MAP NO.	**ASSESSMENT REPORT**	X	**DOCUMENT NO.:**	092120
	PROSPECTUS		**MINING DISTRICT:**	WATSON LAKE
	CONFIDENTIAL	X	**TYPE OF WORK:**	GEOLOGICAL, GEOPHYSICAL,
105 A 10,15	**OPEN FILE**			GEOPHYSICAL, DIAMOND

REPORT FILED UNDER: Canada Tungsten Mining Corporation Ltd

DATE PERFORMED: Jun 5-Aug 30, 1974, Jun 6-Sept 22, 1975 **DATE FILED:** March 30, 1988

LOCATION: **LAT.:** 60°01'N **AREA:** Oscar Lake

LONG.: 135°13'W **VALUE $:**

CLAIM NAME & NO.: OSCAR 1-4; BAILEY Claims

WORK DONE BY: S.C.Way

WORK DONE FOR: Canada Tungsten Mining Corporation

DATE TO GOOD STANDING		**REMARKS: #8 BAILEY (OSCAR)** In 1974, geological mapping, chip + grab sampling, magnetometer profiling, diamond drilling and stream panning were performed. In 1975, detailed mapping and diamond drilling were continued. Drilling - 33 holes, 3131.5 m. Reserve estimate - 405 000 tonnes of 1.0% WO3.

CANADA TUNGSTEN MINING CORPORATION LIMITED

EXECUTIVE OFFICE:
Box 12525 - Oceanic Plaza
Suite 1600 - 1066 West Hastings Street
Vancouver, B.C. V6E 3X1
Telephone (604) 689-0046 Telex 04-55290

December 15, 1987

Mr. Naresh Prasad,
Chief of Mines Safety Office,
Northern Affairs Program,
200 Range Road,
Whitehorse,
Yukon Territory,
Y1A 3V1

Dear Mr. Prasad: Re: Bailey Claims being taken to lease

I have received information from Mr. Bruce Underhill of Underhill & Underhill (Professional Surveyors) that you require geological information on the Bailey property. I enclose a 3 volume report prepared by Dana C. Way in 1975. The years 1974 and 1974 were the most active on the property and a small tungsten orebody was discovered. I note that Mr. Way had not signed his report but in any event, Mr. Grant Abbott of D.I.A.N.D Whitehorse worked on the property for Canada Tungsten and logged drill core and could attest to Mr. Way's qualification. If you require, Mr Way's supervisor on the project at the time could sign the report. Mr. L. D'Aigle was the supervisor at the time and although now retired, he can be readily summoned.

The maps are unfortunately, xerox copies of the only remaining prints we have. They are coloured so when xeroxed they come out shaded. I'll attempt to recolour. The mylar originals are around but their absolute location is presently unknown due to the company offices being moved several times in the past 2 years. I am also enclosing a copy of Underhill Plan 148 - 3 (a portion thereof) This is Plan 69653 M.C. C.L.S.R.

I believe that this information will provide you with a good background on this property.

092120

Yours truly,
Brian Lennan

Brian Lennan, B.Sc., FGAC
Geologist

CANADA TUNGSTEN MINING CORPORATION LTD.

092120

GEOLOGICAL REPORT ON THE MORNING STAR PROPERTY (OSCAR AND BAILEY CLAIM GROUPS), YUKON TERRITORY

VOLUME 1

N.T.S. 105-A-10, 105-A-15

LAT. 60°46'N, LONG. 128°53'W

WATSON LAKE MINING DISTRICT

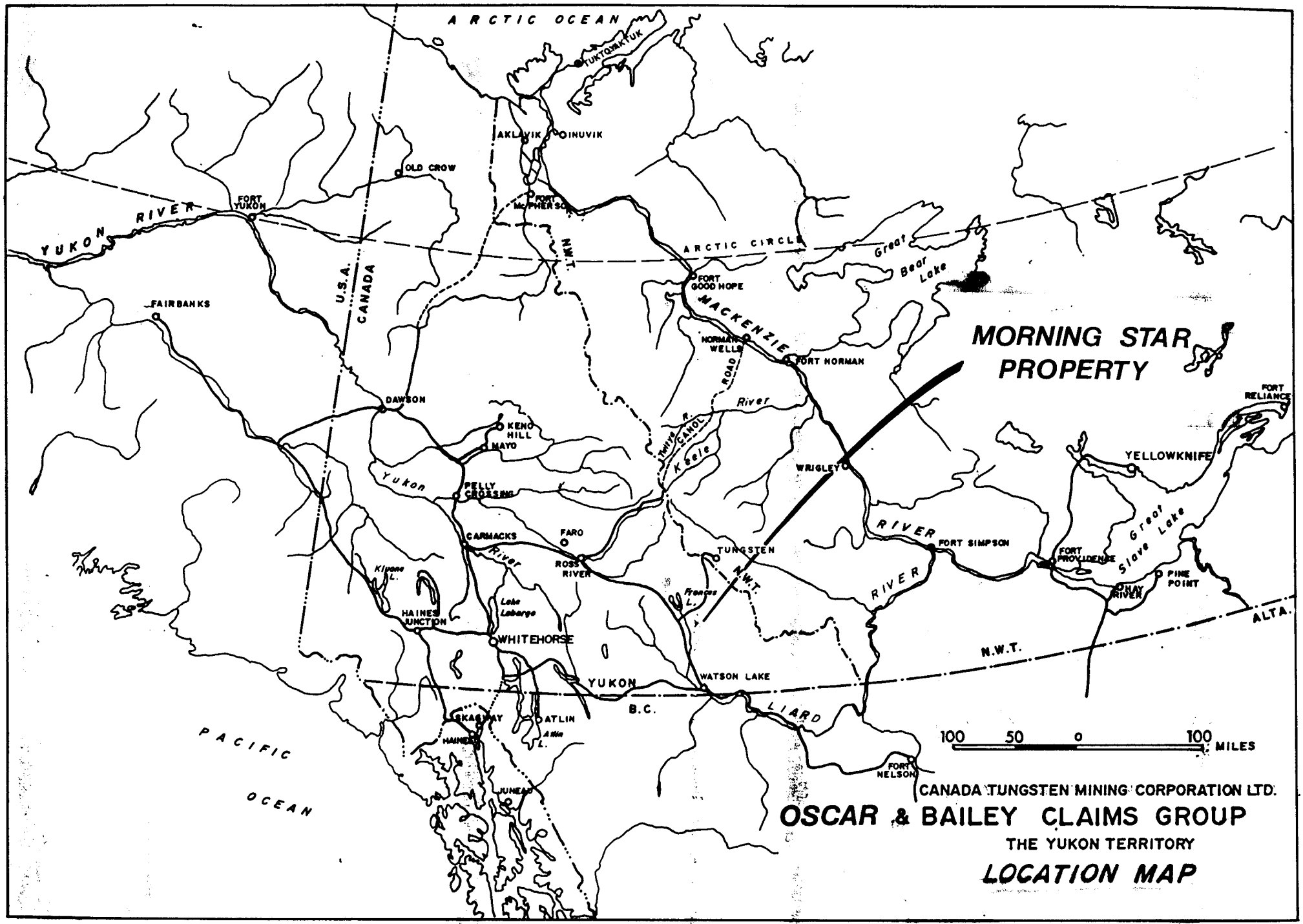
by

Dana C. Way

2(d)

Aerial photo of 'B' Zone North (looking east). Equipment at Drill Site #1 in centre-left of photo gives impression of scale. The light grey-coloured rock is marble which is overlain by the rusty-weathering quartzites at the top of the photo. The marble is separated from the underlying granodiorite by a thin gossan which marks the exposure of the skarn unit.

