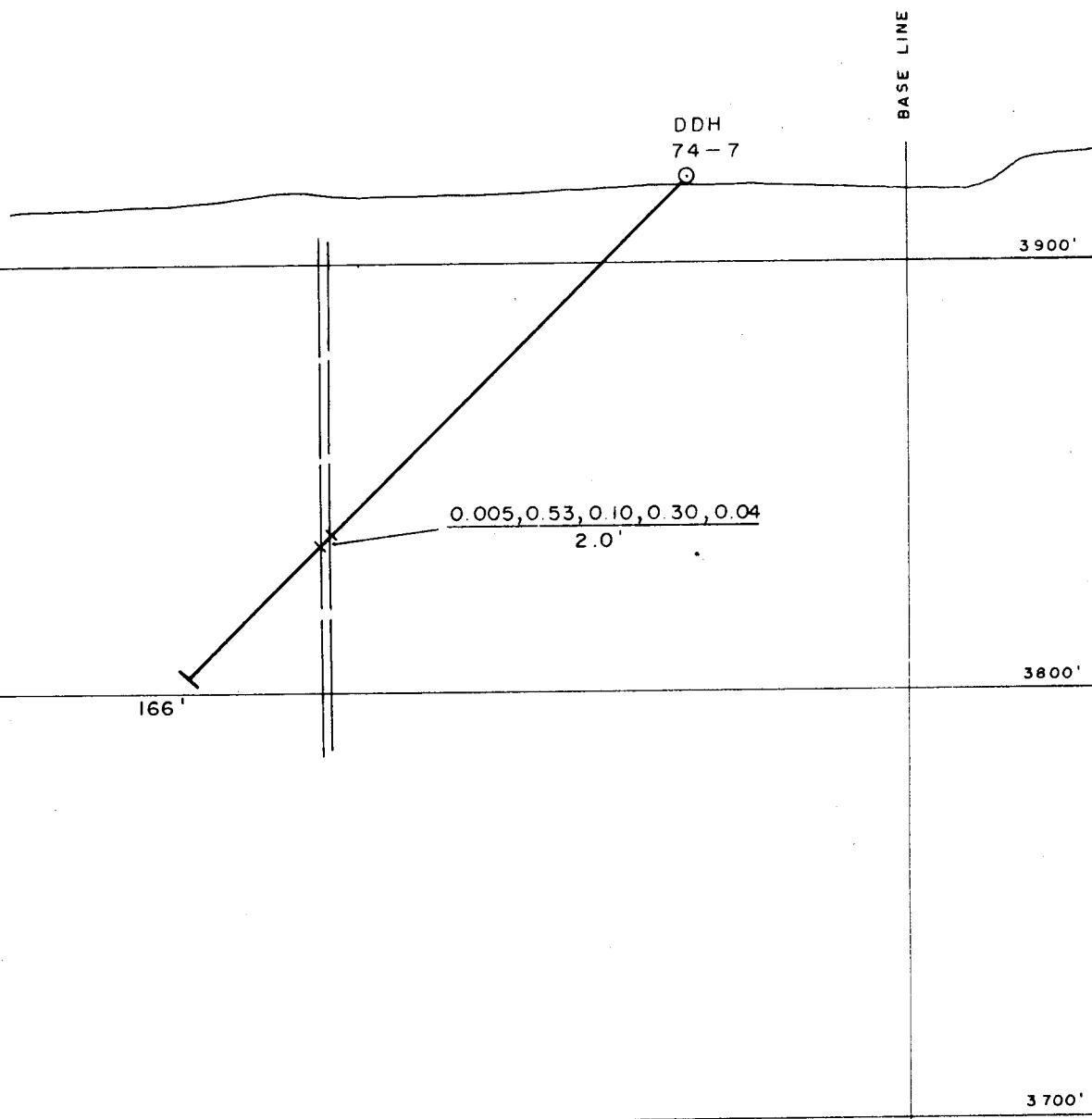
T.R. TOUGH & ASSOCIATES LTD.

TINTA HILL PROPERTY CLAIM MAP

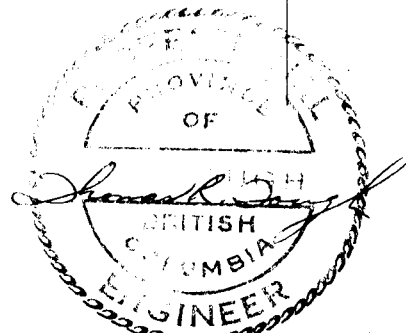
TINTA HILL, YUKON
SCALE

FEET 3000 1500 0 3000 FEET

SEPT. 1974



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



TINTA HILL PROPERTY
 SECTION 10+00W

LOOKING NORTH WEST
 TINTA HILL, YUKON

SCALE
 0
 FEET 40 40 FEET
 Sept. 1974

BASELINE

3900'

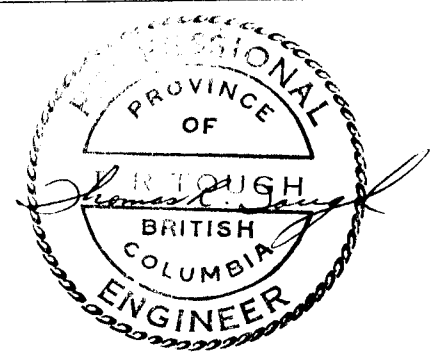
3800'

3700'

DDH
74-6

0.02, 1.06, 0.10, <.05, 0.05
1.8'

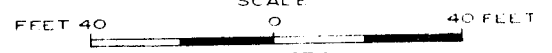
173'



TINTA HILL PROPERTY
SECTION 5+00W

LOOKING NORTH WEST
TINTA HILL, YUKON

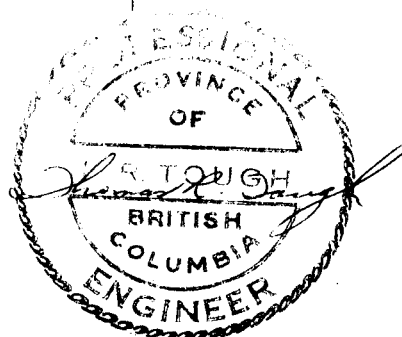
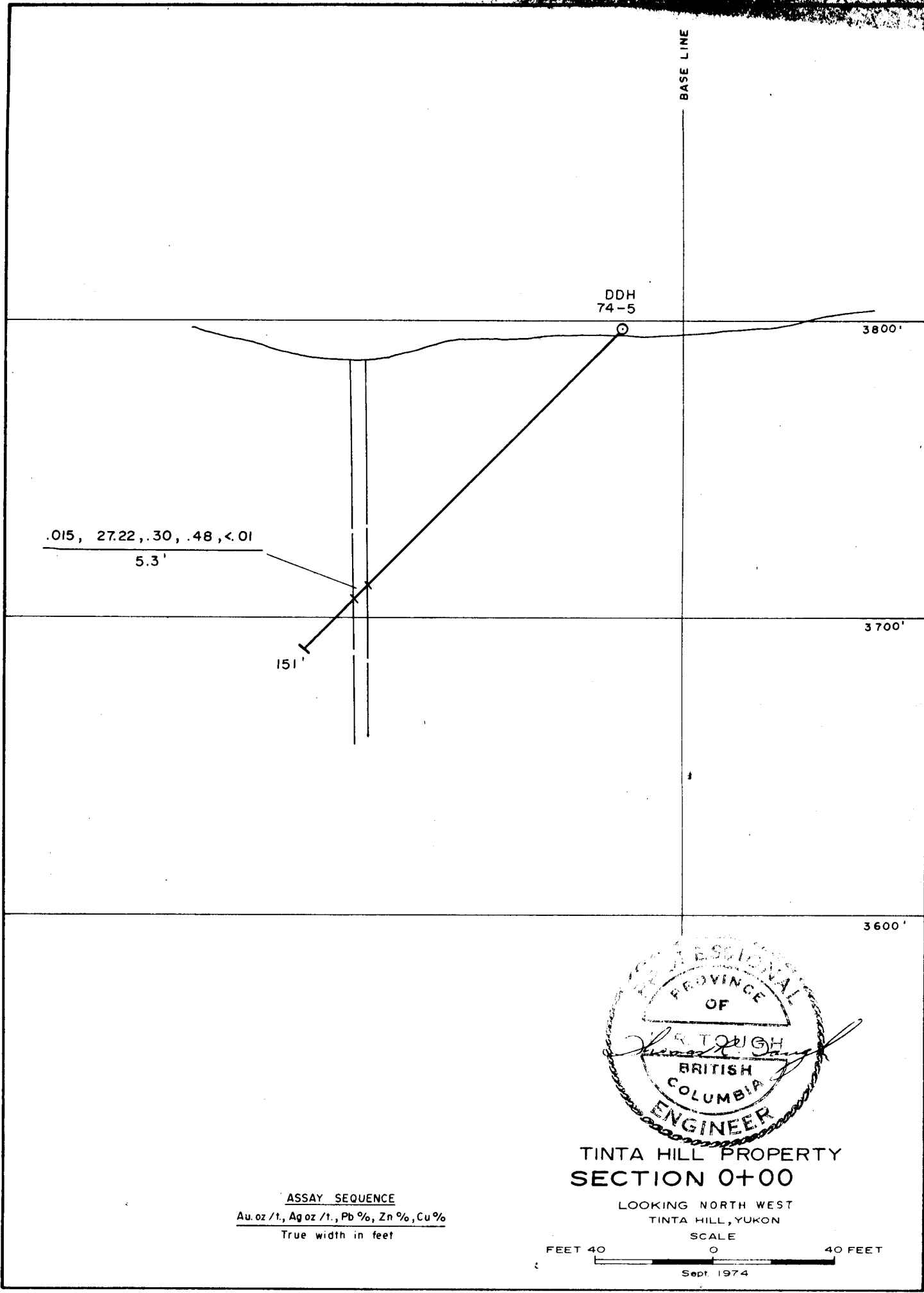
SCALE



