020135

GEOLOGICAL REPORT

ON THE

TINTA HILL PROPERTY

WHITEHORSE MINING DIVISION, Y.T.

FOR

SILVER TUSK MINES LTD.

115-1-7

September 27, 1983
Vancouver, British Columbia

Thomas R. Tough, P. Eng.
Consulting Geologist

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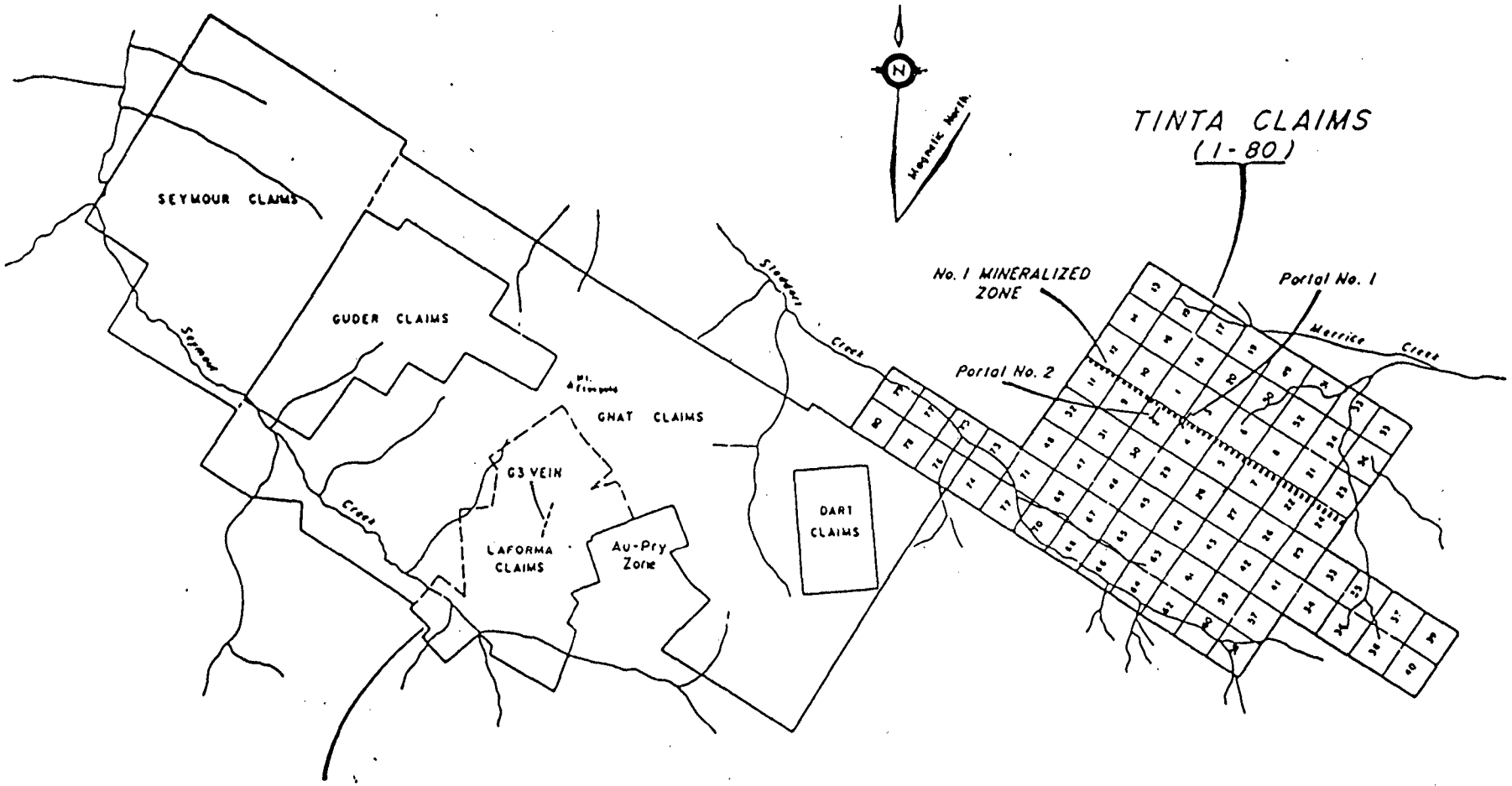


ARCTIC RED RESOURCES CORP.
CONTROLLED BY TECK CORPORATION

SILVER TUSK MINES LTD.
TINTA HILL PROPERTY

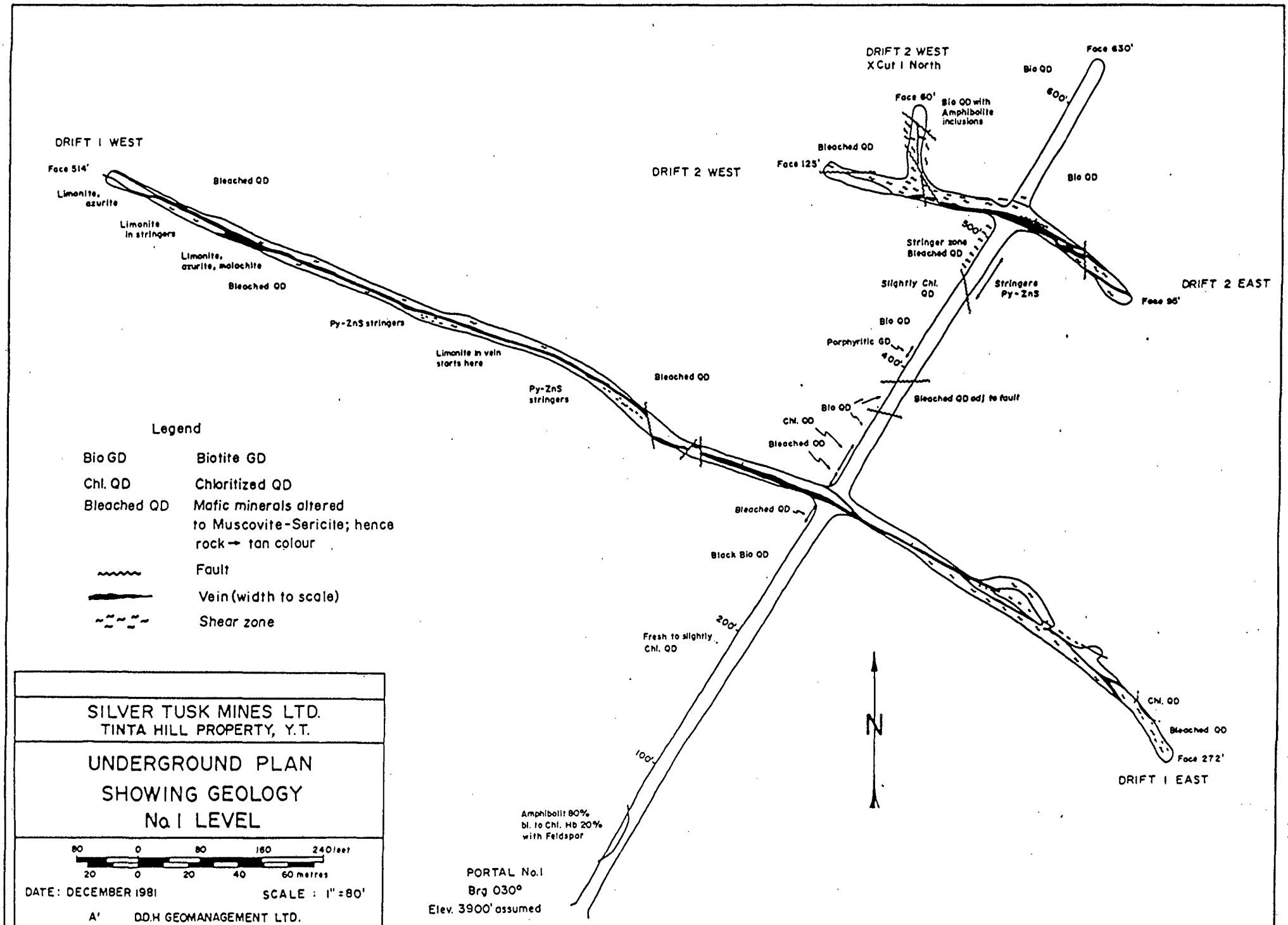
CLAIM MAP

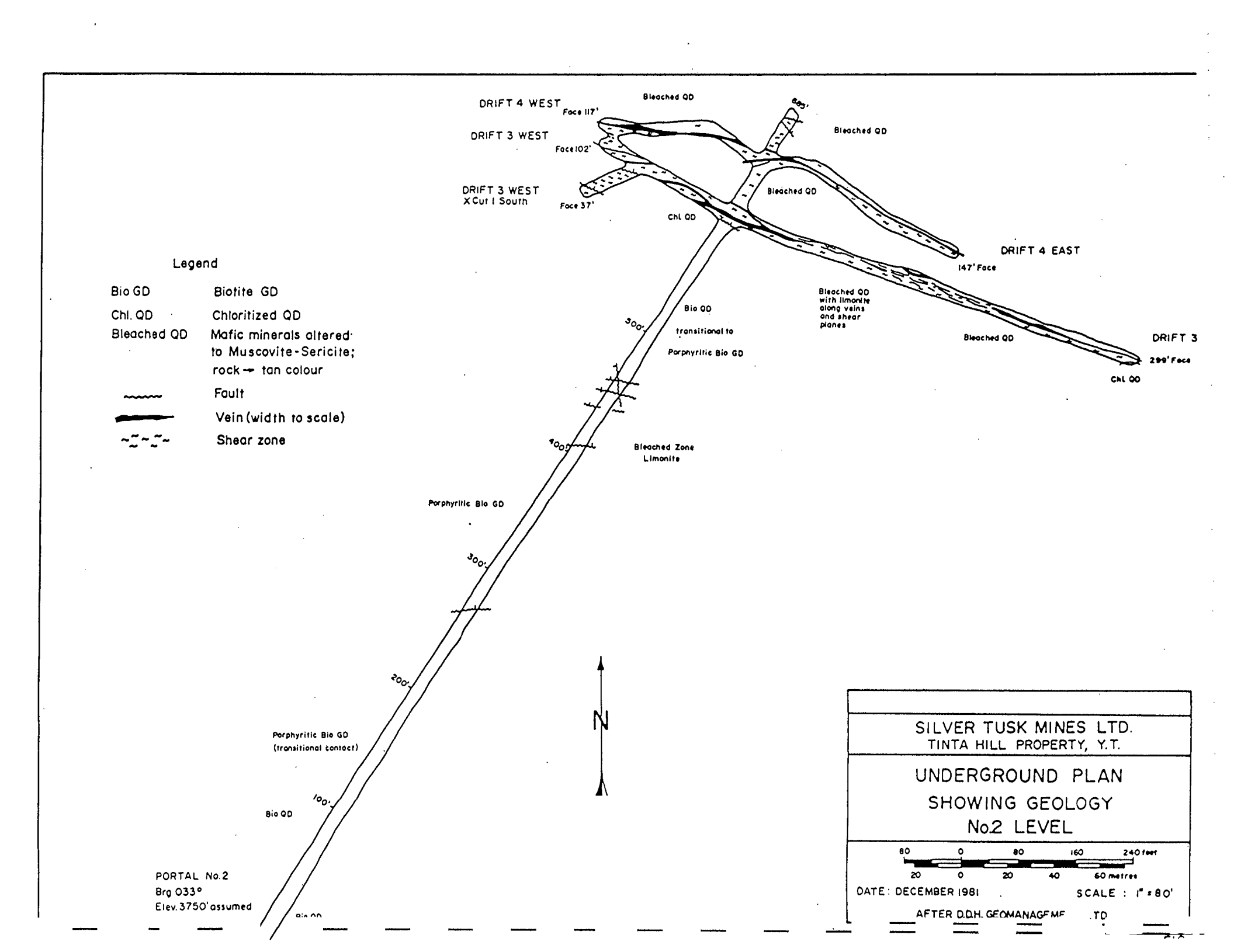
TINTA HILL, YUKON

SCALE

Km. 1 0 1 2 3 4 5 Km.

SEPT. 1982


DRIFT 1 WEST
Face 514'
Limonite, azurite
Limonite in stringers
Limonite, azurite, malachite
Bleached QD
Py-ZnS stringers
Limonite in vein starts here
Py-ZnS stringers
Bleached QD
DRIFT 2 WEST
DRIFT 2 WEST
X Cut 1 North
Face 630'
Bio QD
600'
Face 60'
Bio QD with Amphibolite inclusions
Bleached QD
Face 125'
Bio QD
500'
Stringer zone Bleached QD
Slightly Chl. QD
Stringers Py-ZnS
DRIFT 2 EAST
Face 95'
Bio QD
Porphyritic QD
400'
Bleached QD adj to fault
Bio QD
Chl. QD
Bleached QD
Bleached QD
Black Bio QD
200'
Fresh to slightly Chl. QD
100'
Amphibolit 80% bl. to Chl. Hb 20% with Feldspar
PORTAL No.1
Brg 030°
Elev. 3900' assumed
N
Chl. QD
Bleached QD
Face 272'
DRIFT 1 EAST
Legend
Bio GD Biotite GD
Chl. QD Chloritized QD
Bleached QD Mafic minerals altered to Muscovite-Sericite; hence rock → tan colour
Fault
Vein (width to scale)
Shear zone
SILVER TUSK MINES LTD.
TINTA HILL PROPERTY, Y.T.
UNDERGROUND PLAN
SHOWING GEOLOGY
No. 1 LEVEL
80 0 80 160 240 feet
20 0 20 40 60 metres
DATE: DECEMBER 1981
SCALE : 1" = 80'
A'
DDH GEOMANAGEMENT LTD.


DRIFT 4 WEST
Face 117'
DRIFT 3 WEST
Face 102'
DRIFT 3 WEST
X Cut 1 South
Face 37'
Bleached QD
Bleached QD
Bleached QD
Chl QD
DRIFT 4 EAST
147' Face
Bleached QD with limonite along veins and shear planes
Bleached QD
DRIFT 3
299' Face
Chl QD
Bio QD
transitional to
Porphyritic Bio GD
300'
400'
Bleached Zone
Limonite
Porphyritic Bio GD
300'
200'
Porphyritic Bio GD
(transitional contact)
100'
Bio QD
N
Legend
Bio GD Biotite GD
Chl. QD Chloritized QD
Bleached QD Mafic minerals altered to Muscovite-Sericite; rock → tan colour
Fault
Vein (width to scale)
Shear zone
PORTAL No. 2
Brg 033°
Elev. 3750' assumed
SILVER TUSK MINES LTD.
TINTA HILL PROPERTY, Y.T.
UNDERGROUND PLAN
SHOWING GEOLOGY
No.2 LEVEL
80 0 80 160 240 feet
20 0 20 40 60 metres
DATE: DECEMBER 1981
SCALE : 1" = 80'
AFTER D.D.H. GEOMANAGEMENT LTD.

APPENDICES

MAP INDEX

TITLE		SCALE
LOCATION MAP		1" = 60 miles
CLAIM MAP		1" = 3000 feet
PLAN OF E.M. CONDUCTORS		1" = 400 feet
E.M. PROFILES		1" = 200 feet
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" = 50'
	7+00E	1" = 40'
	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'

SECTION	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 AND TONNAGE BLOCKS		1" = 100'

GEOCHEMICAL SURVEY

- LEAD IN P.P.M.	1" = 400'
- SILVER IN P.P.M.	1" = 400'
- GOLD IN P.P.M.	1" = 400'
- COPPER IN P.P.M.	1" = 400'
ASSAY PLAN OF NO. 1 ADIT	1" = 40'
ASSAY PLAN OF NO. 2 ADIT	1" = 40'
CUT AWAY VIEW ALONG TINTA HILL VEIN	1" = 100'
UNDERGROUND PLAN, GEOLOGY, NO. 1 LEVEL	1" = 80'
UNDERGROUND PLAN, GEOLOGY, NO. 2 LEVEL	1" = 80'

GEOLOGICAL REPORT

ON THE

TINTA HILL PROPERTY

WHITEHORSE MINING DIVISION, Y.T.

PART A

SUMMARY

The Tinta Hill property consists of 72 located mineral claims located approximately 24 air miles northwest of Carmacks, Y.T. and is accessible by 41 miles of road. The claims are held jointly by Silver Tusk Mines Ltd. and Panther Mines Ltd.

The topography is relatively gentle with elevation on the property ranging between 3300 and 4100 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 two adits, 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. Drilling was carried out during the field seasons of 1974 and 1976. In 1980, and 1981 Silver Tusk Mines Ltd. and Panther Mines Ltd. drove 630 feet of crosscut and 1066 feet of drifting to the No. 1 level during 1981, 722 feet of crosscut and 665 feet of drifting was

completed on the No. 2 level. Some 880 samples were cut and assayed on both levels. Six diamond drill holes were put down in 1982; three on the main mineralized zone and three to test other anomalies.

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, auriferous pyrite, chalcopyrite, argentiferous 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 0.049 Cd are estimated.

2. Several tonnage blocks have been calculated utilizing data obtained from diamond drilling and underground sampling. More detailed exploration will be required to place the reserves into the proven category.

3. 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.

4. Underground exploration should be continued within the main zone of interest.

RECOMMENDATIONS

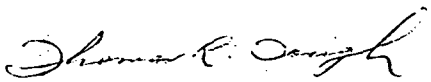
It is recommended that a third crosscut be driven at an elevation of 3750 feet to intersect the vein at some 700 feet and 3,000 feet of drifting should be done along the main vein to connect with the No. 2 Portal level. Detailed sampling should be done along the new drifts.

Upon completion of the above programme, a third level should be established at an elevation of 3600 feet and should consist of some 3,700 feet of underground development.

When the third level is established an additional phase of exploration and development should be carried out and include additional underground development in conjunction with underground diamond drilling and deep diamond drilling from surface.

It is also recommended that Nathan Gold Corporation allocate the sum of $1,551,500 to implement and execute the recommended exploration programme.

Respectfully submitted,



September 27, 1983
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GEOLOGICAL REPORT

ON THE

TINTA HILL PROPERTY

WHITEHORSE MINING DIVISION, Y.T.

PART B

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 program carried out in October and November 1973 and July and August 1974 and 1976.

PROPERTY

The property consists of 72 mineral claims held by location. They are as follows:

Claim Name	Grant Numbers	Expiry Date
Tinta 1 - 2 incl.	Y10054-55 incl.	August 22, 1990
Tinta 3 - 4 incl.	Y10054-57 incl.	November 22, 1989
Tinta 5 - 8 incl.	Y20626-29 incl.	November 10, 1989
Tinta 9 - 12 incl.	Y48246-49 incl.	September 21, 1989
Tinta 13 - 20 incl.	Y48367-74 incl.	October 22, 1989
Tinta 21 - 24 incl.	Y48347-50 incl.	October 18, 1989
Tinta 25 - 32 incl.	Y48375-82 incl.	October 22, 1989
Tinta 33 - 40 incl.	YA59057-64 incl.	October 23, 1986
Tinta 41 - 48 incl.	YA73820-27 incl.	September 3, 1987
Tinta 49 - 56 incl.	YA52243-50 incl.	October 6, 1986
Tinta 57 - 72 incl.	Y74286-301 incl.	November 23, 1986

OWNERSHIP

The claims are owned jointly by Silver Tusk Mines Ltd. and Panther Mines Ltd. of Vancouver, British Columbia. Nathan Gold Corporation holds an option to earn up to 50% interest in the property.

LOCATION (62^0 - 136^0 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 trail.

TOPOGRAPHY

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

WATER

Merrice Creek and its tributaries have sufficient flowage for all phases 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. Whitehorse is serviced by commercial airlines.

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 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. The company's name was changed to Tinta Hill Mines Ltd. and 20 diamond drill holes were drilled in 1974. Electromagnetic and geochemical surveying was also carried out. Two holes were drilled in 1976.

During the 1980 and 1981 field seasons 630 feet of crosscut were driven at 032^{o} from L15+40E; 3+40S at an elevation of some 3,880 feet above sea level. The veins were drifted on in two directions for a total of 1066 feet.

A second level was driven during the 1981 field season at 032^{o} from L7+00E; 7+50S at an elevation of 3750 feet above sea level. A total of 722 feet of

crosscut and 665 feet of drifting was completed. Some 880 samples were cut and assayed on both levels.

In 1982 a total of 969 feet were diamond drilled in three holes to test the main zone. Three additional holes were drilled to test other anomalies.

GENERAL GEOLOGY

The N.E. flank of the Dawson Rage is generally underlain by a basement complex of metamorphic Yukon schists and an assemblage of highly differentiated Jurassic or Cretaceous intrusives both overlain and underlain by basic and acid volcanics. The assemblage is cut by many bodies of younger quartz-porphyries and rhyolites. The Dawson Range was not glaciated during the last period of glaciation.

LOCAL GEOLOGY

Essentially the property is underlain by 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^{o} and has a near vertical dip. The shear reaches a width of ten feet or more. Quartz veins within the shear contain auriferous pyrite, galena, sphalerite, chalcopyrite, and argentiferous 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 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^{o}.

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 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 oz. 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, 30.2 oz. Ag/ton, 32.9% Pb, 0.27% Zn, and 0.85% Cu across 3.9 feet.

TRENCH NO. 10 (18+00E) (Strike 140°)

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

TRENCH NO. 11 (20+00E) (Strike 150°)

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

TRENCH NO. 12 (22+00E) (Strike 145°)

2.7 feet of vein, gouge and 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 30°)

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

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, and 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, and 0.06% Cu.

GEOPHYSICAL SURVEYS

(1) 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.

(2) 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, they 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 L0+00 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 L1+00E.

GEOCHEMICAL SURVEY

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

(i) SILVER

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

(ii) LEAD

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

(iii) COPPER

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

(iv) GOLD

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

DIAMOND DRILLING (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 D.D.H. #5 remains intact and portions of D.D.H. #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°.