092120


ARCTIC OCEAN
TUKTOYAKTUK
AKLAVIK
INUVIK
OLD CROW
FORT YUKON
YUKON RIVER
FORT McPHERSON
N.W.T.
ARCTIC CIRCLE
Great Bear Lake
FORT GOOD HOPE
MACKENZIE
FAIRBANKS
U.S.A.
CANADA
NORMAN WELLS
FORT NORMAN
ROAD
River
MORNING STAR PROPERTY
DAWSON
KENO HILL
MAYO
Thistle Creek
Kelly R.
FORT RELIANCE
YELLOWKNIFE
WRIGLEY
Yukon
PELLY CROSSING
CARMACKS
FARO
River
ROSS RIVER
TUNGSTEN
RIVER
FORT SIMPSON
Great Slave Lake
FORT PROVIDENCE
HAY RIVER
PINE POINT
Kluane L.
Lake Laberge
Frances L.
HAINES JUNCTION
WHITEHORSE
N.W.T.
ALTA.
YUKON
WATSON LAKE
B.C.
LIARD
SKAGWAY
ATLIN
Atlin L.
HAINES
PACIFIC OCEAN
JUNEAU
FORT NELSON
100 50 0 100 MILES
CANADA TUNGSTEN MINING CORPORATION LTD.
OSCAR & BAILEY CLAIMS GROUP
THE YUKON TERRITORY
LOCATION MAP

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2	Geology of Oscar and Bailey Claims. (scale: 1" = 1000')
3	D.D.H. Locations and Geology of the 'B' Showing. (scale: 1" = 40')
4	'A' Showing Geology. (scale: 1" = 100')
5	'C' Showing Geology. (scale: 1" = 50')
6	Geology of Watson Lake Area (G.S.C. Map No. 19-1966, N.T.S. 105-A). (scale: 1" = 4 mi.)
7	Topography of Watson Lake Area (N.T.S. 105-A). (scale: 1" = 4 mi.)

Cross-Sections (to accompany Map No. 3)

A-A'	Vertical Cross-Section through 'B' Showing (horizontal scale: 1" = 40', vertical scale: 1" = 40').
B-B'	"
C-C'	"
D-D'	"
E-E'	"
F-F'	"
G-G'	"

Miscellaneous

Polygonal Section Template (scale: 1" = 40') - to accompany Map. No. 3.

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1. INTRODUCTION

1.1 Location

The Morning Star property, comprised of 92 contiguous mineral claims in the Bailey and Oscar Groups, is situated 170 miles east of Whitehorse, capital of the Yukon Territory, and 50 miles north of the town of Watson Lake, the nearest supply and service centre (see location map). The property lies between lat. 60°44'N. and 60°48'N. and between long. 128°50'W. and 128°57'W. and appears on N.T.S. claim sheets 105-A-10 and 105-A-15. The Tungsten Road (Nahanni Ridge Road) passes 12 miles to the north and the Ross River Road (Robert Campbell Highway) passes 13 miles to the west of the property.

1.2 Access

At present, access is by rotary-wing aircraft only. Supplies and equipment can be trucked to a gravel pit at mile 49 on the Ross River Road and moved into the property from there by helicopter, a distance of 14 flight miles. Oscar Lake, which lies 3.5 miles southeast of the property, is suitable for landing by fixed-wing aircraft on floats after breakup which would usually occur in the first or second week of June.

In Watson Lake, fixed-wing aircraft (on floats or wheels) can be chartered from either Watson Lake Flying Services or B.C.-Yukon Air and Bell-47 and Jet Ranger helicopters are available for hire from Frontier Helicopters. A Tilden agency can provide passenger cars, pick-ups, 4 w.d.'s, crew cabs and a 5-ton truck.

1.3 Topography

The topography in the area of the claim group is moderately rugged with

a maximum relief of approximately 2,000 ft. (3,800 ft.-5,800 ft.). Ridges and valleys trend easterly to south-easterly and creeks flow southeasterly into Oscar Lake. Rock exposure along ridge crests and flanks is generally good although some ridge tops and south-facing slopes are covered with overburden or glacially-transported boulder fields. North-facing slopes are generally steeper and show better exposure than south-facing slopes due to accelerated frost action. Except along creek beds, exposure in the valleys is poor due to covering by talus, glacial debris and overburden. The major topographical feature in the region is Mt. Murray (elev. 7,093 ft.) which lies 8 miles north of the property (see map #7).

1.4 Vegetation

Treeline elevation is variable between 4,200 ft. and 4,800 ft., depending upon soil conditions and orientation of the slope. Below treeline, valleys are thickly forested with balsam and lesser spruce, pine and tamarack. Buckbrush occurs mainly in wet or swampy areas where coniferous trees are less prevalent. Above treeline, slopes are covered with alpine vegetation consisting of small flowers, mosses and lichens and occasional patches of stunted spruce.

1.5 Climate

Weather in the Watson Lake area during the summer is warm and dry for the most part, although rainshowers of short duration occur frequently. Weather in the upland areas in the region of the claim group tends to be more unstable with occasional high wind or low ceiling conditions occurring. The following climatic information is compiled by the local meteorology section of the

Ministry of Transport in Watson Lake. The 30 Year Normal figures are based on the period 1941 to 1970.