Sept. 1974

ASSAY SEQUENCE

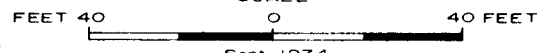
Au oz/t, Ag oz/t, Pb %, Zn %, Cu %
True width in feet



TINTA HILL PROPERTY
SECTION 0+00

LOOKING NORTH WEST
TINTA HILL, YUKON

SCALE

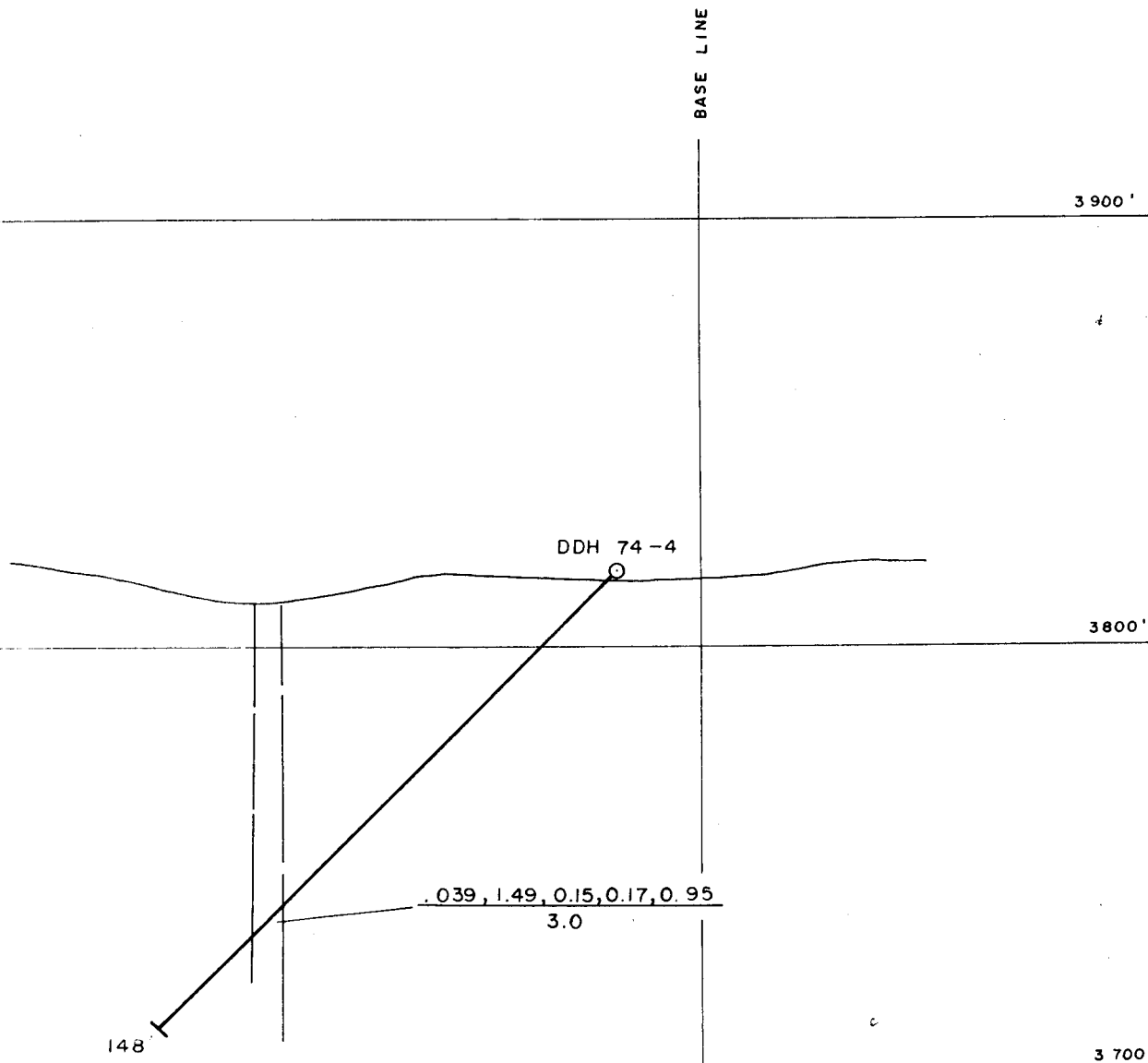


Sept. 1974

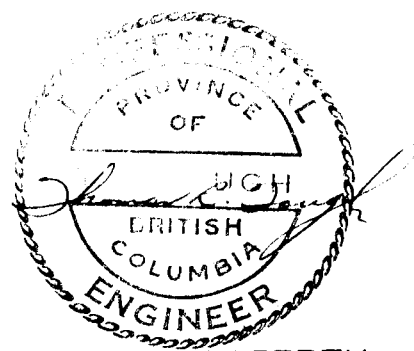
ASSAY SEQUENCE

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

True width in feet

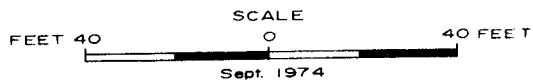


ASSAY SEQUENCE
 Au oz / t, Ag oz / t, Pb %, Zn %, Cu %
 True width in feet



TINTA HILL PROPERTY
 SECTION 2 + 00E

LOOKING NORTH WEST
 TINTA HILL, YUKON



BASE LINE

3900'

DDH
74-3

3800'

0.061, 2.08, 0.26, 0.72, 0.53, .01
12.5'

0.076, 1.10, 0.24, 1.59, 0.50, .024
5.0'

173'

3700'

Thomas L. Jough

TINTA HILL PROPERTY
SECTION 5+00E

LOOKING NORTH WEST
TINTA HILL, YUKON

SCALE

FEET 40 0 40 FEET

Sept 1974

ASSAY SEQUENCE

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

True width in feet

3900

3800'

3700'

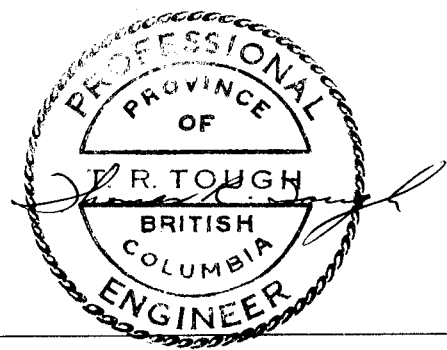
3600'

3500'

DDH 5

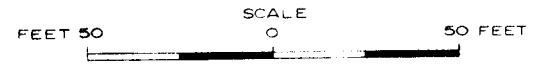
0.005, .18, 1.10, 1.70, .01
3.5'

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



TR. TOUGH & ASSOCIATES LTD.
TINTA HILL PROPERTY
SECTION 7+00 E.

LOOKING SOUTH-EAST
TINTA HILL, YUKON



Jan. 1974

ASSAY SEQUENCE

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

True Width in Feet

BASELINE

4000

3900

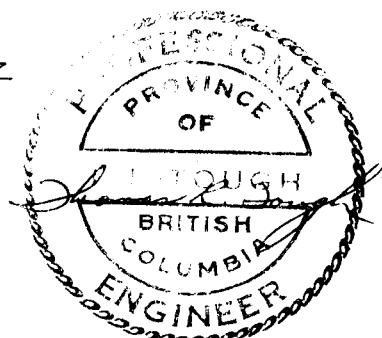
3800

DDH 4

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

0.182, 2.81, 1.17, 2.57, 0.77
5.7'

229'



TINTA HILL PROPERTY
SECTION 8+00 E.

LOOKING SOUTH EAST
TINTA HILL, YUKON

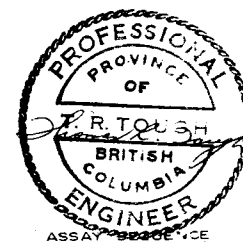
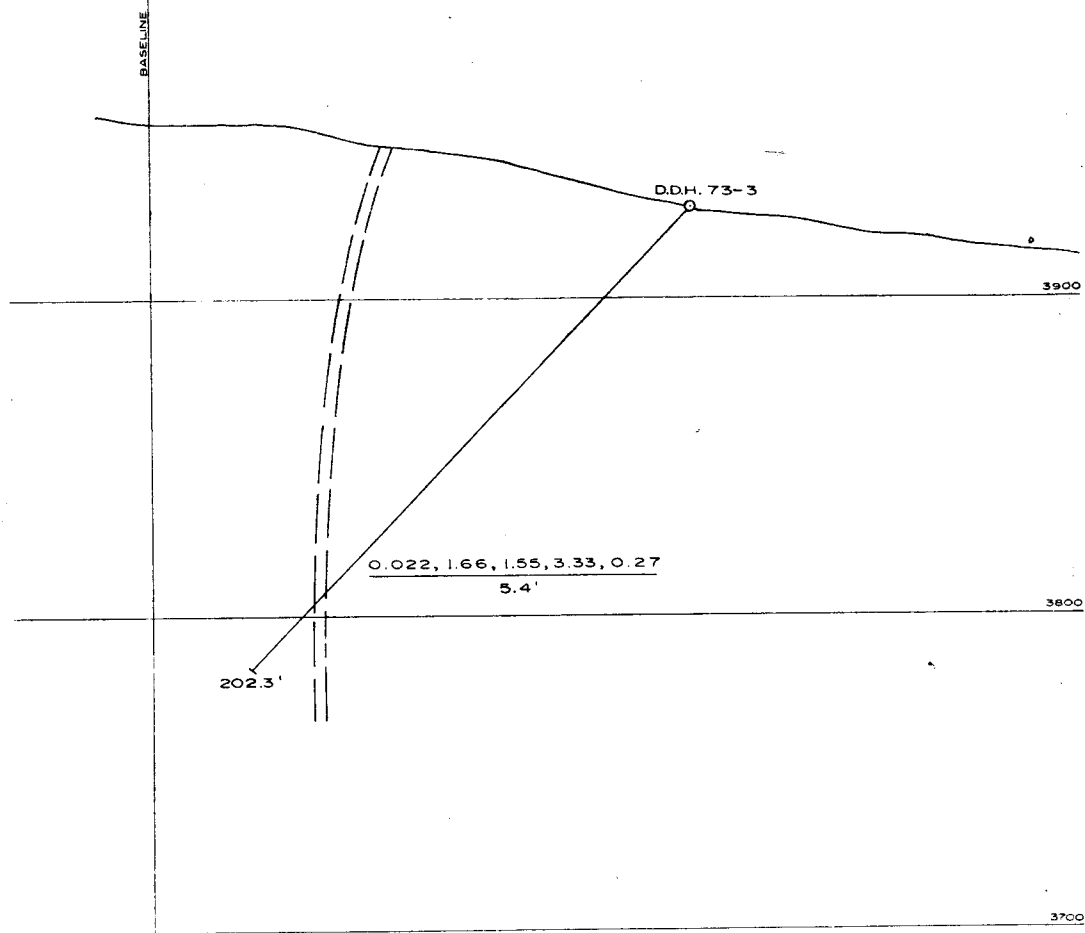
SCALE