	D.D.H. #60-1
Location:	L18+30E 1+20S
Depth	206'
Intersection:	128' - 139' = 11'
True Width 7.5'	Assay Tr. Au; 0.20 oz. Ag/ton; 0.33% Pb; 1.06 % Zn; 0.03% Cu
Intersection:	160.5' - 166' = 5.5'
True Width 3.9'	Assay 0.070 oz. Au/ton; 6.05 oz. Ag/ton; 11.18% Pb, 10.37% Zn; 0.20% Cu; 0.09% Cd
	D.D.H. #60-2
Location:	L16+20E 1+10S
Depth:	200'
Intersection:	150' - 157.6' = 7.6'
True Width 5.4'	Assay 0.078 ox. Au/ton; 5.19 oz. Ag/ton; 3.25% Pb; 5.01% Zn; 0.49% Cu; 0.02% Cd

D.D.H. #60-3

Location: L20+00E 1+25S
Depth: 277'
Intersection: 179.5' - 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

D.D.H. #60-4

Location: L8+00E 1+70S
Depth: 229'
Intersection: 84' - 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

Intersection: 161.0' - 169.0' = 8.0'

True Width 5.7'

Assay 0.182 oz. Au/ton; 2.81 oz. Ag/ton; 1.17% Pb, 2.57% Zn; 0.77% Cu; 0.03% Cd

D.D.H. #60-5

Location: L7+00E 3+30S
Depth: 432'
Intersection: 242' - 247' = 5.0'

True Width 3.5'

Assay 0.005 ox. Au/ton; 0.18 oz. Ag/ton; 1.10% Pb; 1.70% Zn; 0.01% Cu

D.D.H. #60-5

Intersection 410' - 413.5' = 3.5'

True Width 4.9'

Assay 0.065 oz. Au/ton; 5.89 oz. Ag/ton; 4.85% Pb; 3.25% An; 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^{o} and an azimuth of 032^{o}.

D.D.H. #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, 0.36% 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

D.D.H. #73-2

Location: L11+80E 1+60S
Depth: 223'
Intersection: 204' - 209.5 = 5.5'

True Width
3.9'

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

D.D.H. #73-3

Location: L10+00E 1+52W
Depth: 202.3'
Intersection: 169' - 174.7' = 5.7'

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

Intersection: 174.7' - 176.7' = 2.0'

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

True Width
5.4'

Assay
0.022 oz. Au/ton; 1.66 oz. Ag/ton; 1.55% Pb, 3.33% Zn; 0.27% Cu; 0.24% Cd

D.D.H. 73-4

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

Assay
0.09 oz. Au/ton; 2.80 oz. Ag/ton; 3.40% Pb, 10.10% Zn; 1.45% Cu; 0.08% Cd

DIAMOND DRILLING (1974)

D.D.H. #74-1

Location: L22+10E; 1+50S Azimuth: 032°
Depth: 276' Dip -45°
Intersection: 170.8' - 178' = 7.2'

True Width
5.1'

Assay
0.007 oz. Au/ton; 1.90 oz. Ag/ton; 1.50% Pb; 2.90 Zn; 0.09% Cu; 0.02% Cd

Intersection: 226' - 229' = 3.0'

True Width
2.1'

Assay
0.02 oz. Au/ton; 12.80 oz. Ag/ton; 1.65% Pb; 3.35% Zn; 0.21% Cu

D.D.H. #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

D.D.H. #74-3

Location: L5+00E 0+00 Azimuth: 212°
Depth: 173' DIP -45°
Intersection: 122' = 129' = 7'

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

D.D.H. #74-4

Location: L2+00E 0+20S Azimuth: 212°
Depth: 148' Dip -45°
Intersection: 114' - 118.2' = 4.2'

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

D.D.H. #74-5

Location: L0+00 0+20S Azimuth: 212°
Depth: 151' Dip -45°
Intersection: 122' - 127' = 5'

True Width 3.5'

Assay
0.02 oz. Au/ton; 0.39 oz. Ag/ton; 0.13% Pb; 0.15% Zn; 0.69% Cu; 0.01% Cd

D.D.H. #74-6

Location: L5+00W 0+80S Azimuth: 212°
Depth: 173' Dip - 45°
Intersection: 77.5' - 80' = 4.5'

True Width 1.8'

Assay
0.02 oz. Au/ton; 1.06 oz. Ag/ton; 0.10% Pb; <.05% Zn; 0.05% Cu

D.D.H. #74-7

Location: L10+00W 0+50S Azimuth: 212°
Depth: 166' Dip -45°
Intersection: 116.8' - 119.6' = 2.8'

True Width 2.0'

Assay
0.005 oz. Au/ton; 0.53 oz. Ag/ton; 0.10% Pb; 0.30% Zn; 0.04% Cu

D.D.H. #74-8

Location: L20+00E 13+85N Azimuth: 032°
Depth: 138' Dip -45°
Vein not intersected - collared on vein

D.D.H. #74-8A

Location: 18+45E 11+25N Azimuth: 032°
Depth: 260' Dip -45°
Intersection: 241' - 247' = 6'

True Width 4.2'

Assay
0.01 oz. Au/ton; 0.02 oz. Ag/ton; <0.05% Pb; <.05% Zn; <.01% Cu; <.01% Cd

D.D.H. #74-9

Location: 13+70E 3+20N Azimuth: 212°
Depth: 71' Dip -45°
No Intersection. Hole abandoned at 71' due to cave.

D.D.H. #74-9A

Location: 13+70E 3+30N Azimuth: 212°
Depth: 161' Dip -45°
Intersection: 127.2' - 134.6' = 5.4'

True Width 5.2'

Assay 0.11 oz. Au/ton; 2.55 oz. Ag/ton; 1.05% Pb; 1.82% Zn; 1.06% Cu; 0.02% Cd

D.D.H. #74-10

Location: 15+92E 2+45N Azimuth: 212°
Depth: 421' Dip -45°
Intersection: 100' - 109' = 9.0'

True Width 6.4'

Assay 0.134 oz. Au/ton; 9.53 oz. Ag/ton; 3.49% Pb; 2.15% Zn; 1.07% Cu; 0.02% Cd

D.D.H. #74-11

Location: L27+00E 2+10S Azimuth: 032°
Depth: 220' Dip -45°
Intersection: 80.5' - 84' = 3.5'

True Width 2.5'

Assay 0.02 oz. Au/ton; 1.40 oz. Ag/ton; 1.15% Pb; 2.00% Zn; 0.03% Cu; 0.015% Cd

D.D.H. #74-12

Location: L25+00E 1+25S Azimuth: 345°
Depth: 155.5' Dip -45°
Intersection: 123.5' - 135' = 11.5'

True Width 8.1'

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

D.D.H. #74-13

Location: L25+00E 1+25S Azimuth: 0.85°
Depth: 149' Dip -45°
Intersection: 79' - 84.8' = 5.8'

True Width
4.1'

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

D.D.H. #74-14

Location: L23+40E 1+45S Azimuth: 032°
Depth: 171' Dip -45°
Intersection: 141.4 - 151.5' = 10.1'

True Width
7.2'

Assay
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' = 5.0'

True Width
3.5'

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

D.D.H. #74-15

Location: L35+00E 7+50N Azimuth: 212°
Depth: 229' Dip -45°
D.D.H. #74-15 was not on the main zone. No mineralization was intersected.

Location: L24+50E 1+90S Azimuth: 032°
Depth: 252' Dip -45°
Intersection: 174.6' - 180.7' = 6.1'

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' = 3.3'

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

D.D.H. #74-17

Location: L30+00E 3+25S Azimuth: 032°
Depth: 163.5' Dip -45°
Intersection: 112.5' - 118.7' = 6.2'

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' = 6.2'

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' = 8.1'

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

D.D.H. #74-18

Location: L30+00E 3+25S Azimuth: 078°
Depth: 221' Dip -45°
Intersection: 129.3' - 131.7' = 2.4'

True Width
1.7'

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

Intersection: 181' - 187' = 6.0'

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

D.D.H. #74-19

Location: L29+00E 3+25S Azimuth: 032°
Depth: 192' Dip -45°
Intersection: 144' - 157.3' = 13.3'

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

DIAMOND DRILLING (1976)

D.D.H. #76-1

Location: L25+00E 3+75S Azimuth: 032°
Depth: 416.5' Dip -45°
Intersection: 396' - 399' = 3.0'

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' - 4.5' = 6.0'

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

DIAMOND DRILLING (1982)

D.D.H. #82-1

Location: L6+80E; 1+30N Azimuth: 212°
Depth: 345' Dip -45°
Intersection: 264' - 270' = 6.0'

True Width
4.24'

Assay
0.181 oz. Au/ton; 6.69 oz. Ag/ton; 1.55% Pb, 1.89% Zn; 1.50% Cu

D.D.H. #82-2

Location: L4+60E 0+40N Azimuth: 211°
Depth: 275' Dip -45°
Intersection: 1755' - 180.5' = 5.0'

True Width
3.5'

Assay
0.115 oz. Au/ton; 3.35 oz. Ag/ton; 0.17% Pb; 0.47% Zn; 0.62% Cu

D.D.H. #82-3

Location: L2+00E; 1+00N Azimuth: 210°
Depth: 349' Dip -45°
Intersection: 325' - 330.5' = 5.5'

True Width
3.9'

Assay
0.002 oz. Au/ton; 0.57 oz. Ag/ton; 0.86% Pb; 0.16% Zn; 0.08% Cu.
Drill holes D.D.H. #82-4,-5,-6 did not encounter any significant values.

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 ten 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 reserve 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

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

The recent underground exploration and development on two levels have provided additional information in conjunction with the diamond drill data from which several tonnage blocks have been outlined. They are as follows:

Block	Tonnage	Au oz/ton	Ag oz/ton	Pb%	Zn%	Cu%	True Width(ft.)
A	67,515	0.040	8.68	8.86	7.25	0.12	6.43'
B	16,170		P R O T O R E				
C	51,275	0.060	8.68	8.66	13.00	0.15	5.86'
D	18,375	0.075	7.29	4.17	1.41	0.17	5.25'
E	48,450		P R O T O R E				7.50'
F	11,176	0.290	13.57	17.16	3.14	0.52	4.40'
G	7,502	0.216	3.23	3.38	6.16	0.58	3.00'
H	6,210	0.075	1.94	1.95	2.71	0.48	3.00'
I	21,624		P R O T O R E				5.30'
J	19,500	0.130	3.38	3.51	7.98	0.80	3.00'
K	13,338		P R O T O R E				5.40'

M	2,160		P R O T O R E				4.00'
N	14,430	0.448	11.60	4.74	2.82	1.89	3.00'
O	24,150	0.070	5.89	4.85	3.25	0.38	4.60'
P	27,370		P R O T O R E				4.25'
Q	5,850	0.450	3.26	1.88	6.34	1.02	3.00'
R	19,050	0.181	1.35	0.90	6.25	0.39	5.05'
S	2,926	0.072	3.46	1.98	7.67	0.84	3.00'

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 only 3,500 feet have 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 PROGRAMME

In view of the successful nature of the previous underground exploration a third crosscut-drift level should be driven at an elevation of 3750 feet. Some 700 feet of crosscut 10' x 11' in dimension and 3,000 feet of drifting along the main vein to connect with the drift on the No. 2 Portal level. The length of drifting along the vein will then total some 4850 feet. Sampling should be done across the vein on the face of the drift after each round is taken.
Two additional Levels should be established with crosscutting, drifting and raising in conjunction with underground and surface diamond drilling.

ESTIMATE OF COSTS OF EXPLORATION PROGRAMME

Phase I

Crosscutting and drifting 10' x 11' - 3700 feet @$325.00 per foot-all inclusive	$ 1,202,500
Assaying 1200 samples @ $50 per sample	60,000
Engineering & Supervision	30,000
Contingencies @20%	258,500
TOTAL PHASE I	$ 1,551,000

Phase II

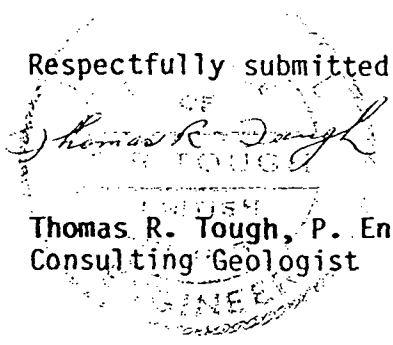
Crosscutting, drifting & raising 3,700 ft. @ $325 per foot-all inclusive	$ 1,202,500
Assaying 1200 samples @ $50 per sample	60,000
Engineering & Supervision	30,000
Contingencies @ 20%	258,500
TOTAL PHASE II	$ 1,551,000

Phase III

Crosscutting, drifting & raising 5,000 ft. @ $325 per foot-all inclusive	$ 1,625,000
Underground diamond driling 5,000 ft. @ $40 per foot-all inclusive	200,000
Surface diamond drilling 10,000 ft. @ $40 per foot-all inclusive	400,000
TOTAL PHASE III	$ 2,225,000

It is estimated that the exploration programme should take approximately six months to complete.

Respectfully submitted,



September 27, 1983
Vancouver, British Columbia

Thomas R. Tough, P. Eng.
Consulting Geologist

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 #408 - 850 West Hastings Street, Vancouver, B.C. V6C 1E1.

I further certify:

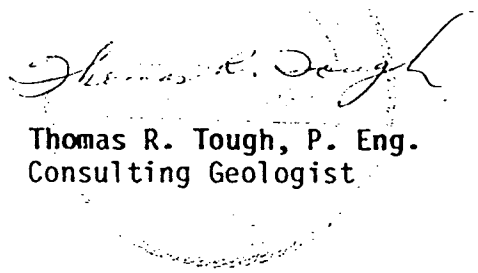
1. That I am a graduate of the University of British Columbia (1965) and hold a B. Sc. Degree in Geology.

2. I have been practising my profession for the past eighteen 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 examinations of the property in 1973, 1974, and from 1976, and the direct supervision and direction of diamond drill programs 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 Nathan Gold Corporation nor do I receive any therein.



September 27, 1983
Vancouver, British Columbia

Thomas R. Tough, P. Eng.
Consulting Geologist

APPENDIX "A"

METALLURGICAL REPORT

BACON, DONALDSON & ASSOCIATES LTD.
Consulting Engineers

117 East 4th Avenue · Vancouver, B.C. V5T 1G4 · Telephone 876-2023

File No. 785
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

Stage	Time (Minutes)	Additions
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	-

....2

TEST PROCEDURE - Cont'd

Stage	Time (Minutes)	Additions
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 Na_2CO_3 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

Stage	Time (Minutes)	Additions
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

....2

TEST NO. 3 - Cont'd

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.
2nd Cl. Tail	1.0	33.26	11.90	42.26	4.3	1.3	.
1st Cl. Tail	2.2	11.33	11.73	16.32	3.3	2.8	3.
Zinc Conc.	10.8	0.39	59.80	2.03	0.5	69.3	.
2nd Cl. Tail	1.8	0.95	28.43	3.80	0.2	5.5	0.
1st Cl. Tail	4.4	0.75	8.14	2.32	0.4	3.8	.
Rougher Tail	68.1	0.23	0.53	0.22	2.0	3.9	1.
Calc. Head	100.0	7.67	9.32	9.42			

TEST NO. 4

PROCEDURE

Stage	Time (Minutes)	Additions
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

....2

TEST NO. 4 - Cont'd

RESULTS

Product	% Weight	% Lead	% Zinc	Oz/Ton Silver	Percent Recovery Lead	Zinc	Sil
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	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	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	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

EXETER MINES LTD (NPL)

PROPERTY Tinta Hill Y.T. HOLE NO. 73-1

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

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

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
0 - 6	Casing								
6 - 210	Quartz monzonite - gray to pinkish gray; medium grained; hypidiomorphic granualr texture; composed of white to gray albite, pinkish orthoclase - anhedral to subhedral; subhedral to anhedral hornblende partially altered to chlorite. Scattered serecite. Lineation @ 47°. Fractures @ 46 - 55°								
	Altered qtz. monzonite w/< 2% mafics - chlorite @								
	13 - 14' "contact" @ 11 to c/a								
	17 - 18' "contact" @ 60° across lineation								
	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' ½" qtz.-carb. stringer @ 47° w/ patches brownish sphalerite and lesser galena; 176.6 - 177 - bleached granite								

CLAIM NO..... **DIAMOND DRILL RECORD** PROPERTY..... HOLE NO. 73-1

LATITUDE ELEVATION BEARING DEPTH STARTED COMPLETED

DEPARTURE SECTION DIP DRILLED BY LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Au	Ag	Pb	Zn
	177 - 177.2								
	203' 3/8" qtz. stringer @ 52° w/ blebs cpy	2607	207	212				<.05	<.05
	204 1" chloritic stringer @ 60°	2602	212	214.5	2.5'	0.01	0.10	0.25	0.45
210 - 236	Altered quartz monzonite varying from light gray to greenish					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 ½" mud seam								

WESTERN MINER PRESS LTD.
STANDARD FORM NO. 502

CLAIM NO.....

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 73-1

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

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

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
	219 - 224 Light gray altered quz. monzonite - diss. sulphides								
	224 - 236 Greenish gray qtz. monzonite; irregular chl. in								
	qtz. and white to pink feldspars								
	236' END OF HOLE								

WESTERN MINER PRESS LTD.
STANDARD FORM NO. 502

DIAMOND DRILL RECORD

EXETER MINES LTD (NPL)

CLAIM NO. Tinta 2 | PROPERTY Tinta Hill Y.T. | HOLE NO. 73-2

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 orthochlase < 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								

WESTERN MINER PRESS LTD.
STANDARD FORM NO. 502

DIAMOND DRILL RECORD

CLAIM NO..... 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 & chalcopyrite ≈ 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								

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

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	Qtz. Monzonite - granodiorite - gray; hypidiomorphic granular texture; 15% hbl. anhedral - euhedral - variably alt'd to chlorite - 0-20% (lt. - mod); 10% quartz; anhedral light gray feldspar; fr. @ 45°, 53°,								
	29 - 32 epidote stringers at 62°; lineation @ 46° ox'n on fr. @ 53°								
	51' 1" > mafics - biotite hbl. < chlorite								
	58' reddish alt'n								
	62 - 63 qtz. fels. @ 77°								
	66 - 68 ox'n & friable fels on fr. @ 82°								
	68' "xenoliths" of fels. porphyry < 3/4"								
	95 - 96.6 ox'd								
	97' lin'n @ 60°								
	98.6 - 100 broken - friable and loc. - gougy sections reddish ox'n on fr. @ 90°								
	115 chl. str. ½" @ 60° across lin'n.								
	111 patchy chlorite								
	123 > silic'n & alt'n. Ox'n on fr. planes								
	125.9 barren qtz. str. @ 56°								

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

CLAIM NO.....

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 73-3

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

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

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Au	Ag	Pb	Zn	Cu
	125.9 - 143 ± alt'n of mafics - irregular thru core. Random irregular chl. stringers. Chl. on fr. planes									
	135 4" ox'd zone @ 47°									
143-151	Andesite - green, aphanitic @ 58°									
151-160	Qtz. monzonite - same as 125.9 - 143									
160-161.5	Andesite @ 58°									
161.5-166	Qtz. monzonite same as 125.9 - 143									
166-169	Altered qtz. monzonite - light gray < 10% mafics - chlorite; quartz & feldspars; whitish fels, variably altered; friable									
	169 1" gouge @ 48°									
169-174.7	Mineralized zone - (85% recovery)	2614	166	169	3.0'	Tr.	.06	.15	.30	.01
	169 - 170.4 - ≈30% sulphides; disc. stringers, blebs, patches of intimately assoc. brownish sphalerite, galena and chalcopyrite tetrahedrite? (decreasing order); mod. patches & diss. py.; fr. & str. @ 44 - 50°	2615	169	174.7	5.7'	.03	2.2	2.0	4.3	.35
	170.4 - 173.2 highly altered; lt. gray; friable; mainly qtz. & fels. w/ diss. sulph & occ. str. of sph. & gal. (< ¼")								Cd	.03
	171.4 - 173.2 - greenish gray < alt'n.									
	≈ 2% diss. sulph.									

WESTERN MINER PRESS LTD.
STANDARD FORM NO. 502

CLAIM NO.....

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 73-3

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

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

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Au	Ag	Pb	Zn	Cu	Cd
	173.2 - 174.5 45% sulphides as stringers (40-45°) blebs,										
	patches and diss. sphal.; galena, cpy. and moderate py.										
	174.4 ¼ - 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		

DIAMOND DRILL RECORD

EXETER MINES LTD (NPL)

CLAIM NO. Tinta 2 | PROPERTY Tinta Hill YT. | HOLE NO. 73-4

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

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

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

CLAIM NO.....

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 73-4

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

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

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Au	Ag	Pb	Zn	Cu
	194 - 195 Gneissic @ 60°									
	210 - patches chlorite									
	221 + 224 2" heavier mafics @ 42°									
	222 - 460 carbonates on fr. @ 48° - 55°									
	245 - 460 pink fels. lt. magnetite occ. hematite - occ ep									
	422 ½" gouge @ 42°									
	423 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
445-459.5	Altered q. monz. lt. gray to lt. greenish gray								Cd.	.01
459.5-460	459.5 - 460 Qtz. monzonite	2551	447.5	452.5	5.0'			.10	.25	
	460 END OF HOLE									

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 302

DIAMOND DRILL RECORD

CLAIM NO. TINTA 4 PROPERTY EXETER MINES LTD TINTA HILL Y.T. HOLE NO. 74-1

LATITUDE 22 + 00E ELEVATION 3925 BEARING 032 DEPTH 276 STARTED July 11/74 COMPLETED July 13/74

DEPARTURE 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 ½"								
	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. @								

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 302

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					

WESTERN MINER PRESS LTD.
STANDARD FORM NO. 502

DIAMOND DRILL RECORD

CLAIM NO. TINTA #4 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 occassional 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.....

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 74-2

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

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

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
117-130	Quartz diorite f.g. contact @ 49°; str. & diss. hem. thru								
	matrix.								
130-155	Quartz diorite - m.g. lt. chl. + rusty on fr. planes @ 45-50°								
	155' END OF HOLE								

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 562

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

DIAMOND DRILL RECORD

CLAIM NO..... PROPERTY ..... HOLE NO.....74-3.....

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

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

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Au	Ag	Pb	Zn	Cu	Cd
	145 Mod. cpy., py. @ 50° in qtz. NaCu.on occ. fr.	16609	138.5	143.5	5.0	.005	.04	.05	.10	.02	.01
	planes @ 42°	16610	143.5	148.5	5.0	.08	2.50	.25	.91	.88	.01
	148 ½" @ 26° sph. cpy. lt. gal.										
	151 4" granular lt. py.	16611	148.5	151.5	3.0	Tr	Tr	.08	.73	.08	.01
	152-153.5 Qtz. @ 44° of heavy py. occ. cpy. & bor.	16612	151.5	156	4.5	.08	3.0	.40	.49	.39	.01
153.5-160	Altered zone lt. diss. py.										
160-173	Quartz diorite - moderate alteration - grayish white feldspars										
	in greenish gray matrix.										
	173' END OF HOLE										

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

DIAMOND DRILL RECORD

CLAIM NO. TINTA 2 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. Sookochoff

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Au	Ag	Pb	Zn	Cu	Cd
0-10	Casing										
10-95	Quartz diorite - m.g.; low. qtz.; lt. K-spar, subhedral Xls										
	<½"; mafics mod. to chl. & biotite; trachytic tex.;										
	lt. chl. on fr. p. @ 35°-45°	11616	116	118.2	2.2	.06	2.7	.20	.05	1.64	.01
	Broken to 48										
95-116	Altered zone - Variable alt'n. w/ loc. granodiorite sections.	11617	114	116	2.0	.01	.10	.10	.30	.16	-
	Lt. diss. py., sph. & gal. adj. to min. zone										
116-118	Mineralized zone - Qtz. @ 50° w/ mod. patches and blebs py.	11618	118.2	120.2	2.0	.005	.04	.10	.35	.02	-
	& lt. cpy. - rare gal. & sph.										
118-148	Altered zone - variable alt'n. w/ loc. granodiorite sections;										
	lt. diss. py. - sh. & gal. adj. to min. zone.										
	148' END OF HOLE										

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

DIAMOND DRILL RECORD

CLAIM NO. TINTA 2 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	16622	95.5	97.5	2.0	.02	.03	.08	.15	.03	-
	py. cpy. ga. & sph.	16615	120	122	2.0	.005	.04	.05	.42	.02	.01
	123.5-125.5 Qtz. @ 45° w/ mod. py. lt.cpy.	16613	122	127	5.0	.02	.39	.13	.15	.69	.01
	125.5-127 Siliceous zone diss. & blebs py.	16614	127	129.5	2.5	.005	.04	.39	.89	.05	.01
	Thin str. gal.										