TABLE 1

MONTHLY PRECIPITATION AND MEAN TEMPERATURE DATA

MONTH	MEAN TEMPERATURE (°C)			PRECIPITATION (in mm. of water equiv.)		
	30 Year Normal	1974	1975	30 Year Normal	1974	1975
Jan.	-25.3	-31.1	-22.6	35.1	32.5	23.4
Feb.	-18.3	-19.1	-21.1	28.2	11.4	14.5
Mar.	-10.5	-16.2	-12.3	23.9	22.4	17.0
April	-0.6	-1.4	0.2	18.3	9.1	5.6
May	7.4	5.1	7.4	23.1	82.3	4.3
June	13.2	10.9	11.8	48.8	47.0	57.4
July	14.9	12.9	15.3	53.1	127.3	72.1
Aug.	13.0	12.8	12.1	44.7	48.8	54.9
Sept.	7.8	7.3	9.1	43.2	33.0	32.6
Oct.	0.1	1.6	-0.1	34.8	69.1	25.2
Nov.	-13.6	-9.2	-20.1	37.8	11.9	32.3
Dec.	-22.6	-15.9	-27.0	41.1	20.1	49.9
YEAR	-2.9	-3.5	-3.9	432.1	514.9	389.2

1.6 Glaciation

The region has been covered by one or more advances of continental glaciation, the most recent being the Wisconsonian which moved through the area in a southeasterly direction. Features such as striations, plucking, glacial erratics, kames, eskers, moraines, kettles, and cirques can be observed in the area of the claim group. A number of cirques to the west of the claim group hold snow and ice late into the summer and provide a considerable amount of meltwater to the main creek flowing through the property.

2.2 Previous and Present Work

Prior to the 1974 field season, physical work on the property consisted of blasting and trenching on the known showings for the purpose of assessment work.A number of property examinations have been carried out, most recently by T. R. Tough, P. Eng., for Morning Star Mines Ltd., (N.P.L.) in September 1972 and by A. L. Littlejohn for Canada Tungsten in August, 1973. These reports contain brief descriptions of the local and regional geology as well as assay results from grab samples.

During the 1974 field season, an exploration crew from Canada Tungsten occupied the property from June 5 to August 30. A program consisting of geological mapping, chip and grab sampling, magnetometer profiling, trenching and stream panning was carried out. A group of claims, the Oscar 1-4, was staked to cover part of one of the showings that was left unprotected by the staking in 1971.

Midwest Drilling was contracted to conduct a diamond drilling program which commenced on Aug..1 and finished on Aug. 29. In the early part of August, Scintrex Surveys Ltd. performed a Turair survey over the northern part of the claim group. The report of this survey has been submitted under separate cover by Scintrex. The survey results are discussed briefly in section 4.7 of this report.

In 1975, Canada Tungsten exploration personnel were resident on the property from June 6 to Sept. 22. Property evaluation consisted mainly of detailed mapping in the area of the main showing and diamond drilling.

Midwest continued the drilling program begun in 1974. One diamond drill was kept in more or less continuous operation from June 17 to Sept. 20. In September, the firm of Underhill and Underhill, Professional Engineers and Dominion Land Surveyors, was contracted to do a survey of the topography, drill holes and claim location lines in the area of the main showing. These survey maps are presented in Vol. 4 of this report.

3. GEOLOGICAL SETTING AND TYPE DEPOSIT

The Morning Star Property is situated in the Selwyn Basin of the Omineca Belt, one of five northwest-trending, linear, tectonic elements which comprise the Cordilleran System. Rocks of the Omineca Belt are mainly metasediments of Early Paleozoic and older age and derived gneisses with a small proportion of granitic material. Small batholiths and stocks, dominantly quartz monzonite, comprise 10% of the area and are mainly Cretaceous in age. Deformational style is one of intense multiple folding, thrusting and high-angle faulting.

Within the Cordillera, tungsten occurrences show the greatest concentration in the Omineca Belt, particularly in the Selwyn Basin. This belt has contributed over 90% of Canadian production and contains most of the presently known tungsten reserves. Scheelite-bearing skarns typically occur in Cambrian carbonate rocks at the contacts of small Jura-Cretaceous intrusions. This favourable combination of time and spatial relationships may be explained by the fact that the Early Paleozoic rocks include a high proportion of carbonate units and that a high level of intrusion is an important requirement for the skarn formation process itself.

All of the economic tungsten deposits in B. C. and Yukon are of contact metasomatic origin. The metasomatic process typically results in the formation of a distinctive dark green, garnet-diopside skarn with associated scheelite, pyrrhotite and chalcopyrite. These deposits are generally small in size and the distribution of ore minerals within the deposit can be erratic. Structural control is closely related to rock unit boundaries, particularly between carbonate unit hosts and associated intrusives. Grades can be very high and an important consideration for remote areas is that the high density and metal content of tungsten concentrates give a valuable shipping product.

4. GEOLOGY OF THE BAILEY AND OSCAR GROUPS

4.1 General Geology

The claim group is situated on the southeast flank of a large Cretaceous granodiorite intrusive where it straddles the contact between the intrusive and a series of Devonian and/or Mississippian metasediments (see maps #2 and #6).

The metasediments, which generally strike northerly and dip moderately to the east, appear to be relatively undeformed. H. Gabrielse (in notes accompanying G.S.C. map 19-1966) points out that only the Proterozoic rocks in the region have undergone severe deformation. Overlying incompetent strata of Cambro-Ordovician or younger age appear to be much less deformed.

However, folding and faulting are common in the Devono-Mississippian metasedimentary rocks close to the intrusive contact. Folding is clearly syn-intrusive and is marked by a number of small, northerly-trending, upright folds which usually occur within a few hundred feet of the granodiorite contact. This fold system is an important factor in the structural control of the three tungsten skarn showings on the property.

A system of north- to northeast-trending faults cuts all of the rock units on the property including the granodiorite in some places. Slickensides on fault surfaces generally have variable attitudes. Geological boundaries and other markers often show vertical displacement on the order of several hundred feet with the east block usually thrown upward relative to the west block (see map #2). There is no evidence to indicate that faulting plays an important role in the structural control or genesis of the skarn showings.

The Paleozoic metasediments are regionally metamorphosed to greenschist facies and show hornblende-hornfels facies in the contact aureoles.

4.2 Rock Unit Descriptions

The Devono-Mississippian metasedimentary sequence can be separated into sub-units on the basis of lithology. The sequence is comprised of quartzite, marble and chert units which appear to be mutually conformable. No evidence of hiatus marked by unconformity was detected during the mapping. These rocks have been intruded by a granodiorite stock of Cretaceous age. Where the granodiorite has contacted the marble unit of the metasedimentary sequence, tungsten-bearing skarn has developed.

The metasediments, granodiorite and skarn are described in the remainder of this section, listed in order from youngest to oldest:

Granodiorite (Unit 7): this rock is a medium-grained, hornblende-biotite granodiorite with a hypidiomorphic-granular texture. In thin section, the plagioclase shows both normal and oscillatory zoning with light to moderate sericite alteration. Biotite in some cases is slightly altered to chlorite. A point count on a typical granodiorite sample gave the following breakdown:

Plagioclase	40%	(rim An_{40} core An_{60})
Quartz	24%	
Biotite	18%	
Orthoclase	7%	
Sericite	4%	
Hornblende	4%	
Chlorite	1%	
Carbonate	tr.	
Apatite	tr.	