FEET 40 0 40 FEET

Sept. 1974

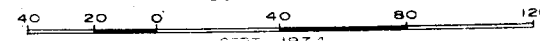
ASSAY SEQUENCE

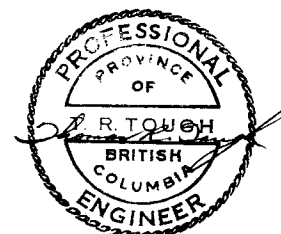
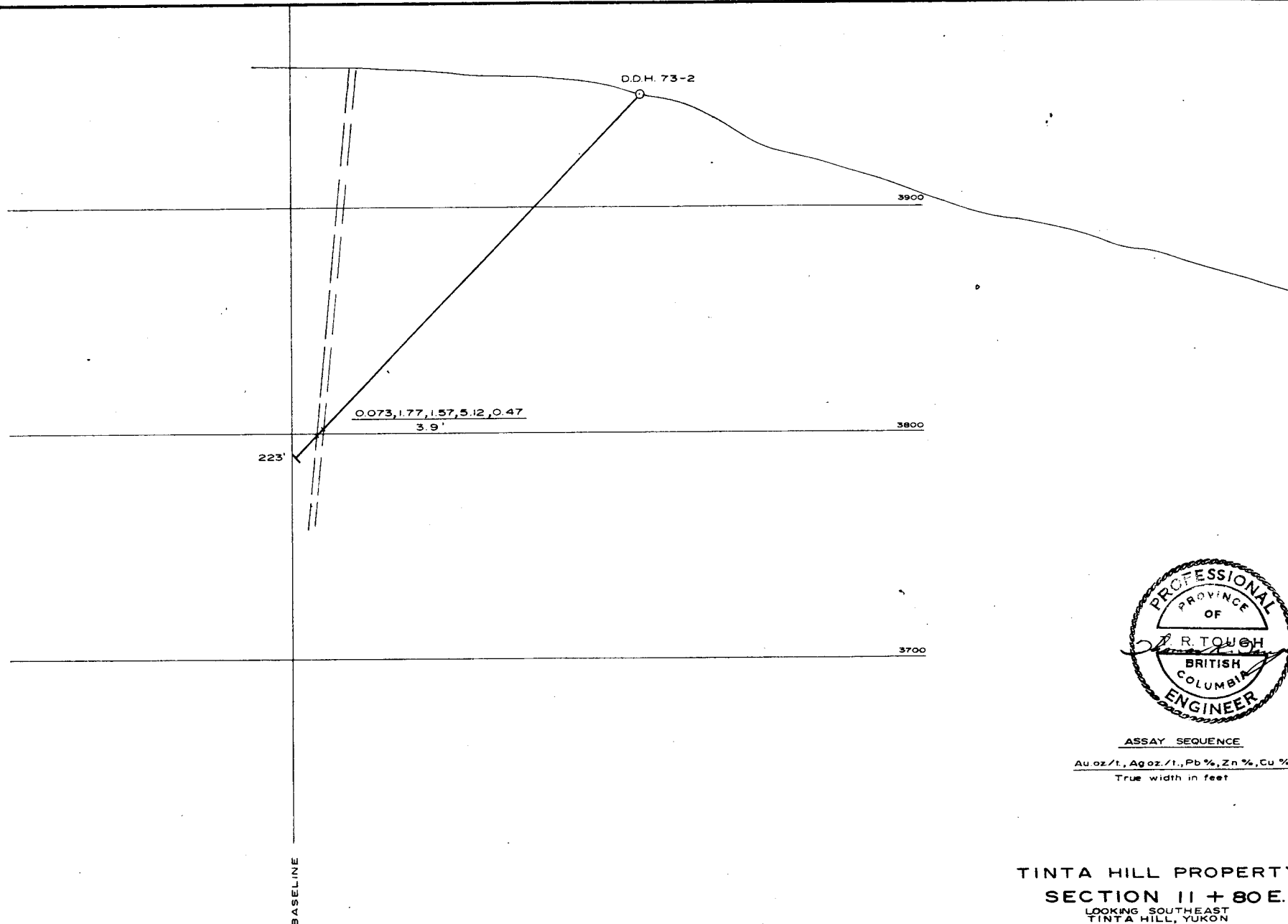
Au. oz / t., Ag oz / t., Pb %, Zn %, Cu %
True width in feet



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

TINTA HILL PROPERTY
SECTION 10 + 00E
LOOKING SOUTHEAST
TINTA HILL, YUKON
SCALE IN FEET





ASSAY SEQUENCE

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

TINTA HILL PROPERTY
SECTION 11 + 80 E.

LOOKING SOUTHEAST
TINTA HILL, YUKON

SCALE IN FEET

40 20 0 40 80 120

SEPT., 1974

BASELINE

4000'

3900'

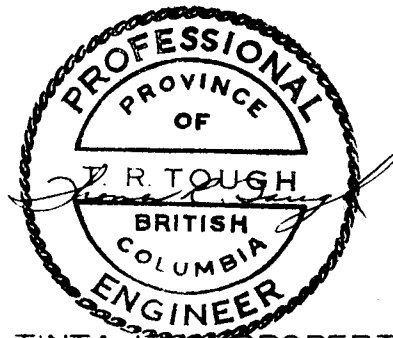
3800'

D.D.H. 73-1

0.292, 3.00, 2.70, 5.96, 0.67

4.6'

236'



TINTA HILL PROPERTY
SECTION 13+60 E.