WESTERN MINER PRESS LTD.
STANDARD FORM NO. 502

CLAIM NO.....

DIAMOND DRILL RECORD

PROFERTY..... HOLE NO. 74-5

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

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

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
	127 Lt. diss. py. & str. gal. sph.; gray patch gal. &								
	sph. on fr.								
127-151	Altered zone								
	151' END OF HOLE								

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

DIAMOND DRILL RECORD

CLAIM NO. TINTA 10 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										

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

DIAMOND DRILL RECORD

CLAIM NO. TINTA 9 PROPERTY TINTA HILL HOLE NO. 74-7

LATITUDE 10 + 00W ELEVATION 3918 BEARING 212° DEPTH 166 STARTED July 16/74 COMPLETED July 17/74

DEPARTURE 0 + 50S SECTION 10 + 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										
10-82	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										

WESTERN MINER PRESS LTD.
STANDARD FORM NO. 502

DIAMOND DRILL RECORD

CLAIM NO. TINTA 3 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. Sookochoff

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS
0-16	Casing					
16-94	Altered zone - Greenish gray; obscure m.g. texture; feldspars					
	propylized and kaolinized to various degrees. Random					
	bluish black stringers w/ hem;					
	16-69 Mainly rusty w/ loc. grayish alt'n.					
	rusty zoning @ 62°					
	60-69 alt'n. friable					
	69 - Occ. chl. str. @ 45-70°					
	86 - Irreg. blebs sulph. in pink fels.					
	91-94.6 Loc. rusty brownish sections					
94-138	Meta Quartz diorite - Moderate alt'n. of feldspars; mafics to					
	chlorite; obscure trachysm @ 50° to 123					
	94-123 Chlorite and hem. through matrix.					
	123-138 Chl. & hem. on fr. planes; alt'n. occ. chl. str.					
	blebs mag. & hem. thru matrix					
	138' END OF HOLE					

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

DIAMOND DRILL RECORD

CLAIM NO. TINTA 4 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	Cd
0-10	Casing										
10-190	Qtz. diorite - m.g.; hypdromaphic 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	.01
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										

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 302

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 ½"								
	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.								

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

DIAMOND DRILL RECORD

CLAIM NO. TINTA 1 PROPERTY TINTA HILL HOLE NO. 74-9A

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 Drilling LOGGED BY L. Sookochoff

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	16646	127.2	129.5	2.3	.35	7.80	3.08	1.74	3.00	-
	46-48 Heavy py. in qtzitic. zone & rusty	16647	129.5	134.6	5.1	.005	.22	.15	.35	.20	-
	56 - Patches heav y diss. py.										
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. .....

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 74-9A

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

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

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
	129-132 Heavy diss. py. in alt'd zone								
	132-134 Lt. - mod. diss. py. in alt'd. zone								
	134 1" bluish black band (gougy) @ 43° w/ py.								
134-146	Altered zone - grayish white; mod. friable; rare diss. py.								
146-161	Granodiorite - lt. alt'n. siliceous; low mafic; m.g.; occ.								
	K-spar ½"; broken 149-161 lt. hem.								
	161' END OF HOLE								

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

CLAIM NO. TINTA #3

DIAMOND DRILL RECORD

PROPERTY TINTA HILL HOLE NO. 74-10

LATITUDE 15 + 92E ELEVATION 4029 BEARING 212 DEPTH 421 STARTED July 22/74 COMPLETED July 23/74

DEPARTURE 2 + 45 N SECTION 16 + 00E DIP -45° DRILLED BY Arctic Diamond Drilling LOGGED BY L. Sookochoff

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
0-10	Casing								
10-169	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.								

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

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. enargite - 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										
	< ½"; 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										

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

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; ~~chlm~~ & chl. on f.p. @ 42°								
	Mod. alt'n. bleaching to 360								

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

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			
	w/ q. dior. @ 355 - 358.								
	360-388.5 Heavy alt'n. friable.								
	367 - 2 narrow sulph. str. @ 45°								
	383.5 - Qtz. frag. w/ mod. sph. Gal. & py.								
	(~~loose core talc~~) ~~to~~ - some grinding								
	387.5 - 10 sec. hem. & tight breccia healed w/								
	black earthy material.								
388.5-421	Granodiorite w/ pinkish K-spar Xls on ½"								
	404.2-405 - Pinkish f.g. Monz. dyke @ 65°								
	sharp contact.								
	Trach. @ 52°								
	Blebs ep. ∱ ¼.Z. thru matrx.								
	421' END OF HOLE.								

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

DIAMOND DRILL RECORD

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 Drilling LOGGED BY L. Sookochoff

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Au	Ag	Pb	Zn	Cu	Cd
0-10	Casing										
10-79.5	Quartz diorite - m.g. hyp. gr. trachytic tex.; mod. alt. of										
	mafics to chl.; loc. rusty sections - hem. thru matrix;										
	fr. @ 32° 70°; loc. fresher										
79.5-123	Altered zone - light gray; variable alt'n. to complete	16586	78.8	80.5	1.7	.005	.35	1.80	.12	-	-
	kaolinization of K-fels.; loc. bluish blackish streaks @ 45°	16629	80.5	84	3.5'	.02	1.40	1.15	2.00	.03	-
	90-112 alt'n. greenish gray- hard m.g.	16587	84.0	88.9	4.9	Tr	Tr	.17	.02	-	-
	112-123 Lt. to mod. alt'n. chl. 118-123										
	116 2" gouge @ 40°										
123-220	Quartz diorite - m.g. low quartz typical. loc. rusty sec.										
	172-185 hem. patches & chl. on fr. planes > mafics										
	180-195 c.g.										
	203.5-205 f.g. diorite @ 55°										
	220' END OF HOLE										

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

DIAMOND DRILL RECORD

CLAIM NO. TINTA 4 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	-
	~~500~~ sucty 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.										

DIAMOND DRILL RECORD

CLAIM NO. ..... PROPERTY ..... HOLE NO. 74-12

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

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

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
	142.5 1" gouge								
142.5-155.5	Altered zone - mod. alt'n. to 146 - occ. bleb & thin str.								
	sulphide: ½" qtz. @ 47° w/ gal. sph.								
	146-155.5 Lt. alt'n. w/ hem. str. @ 53°								
	155.5' END OF HOLE								

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

DIAMOND DRILL RECORD

CLAIM NO. TINTA 4 | 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										

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

DIAMOND DRILL RECORD

CLAIM NO. TINTA 4 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. ~~angular~~ 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 (¼"), 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 basted by heavily altered material.								

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

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" lgt. 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										

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

DIAMOND DRILL RECORD

CLAIM NO. TINTA 5 | 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								

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

DIAMOND DRILL RECORD

CLAIM NO. TINTA #4 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, occassional										
	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	Mineralized zone										
	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	Mineralized zone vein-gouge galena, sphalerite pyrite										

WESTERN MINE-A-PRESS LTD.
STANDARD FORM NO. 502

DIAMOND DRILL RECORD

CLAIM NO. TINTA #4 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 Drilling LOGGED BY T.R. Tough

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS Au	Ag	Pb	Zn	Cu	Cd
203-225	Altered zone - Qtz. diorite, bleached, rock freshening from										
	208' becoming gneissic	16580	200	202.5	2.5	.01	.04	.45	.88	.01	.01
225-230	Granodiorite - altered										
230-234	Qtz. diorite - Altered										
234-234.5	Galena and sphalerite - pyrite in narrow stringers.										
234.5-250	Qtz. diorite										
250-252	Granodiorite - fresh										
	252' 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 subtily										
	163.5' END OF HOLE										

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

DIAMOND DRILL RECORD

CLAIM NO. TINTA #6 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	16589	129.3	131.7	2.4	.06	1.50	3.12	3.88	-	-
	151-151.3 - 45° to C.A.; 165.2 60° to C.A.										
	182-183.5 Gouge	16590	182	186	4.0	.03	7.00	6.48	5.80	0.12	-
	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										

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

DIAMOND DRILL RECORD

CLAIM NO. TINTA 4 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.										

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

CLAIM NO..... **DIAMOND DRILL RECORD** PROPERTY..... HOLE NO. 74-19

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
157.3-188	Altered zone - bleached - whitish gray. Kaolinized fels.;	16596	142	144	2.0	Tr.	.15	.45	.30	.01	.01
	no mafics - gougy sections; loc. sec. diss. py.	16593	144	148.5	4.5	.02	5.40	2.68	7.60	0.09	0.03
188-192	Granodiorite - m.g. pinkish gray. hyp. granular texture;	16595	148.5	152.8	4.3	.005	0.04	0.65	3.92	0.01	.01
	lt. ep. alt'n.; mafics lt. alt'd. to chl; chlorite str.	16594	152.8	157.3	4.5	.02	3.90	2.80	3.60	0.12	0.03
	@ 62°	16597	157.3	159.3	2.0	Tr	Tr	.05	0.05	.01	.01
	192' END OF HOLE										

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

DIAMOND DRILL RECORD

CLAIM NO. Tinta #4 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. PAGE TWO

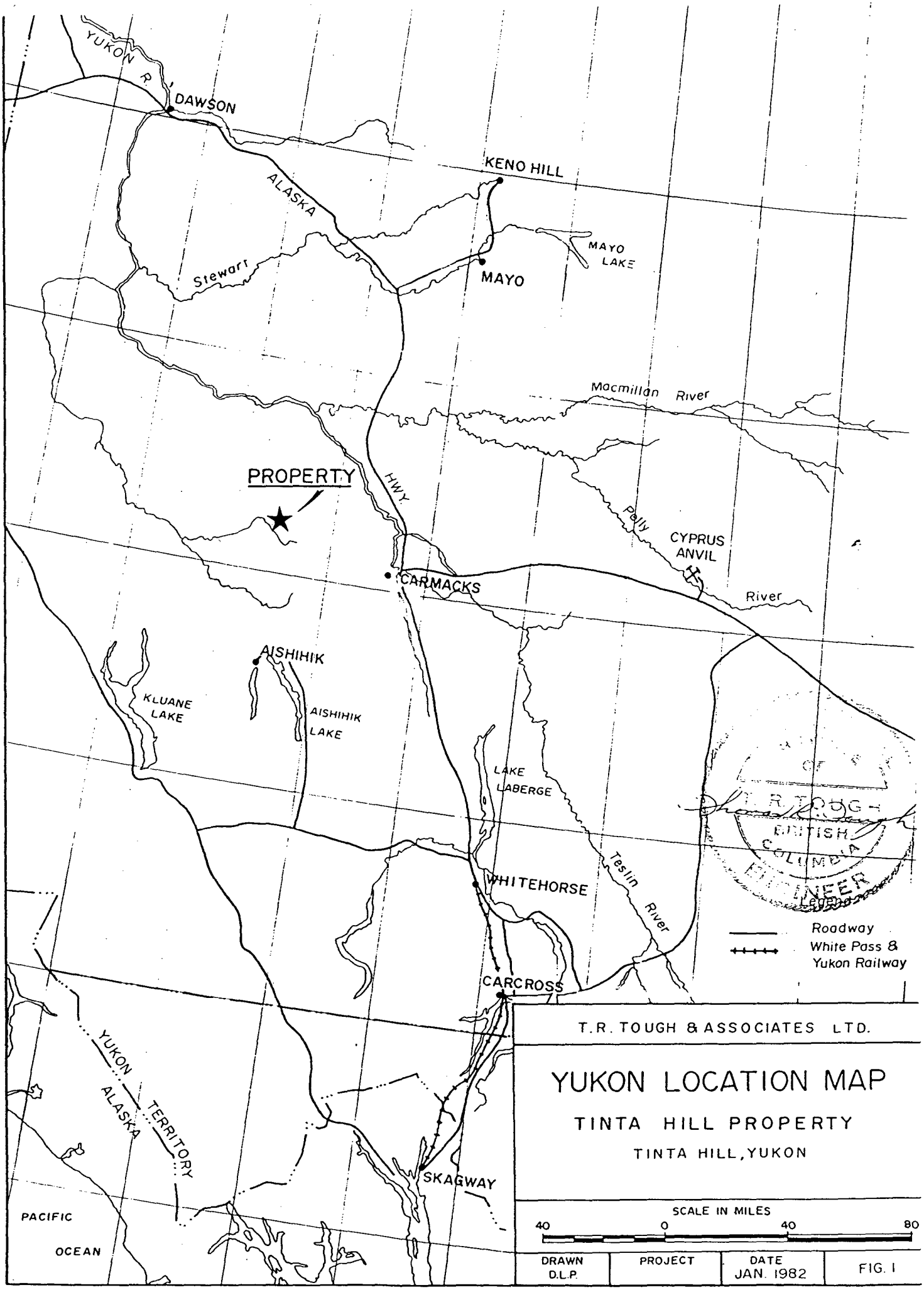
DIAMOND DRILL RECORD

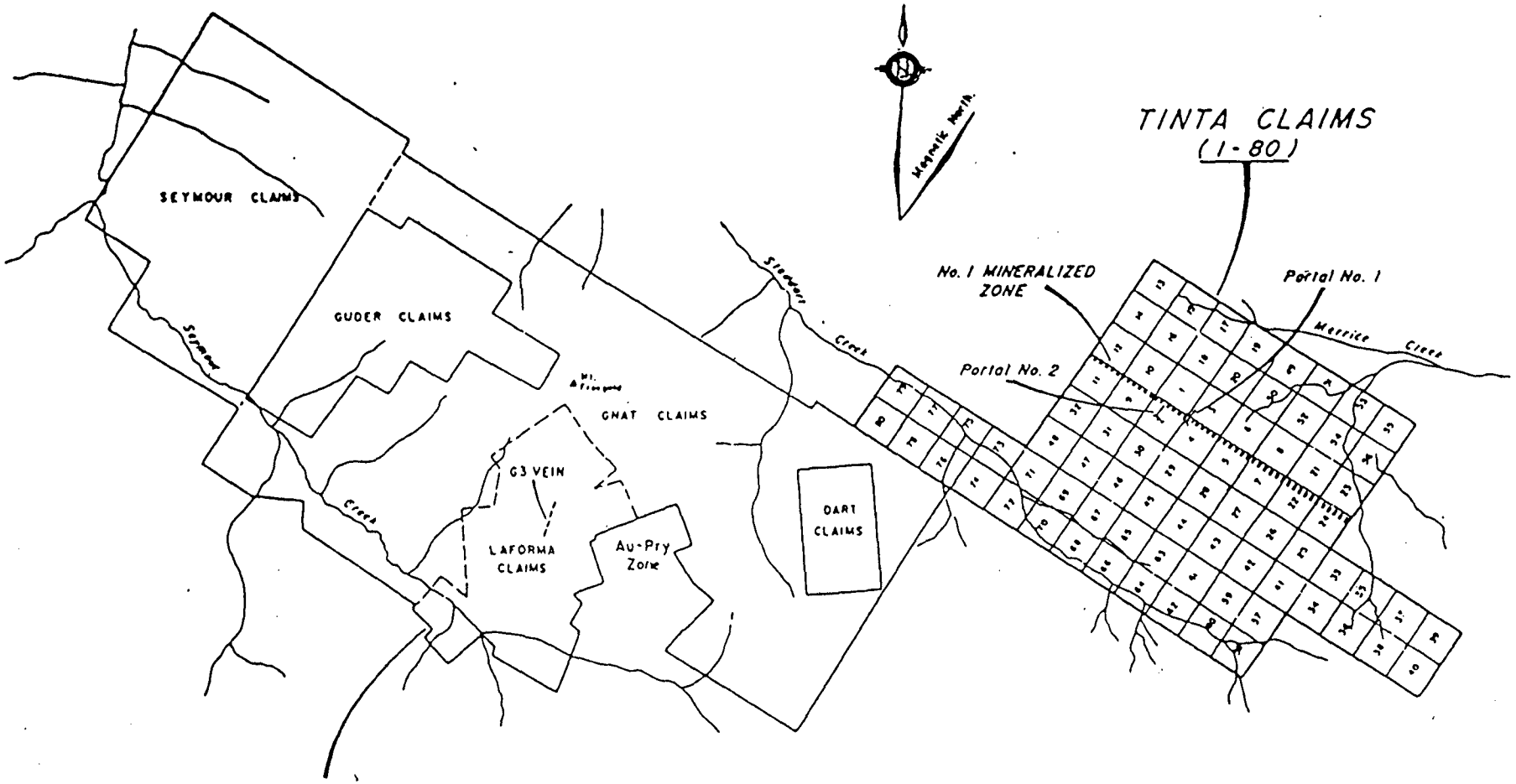
PROPERTY..... HOLE NO.

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, chalcopyrite.					
405-416.5	Highly altered hanging wall.					


YUKON R.
DAWSON
KENO HILL
ALASKA
MAYO LAKE
MAYO
Stewart
Macmillan River
PROPERTY
HWY
Pelly
CYPRUS ANVIL
CARMACKS
River
AISHIHIK
KLUANE LAKE
AISHIHIK LAKE
LAKE LABERGE
WHITEHORSE
Teslin River
CARCROSS
YUKON TERRITORY
ALASKA
SKAGWAY
PACIFIC OCEAN
Roadway
White Pass & Yukon Railway
T.R. TOUGH & ASSOCIATES LTD.
YUKON LOCATION MAP
TINTA HILL PROPERTY
TINTA HILL, YUKON
SCALE IN MILES
40 0 40 80
DRAWN D.L.P.
PROJECT
DATE JAN. 1982
FIG. 1