A number of granodiorite samples were assayed for WO_3 by the Canada Tungsten lab. Values were shown to be below the detection limit of the equipment.

Skarn (Unit 6): the skarn unit, which contains virtually all of the scheelite mineralization, can be broadly subdivided into two types on the basis of the amount of massive sulphide present. The two types of skarn generally show different spatial relationships with respect to the granodiorite. That part of the skarn unit lying against the granodiorite is typically composed of a chalcopyrite-pyrrhotite primary sulphide assemblage intimately intergrown with quartz and silicates. Crude banding of sulphides and silicates is often apparent. The highest WO_3 values are associated with this phase, the majority of the scheelite being present in small crystals of about 1 mm in size.

Moving away from the intrusive contact, the massive sulphide skarn changes into a medium-grained diopside skarn which has a distinctive dark green colour. A typical modal composition is about 75% diopside and 25% accessory minerals which include the following in varying amounts: garnet, calcite, plagioclase, sphene, pyrrhotite, pyrite and chalcopyrite. The diopside skarn generally carries lower WO_3 values than the massive sulphide skarn.

Skarn mineralogy and trace element chemistry are discussed further in section 4.6.2.

Limy Chert (Unit 5): limy chert is the youngest member of the metasedimentary sequence that appears on the claim group. The unit is thin-bedded for the most part with alternating bands of grey, green and purplish chert usually less than 1" thick. The chert often contains thin lenses and stringers of calcite which are conformable with the banding. In places, the chert bands are intercalated with thin limestone beds ranging up to 1" thick. The overall thickness of the unit is in the order of 150' - 200'.

Dark Quartzite (Unit 4): this unit is a heterogenous mixture of quartzose pelitic metasediments which appears to have undergone regional metamorphism to upper greenschist facies. The field name 'quartzite' is used for this unit as a whole but in fact parts of the unit are comprised of rocks that could be classified as hornfels, phyllite or quartz-rich schist or gneiss.

The most prominent member is a dark, fine-grained, sugary-textured, biotitic quartzite or schist (schistose cleavage is better developed in some places than in others). A modal analyses of a typical sample gave the following breakdown: quartz (30%), biotite (25%), sericite (35%), and muscovite (5%). These minerals are present in almost all parts of the quartzite unit but the modal percentages vary considerably. Accessory minerals include opaques, zircon, rutile and hematite. Minor disseminated pyrrhotite is a common constituent that often gives the rock a rusty stain on weathered surfaces.

The quartzite sometimes takes on a mottled appearance where small biotite clusters stand out against a light-coloured groundmass composed of quartz, sericite and muscovite. This phase contains the usual accessory minrals as well as andalusite.

Occasional leucocratic intervals interrupt the dark quartzite. These are typically only a few feet thick and are composed of coarse-grained quartz or quartz-K-feldspar with lesser biotite, muscovite and andalusite. Accessory minerals include iron oxides, rutile and zircon. These leucocratic sections do not have much horizontal or lateral continuity and are probably contained as conformable lenses within the quartzite unit.

The bottom 15' - 25' of the unit is comprised of a graphitic argillite which appears to have been upgraded to a phyllite within the contact aureole of the intrusive. This rock is more easily distinguishable in the field

than are most other phases of the quartzite unit.

Banded Quartzite (Unit 3): the banded quartzite contains the dark, biotitic quartzite described above intercalated with grey-green cherty bands comprised on very fine-grained calc-silicate minerals. The rock also carries occasional small pods and stringers of medium- to coarse-grained calcite-garnet-diopside skarn. The mineralogy of this unit is fairly complex as the following modal analysis of a typical sample indicates:

Wollastonite	25%
Plagioclase	20%
Diopside	10%
Quartz	10%
Biotite	10%
Carbonate	8%
Sericite	7%
Orthoclase	3%
Chlorite	2%
Andalusite	2%
Corundum	1%
Tourmaline	1%
Opaques	1%
Rutile	tr.

The dual characteristics of the mineralogy are worth noting. On the one hand, there are those minerals of pelitic origin such as the quartz, sericite, biotite and plagioclase and on the other hand, there are minerals of the calc-silicate association such as carbonate, wollastonite and diopside. The ambivalent nature of the mineralogy reflects this unit's stratigraphic position

between the overlying pelitic metasediments of the Dark Quartzite unit and the underlying marble of Unit 2. In fact, it is questionable whether this unit has a unique depositional history of its own or whether it is a hybrid formed by reaction between the siliceous metasediments (Unit 4) and the calcareous marble (Unit 2) during metamorphism.

In any event, this rock was mapped as a separate unit because it is fairly distinctive and serves as a useful marker horizon for interpreting structure. The name 'quartzite' is used again as an inclusive field term, but selected parts of the unit would be more properly called hornfels or skarn.

Marble (Unit 2): this rock is a nearly-pure calcite marble. A typical sample is composed of about 98% calcite (identification verified by X-ray diffraction) and minor amounts of diopside, orthoclase, phlogopite, tremolite or opaques. The marble carries pods and lenses of garnet-diopside skarn ranging in size from a few inches to several feet thick. These skarn lenses are more abundant near the granodiorite contact and typically carry minor amounts of scheelite. The grain size of the marble also increases with proximity to the intrusive contact.

In thin section, twin lamellae in the calcite are often slightly bent indicating the rock has experienced some deformation. Field evidence of deformation also exists in the area of the main showing where the marble unit has been greatly thickened through folding (see cross-sections C-C' and D-D'). Numerous small folds with amplitudes in the order of a few feet are outlined by the white- and grey-coloured banding in the marble.

Purple Quartzite (Unit 1): this unit is very similar to the Dark Quartzite of Unit 4. In fact, the only way to distinguish the units in the field is by their stratigraphic position. In general, the Purple Quartzite is more

homogeneous than the Dark Quartzite being comprised mainly of dark, fine-grained, sugary-textured, biotitic quartzite with a distinct purplish colour. The Purple Quartzite tends to be more siliceous and less pelitic. Banding is well-developed due to the preferred orientation of biotite and this often imparts a schistose or platy cleavage to the rock in the outcrop. The rock contains frequent bands of white quartz, usually less than 1" thick, which are sometimes bordered with dark biotite selvages. Disseminated pyrrhotite gives a rusty stain on weathering which makes outcrops of Unit 4 and Unit 2 difficult to tell apart.