LOOKING SOUTH-EAST
TINTA HILL, YUKON

SCALE

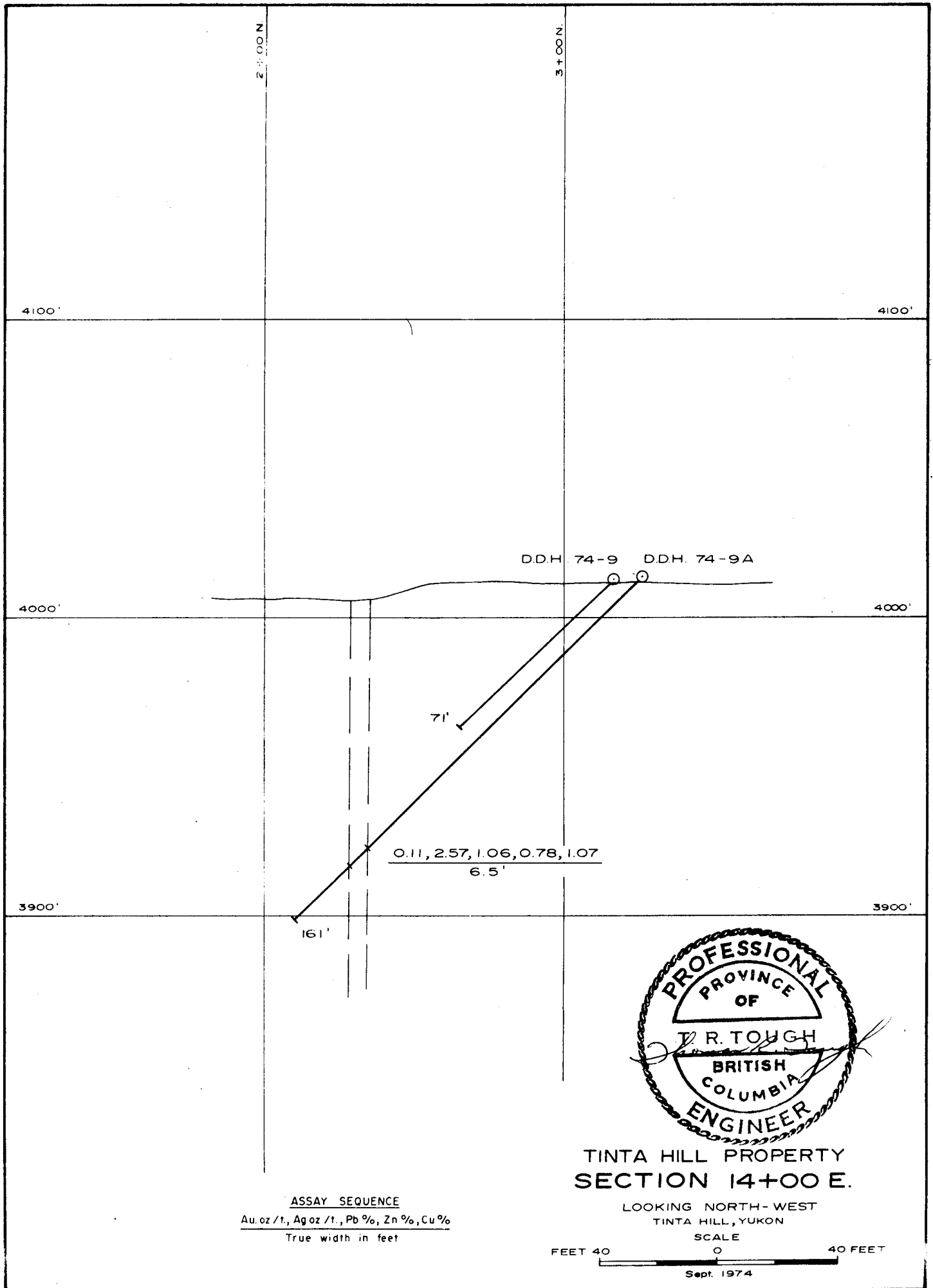
FEET 40 0 40 FEET

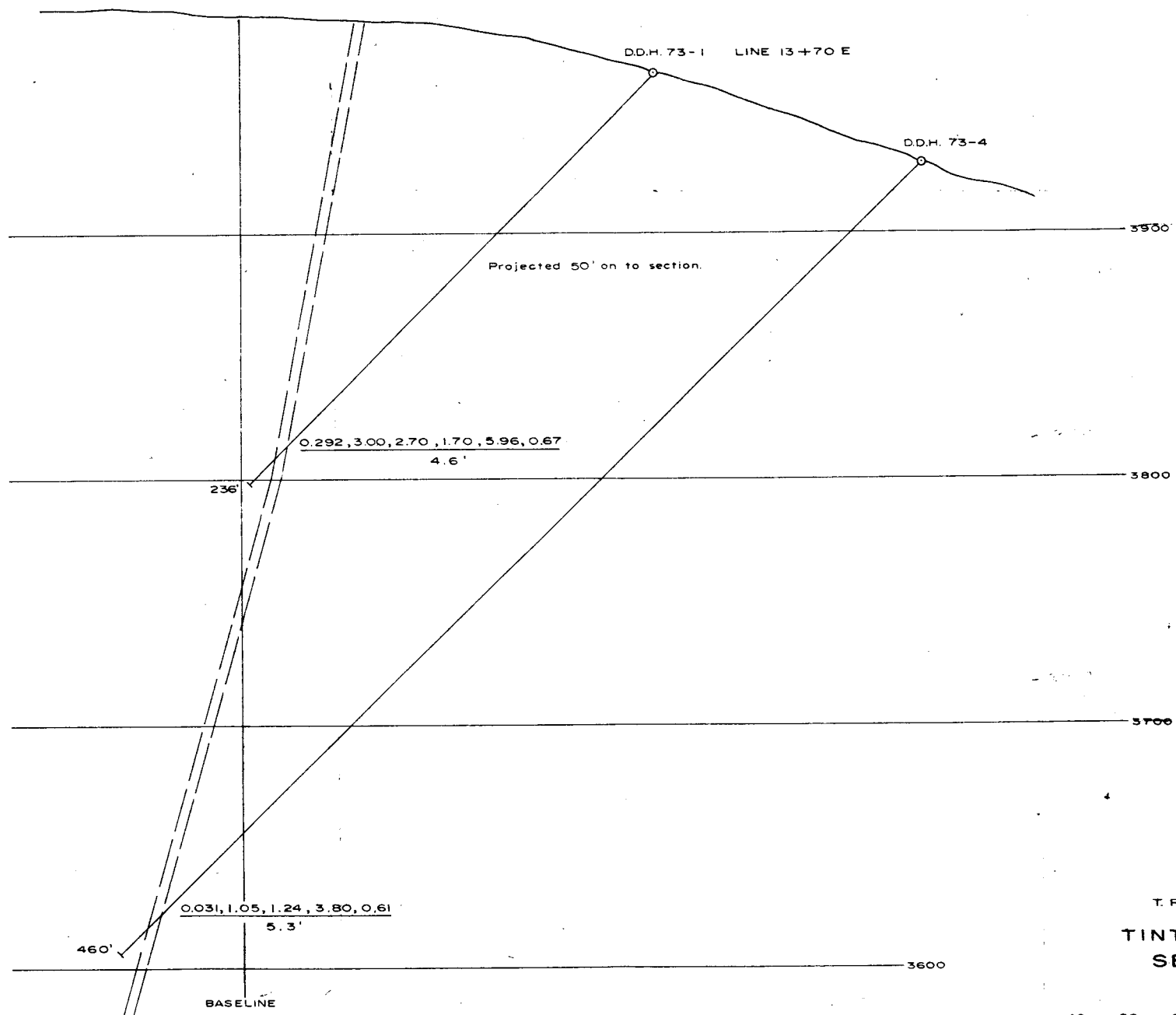
Sept 1974

ASSAY SEQUENCE

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

True width in feet





ASSAY SEQUENCE

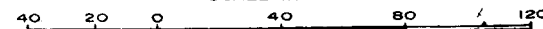
Au oz./t, Ag oz./t, Pb %, Zn %, Cu %
True width in feet

T. R. TOUGH & ASSOCIATES LTD

TINTA HILL PROPERTY
SECTION 14+20E.

LOOKING SOUTHEAST
TINTA HILL, YUKON

SCALE IN FEET



JAN, 1974

BASELINE

D.D.H. 74-10

Trench

4000'

4000'

0.134, 9.53, 3.49, 2.15, 1.07, 0.02
6.4'

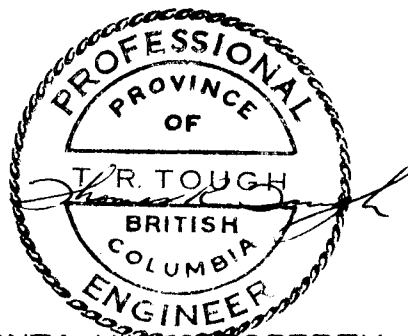
3900'

3900'

3800'

3800'

421'



TINTA HILL PROPERTY
SECTION 16+00 E.

LOOKING NORTH WEST
TINTA HILL, YUKON

SCALE

FEET 40 0 40 FEET

Sept. 1974

ASSAY SEQUENCE

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

True width in feet

BASELINE

4000

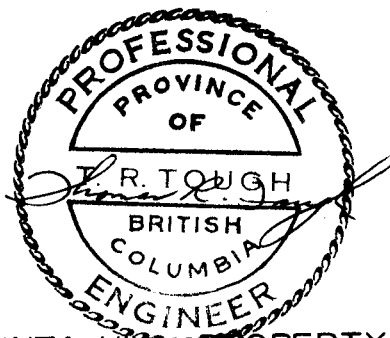
3900

3800

D.D.H. No. 2

0.076, 5.19, 3.25, 5.01, 0.49
5.4'

100.5'



TINTA HILL PROPERTY
SECTION 16+20 E.

LOOKING SOUTH-EAST
TINTA HILL, YUKON

SCALE

FEET 40 0 40 FEET

Sept. 1974

ASSAY SEQUENCE

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

True width in feet

4100

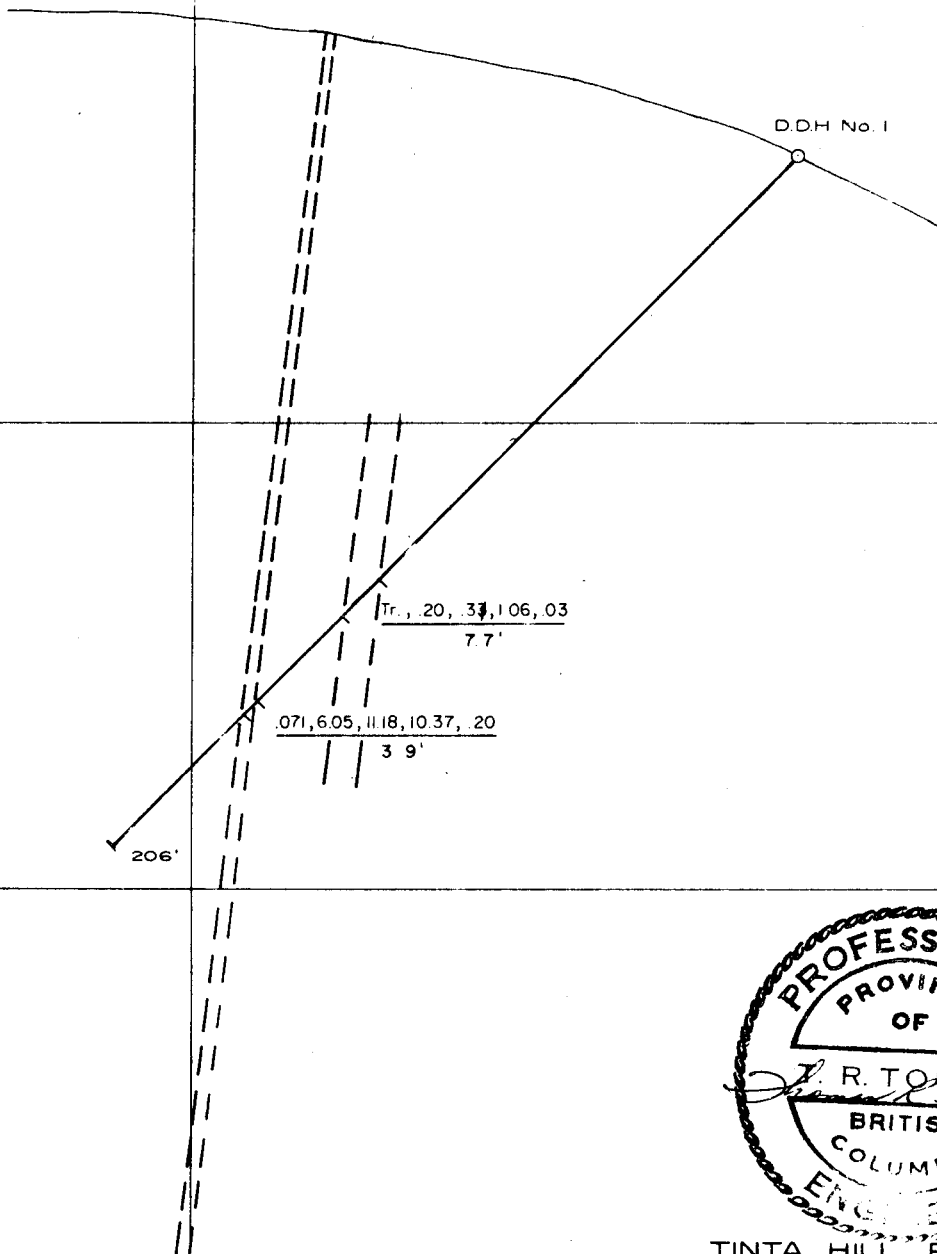
BASELINE

4000

3900

3800

3700



D.D.H. No. 1

Tr. 20, 33, 106, 03
7.7'

071, 605, 1118, 1037, 20
39'

206'

ASSAY SEQUENCE

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

True Width in Feet



TINTA HILL PROPERTY
SECTION 18+30 E.