ARCTIC RED RESOURCES CORP.
CONTROLLED BY TECK CORPORATION

NATHAN GOLD CORPORATION
TINTA HILL PROPERTY

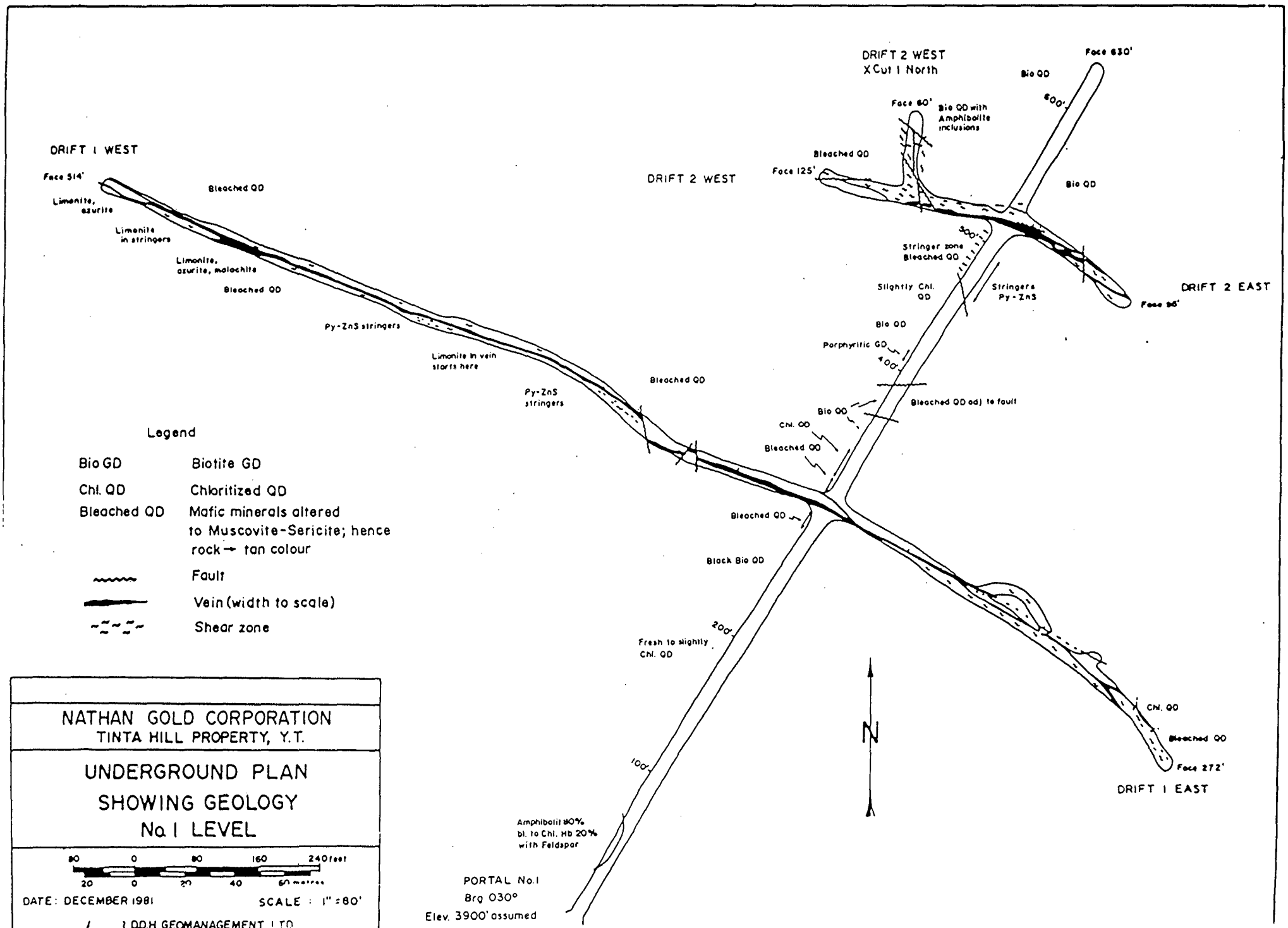
CLAIM MAP

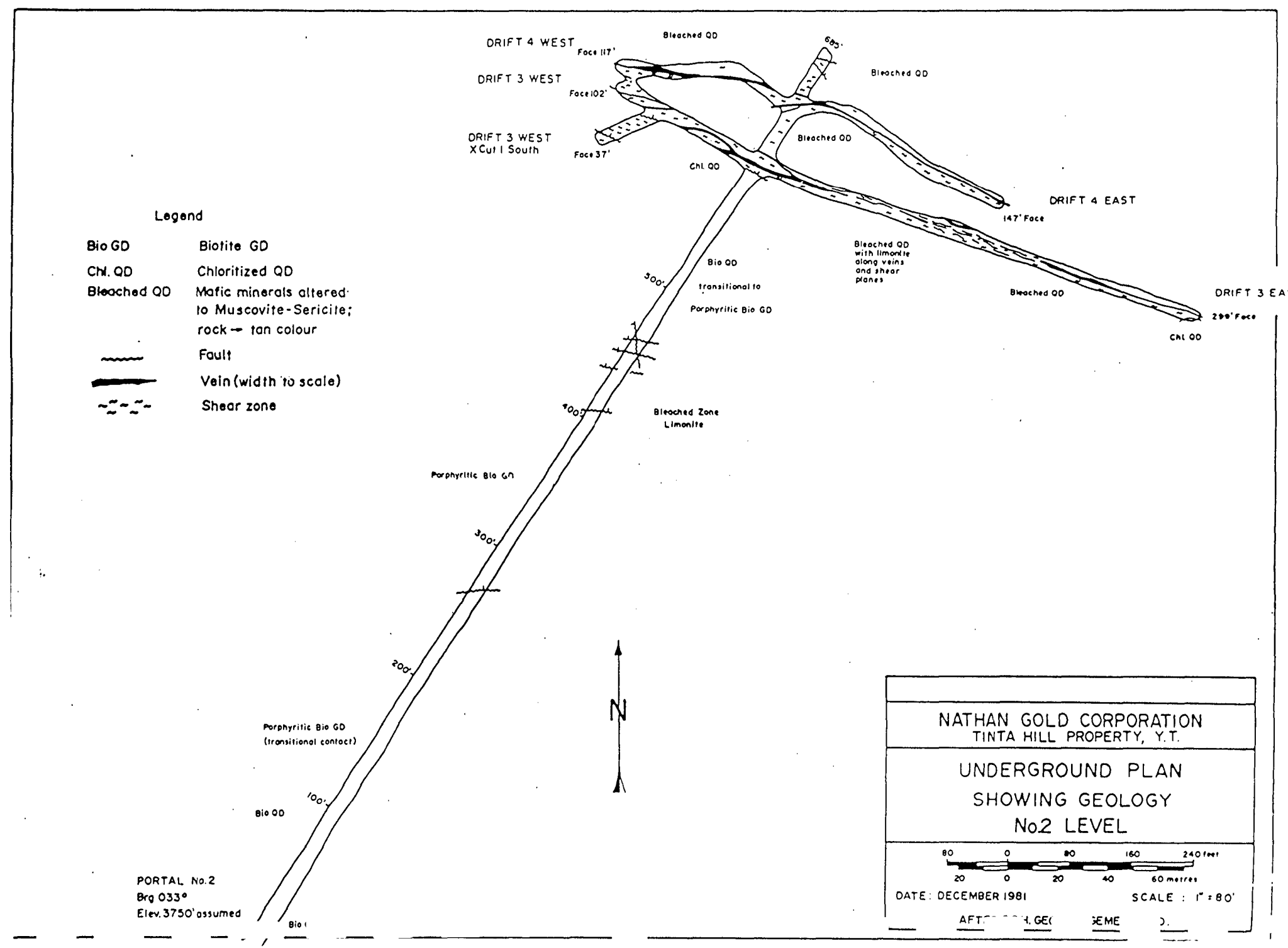
TINTA HILL, YUKON

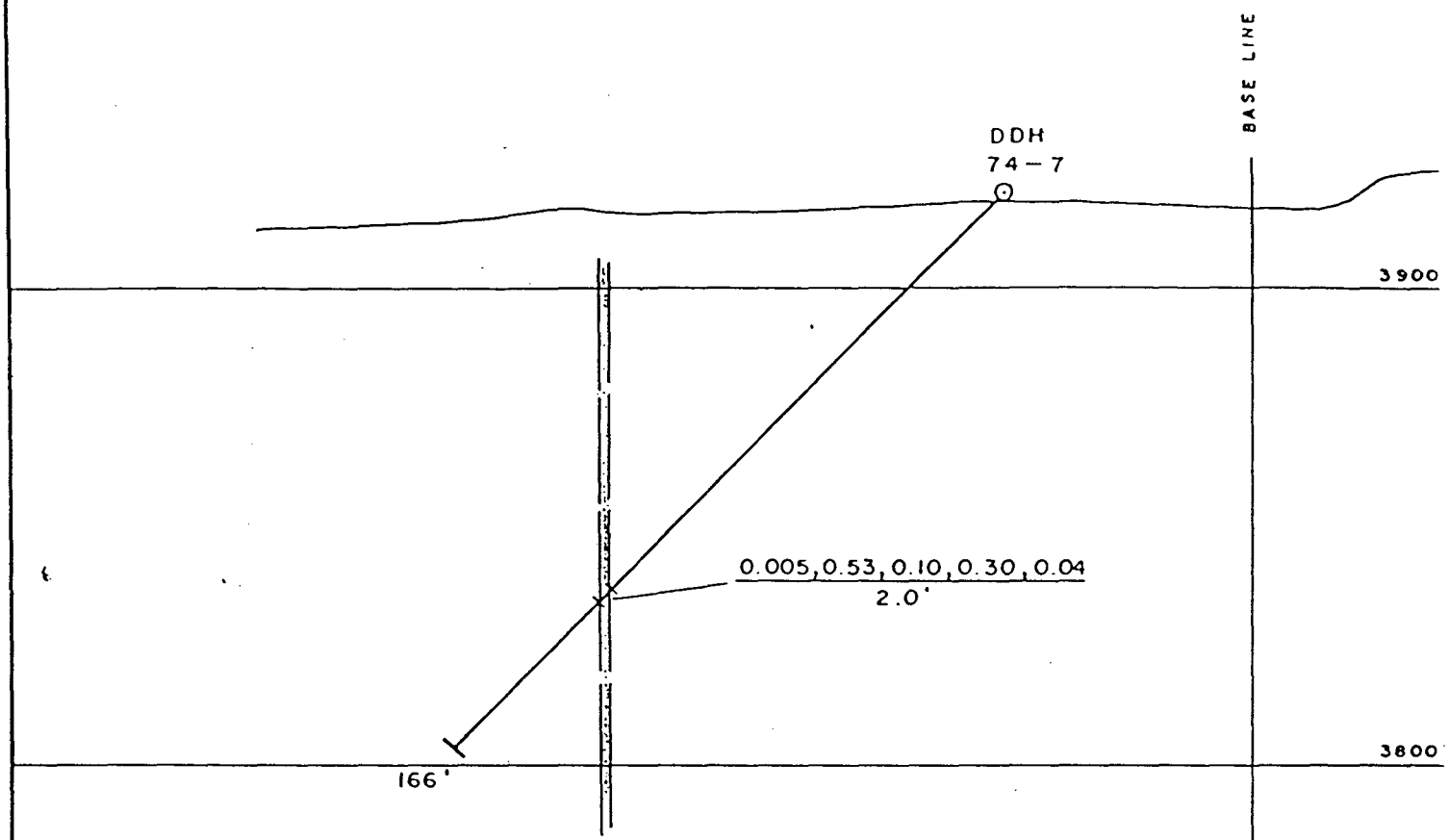
SCALE

Km. 1 0 1 2 3 4 5 Km.

SEPT. 1982


DRIFT 1 WEST
Face 514'
Limonite, azurite
Limonite in stringers
Limonite, azurite, malachite
Bleached QD
Py-ZnS stringers
Limonite in vein starts here
Py-ZnS stringers
Bleached QD
DRIFT 2 WEST
DRIFT 2 WEST
XCut 1 North
Face 630'
Bio QD
600'
Face 60'
Bio QD with Amphibolite inclusions
Bleached QD
Face 125'
Bio QD
500'
Stringer zone Bleached QD
Slightly Chl. QD
Stringers Py-ZnS
DRIFT 2 EAST
Face 95'
Bio QD
Porphyritic QD
400'
Bleached QD adj to fault
Bio QD
Chl. QD
Bleached QD
Bleached QD
Black Bio QD
200'
Fresh to slightly Chl. QD
100'
Amphibolit 80% bl. to Chl. Hb 20% with Feldspar
PORTAL No.1
Brg 030°
Elev. 3900' assumed
N
Chl. QD
Bleached QD
Face 272'
DRIFT 1 EAST
Legend
Bio GD Biotite GD
Chl. QD Chloritized QD
Bleached QD Mafic minerals altered to Muscovite-Sericite; hence rock → tan colour
Fault
Vein (width to scale)
Shear zone
NATHAN GOLD CORPORATION
TINTA HILL PROPERTY, Y.T.
UNDERGROUND PLAN
SHOWING GEOLOGY
No. 1 LEVEL
80 0 80 160 240 feet
20 0 20 40 60 metres
DATE: DECEMBER 1981
SCALE : 1" = 80'
DDH GEOMANAGEMENT LTD


DRIFT 4 WEST
Face 117'
DRIFT 3 WEST
Face 102'
DRIFT 3 WEST
X Cut 1 South
Face 37'
Bleached QD
685'
Bleached QD
Bleached QD
Chl QD
DRIFT 4 EAST
147' Face
Bleached QD with limonite along veins and shear planes
Bleached QD
DRIFT 3 EA
299' Face
Chl QD
Bio QD
transitional to
Porphyritic Bio GD
300'
400'
Bleached Zone
Limonite
Porphyritic Bio GD
300'
200'
Porphyritic Bio GD
(transitional contact)
100'
Bio QD
PORTAL No. 2
Brg 033°
Elev. 3750' assumed
Bio
Legend
Bio GD Biotite GD
Chl. QD Chloritized QD
Bleached QD Mafic minerals altered to Muscovite-Sericite; rock — tan colour
Fault
Vein (width to scale)
Shear zone
N
NATHAN GOLD CORPORATION
TINTA HILL PROPERTY, Y.T.
UNDERGROUND PLAN
SHOWING GEOLOGY
No.2 LEVEL
80 0 80 160 240 feet
20 0 20 40 60 metres
DATE: DECEMBER 1981
SCALE : 1" = 80'



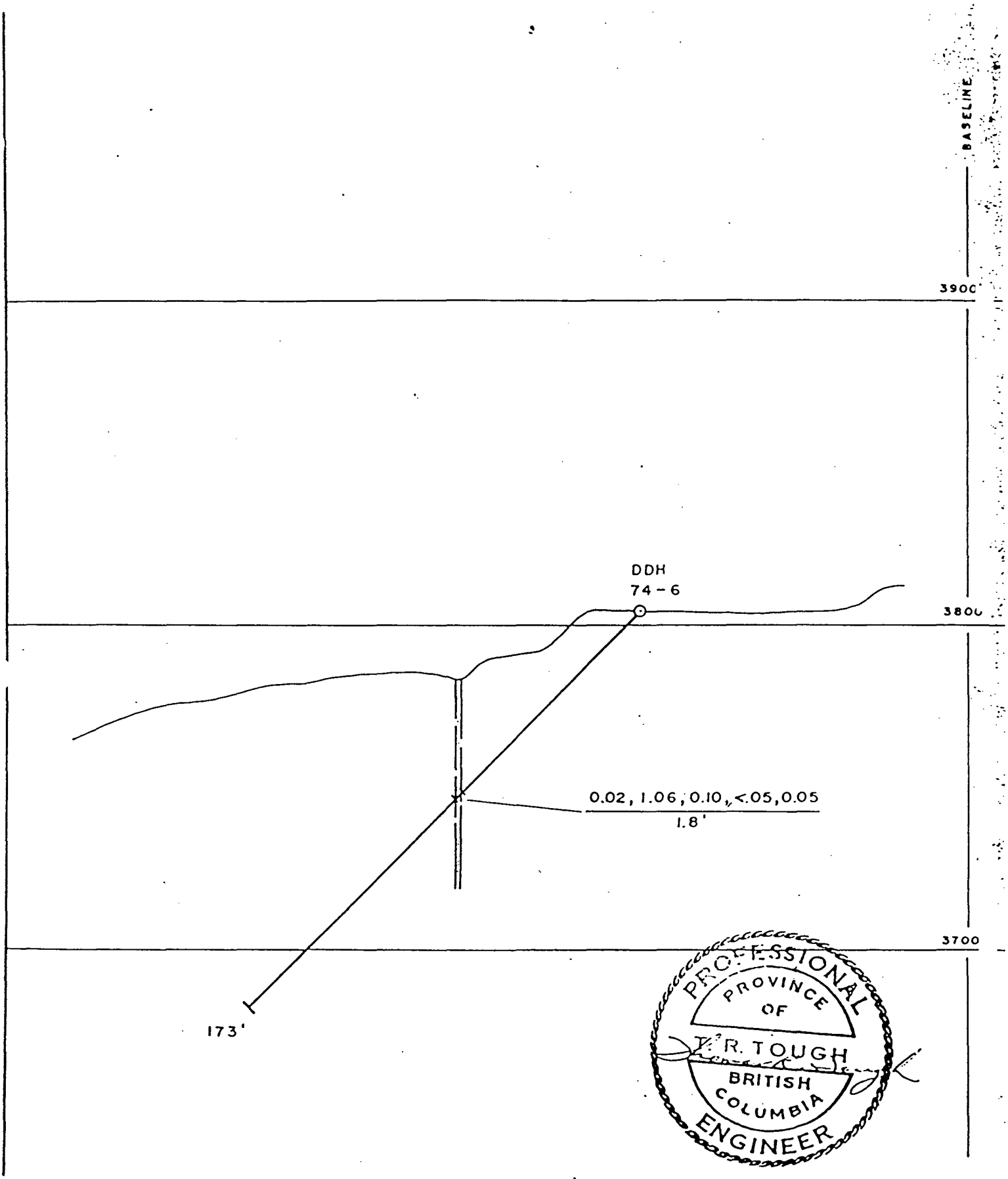
PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
A. R. TOUGH