The uppermost sections of this unit, immediately underlying the marble, are often identical in appearance to the Banded Quartzite of Unit 3. However, this phase is not as uniformly distributed as the Banded Quartzite and tends to be somewhat patchy in occurrence. Failure to distinguish between these two rock types can lead to erroneous structural interpretations. Since the Dark Quartzite and the Purple Quartzite look so similar, the bottom four units of the metasedimentary sequence can be made to look like Units 1, 2 and 3 repeated through folding with marble at the core of the fold.

The Purple Quartzite also contains a 10' - 15' thick rhyolite formation which appears to occupy a position a few hundred feet below the stratigraphic top of the unit and is conformable with the bedding. The rhyolite has a grey-green-coloured matrix which contains small rounded phenocrysts of smoky quartz.

The basal section of the unit was not found on the property and so the total stratigraphic thickness is not known.

TABLE 2

TABLE OF FORMATIONS

Map Unit	Rock Type	Age
7	Medium-grained, hypidiomorphic-granular, hornblende-biotite granodiorite.	Crectaceous
6	Scheelite-bearing, garnet-diopside skarn changing to diopside-pyrrhotite skarn adjacent to granodiorite contact.	
5	Limy Chert. Green, grey and maroon calcareous cherts in places intercalated with thin limestone beds. (150' - 200')	Devonian and/or Mississippian
4	Dark Quartzite. Dark, fine-grained, sugary-textured, biotitic quartzite with minor disseminated pyrrhotite (similar to Unit 1). Contains leucocratic sections up to a few feet thick composed of coarse-grained quartz and k-feldspar with minor biotite and sericite. The bottom 15' - 25' of the unit is comprised of graphitic argillite. (400' - 600')	
3	Banded Quartzite. Interbanded dark, biotitic quartzite (similar to Unit 1) and grey-green chert. Carries occasional pods and stringers of calc-silicates especially adjacent to marble contact. (10' - 50')	
2	Marble. White to grey banded calcite marble, generally fine- to medium-grained, locally garnetiferous and diopsidic especially near intrusive contact. (15' - 50')	
1	Purple Quartzite. Dark, purplish, fine-grained, sugary-textured, biotitic quartzite with minor disseminated pyrrhotite. Locally, schistose or slaty cleavage imparted by preferred orientation of biotite. Frequent thin quartz stringers occur generally parallel to the foliation. Contains 10' - 15' thick rhyolite sub-unit. (400' - ?)	

4.3 The Tungsten-Skarn Showings

The three tungsten-skarn showings on the property are designated, from north to south, the A, B and C showings (see map #2). The three showings are similar in their mode of occurrence in that each has developed where the granodiorite has penetrated the metasedimentary sequence to come in contact with the marble unit. Scheelite-bearing skarn has developed to a greater or lesser extent at each showing depending on the extent of the skarn-forming metasomatic process permitted by the local structure.

The property evaluation performed during the 1974 and 1975 field seasons indicates that only the 'B' showing has the potential to warrant consideration as an economic ore deposit. The limited size and low WO_3 grades of the 'A' and 'C' showings preclude additional expenditure for investigation of these areas. The geology of each of the three showings is discussed in the following sections.

4.4 Geology of the 'A' Showing

The 'A' showing is situated near the crest of a rounded, eastwardly-trending ridge in an area of limited outcrop. Structurally, a series of tight, isoclinal folds is an important control in the formation of the skarn unit. Skarn appears to be concentrated along anticlinal axes in the marble unit giving it a rather patchy distribution over the area of the showing. Fold attitudes are quite variable here (see map #4) reflecting the proximity of the intrusive which appears to underly the metasediments at shallow depth. The thinness of the marble unit and the shallow depth of the granodiorite limit the skarn and metasediments to a thin skin draped around the nose of the intrusive. Skarn mineralogies are generally garnet-diopside, diopside, or pyrrhotite-diopside with the latter carrying minor pyrite and chalcopyrite. As observed at the other showings, the sulphide-

bearing skarn tends to lie closest to the granodiorite and generally carries most of the scheelite (as sparse, fine-grained disseminations).

Skarn is best seen in the #1 and #2 trenches (see map #4). A continuous chip sample from trench #1 assayed .17% WO_3 over 36 ft. A continuous chip sample in trench #2 gave .26% WO_3 over 43 ft.

A magnetometer survey over the area failed to outline any new anomalous skarn zones.

4.5 Geology of the 'C' Showing

The 'C' showing is the southernmost skarn zone on the property and sits at the top of a 600 ft.-high, north-facing cliff (see maps #2 and #5). The metasediments here are thin-bedded and highly-deformed. Bedding attitudes are variable and minor fold axes plunge moderately to the south.

Patchy garnet-diopside skarn has formed on marble-granodiorite contacts and to a lesser extent on marble-quartzite contacts but is everywhere limited in its development. None of the skarn carries significant scheelite. A relatively large pod of pyrrhotite skarn between crosslines 3+00 W and 3+50 W (see map #5) has formed near the intersection of a granodiorite dyke and a small fault but even here WO_3 values are very low.

A series of 10 chip samples, taken from various skarn pods in the showing, ranged from 0.02% WO_3 to 0.17% WO_3. The 'C' showing is the least promising of the three skarn zones on the property.

4.6 Geology of the 'B' Showing

The 'B' showing is by far the most important skarn zone on the property and has received most of the attention during the 1974 and 1975 field seasons.

The showing is exposed near the base of a steep, north-facing slope where it is marked by a prominent gossan (see maps #2 and #3 and Fig. 1 in frontispiece). The skarn is exposed on surface for a distance of approximately 500 ft. along the marble-granodiorite contact. Over this distance, the thickness of the skarn unit varies from 2 ft. to 13 ft. A series of 13 continuous chip samples, taken at approximately equal intervals along the mineralized zone, gave an average grade of 1.66% WO_3 and an average width of 4.8 ft. over the 500 ft. length. This showing contains the only significant tonnage potential on the property and is known as the 'B' Zone North.

In the 1974 field season, some high-grade skarn float and minor marble outcrop were discovered over the crest of the ridge on the south-facing slope which is completely covered by overburden. This discovery suggested that the skarn exposed in the 'B' Zone North might in fact be continuous through the ridge to the south side. Subsequent drilling proved the existence of scheelite-bearing skarn on the south side of the ridge and this area became known as the 'B' Zone South. However, even though the North and South zones share similar characteristics, they are not physically connected (see cross-section E-E'). Furthermore, the development of skarn in the 'B' Zone South is so limited that it could not be classified as ore even if the 'B' Zone North were to prove economically viable.

The geology of the 'B' Zone North and South is discussed in further detail in the following sections.

4.6.1 Structure. In the 'B' Zone North, an extensive skarn unit has formed where folding and intrusive activity have placed the marble unit in juxtaposition with the granodiorite. The dominant structural control

is a northeast-trending, overturned anticline which is apparent in cross-sections developed from diamond drill hole data (see cross-sections B-B', C-C' and D-D'). The fold also has a surface expression on the hillside immediately below Drill Site #1 where the banded quartzite (Unit 3) is turned beneath the marble (Unit 2) (see map #3).