LOOKING SOUTH-EAST

TINTA HILL, YUKON

SCALE

FEET 40

40 FEET

SEPT. 1974

4100'

BASELINE

4000'

3900'

3800'

3700'

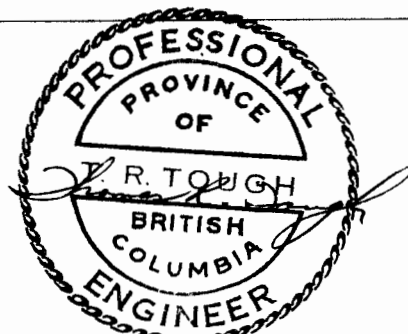
D.D.H. 3

039,164,176,276,08
7.5'

277'

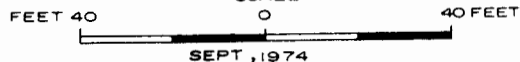
ASSAY SEQUENCE

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



TINTA HILL PROPERTY
SECTION 20+00 E.

LOOKING SOUTH-EAST
TINTA HILL, YUKON
SCALE



BASELINE

4000'

4000'

3900'

3900'

3800'

3800'

DDH. 74-1

0.07, 1.90, 1.50, 2.90, 0.09, 0.02

5.1'

276'

ASSAY SEQUENCE

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

True width in feet

Thomas R. Jough

TINTA HILL PROPERTY
SECTION 22+00E.

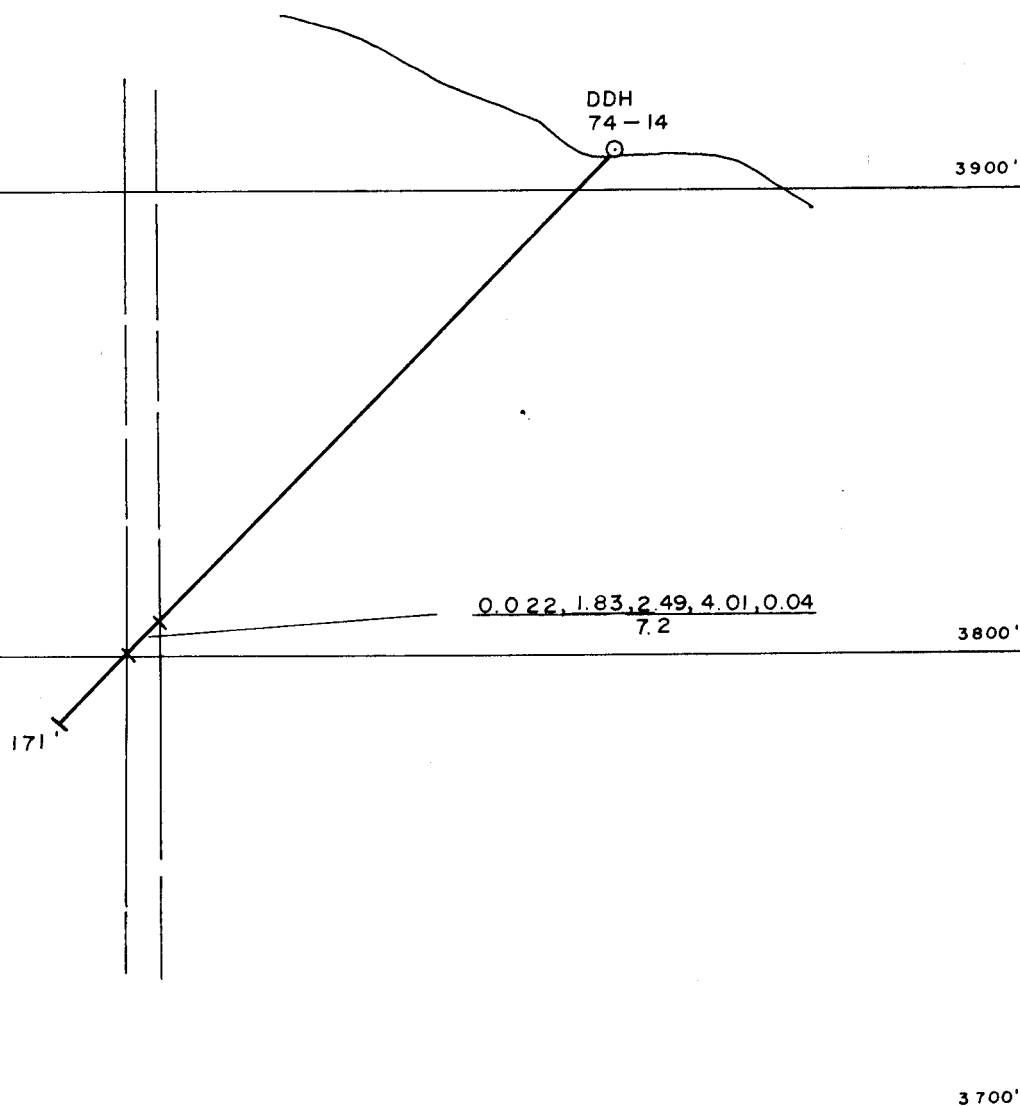
LOOKING SOUTH-EAST
TINTA HILL, YUKON

SCALE

FEET 40 0 40 FEET

Sept. 1974

BASE LINE



TINTA HILL PROPERTY
SECTION 23+40E

LOOKING SOUTH EAST
TINTA HILL, YUKON

SCALE

FEET 40 0 40 FEET

Sept. 1974

ASSAY SEQUENCE

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

True width in feet

BASE LINE

DDH 74-12
(projected to section)

39 00'

0.08, 10.80, 11.25, 21.30, 0.20, 0.19

8.1

38 00'

37 00'

Thomas R. Jaugh

TINTA HILL PROPERTY
SECTION 24+50E

LOOKING SOUTH EAST
TINTA HILL, YUKON

SCALE

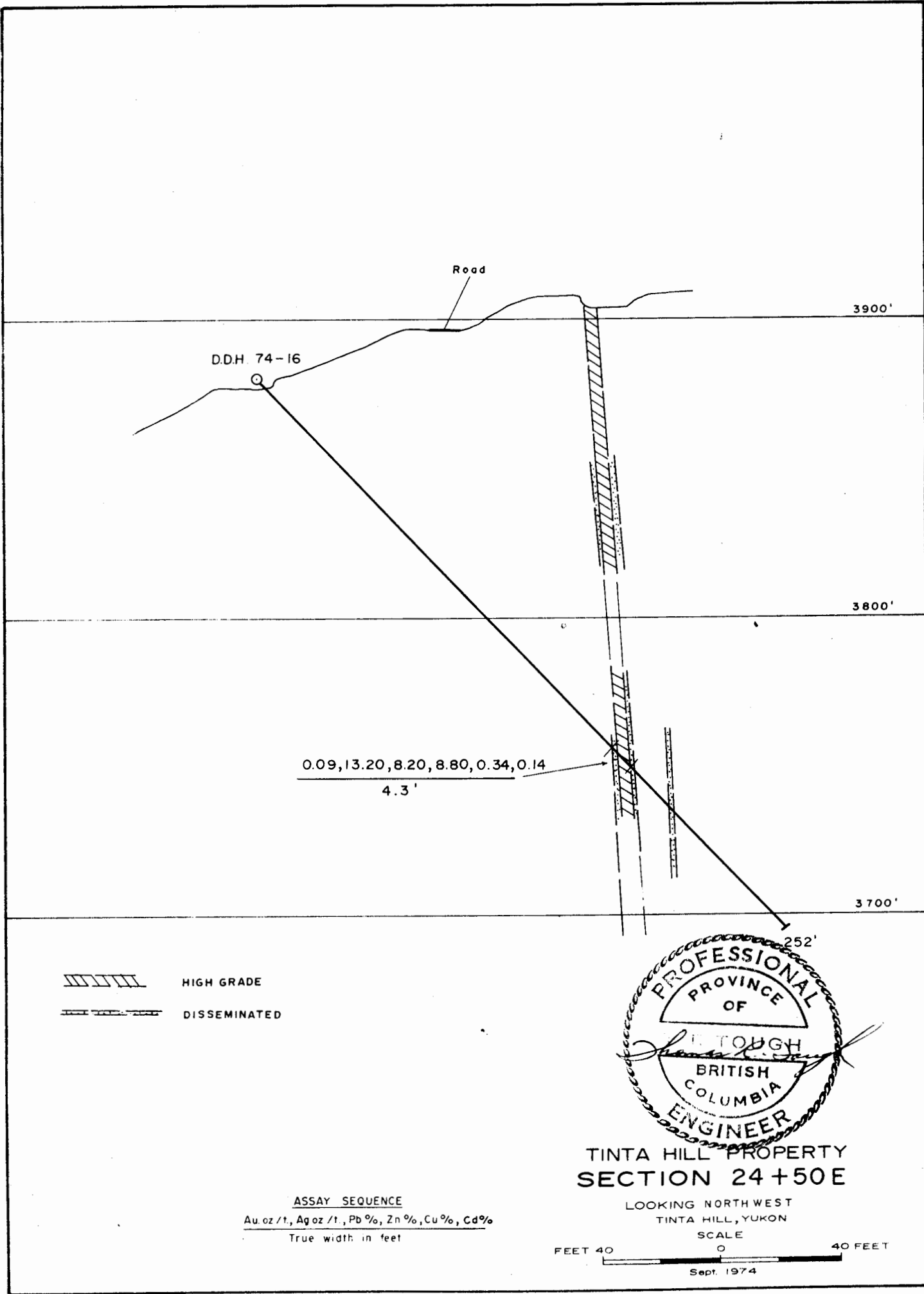
FEET 40 0 40 FEET

Sept. 1974

ASSAY SEQUENCE

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

True width in feet



D.D.H. 74-16

Road

3900'