TINTA HILL PROPERTY
SECTION 10+00W

LOOKING NORTH WEST
TINTA HILL, YUKON

SCALE
FEET 40 0 40 FEET

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



PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
T. R. TOUGH

ASSAY SEQUENCE

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

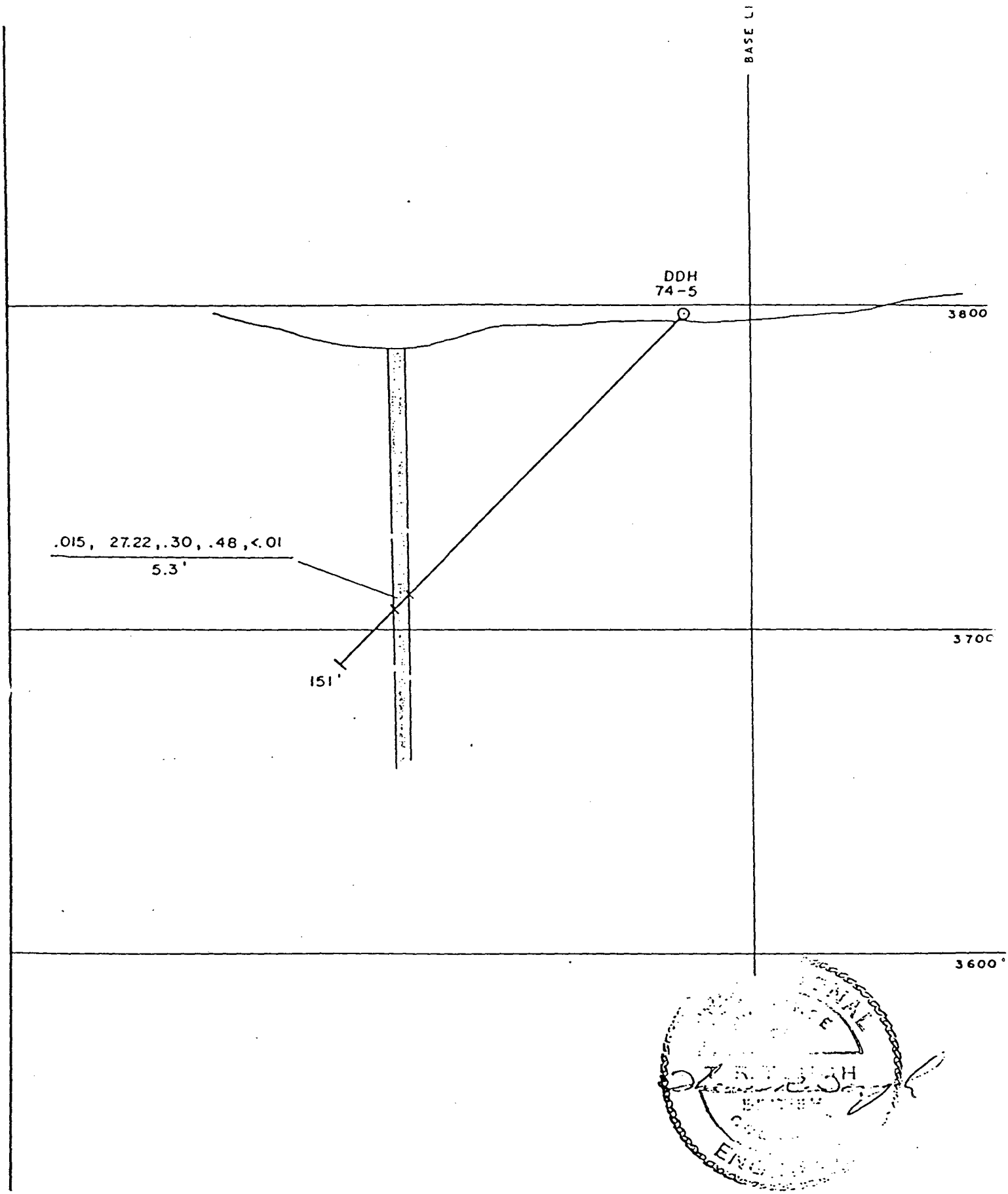
True width in feet

TINTA HILL PROPERTY
SECTION 5+00W

LOOKING NORTH WEST
TINTA HILL, YUKON

SCALE

FEET 40 0 40 FEET



'ASSAY SEQUENCE

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

. True width in feet

TINTA HILL PROPERTY

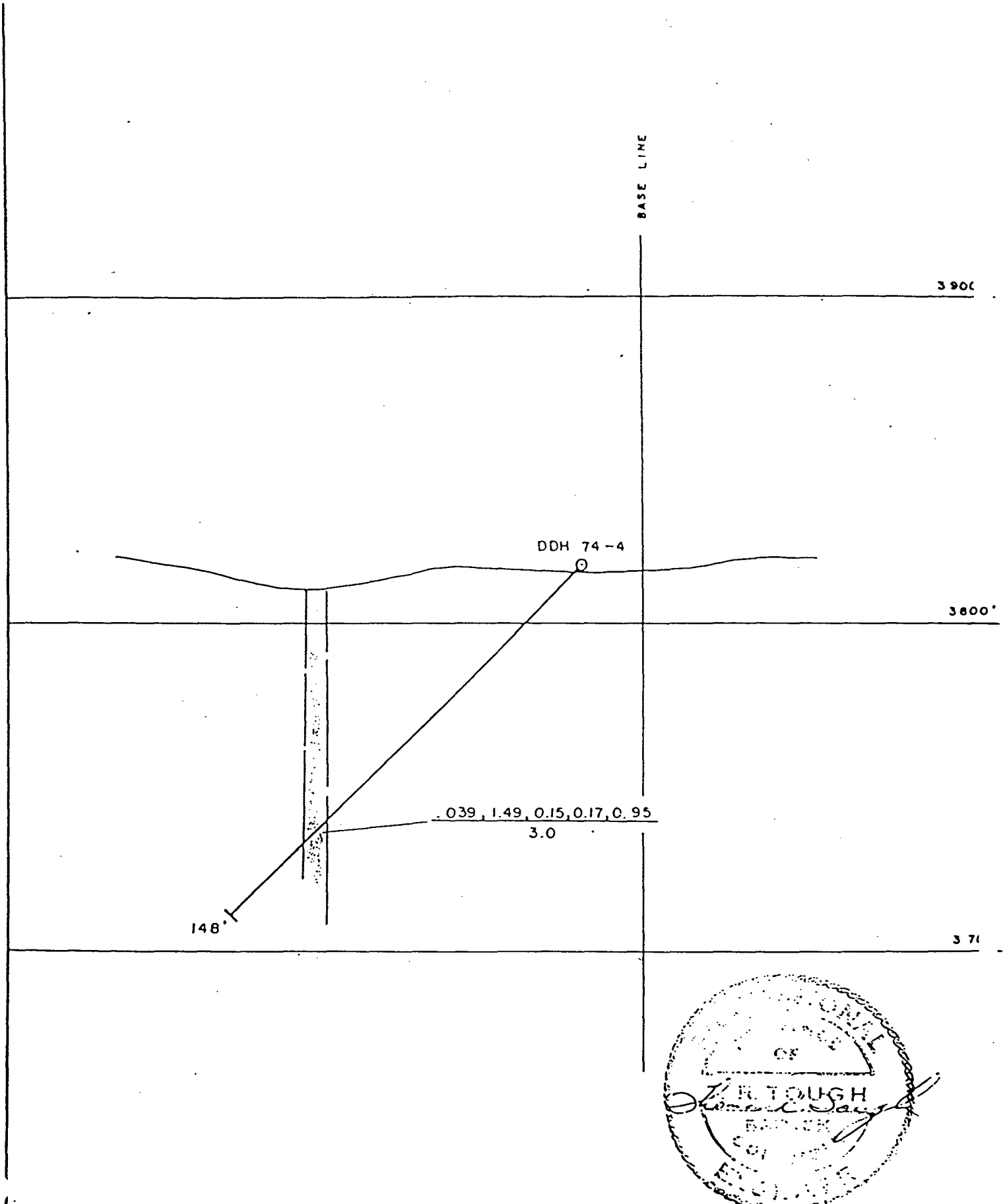
SECTION 0+00

LOOKING NORTH WEST

TINTA HILL, YUKON

SCALE

FEET 40 0 40 FEET



TINTA HILL PROPERTY

SECTION 2+00E

LOOKING NORTH WEST

TINTA HILL, YUKON

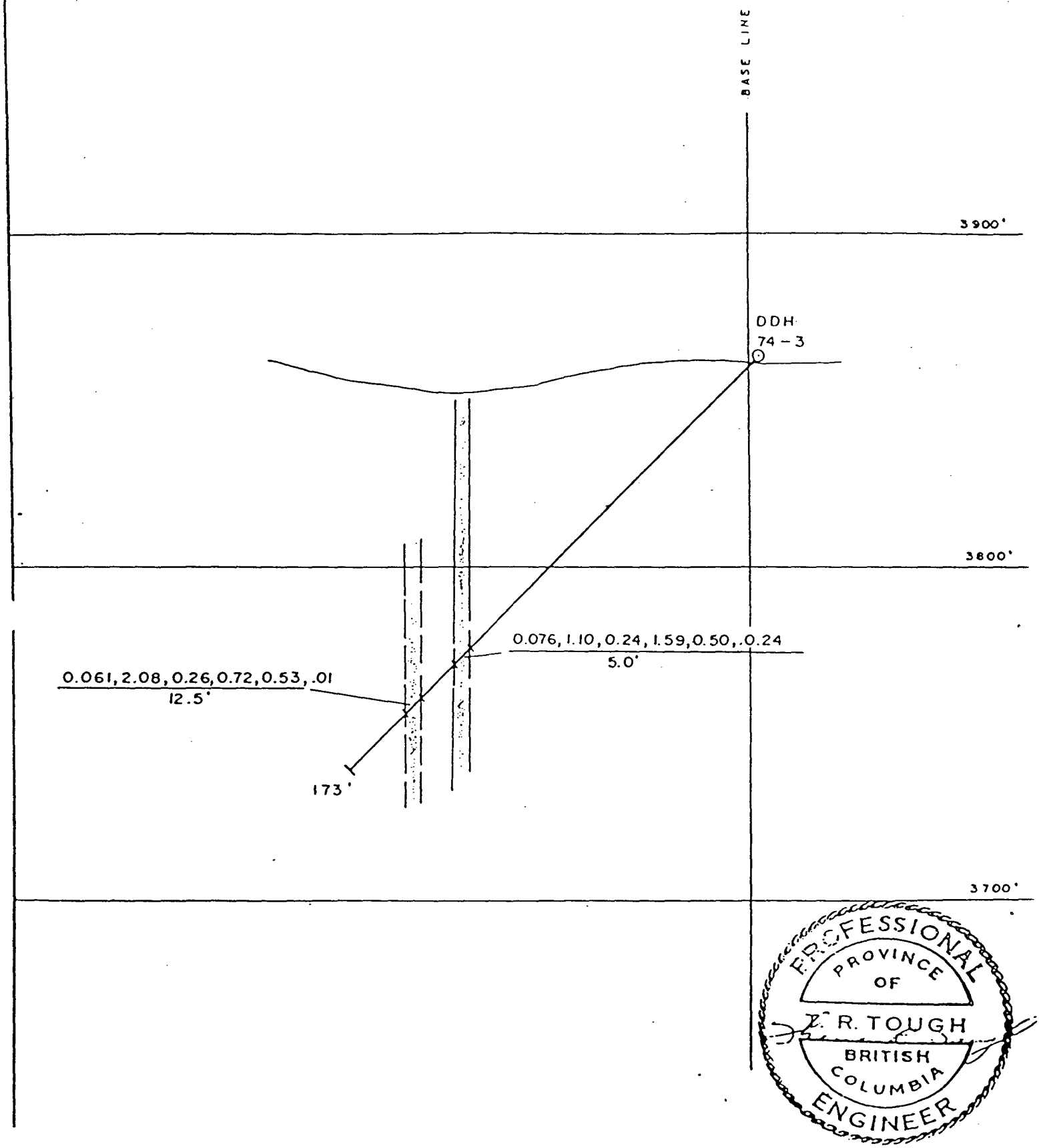
SCALE

FEET 40 0 40 FEET

ASSAY SEQUENCE

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

True width in feet



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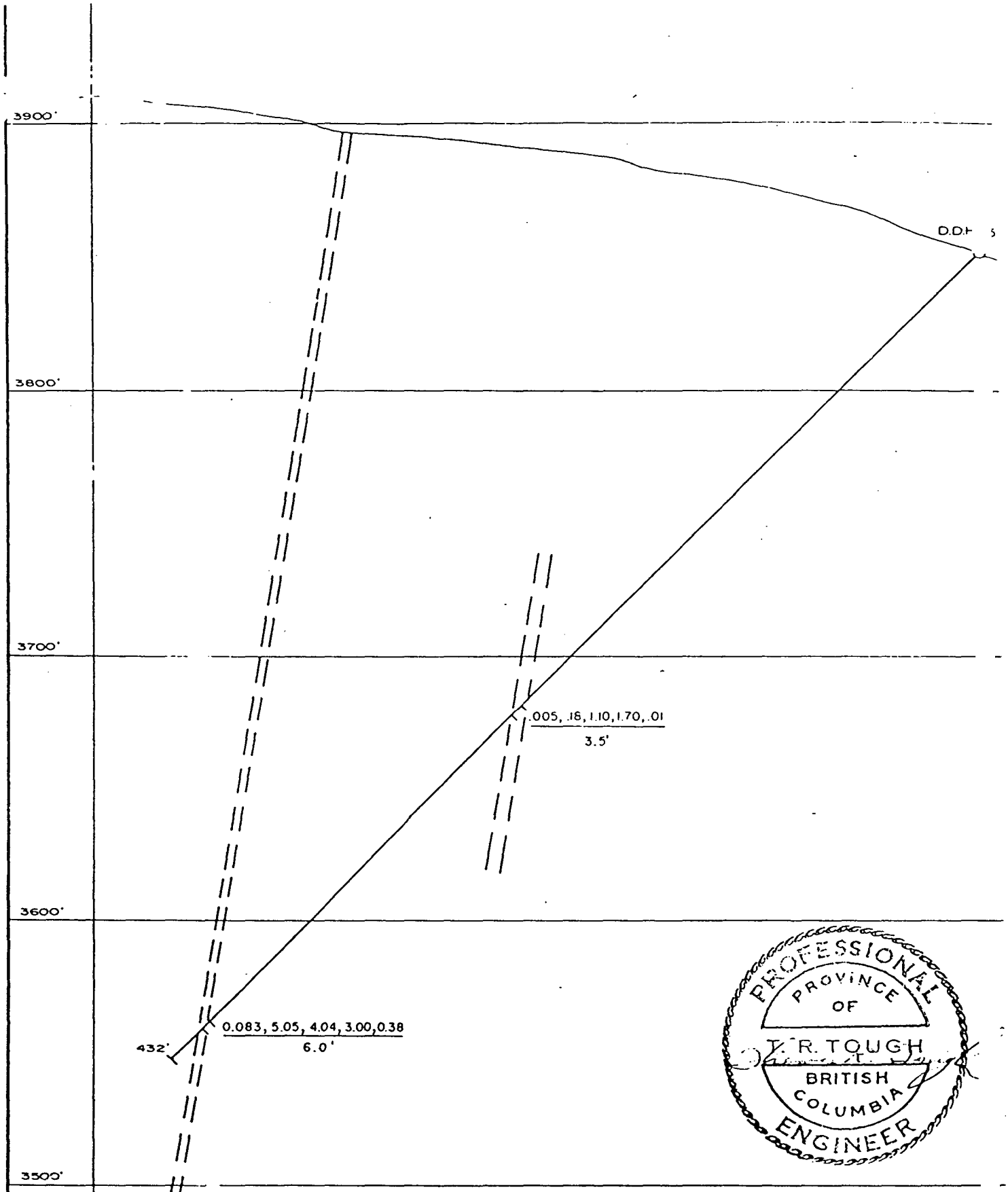
E. R. TOUGH

TINTA HILL PROPERTY
SECTION 5+00E

LOOKING NORTH WEST
TINTA HILL, YUKON

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

SCALE
FEET 40 0 40 FEET



PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
T. R. TOUGH

ASSAY SEQUENCE

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

True Width in Feet

T.R. TOUGH & ASSOCIATES LTD.

TINTA HILL PROPERTY

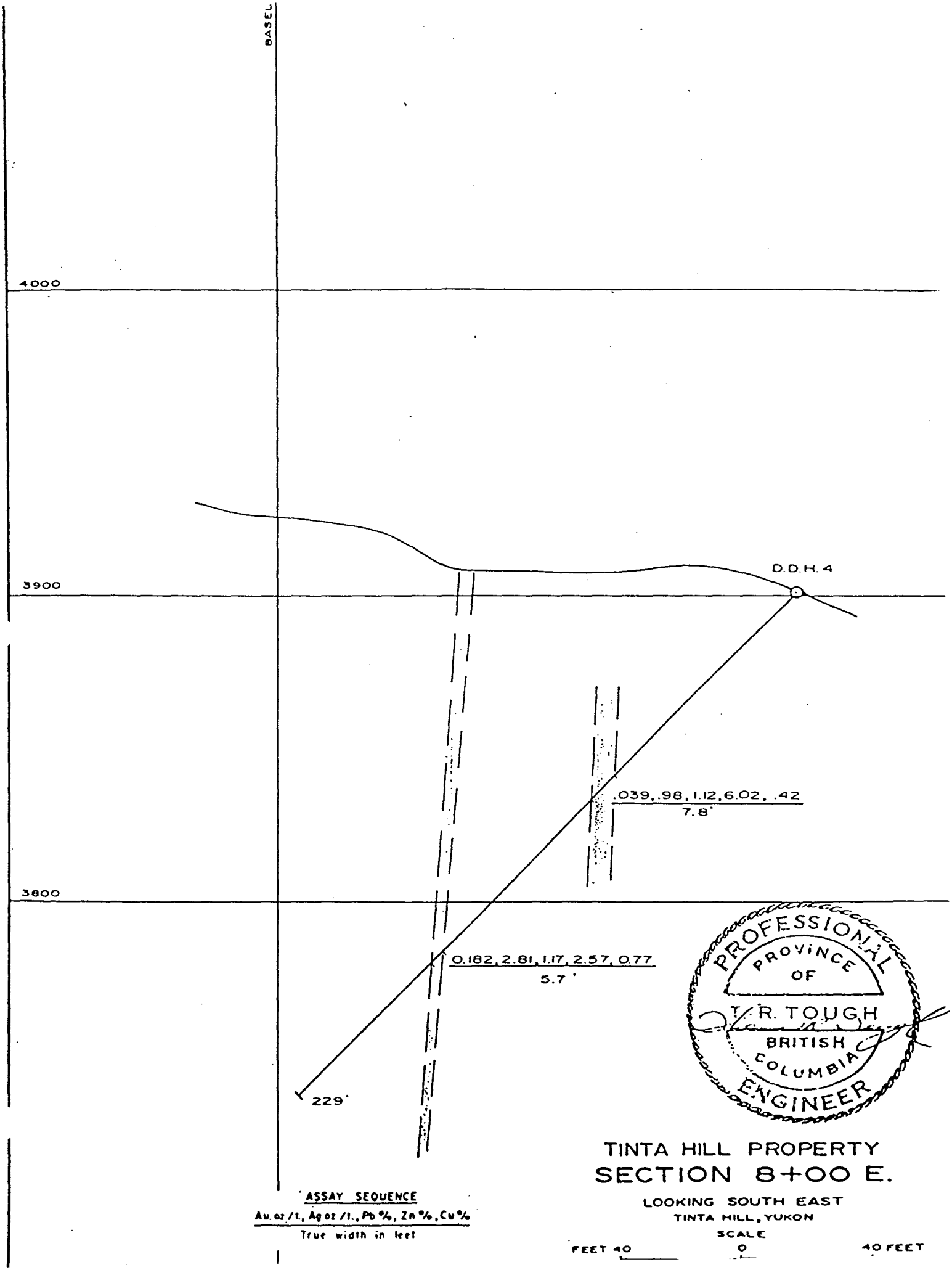
SECTION 7+00 E.

LOOKING SOUTH-EAST

TINTA HILL, YUKON

SCALE

FEET 50 0 50 FEET



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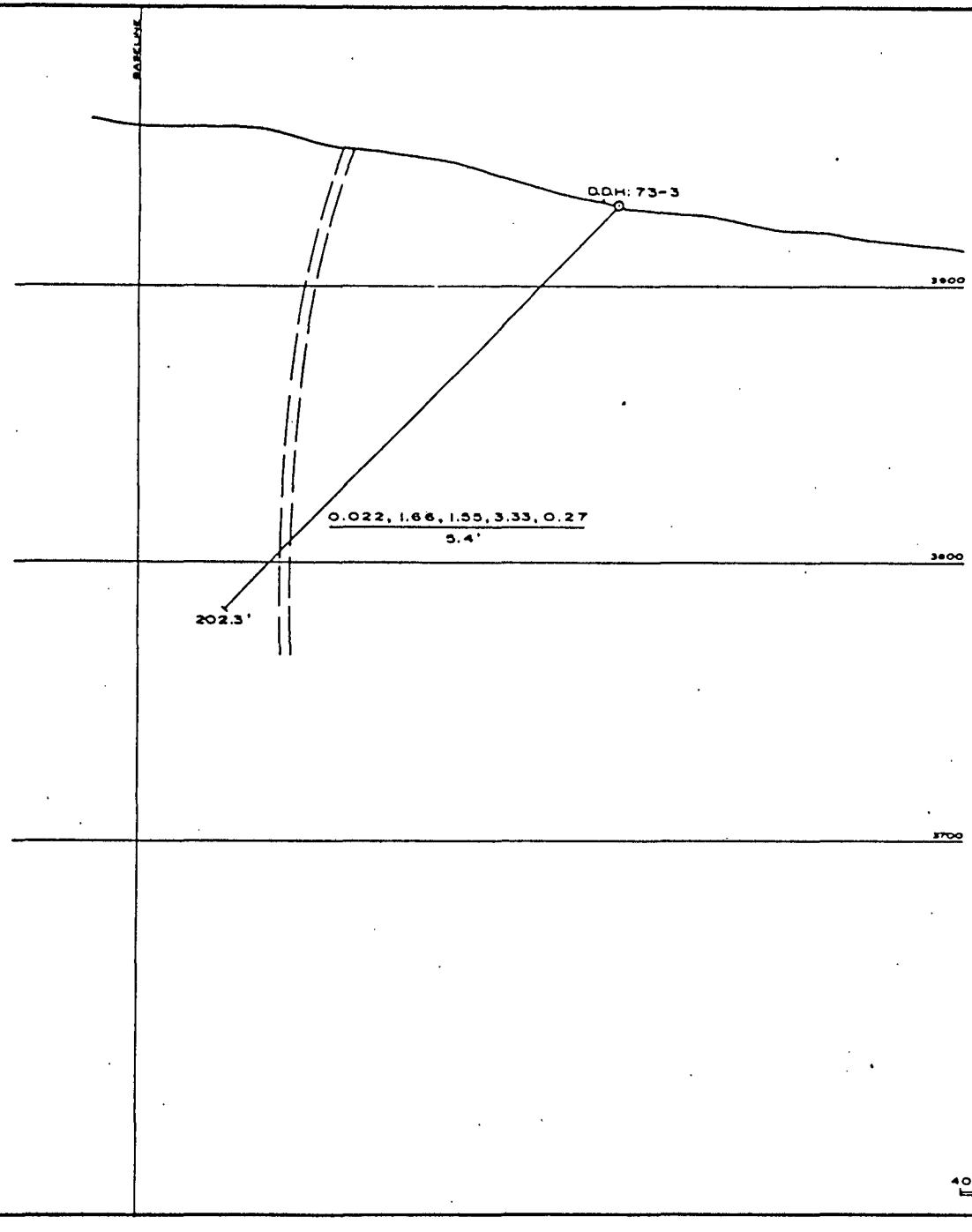
T. R. TOUGH

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

TINTA HILL PROPERTY
SECTION 8+00 E.

LOOKING SOUTH EAST
TINTA HILL, YUKON
SCALE
FEET 40 0 40 FEET



PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
J. R. TAUGH

ASSAY SEQUENCE

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

TINTA HILL PROPERTY

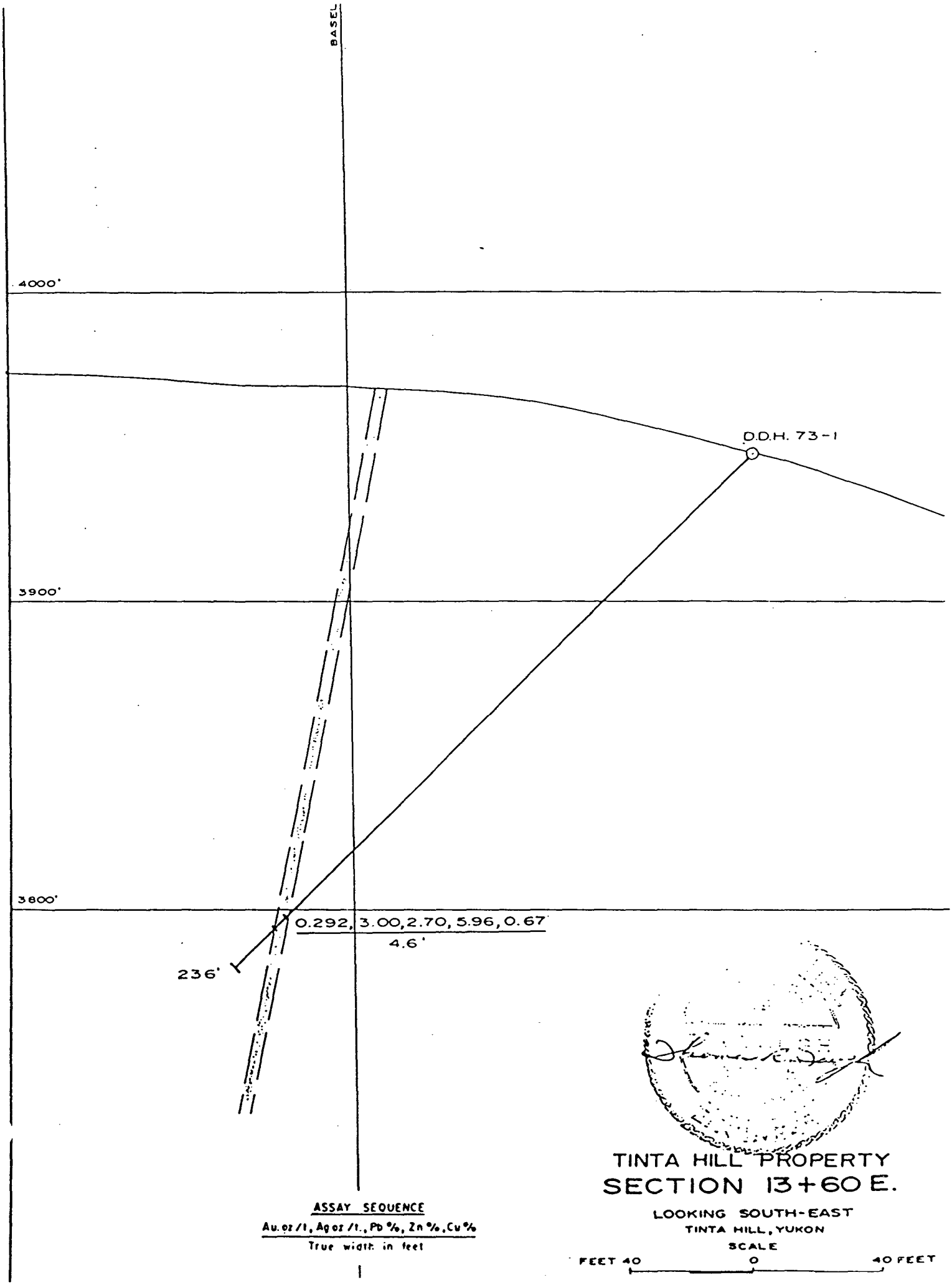
SECTION 10 +00E

LOOKING SOUTHEAST
TINTA HILL, YUKON

SCALE IN FEET

40 20 0 40 80 120

SEPT, 1974



ASSAY SEQUENCE

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

True width in feet

TINTA HILL PROPERTY

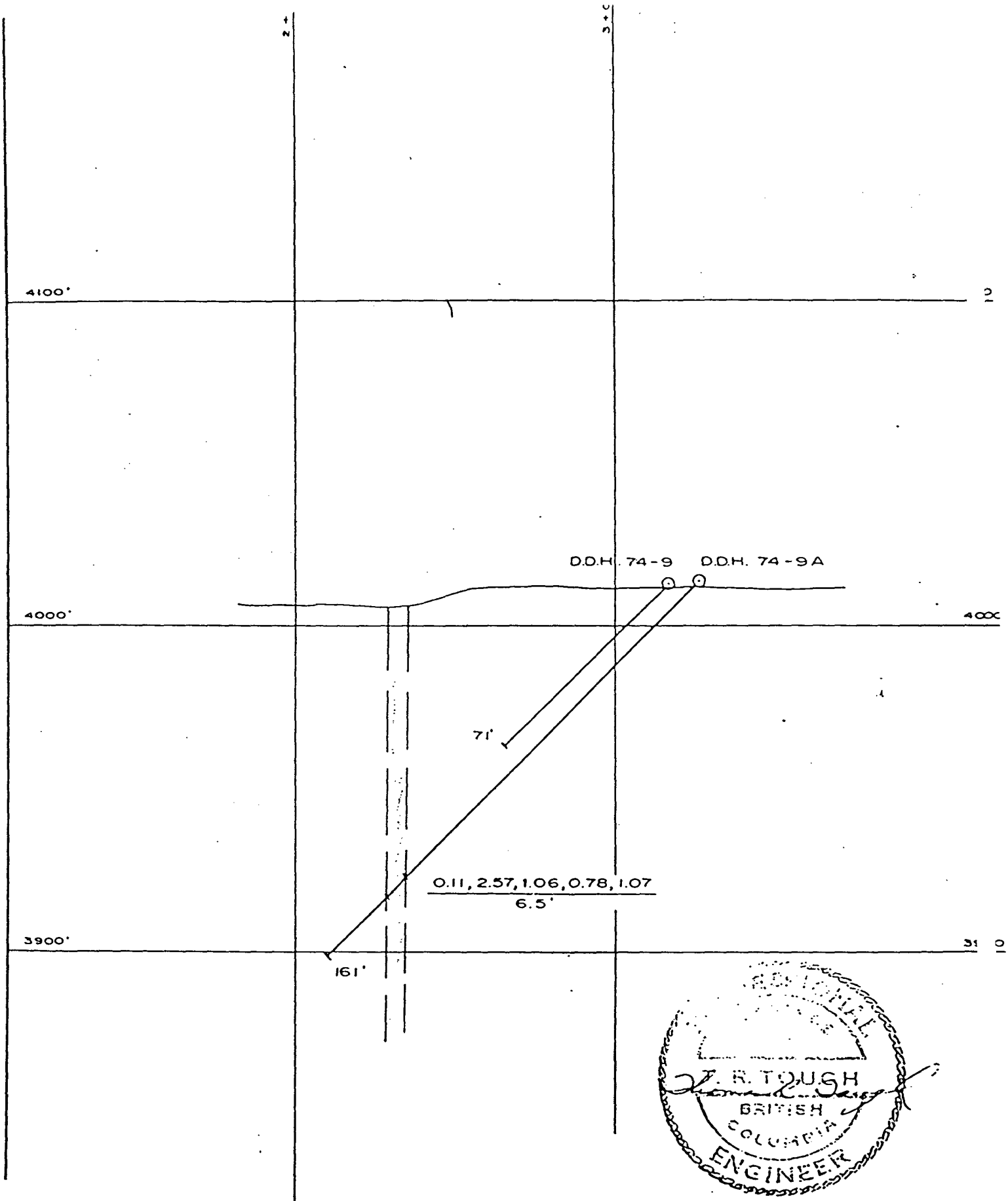
SECTION 13+60 E.