The style of the folding probably played an important role in the genesis of this skarn zone. The anticline seems to have created a large cell or system in which the marble unit was greatly thickened and where dilation zones permitted the easy movement of metasomatizing fluids emanating from the intrusive. This is in contrast to the other mineralized zones on the property where metasomatic activity appears to have been very localized and the skarn is patchy and uneven in its distribution.

Folding on a smaller scale is also apparent in the metasediments at the 'B' Zone North. These folds are difficult to trace for any distance but they generally plunge gently to the north and have variable amplitudes ranging from a few feet to possibly 100 ft. In the brittle quartzites, deformation has produced upright, tight, symmetrical folds where the limbs are often attenuated by shear planes. Folding in the underlying marble is usually asymmetrical and overturned and appears to represent a partial accomodation to stress by plastic flow.

All of the folding is believed to be syn-intrusive as evidenced by a number of folded granodiorite dykes which were intruded into the metasediments as they were undergoing deformation.

A number of north- to northeast-trending faults and shear zones cut the rock units including the granodiorite in some places. Slicken-

sides show a largely horizontal component of movement but offsetting of geological boundaries is negligible indicating only minor displacement along the fault surfaces. The exception to this is the Merle Fault which transects the ridge to the east of the 'B' showing. Vertical displacement on this fault appears to be in the order of 500' - 600' with the east block, farthest away from the intrusive, uplifted relative to the west block (see cross-section F-F'). The sense of displacement seems to be the reverse of what one might expect but the down-dropping of the west block may be related to slumpage during cooling of the intrusive.

The full extent of the 'B' Zone North skarn zone has been well-defined by mapping and diamond drilling. To the north, the skarn unit is cut off by the erosional surface of the mountainside, to the west the skarn is truncated by the granodiorite, and to the south and east it is limited by the fold structure as is apparent in the cross-sections. The grade and tonnage of the skarn unit are estimated in section 4.6.4.

Between the 'B' Zone North and the 'B' Zone South, there appears to be some structural discontinuity. In the plane of cross-section E-E', an apophysis of the granodiorite intrusive clearly separates the two skarn zones. Farther to the east, in the area of Drill Site #5, the structural picture is a little less clear. None of the drill holes at this site intersected either the marble unit or the skarn. In this area, the dark quartzite of Unit 4 is lying directly on the granodiorite.

Between D. S. #5 and D. S. #2, the skarn from the 'B' Zone North either "lenses out" or is terminated by folding (see cross-section C-C'). All of the evidence points toward the latter situation. Between D. S. #4

and D.S. #5, Units 1, 2 and 3 must "lens out" as there is no evidence of faulting or folding which might account for the absence of these units at D.S. #5 (see cross-section G-G').

The structure of the 'B' Zone South is relatively simple compared to that of the North Zone which may, in turn, account for the limited development of the skarn unit in this area. The metasediments here have a relatively uniform attitude dipping steeply to the east off the flank of the intrusive (see cross-sections F-F' and G-G').

The skarn was intersected in a number of holes drilled from D.S. #4. The intersections show that the skarn is generally sparsely mineralized and has a true thickness of no more than one or two feet. A reasonable intersection appears to have been made in D.D.H. 75-27 (1.32% WO_3 over 15.5') but the drill hole has intersected the skarn unit at a flat angle so that 15 ft. is far in excess of the true thickness. Similarly, D.D.H. 75-25 appears to have intersected a large skarn pod (see cross-section E-E') but the intrusive rises very rapidly behind the plane of the section here, tilting up the skarn unit so that again the length of the skarn intersection overstates the true thickness of the skarn.

The skarn has developed in the usual position along the marble-granodiorite contact where the marble lies directly on the intrusive. Moving to the east from D.S. #4 toward the Merle Fault, the marble is separated from the granodiorite by an increasingly thick wedge of quartzite from Unit 1 (see cross-section F-F'). Here the skarn forms along the contact between the marble and the quartzite but is sparsely mineralized.

It may be speculated that the lack of deformation in the metasediments in the 'B' Zone South prevented the formation of a well-developed skarn unit.

The absence of a structural trap and dilational zones to permit the movement of metasomatic fluids limited reaction to a narrow band bordering the marble-granodiorite interface.

In summary, the 'B' Zone South is not physically connected to the 'B' Zone North and the structural attitude and limited size and grade of this skarn zone preclude the possibility of adding this rock to the tonnage outlined in the North zone.

4.6.2 Skarn Mineralogy and Trace Element Chemistry. Four large grab samples were taken from the skarn unit of the 'B' Zone North and sent for thin and polished section analysis. The samples were also assayed for trace elements. Samples #22401 and #22402 are diopside skarn which carries no sulphides. Samples #22403 and #22404 are pyrrhotite skarn. The following descriptions are taken intact from a report by Vancouver Petrographics Ltd.

#22401 Thin Section Analysis Rock Type: Skarn

Mineralogy and Mode (estimate):

Diopside-Hedenbergite	75%
Plagioclase	25%
Sphene	½%
Apatite	tr.
Epidote	tr.

Texture:

The section shows a medium-grained granoblastic texture. The plagioclase is generally finer-grained than the diopside.

Discussion:

The difference between this specimen and #22402 is due primarily to an increased aluminum content in this specimen as compared to #22402.

#22402 Thin Section Analysis Rock Type: Skarn

Mineralogy and Mode (estimated):

Diopside-Hedenbergite	75%
Garnet	25%
Carbonate	tr.

Texture:

The rock shows a medium- to coarse-grained granoblastic texture. The grains are generally anhedral, with the garnet being somewhat poikiloblastic. Some of the garnet shows slight birefringence and some zoning.

Discussion:

Mineralogy indicated that the specimen is a metamorphosed calcareous rock. The choice between calc-silicate hornfels and skarn would have to be made on field evidence.

#22403 Polished Section Analysis

Compositional bands from 1 to 2 mm wide result from layers with more or less sulphides; sulphide-rich layers contain 70-80% sulphides and sulphide-poor layers contain 20-30% sulphides. Large silicate grains commonly are elongated perpendicular to the layers, producing a slight foliation. The layers become richer in sulphides towards one end of the section.

Almost all of the sulphide is pyrrhotite, which forms equigranular aggregates intimately intergrown with silicates and quartz. Because of its lower form energy, pyrrhotite tends to be interstitial and poikilolitic. Pyrrhotite is altered patchily along small fractures to an extremely fine-grained intergrowth of marcasite-pyrite and a non-reflective mineral, possibly iron carbonate. Marcasite-pyrite is a name given to the alteration product of pyrrhotite. In other areas, a similar appearing alteration was identified as marcasite which then altered further to pyrite. Because of the fine-grained nature of the alteration, it was impossible to determine at what stage the alteration has proceeded. (See description of sample 22404 for further comments.)