3800'

3700'

0.09, 13.20, 8.20, 8.80, 0.34, 0.14

4.3'

252'



HIGH GRADE

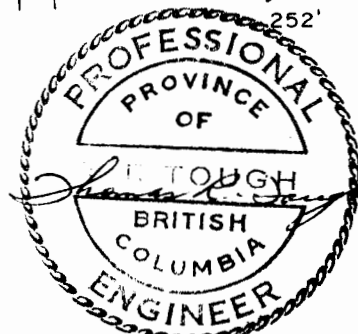


DISSEMINATED

ASSAY SEQUENCE

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

True width in feet



TINTA HILL PROPERTY
SECTION 24+50E

LOOKING NORTHWEST

TINTA HILL, YUKON

SCALE

FEET 40

40 FEET

Sept. 1974

BASE LINE

4 000'

3 900'

3 800'

DDH 74-2

.09, 14.50, 14.10, 17.63, 0.18, 0.16
5.7'

155'

Thomas R. Dwyer

TINTA HILL PROPERTY
SECTION 25+00E

LOOKING SOUTH EAST
TINTA HILL, YUKON

SCALE

FEET 40 0 40 FEET

Sept. 1974

ASSAY SEQUENCE

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

True width in feet

BASELINE

4000

4000

3900

3900

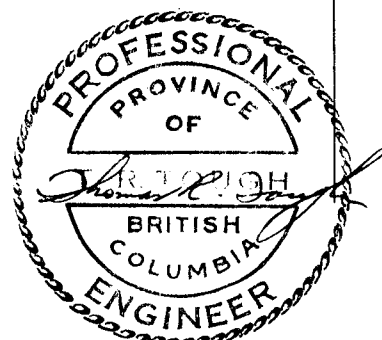
3800

3800

D.D.H. 74-13

0.015, 1.45, 0.62, 1.63, 0.04
4.0'

149'



TINTA HILL PROPERTY
SECTION 25+00E.

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

LOOKING NORTH
TINTA HILL, YUKON
SCALE

FEET 40 0 40 FEET

Sept. 1974

BASE LINE

3900'

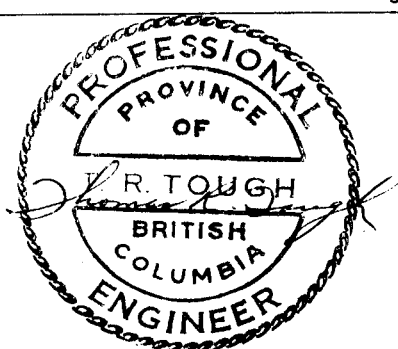
DDH 74-11

0.02, 1.40, 1.15, 2.00, 0.03
2.5

3800'

220'

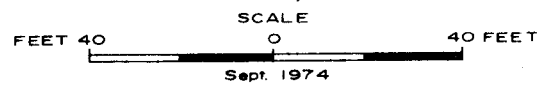
3700'



TINTA HILL PROPERTY
SECTION 27+00E

LOOKING SOUTH EAST
TINTA HILL, YUKON

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



3800'

DDH 74-18

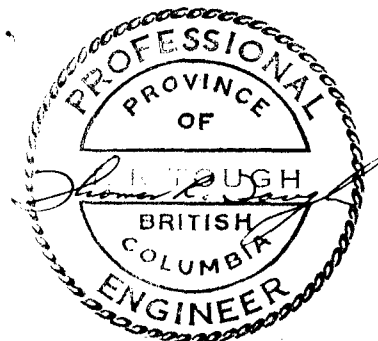
3700'

.06, 1.50, 3.12, 3.88, 0.10, 0.03
1.7

.03, 7.00, 6.18, 5.80, 0.12
2.8

221'

3600'



TINTA HILL PROPERTY
SECTION 30+00E

LOOKING NORTH 348°
TINTA HILL, YUKON

SCALE

FEET 40 0 40 FEET

Sept. 1974

ASSAY SEQUENCE

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

True width in feet

BASE LINE

40'

DDH 74-17

3 800'

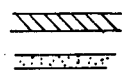
3 700'

0.10, 20.30, 23.03, 13.00, 0.23, 0.11

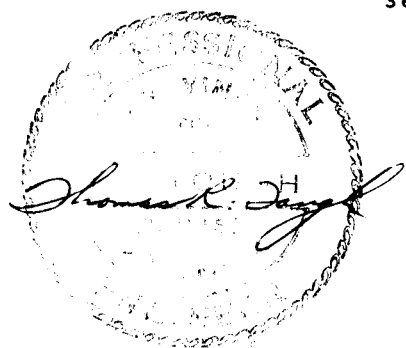
5.7

163.5'

3 600'



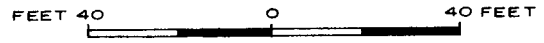
HIGH GRADE
DISSEMINATED



TINTA HILL PROPERTY
SECTION 30+00E

LOOKING NORTH WEST
TINTA HILL, YUKON

SCALE



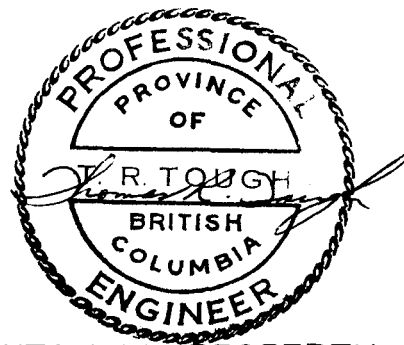
Sept. 1974

ASSAY SEQUENCE

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

229'