LOOKING SOUTH-EAST

TINTA HILL, YUKON

SCALE

FEET 40 0 40 FEET



ASSAY SEQUENCE

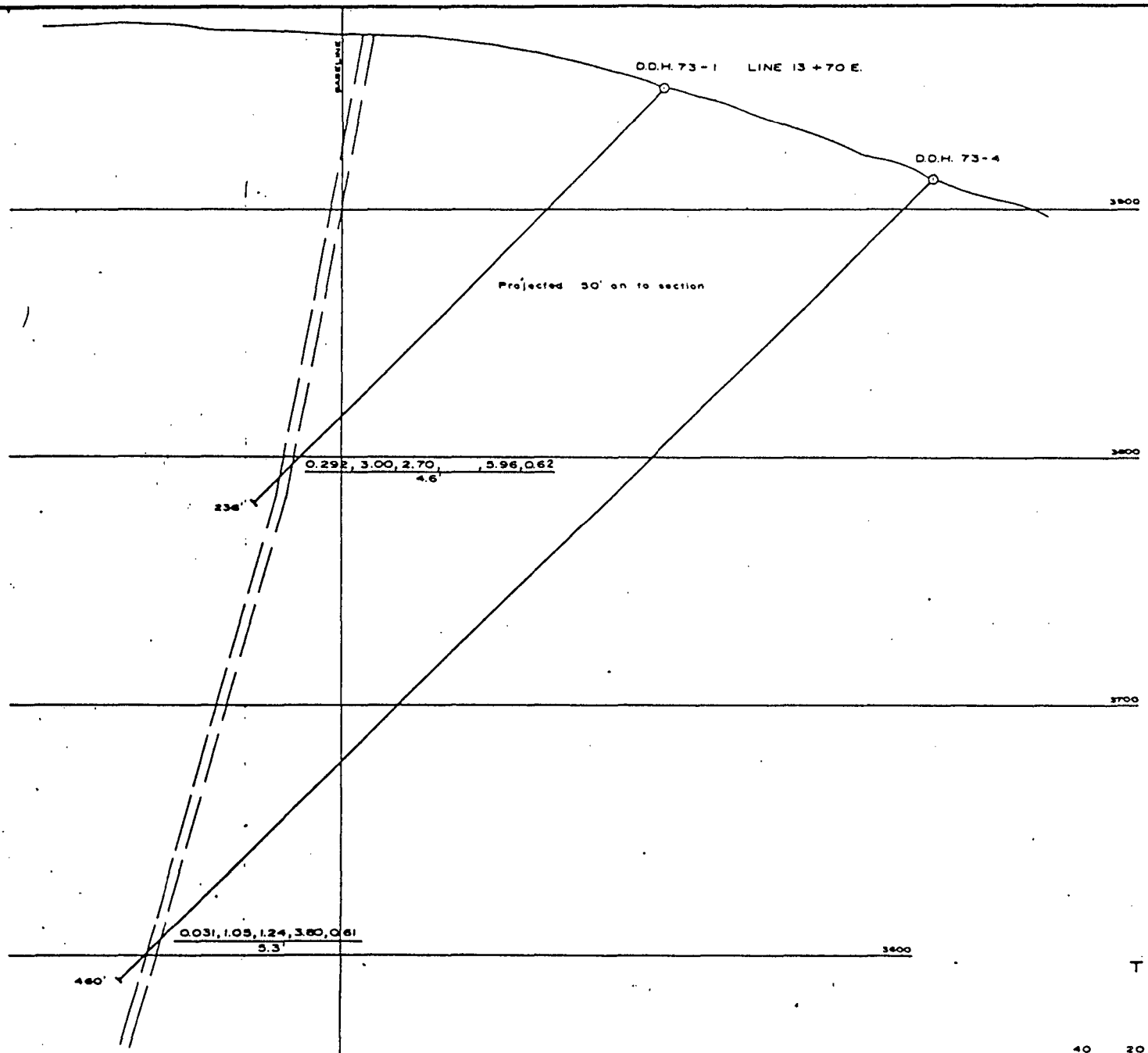
Au oz/t, Ag oz/t., Pb%, Zn%, Cu%

True width in feet

J. R. TOUGH
BRITISH COLUMBIA
ENGINEER

TINTA HILL PROPERTY
SECTION 14+00 E.

LOOKING NORTH-WEST
TINTA HILL, YUKON
SCALE
FEET 40 0 40 FEET



PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
J. R. TOUGH

ASSAY SEQUENCE

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

True width in feet

TINTA HILL PROPERTY

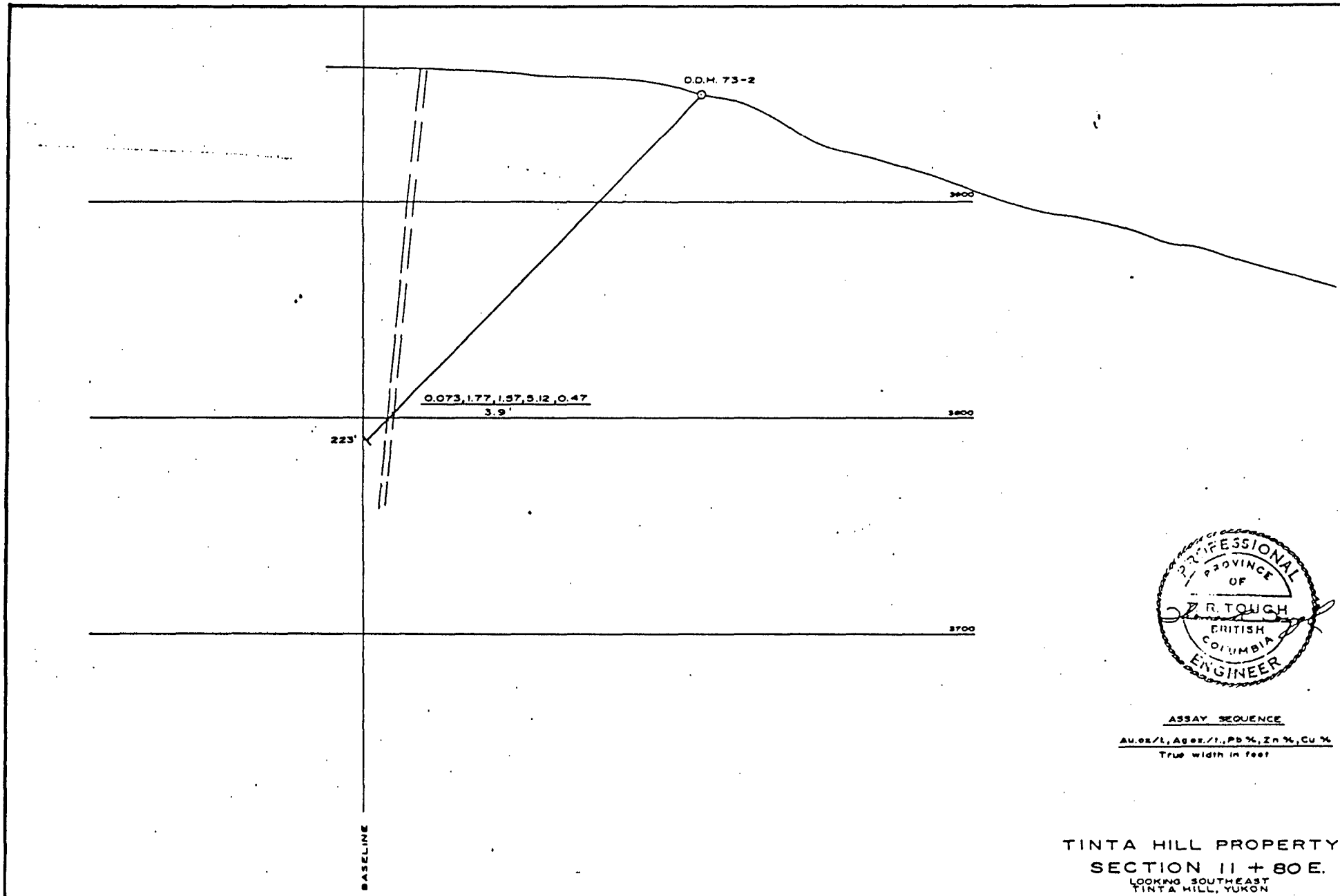
SECTION 14+20E.

LOOKING SOUTHEAST
TINTA HILL, YUKON

SCALE IN FEET

40 20 0 40 80 120

SEPT., 1974



PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
D. R. TOUGH

ASSAY SEQUENCE

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

True width in feet

TINTA HILL PROPERTY

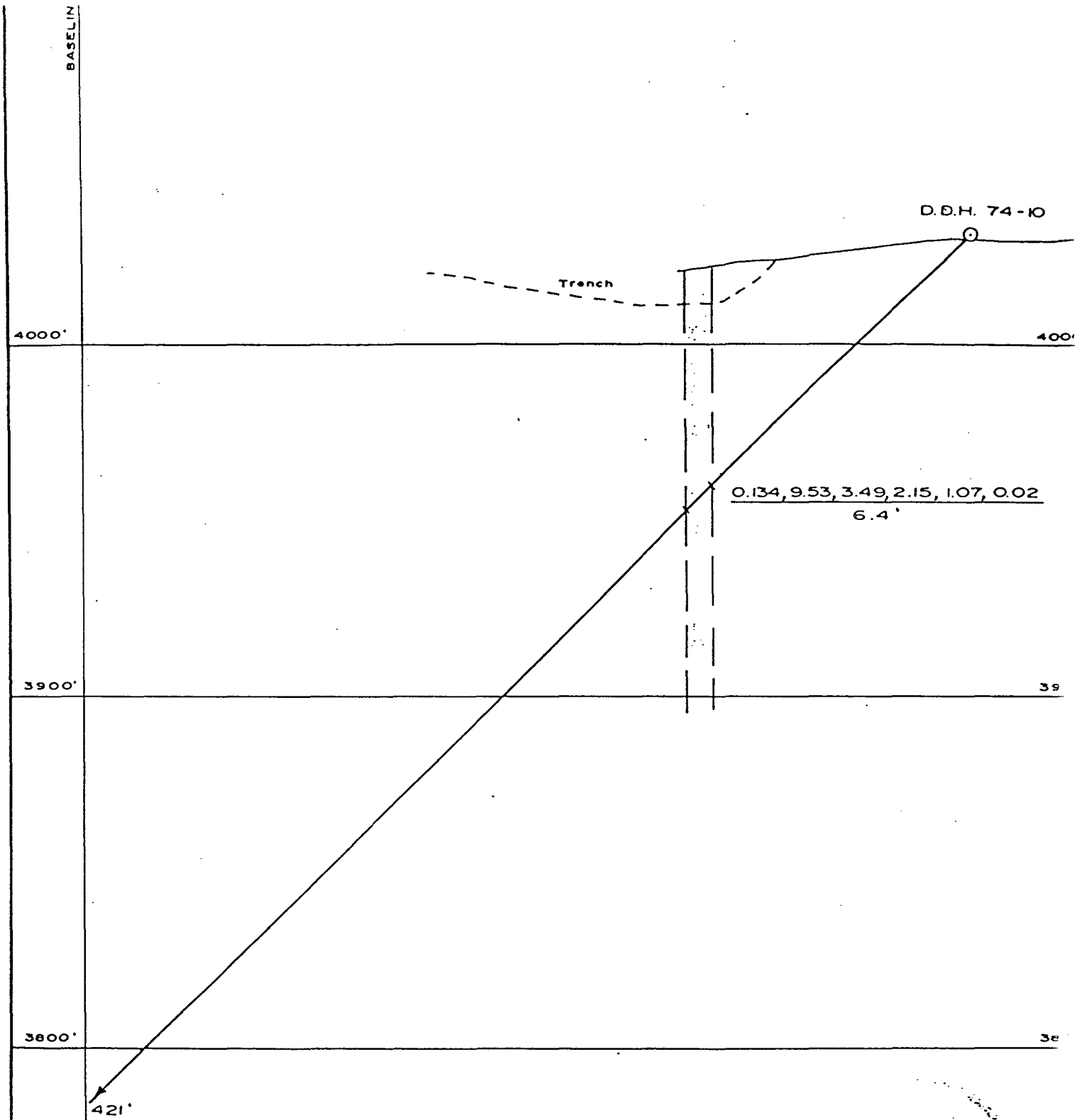
SECTION 11 + 80 E.

LOOKING SOUTHEAST
TINTA HILL, YUKON

SCALE IN FEET

40 20 0 40 80 120

SEPT., 1974



ASSAY SEQUENCE

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

True width in feet

TINTA HILL PROPERTY

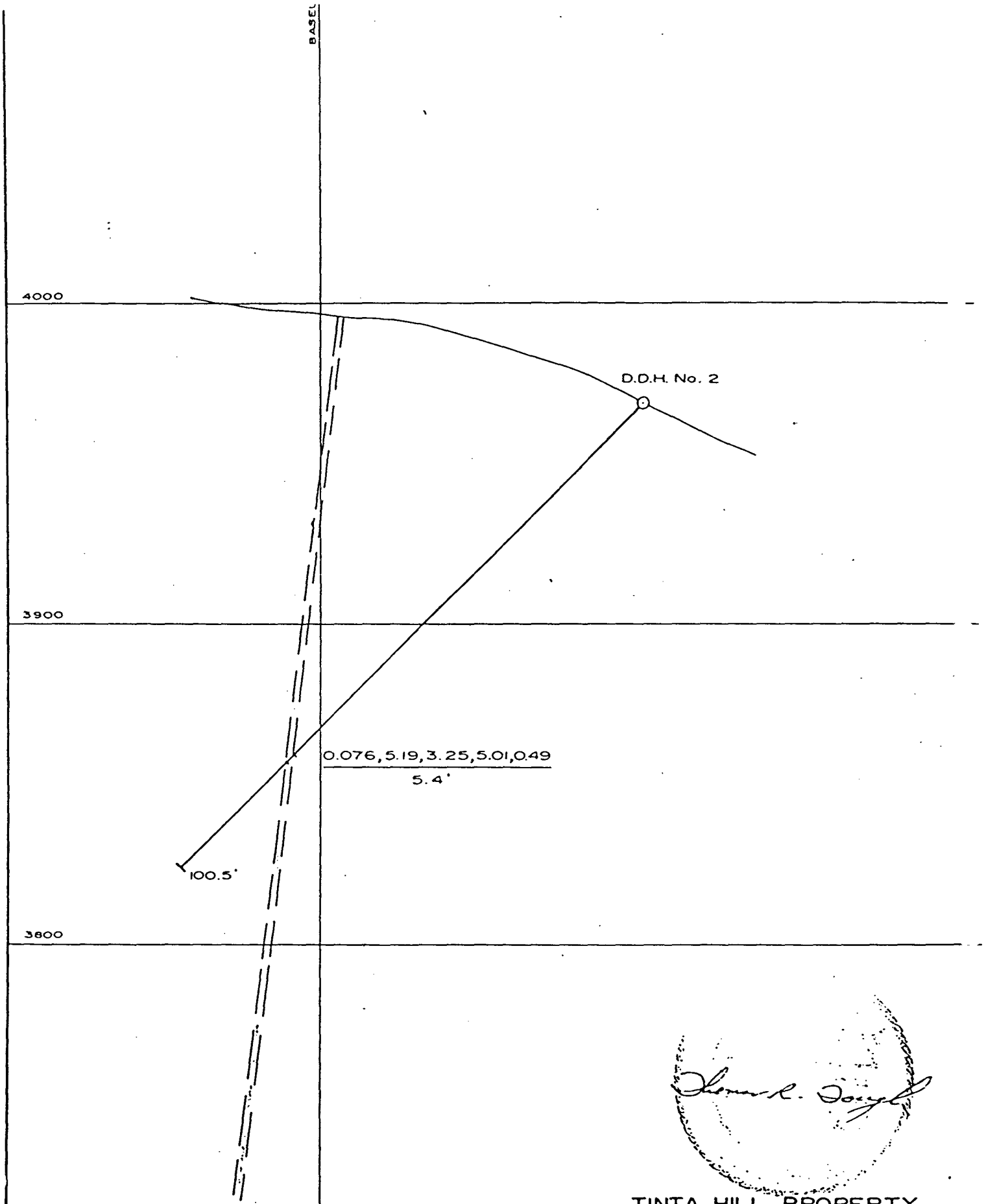
SECTION 16+00 E.

LOOKING NORTH WEST

TINTA HILL, YUKON

SCALE

FEET 40 0 40 FEET



ASSAY SEQUENCE

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

True width in feet

TINTA HILL PROPERTY

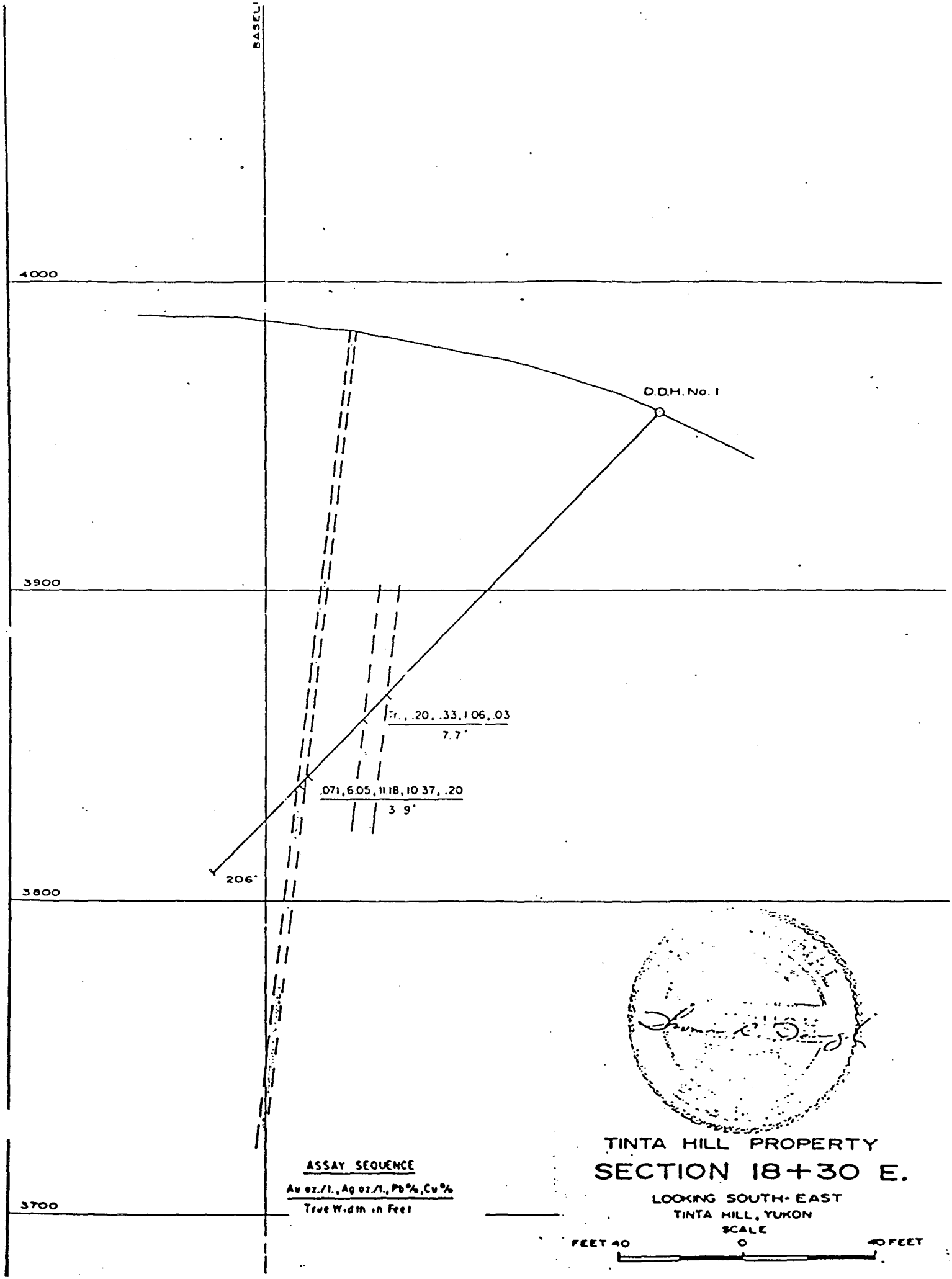
SECTION 16+20 E.