#22404 Polished Section Analysis

Pyrrhotite forms massive equigranular aggregates intergrown with silicates. Alteration consists of scattered spots averaging 0.01 mm across in which pyrrhotite is altered to marcasite-pyrite and a non-reflective mineral (same alteration type as in Sample 22403). Some alteration zones are up to 1 cm across, and consist of concentric shells distinguished by variation in the amounts of sulphides and non-reflective minerals.

Commonly in the centre of a large alteration zone is an anhedral grain of pyrite. Large alteration zones are scattered randomly throughout the slide. The alteration may follow the reaction

$$2\ FeS + (CO_2 + \tfrac{1}{2}\ O_2) \rightarrow FeS_2 + (FeCO_3)$$

$(CO_2 + \tfrac{1}{2}\ O_2)$ from surface or other water.

$(FeCO_3)$ partly removed in solution.

Chalcopyrite is concentrated in a zone between 0.5 and 1 cm wide which cuts across the main mass of pyrrhotite-silicates. The zone is rich in quartz and contains both chalcopyrite and pyrrhotite, commonly intimately intergrown. Chalcopyrite commonly shows a vein-type elongation in the quartz. A little chalcopyrite is very fine-grained and intimately intergrown with silicates, possibly chlorite.

Both samples contain the primary sulphide assemblage: pyrrhotite-chalcopyrite. The sulphides are intimately intergrown with quartz and silicates; the textures are typical of skarn deposits. The assemblage pyrrhotite-chalcopyrite is that which would be found in a skarn deposit related to intermediate plutonic rocks.

The four grab samples were sent to Chemex Labs Ltd. for trace element analysis. This was a precautionary measure taken to ensure that no metals of economic significance were overlooked in the skarn unit. The assays are shown in Table 3 on the next page.

The distribution of the trace elements as shown in the table is fairly typical of skarn deposits. None of the values appear to be anomalous or to hold any potential as a possible economic by-product. In particular, the values for bismuth and copper are disappointing.

TABLE 3

TRACE ELEMENTS IN SKARN

Element	Lower Concentration Limit (ppm)	Sample Numbers #22401	#22402	#22403	#22404
Antimony	50	bcl	bcl	bcl	bcl
Arsenic	50	bcl	bcl	50	50
Barium	5	20	5	5	5
Beryllium	5	10	< 5	< 5	< 5
Bismuth	5	bcl	200	200	100
Boron	20	bcl	bcl	bcl	bcl
Cadmium	20	bcl	bcl	bcl	bcl
Calcium	0.05%	5%	10%	2%	2%
Chromium	10	100	100	100	100
Cobalt	10	10	bcl	50	50
Copper	1	50	50	1000	500
Gallium	2	10	20	10	10
Germanium	20	bcl	bcl	bcl	bcl
Iron	0.05%	5%	5%	20%	20%
Lead	5	20	20	10	20
Magnesium	0.02%	0.5%	0.2%	0.5%	0.5%
Manganese	5	5000	>5000	2000	2000
Molybdenum	10	bcl	bcl	50	20
Nickel	5	10	10	10	20
Niobium	50	bcl	bcl	bcl	bcl
Silver	1	bcl	bcl	2	1
Strontium	20	100	50	bcl	bcl
Tantalum	200	bcl	bcl	bcl	bcl
Tellurium	200	bcl	bcl	bcl	bcl
Thorium	100	bcl	bcl	bcl	bcl
Tin	10	20	50	10	20
Titanium	5	500	500	500	200
Vanadium	10	100	50	50	50
Zinc	50	500	200	100	100
Zirconium	20	20	50	50	50

Concentration Range

>5000 ppm = >5000 ppm	50 ppm = 25-100 ppm
5000 ppm = 2500-10000 ppm	20 ppm = 10-50 ppm
2000 ppm = 1000-4000 ppm	10 ppm = 5-20 ppm
1000 ppm = 500-2000 ppm	5 ppm = 2-10 ppm
500 ppm = 250-1000 ppm	2 ppm = 1-4 ppm
200 ppm = 100-400 ppm	1 ppm = 0.5-2 ppm
100 ppm = 50-200 ppm	bcl = below concentration limit

Ranges for Iron, Calcium & Magnesium are reported in %.

4.6.3 Diamond Drilling Program. The drill sites and diamond drill hole locations are shown on map #3 and many of the drill holes appear in the cross-sections which were constructed largely from drill hole data. The sample record sheets and diamond drill logs are contained in Vol. 2 of this report. The drill holes are numbered serially from 1 to 33 with a prefix to indicate the year the hole was drilled.

Over two summers, a total of 10,274 ft. was drilled in 33 holes. Of the total, 2405 ft. were drilled in 10 holes in 1974 and 7869 ft. were drilled in 23 holes in 1975. Most of the core is stored in racks constructed on the property but the core boxes containing the skarn intersections are stored in Watson Lake or Tungsten.

The ridge slopes above the 'B' showing are quite rugged requiring that a considerable effort be put into the construction of drill sites. Four or five days seems to be the minimum amount of time required to blast and muck out an appropriate site under these conditions. Because of the amount of construction time needed, the expense of moving the drill by helicopter, and the short depth of holes required, it was more expedient to limit the number of drill sites and drill a large number of holes from each site. At least 5 holes were drilled at each site, usually in a cone- or fan-shaped pattern.

Drilling on the north side of the ridge is considerably easier than on the south side. On the north side, the accelerated frost action continually dislodges weathered and broken rock so that relatively fresh and competent rock is always exposed at the surface. On the overburden-covered south side of the ridge, weathered and broken rock simply accumulates. Drilling progress was slowed considerably at D.S. #4 by

problems associated with drilling through this broken ground.

4.6.4 Grade and Tonnage Estimation. Grade and tonnage in the 'B' Zone North were estimated using the polygonal sectioning method. The polygonal section template (in Vol. 3) can be oriented properly by superimposing it over map #3 on a light-table and matching up the grid points.

Correction Factors

In calculating the volume of the skarn unit, some correction factors must be calculated to compensate for the particular geometry of the skarn zone and the diamond drill holes. Firstly, the dip of the skarn unit ranges between 20° and 70° which means that the horizontal plan area of each polygon understates the surface area of the skarn underlying the polygon. Secondly, the skarn unit and the drill holes are not mutually orthogonal so that the skarn intersections give an apparent thickness that overstates the true thickness of the skarn in each polygon.