DDH 74-15



TINTA HILL PROPERTY
SECTION 35+00E

LOOKING NORTH WEST
TINTA HILL, YUKON

SCALE

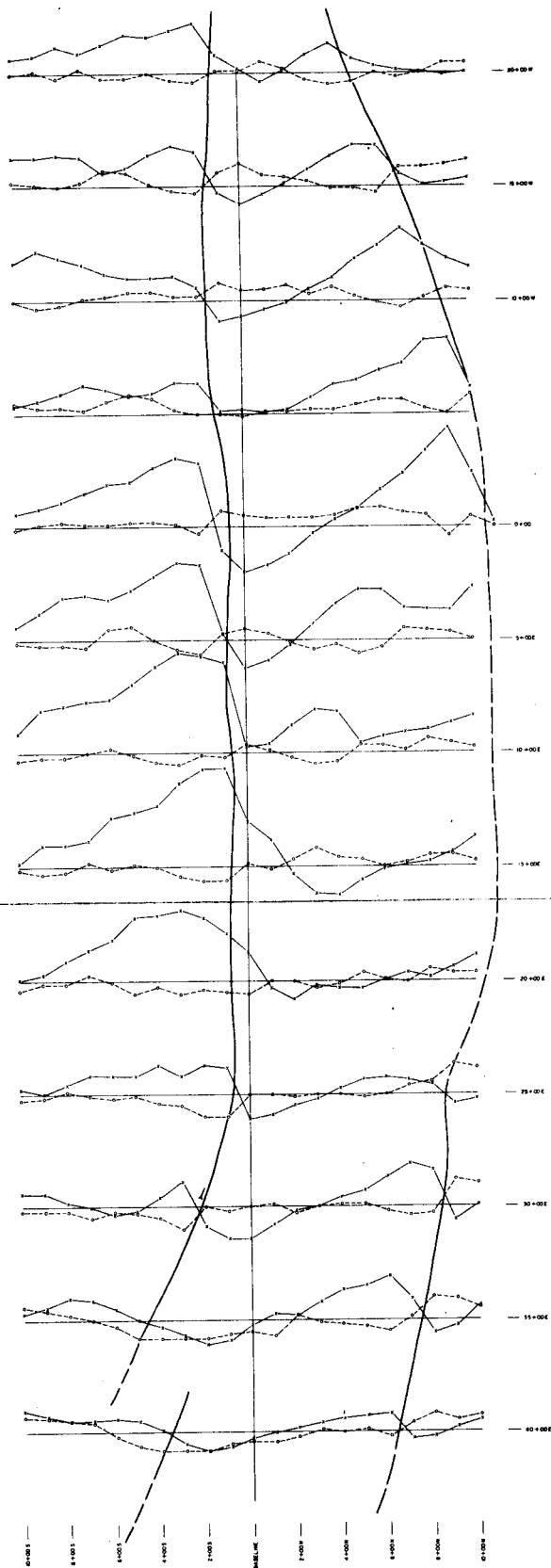
FEET 40 0 40 FEET

Sept. 1974

ASSAY SEQUENCE

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

True width in feet

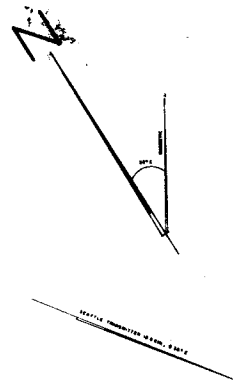
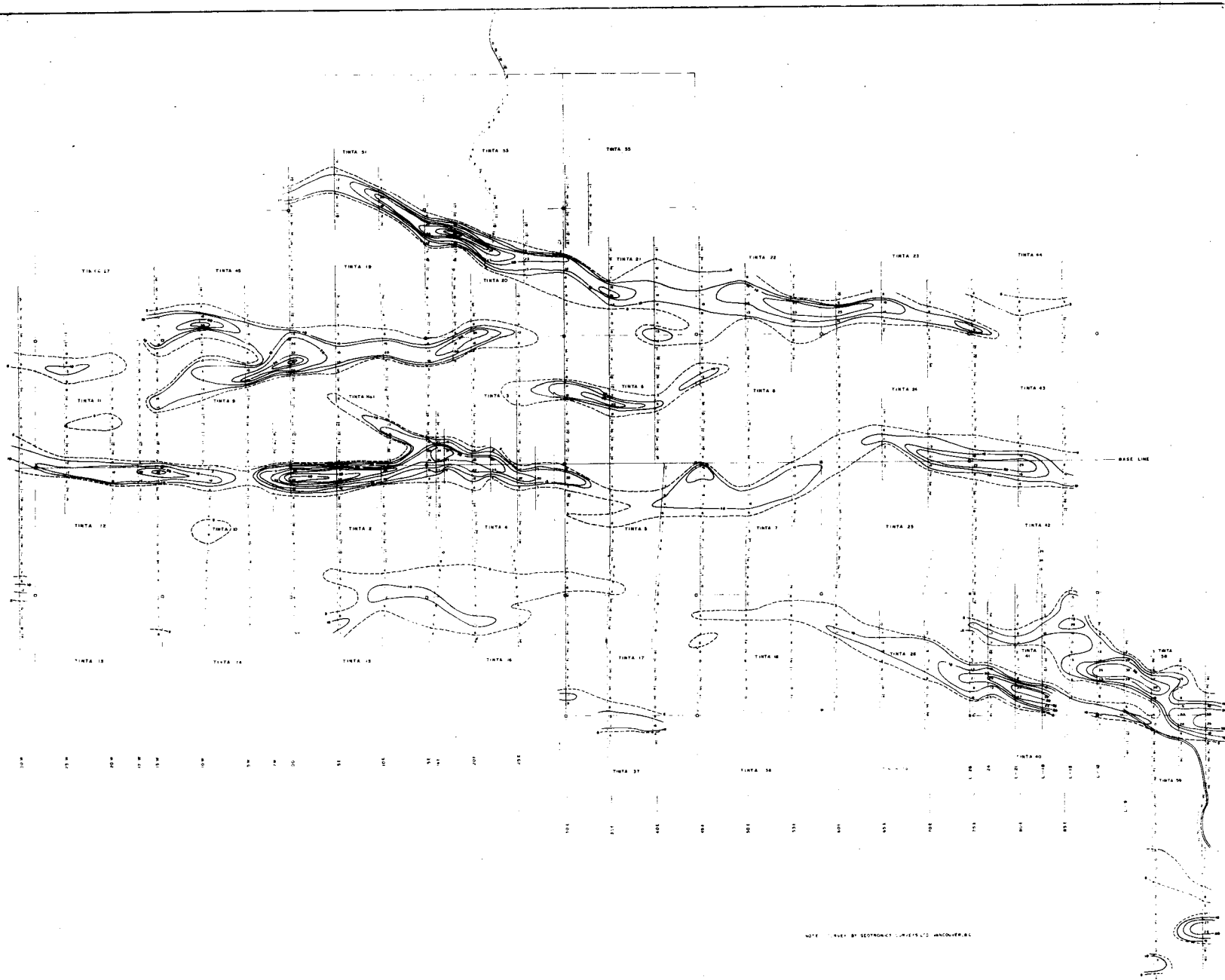


25+00
 24+00
 23+00
 22+00
 21+00
 20+00
 19+00
 18+00
 17+00
 16+00
 15+00
 14+00
 13+00
 12+00
 11+00

25+00
 24+00
 23+00
 22+00
 21+00
 20+00
 19+00
 18+00
 17+00
 16+00
 15+00
 14+00
 13+00
 12+00
 11+00



T. R. TOLSON & ASSOCIATES LTD.
TINTA HILL PROPERTY
E.M. PROFILES
 TINTA HILL, YUKON
 HORIZONTAL SCALE - 1" = 500 FT
 VERTICAL SCALE - 1" = 50 FT
 JULY 1954



LEGEND

— 100 LINE

— 200 LINE

— 300 LINE

— 400 LINE

— 500 LINE

— 600 LINE

— 700 LINE

— 800 LINE

— 900 LINE

— 1000 LINE

— 1100 LINE

— 1200 LINE

— 1300 LINE

— 1400 LINE

— 1500 LINE

— 1600 LINE

— 1700 LINE

— 1800 LINE

— 1900 LINE

— 2000 LINE

— 2100 LINE

— 2200 LINE

— 2300 LINE

— 2400 LINE

— 2500 LINE

— 2600 LINE

— 2700 LINE

— 2800 LINE

— 2900 LINE

— 3000 LINE

— 3100 LINE

— 3200 LINE

— 3300 LINE

— 3400 LINE

— 3500 LINE

— 3600 LINE

— 3700 LINE

— 3800 LINE

— 3900 LINE

— 4000 LINE

— 4100 LINE

— 4200 LINE

— 4300 LINE

— 4400 LINE

— 4500 LINE

— 4600 LINE

— 4700 LINE

— 4800 LINE

— 4900 LINE

— 5000 LINE

— 5100 LINE

— 5200 LINE

— 5300 LINE

— 5400 LINE

— 5500 LINE

— 5600 LINE

— 5700 LINE

— 5800 LINE

— 5900 LINE

— 6000 LINE

— 6100 LINE

— 6200 LINE

— 6300 LINE

— 6400 LINE

— 6500 LINE

— 6600 LINE

— 6700 LINE

— 6800 LINE

— 6900 LINE

— 7000 LINE

— 7100 LINE

— 7200 LINE

— 7300 LINE

— 7400 LINE

— 7500 LINE

— 7600 LINE

— 7700 LINE

— 7800 LINE

— 7900 LINE

— 8000 LINE

— 8100 LINE

— 8200 LINE

— 8300 LINE

— 8400 LINE

— 8500 LINE

— 8600 LINE

— 8700 LINE

— 8800 LINE

— 8900 LINE

— 9000 LINE

— 9100 LINE

— 9200 LINE

— 9300 LINE

— 9400 LINE

— 9500 LINE

— 9600 LINE

— 9700 LINE

— 9800 LINE

— 9900 LINE

— 10000 LINE

NOTE: READINGS ARE IN VOLTS
CURRENT INTERNAL 0.1"