LOOKING SOUTH-EAST

TINTA HILL, YUKON

SCALE

FEET 40 0 40 FEET



ASSAY SEQUENCE

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

True Width in Feet

TINTA HILL PROPERTY

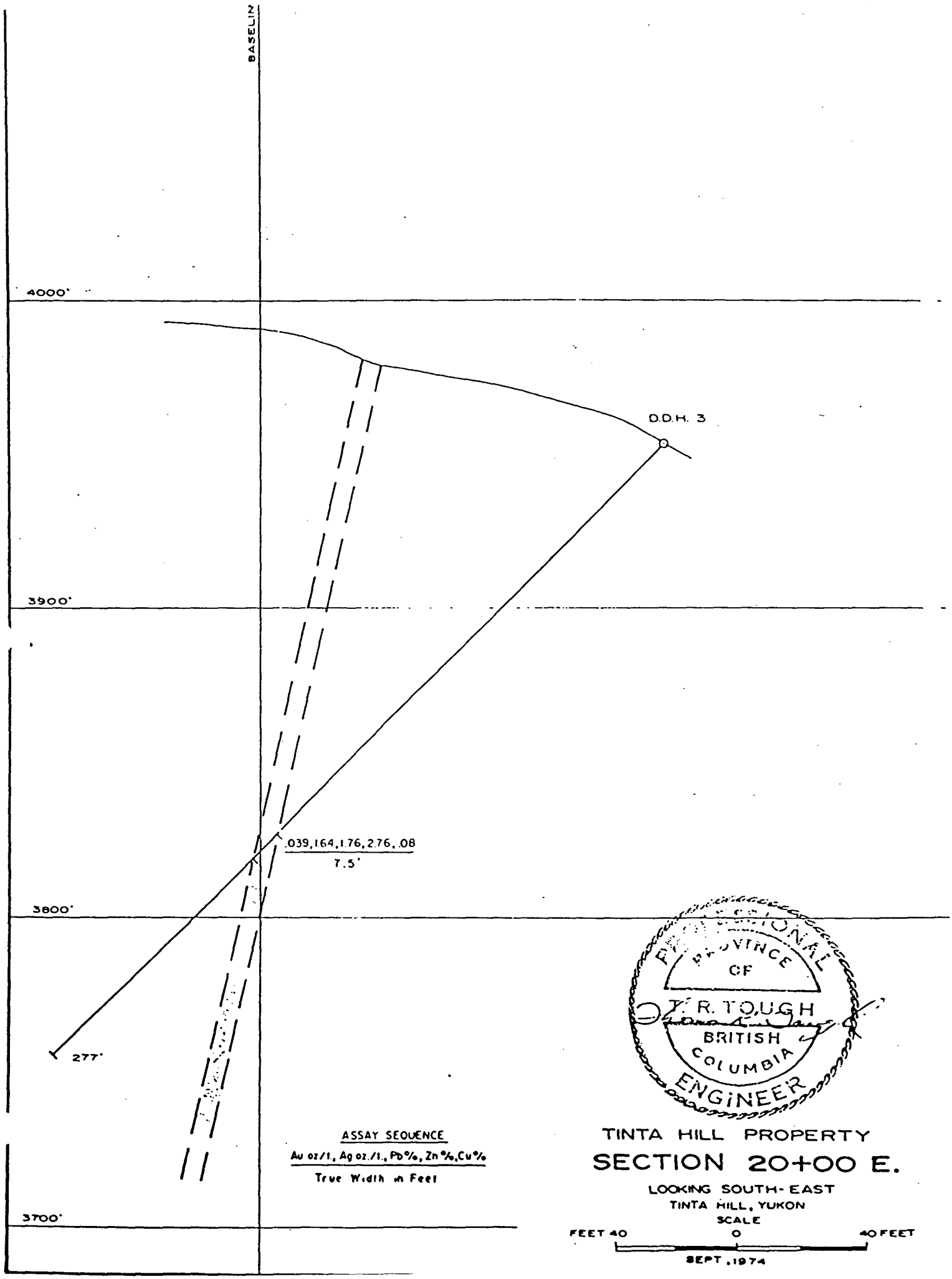
SECTION 18+30 E.

LOOKING SOUTH-EAST

TINTA HILL, YUKON

SCALE

FEET 40 0 40 FEET



ASSAY SEQUENCE

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

True Width in Feet

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BRITISH COLUMBIA
J. R. TOUGH

TINTA HILL PROPERTY

SECTION 20+00 E.

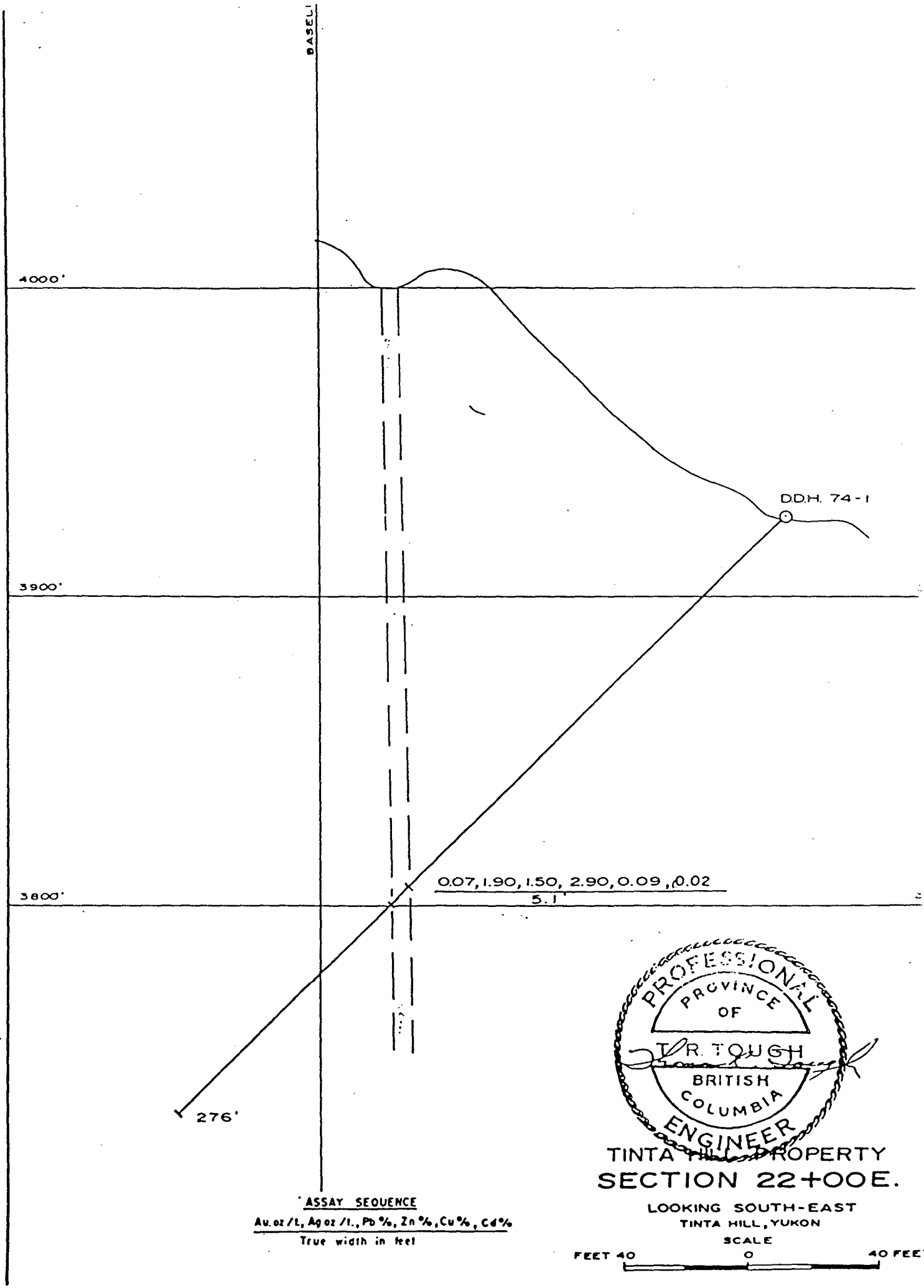
LOOKING SOUTH-EAST

TINTA HILL, YUKON

SCALE

FEET 40 0 40 FEET

SEPT., 1974



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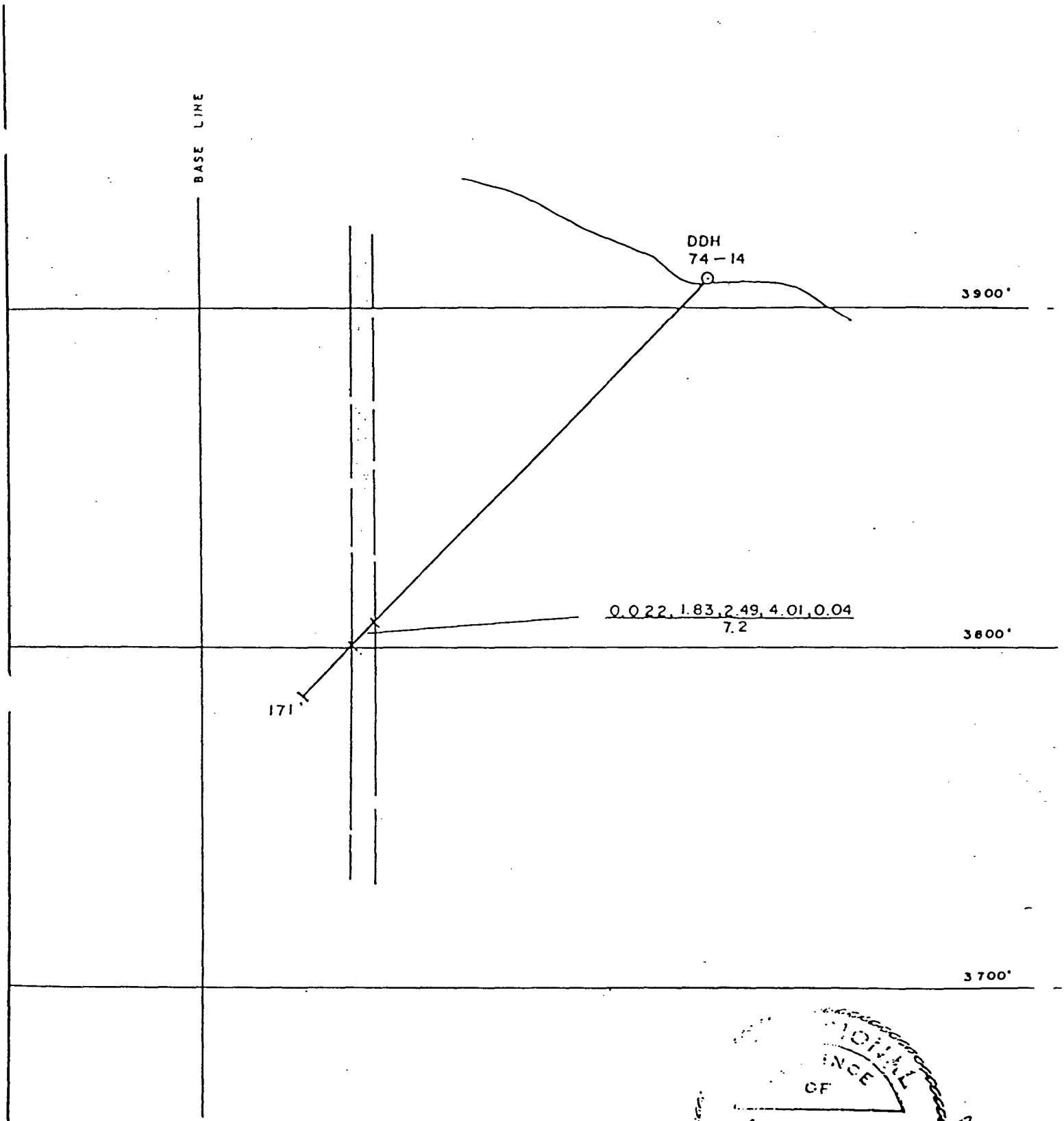
T.R. TOUGH

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

TINTA HILL PROPERTY
SECTION 22+00E.
LOOKING SOUTH-EAST
TINTA HILL, YUKON
SCALE
FEET 40 0 40 FEET



ASSAY SEQUENCE

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

True width in feet

PROFESSIONAL ENGINEER OF BRITISH COLUMBIA

TINTA HILL PROPERTY

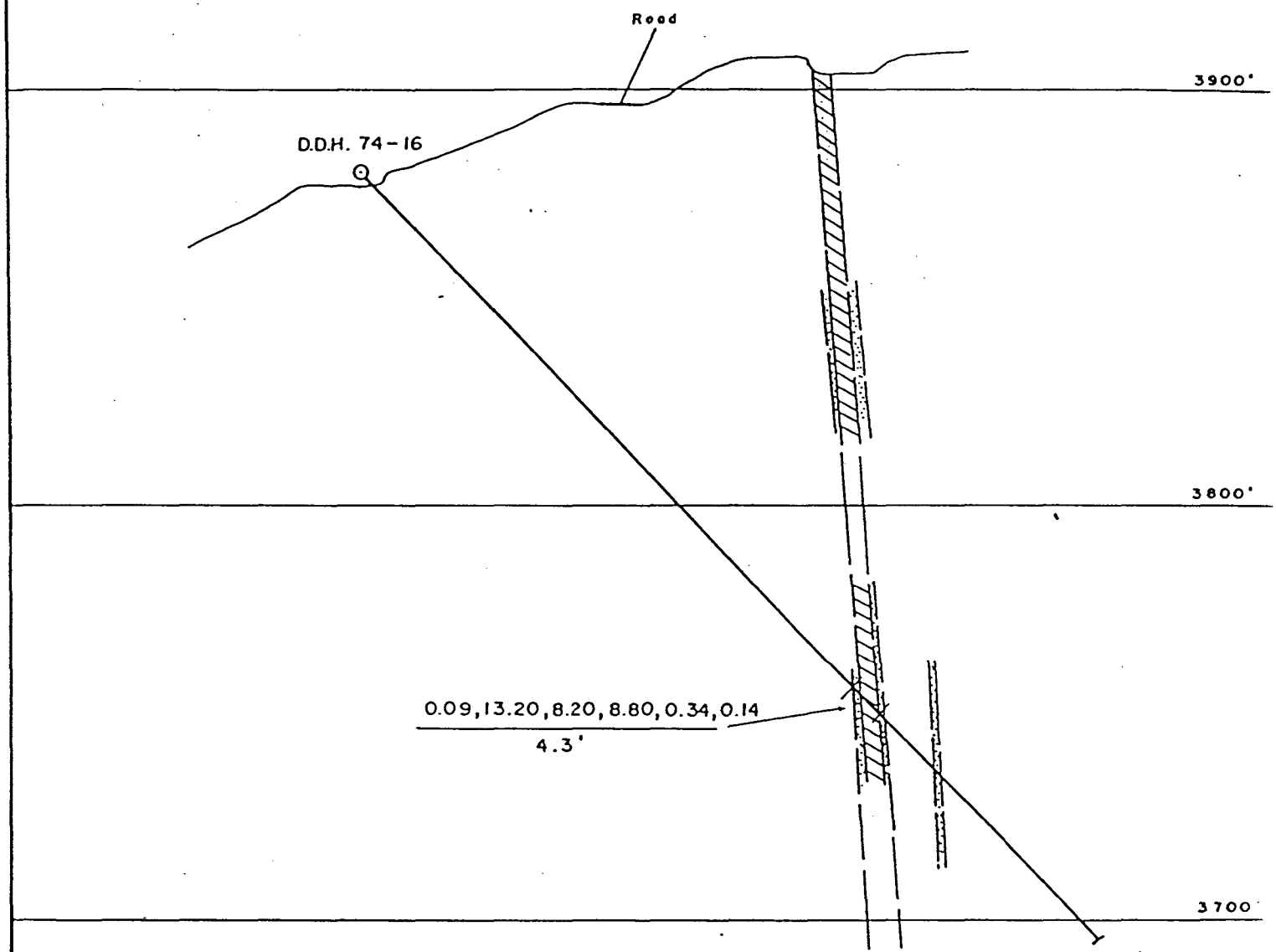
SECTION 23+40E

LOOKING SOUTH EAST

TINTA HILL, YUKON

SCALE

FEET 40 0 40 FEET



HIGH GRADE

DISSEMINATED

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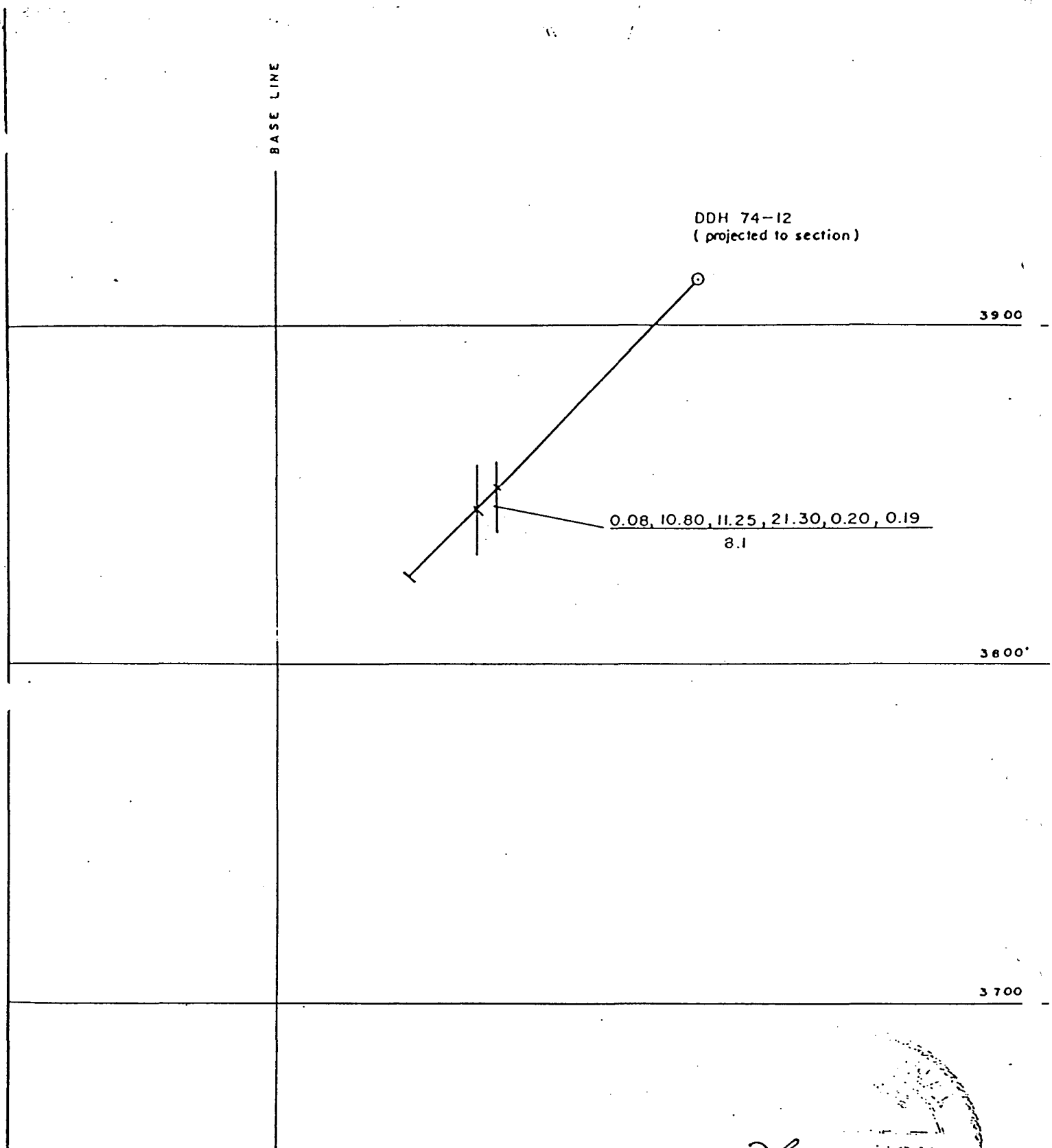
J. R. TOUGH

TINTA HILL PROPERTY
SECTION 24+50E

LOOKING NORTHWEST
TINTA HILL, YUKON

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

SCALE
FEET 40 0 40 FEET



TINTA HILL PROPERTY

SECTION 24+50E

LOOKING SOUTH EAST

TINTA HILL, YUKON

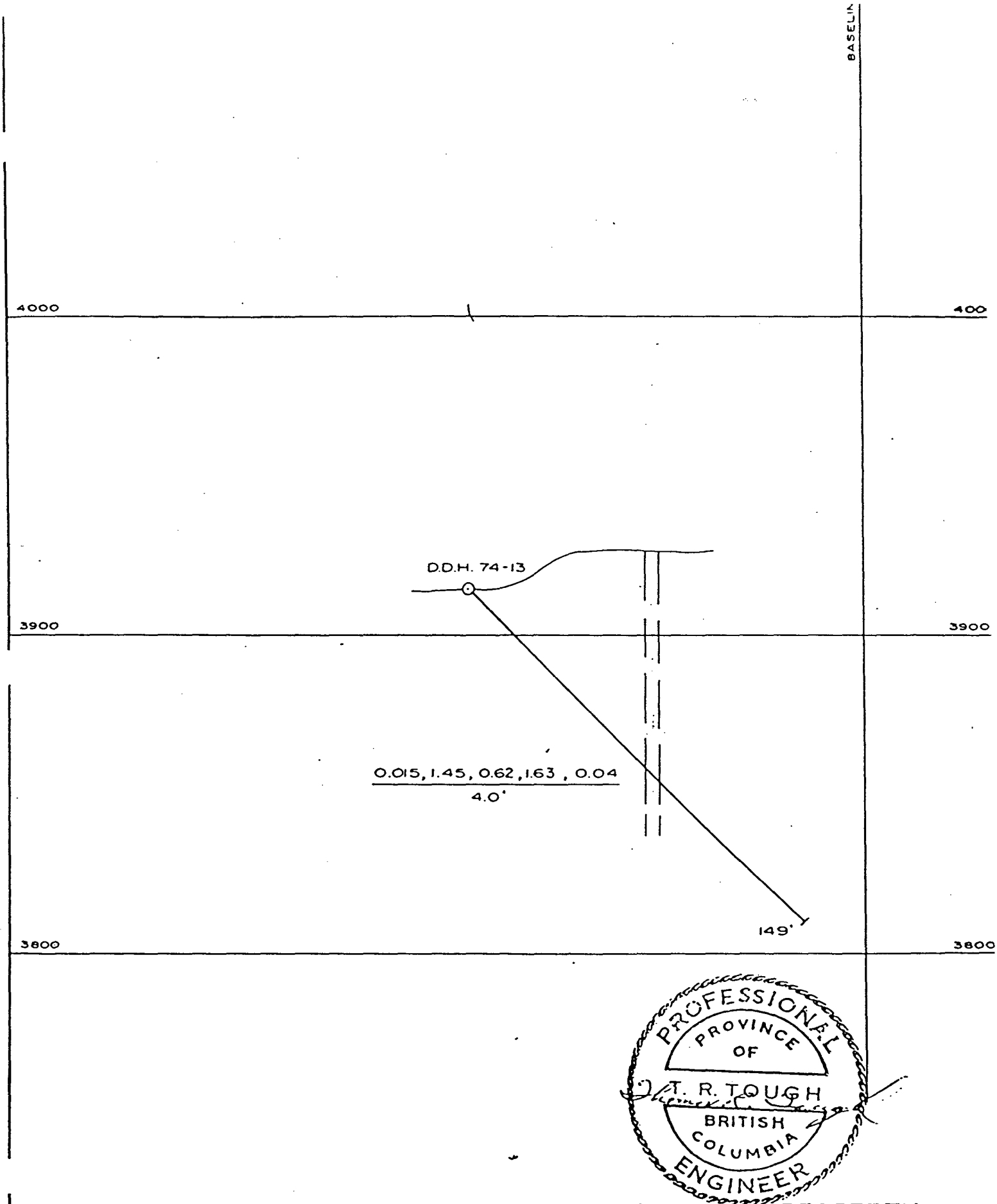
SCALE

FEET 40 0 40 FEET

ASSAY SEQUENCE

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

True width in feet



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TINTA HILL PROPERTY
SECTION 25+00E.