NOTE: SURVEY BY SEISMOLOGY UNIVERSITY, MANCINI, BC

TINTA HILL PROPERTY
SURVEYED BY S. J. JONES
VLF-EM SURVEY
DATA & CONTOURS





T. R. TROUGH & ASSOCIATES LTD.

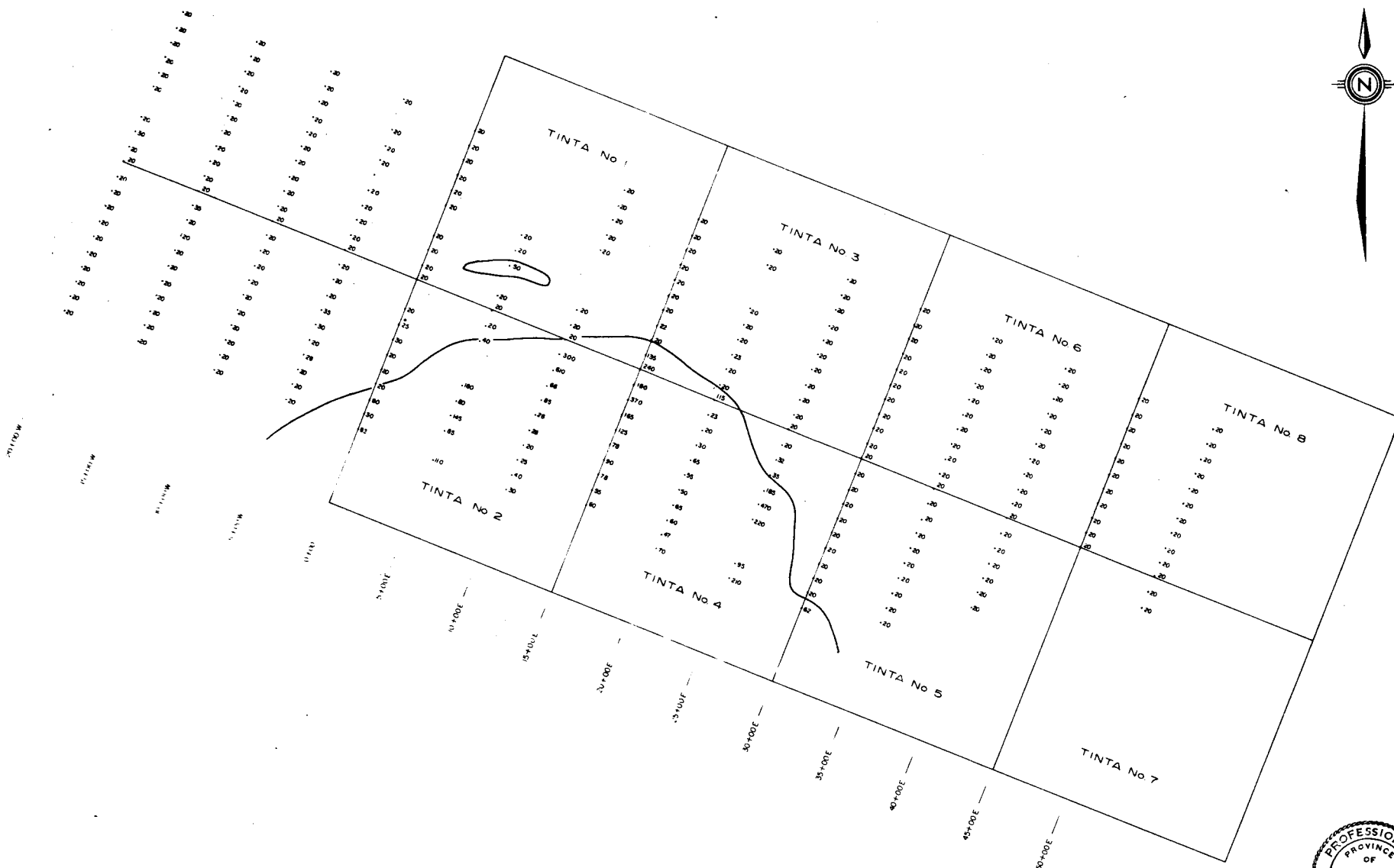
TINTA HILL PROPERTY GEOCHEMICAL SOIL SURVEY

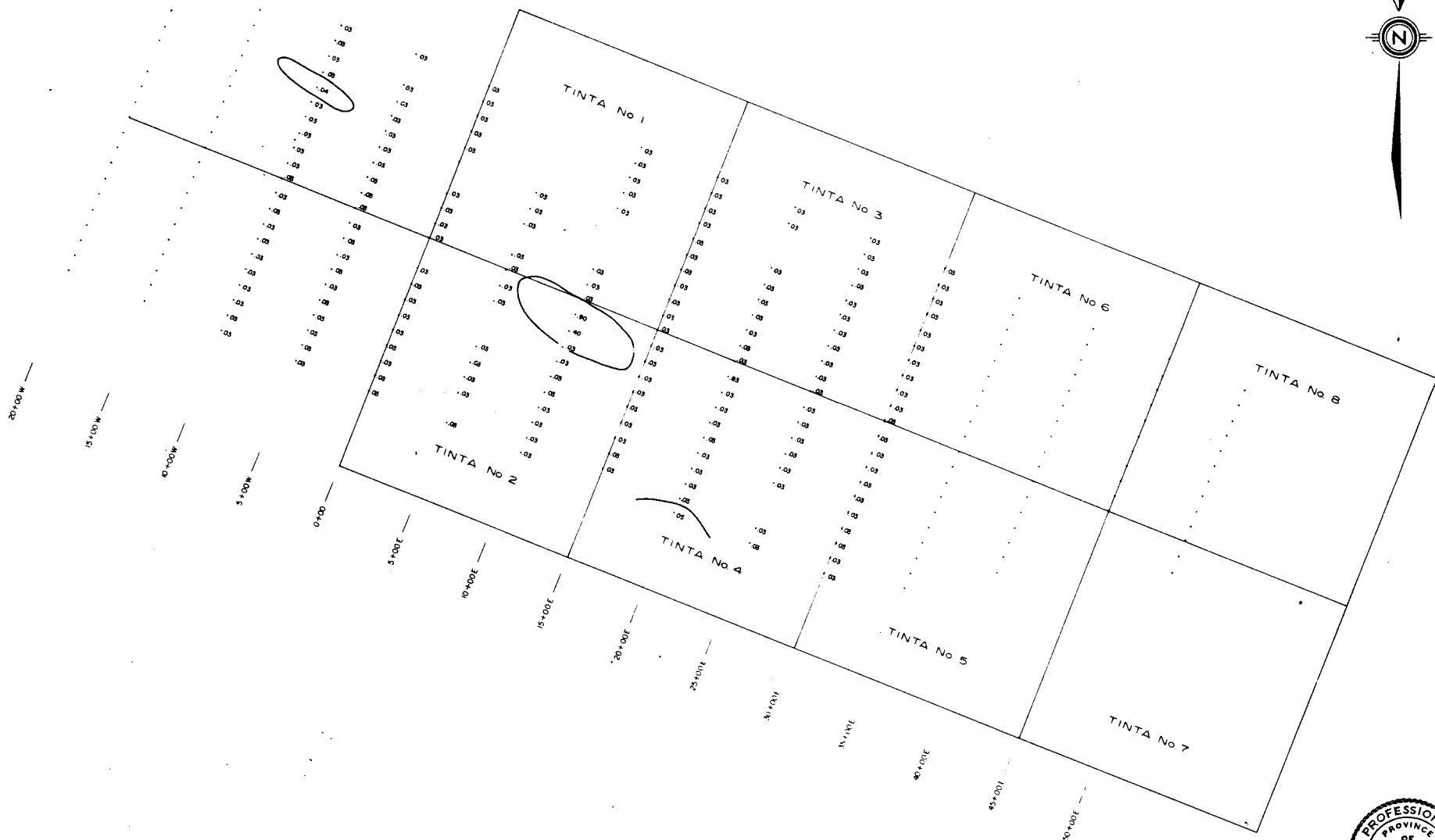
LEAD IN PPM
TINTA HILL, YUKON

FEET 0 100 200 300 400 500

JAN., 1974

ANOMALOUS AREA





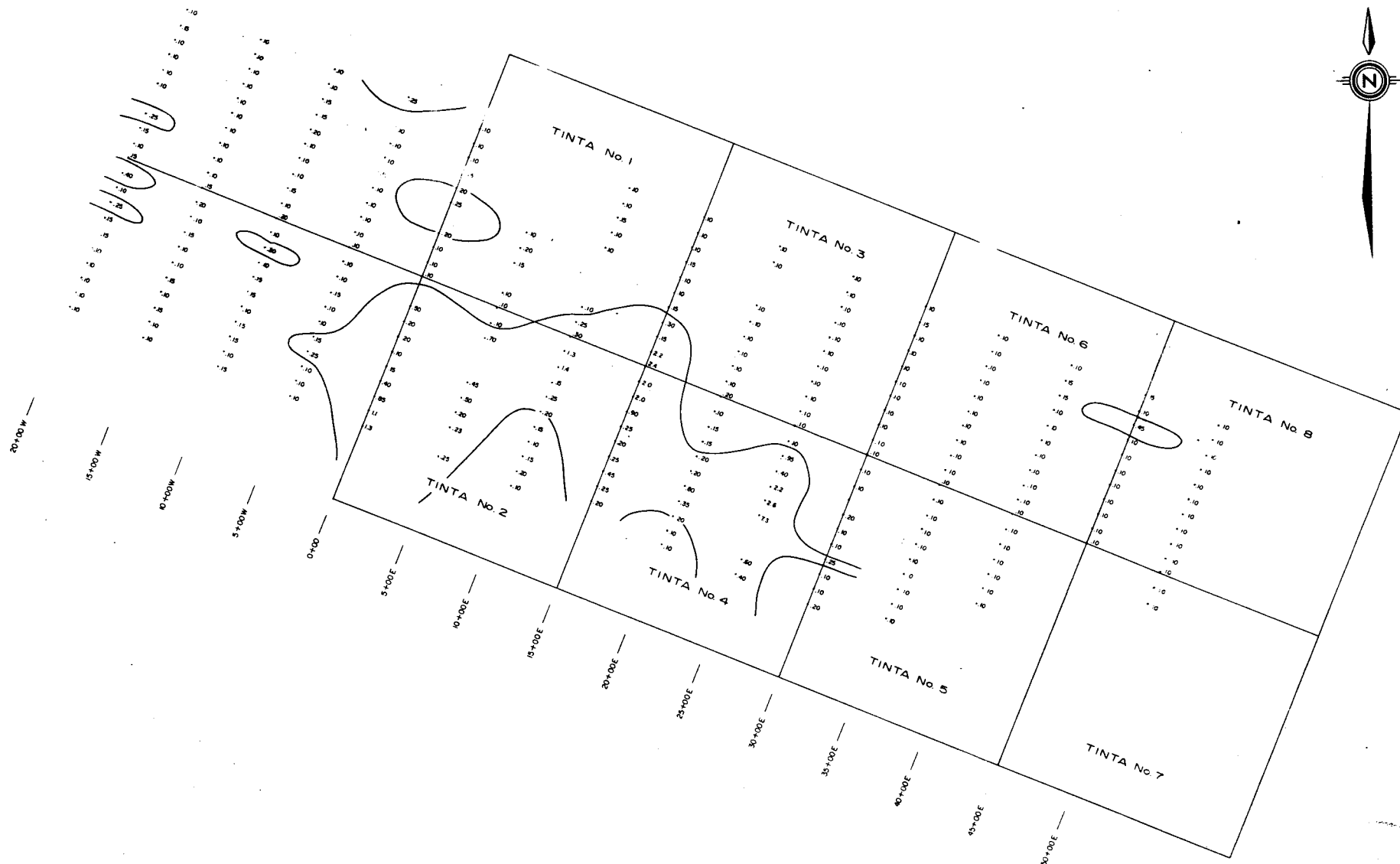
ANOMALOUS AREA



T. R. TOUGH & ASSOCIATES LTD

TINTA HILL PROPERTY
GEOCHEMICAL SOIL SURVEY
GOLD IN P.P.M.
TINTA HILL, YUKON





San Diego

T R TOUGH & ASSOCIATES LTD

TINTA HILL PROPERTY
GEOCHEMICAL SOIL SURVEY
SILVER IN PPM
TINTA HILL, YUKON

1:50,000

○ ANOMALOUS AREA