LOOKING NORTH

TINTA HILL, YUKON

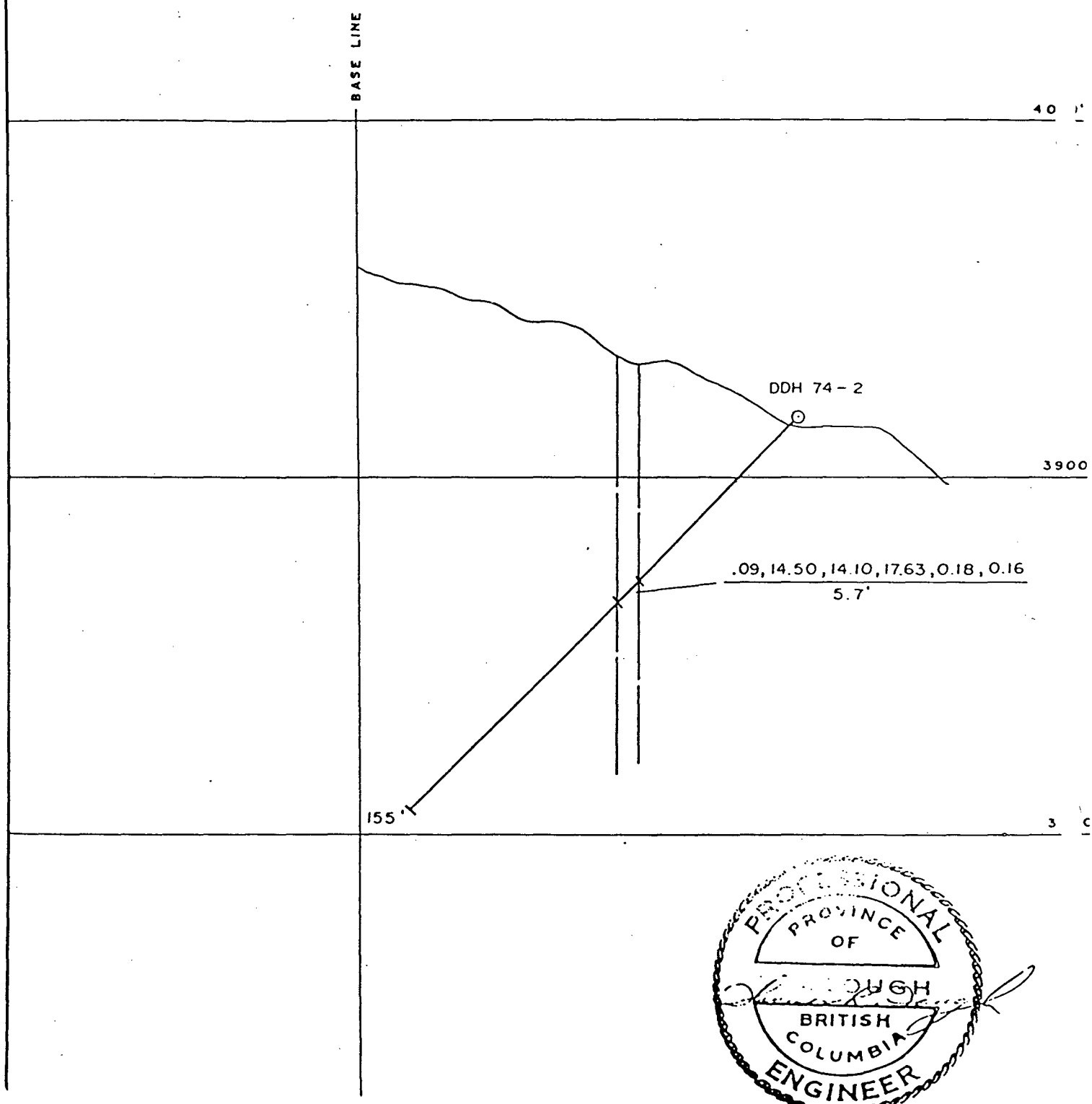
SCALE

FEET 40 0 40 FEET

ASSAY SEQUENCE

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

True width in feet



PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA

TINTA HILL PROPERTY

SECTION 25+00E

LOOKING SOUTH EAST

TINTA HILL, YUKON

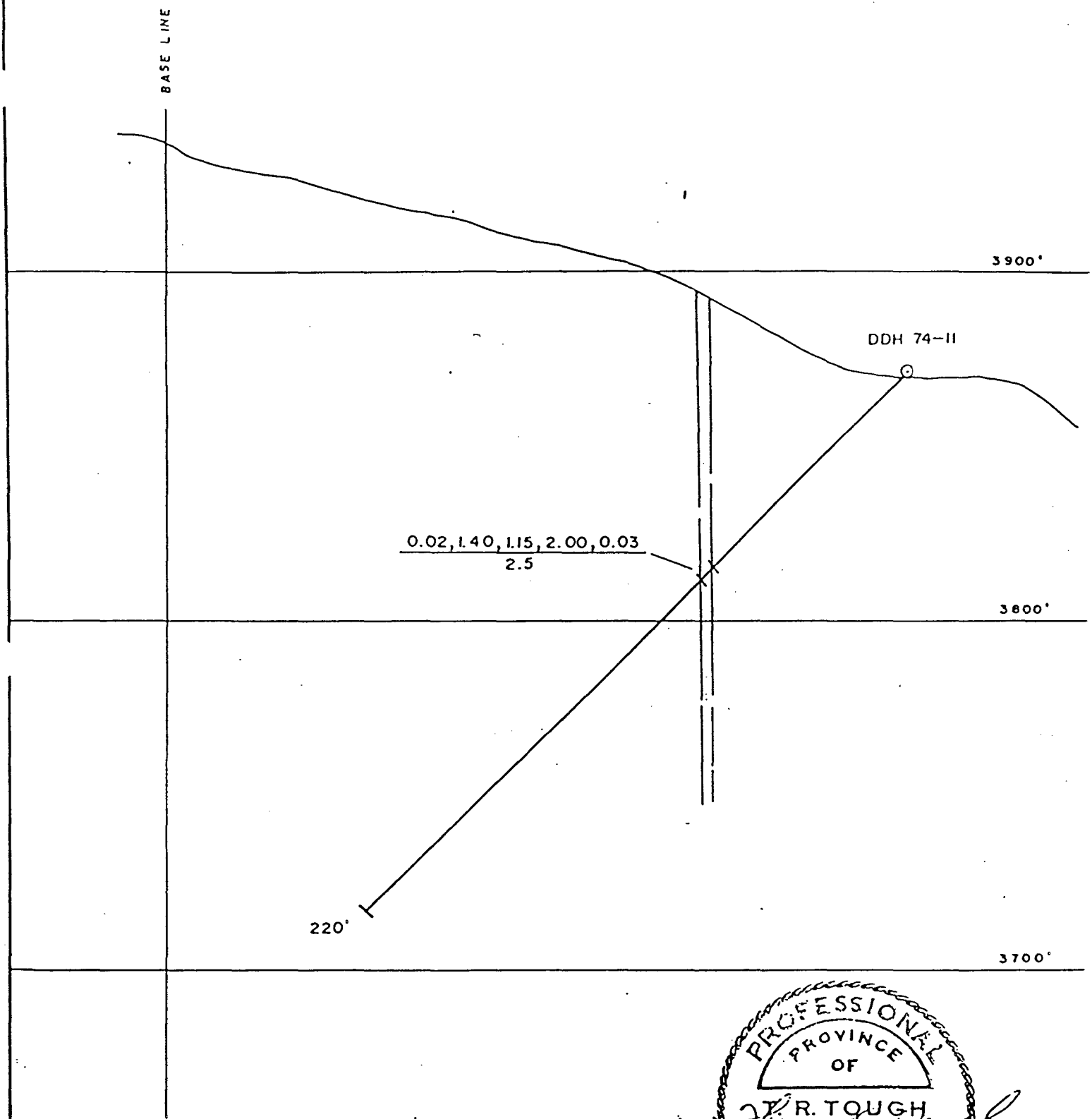
SCALE

FEET 40 0 40 FEET

ASSAY SEQUENCE

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

True width in feet



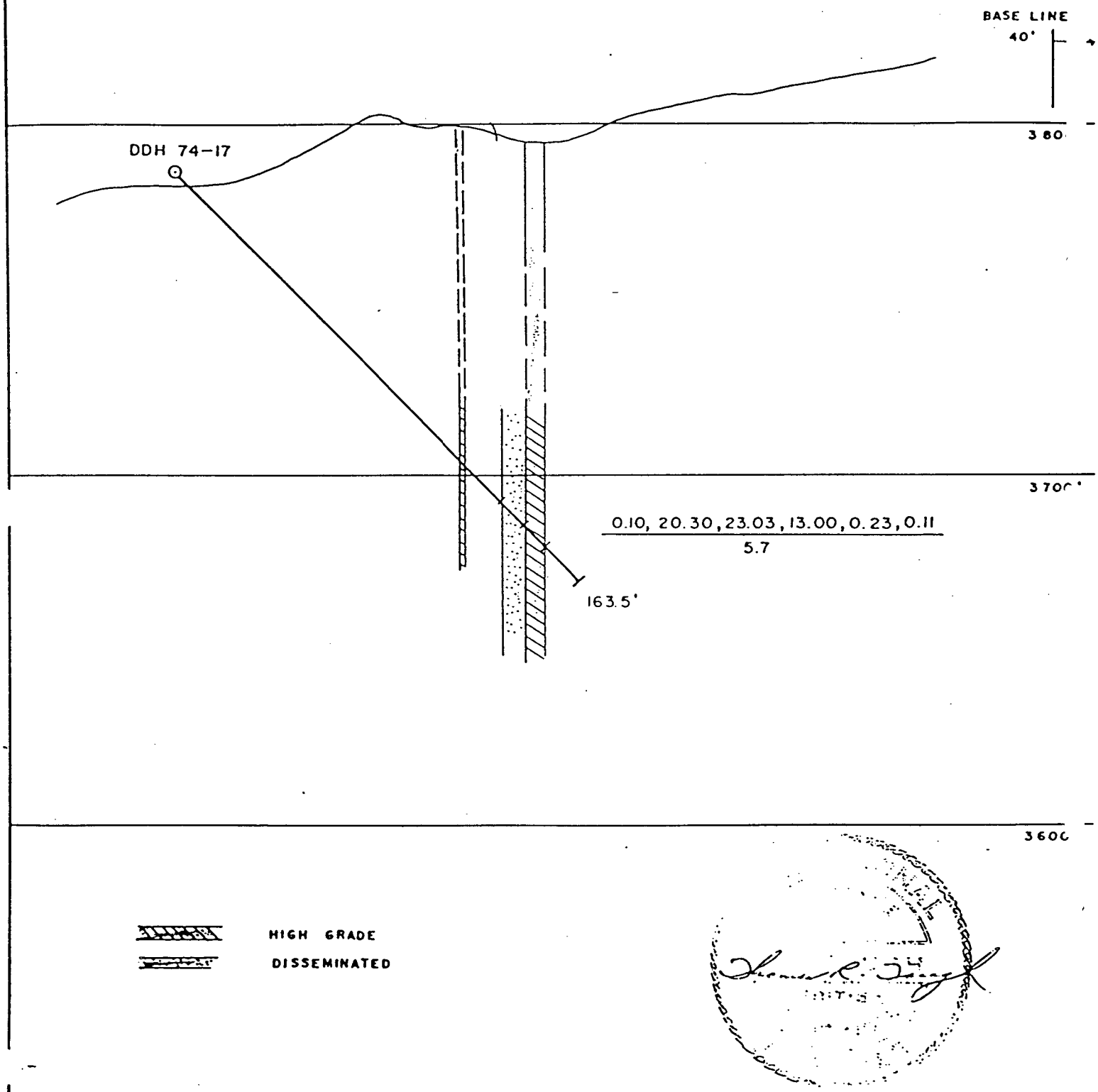
PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
J. R. TOUGH

TINTA HILL PROPERTY
SECTION 27+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 %
True width in feet



HIGH GRADE

DISSEMINATED

ASSAY SEQUENCE

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

True width in feet

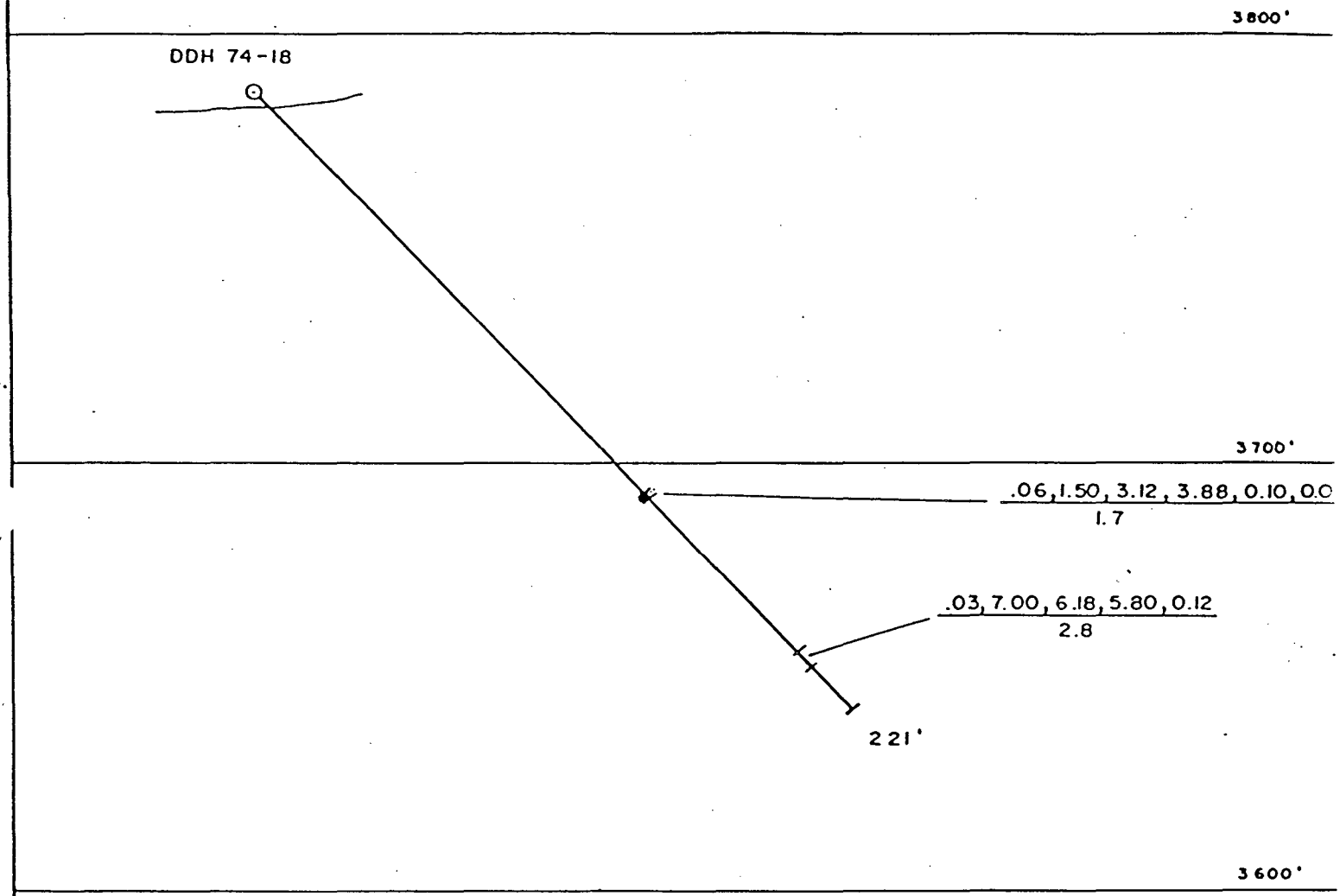
TINTA HILL PROPERTY
SECTION 30+00E

LOOKING NORTH WEST

TINTA HILL, YUKON

SCALE

FEET 40 0 40 FEET



ASSAY SEQUENCE

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

True width in feet

TINTA HILL PROPERTY

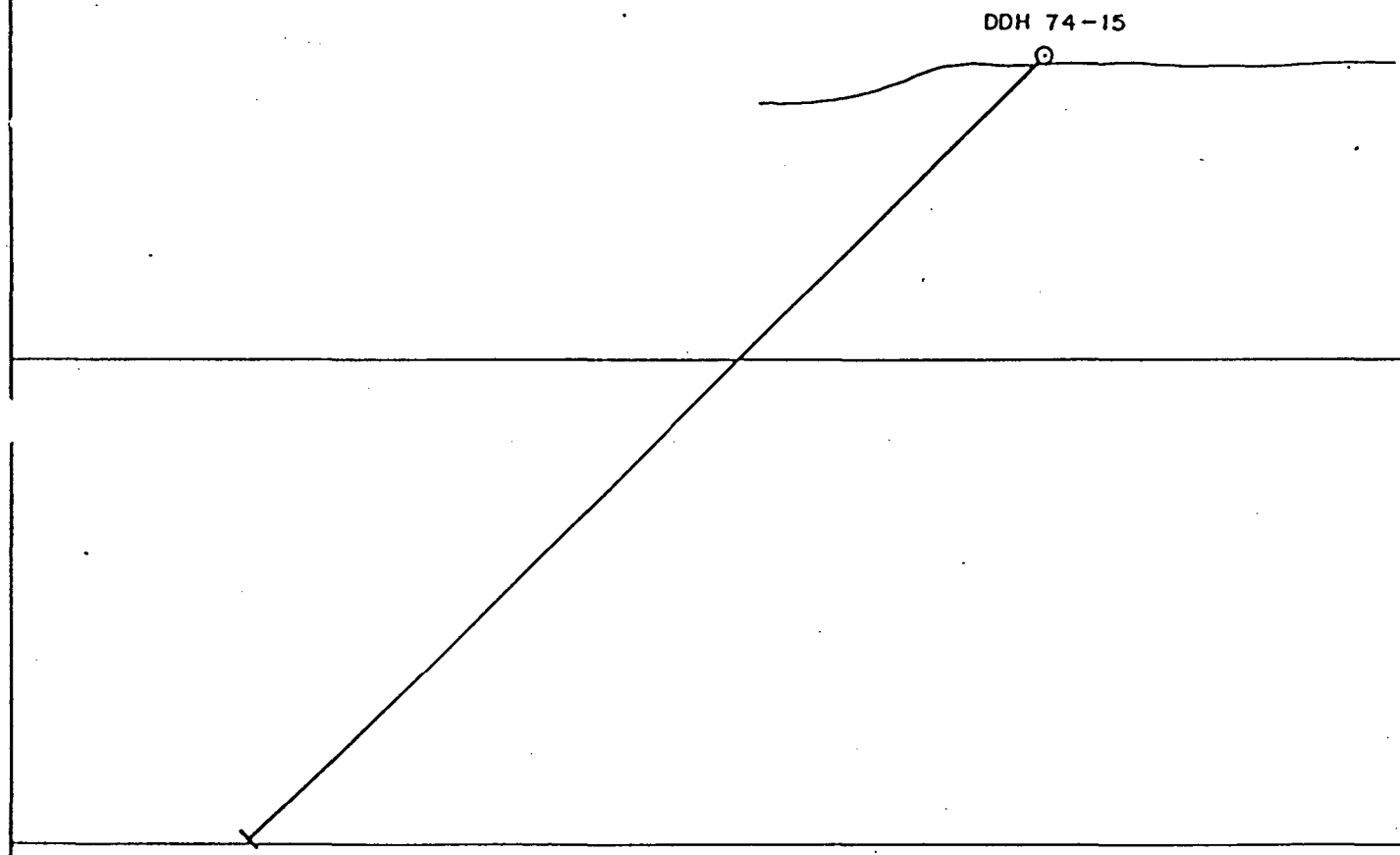
SECTION 30+00E

LOOKING NORTH 348°

TINTA HILL, YUKON

SCALE

FEET 40 0 40 FEET



ASSAY SEQUENCE

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

True width in feet

TINTA HILL PROPERTY

SECTION 35+00E

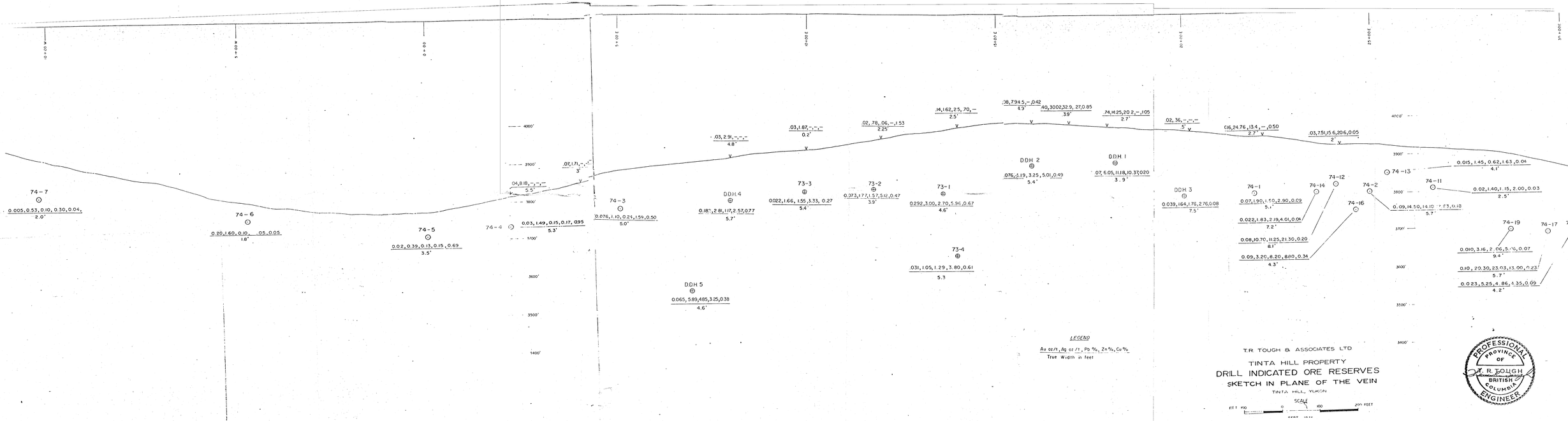
LOOKING NORTH WEST

TINTA HILL, YUKON

SCALE

FEET 40 0 40 FEET

Sept. 1974



LEGEND

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

T.R. TOUGH & ASSOCIATES LTD

TINTA HILL PROPERTY

DRILL INDICATED ORE RESERVES

SKETCH IN PLANE OF THE VEIN

TINTA HILL, YUKON

SCALE

FEET 100 0 100 200 FEET

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PROVINCE OF BRITISH COLUMBIA
T. R. TOUGH