The starting point in calculating the two correction factors is to determine the true dip of the skarn unit beneath each of the polygons. This was done using the geologist's "3-point problem" method and data from the diamond drill logs which permitted the elevation of the upper surface of the skarn unit in each drill hole to be calculated. The true attitude of the skarn unit used for each of the polygons is shown in the following table.

TABLE 4

TRUE ATTITUDES OF UPPER SURFACE OF SKARN UNIT IN POLYGONAL SECTIONS

Polygon	True Strike	True Dip
1,2,3	152°	31°E
4,5,6	135°	19°E
7,8,9	138°	59°E
10,11	13°	70°E

True Surface Area Calculation

The horizontal plan area of each polygon must be "grossed up" by dividing by the cosine of the true dip angle. The correction factors and true surface area of the skarn in each polygon appear in the following table.

TABLE 5

TRUE SURFACE AREA OF SKARN IN POLYGONAL SECTIONS

Polygon	Horizontal Plan Area (ft^2)	Correction Factor (cos of true dip)	True Surface Area (ft^2)
1	18,377	.8572	21,438
2	4,413	.8572	5,148
3	18,563	.8572	21,655
4	35,103	.9455	37,126
5	34,348	.9455	36,328
6	19,654	.9455	20,787
7	18,469	.5150	35,862
8	20,645	.5150	40,087
9	15,025	.5150	29,175
10	9,829	.3420	28,740
11	30,933	.3420	90,447

True Thickness Calculation

A second correction must be made to reduce the apparent thickness of the skarn unit in each drill hole to its true thickness. This correction is made by multiplying the length of the skarn intersection in each hole by the cosine of the dihedral angle between the drill hole

and the pole to the plane of true strike and dip. A stereonet was used to measure the dihedral angles. The figures are presented in the table below.

TABLE 6

TRUE THICKNESS OF SKARN IN POLYGONAL SECTIONS

Polygon	D.D.H.	Dihedral Angle	Correction Factor (cos dihedral)	Apparent Thickness (ft.)	True Thickness (ft.)
1	74-1	16°	.9613	17.0	16.3
2	74-3	43°	.7314	4.5	3.3
3	74-2	40°	.7660	15.5	11.9
4	74-10	38°	.7880	11.0	8.7
5	74-8	30°	.8660	13.0	11.3
6	74-6	20°	.9397	26.5	24.9
7	75-11	60°	.5000	24.0	12.0
8	75-13	66°	.4067	12.0	4.9
9	75-12	34°	.8290	19.5	16.2
10	75-14	50°	.6428	43.5	28.0
11	75-15	64°	.4384	8.0	3.5

Volume Calculation

The volume of rock in the skarn unit can now be calculated by aggregating the figures for each of the polygonal sections. The calculation is shown below.

TABLE 7

VOLUME OF THE SKARN UNIT

Polygon	True Surface Area (ft^2)	True Thickness (ft)	Volume (ft^3)
1	21,438	16.3	349,439
2	5,148	3.3	16,988
3	21,655	11.9	257,694
4	37,126	8.7	322,996
5	36,328	11.3	410,506
6	20,787	24.9	517,596
7	35,862	12.0	430,344
8	40,087	4.9	196,426
9	29,175	16.2	472,635
10	28,740	28.0	804,720
11	90,447	3.5	316,565
		total =	4,100,924 ft^3

Average Grade

The average grade of the deposit can be determined by using the volume of skarn in each polygon as a weighting factor for the WO_3 assays in each of the drill holes. The assay values for the skarn intersections in each drill hole are calculated in the sample record sheets in Vol. 2.

TABLE 8

CALCULATION OF AVERAGE GRADE

Polygon	D.D.H.	Weight Factor (ft^3)	Grade (% WO_3)	WT.FACTOR X GRADE (ft^3) X (% WO_3)
1	74-1	349,439	1.15	401,855
2	74-3	16,988	0.23	3,907
3	74-2	257,694	0.51	131,424
4	74-10	322,996	1.00	322,996
5	74-8	410,506	0.51	209,358
6	74-6	517,596	0.23	119,047
7	75-11	430,344	1.29	555,144
8	75-13	196,426	3.40	667,848
9	75-12	472,635	1.49	704,226
10	75-14	804,720	0.74	595,493
11	75-15	316,565	1.13	357,718
		4,100,924		4,071,354

$$\text{Average Grade} = \frac{4,071,354}{4,100,924} = 0.99\%\ WO_3 \approx 1.00\%\ WO_3$$

Tonnage Factor

A tonnage factor for the skarn unit was estimated by measuring the specific gravity of a number of samples of diopside skarn and pyrrhotite skarn and averaging them in a way that is representative of the relative proportions of the two skarn types in the deposit. The samples used for the specific gravity determination are the four specimens described in section 4.6.2.

TABLE 9

SPECIFIC GRAVITY DETERMINATIONS

Sample No.	Rock Type	Specific Gravity
22401	diopside skarn	3.28
22402	diopside skarn	3.48
22403	pyrrhotite skarn	4.19
22404	pyrrhotite skarn	3.85

Average S.G. for diopside skarn = $\frac{3.28 + 3.48}{2} = 3.38$

Tonnage factor for diopside skarn

$$= \frac{2000 \text{ lbs/ton}}{3.38 \times 62.5 \text{ lbs/ft}^3} = 9.47 \text{ ft}^3\text{/ton}$$

Average S.G. for pyrrhotite skarn = $\frac{4.19 + 3.85}{2} = 4.02$

Tonnage factor for pyrrhotite skarn

$$= \frac{2000 \text{ lbs/ton}}{4.02 \times 62.5 \text{ lbs/ft}^3} = 7.96 \text{ ft}^3\text{/ton}$$

The two skarn types are present in the deposit in the approximate relative proportions of 4 parts diopside skarn to 1 part pyrrhotite skarn. The weighted average tonnage factor for the deposit as a whole is calculated as follows:

$$\begin{array}{l} 4 \text{ parts} \times 9.47 \text{ ft}^3\text{/ton} = 37.88 \\ \underline{1 \text{ part}} \times 7.96 \text{ ft}^3\text{/ton} = \underline{7.96} \\ 5 \text{ parts} \qquad\qquad\qquad\quad 45.84 \text{ ft}^3\text{/ton} \end{array}$$

$$\text{Tonnage Factor} = \frac{45.84}{5}$$

$$= 9.17$$

$$\approx 9.2 \text{ ft}^3\text{/ton}$$

Grade and Tonnage

The following figures are the grade and tonnage estimates for the 'B' Zone North skarn unit.

$$\text{Average Grade} = 1.00\% \text{ WO}_3$$

$$\text{Tonnage} = \frac{4{,}100{,}924 \text{ ft}^3}{9.2 \text{ ft}^3\text{/ton}} \approx 446{,}000 \text{ tons}$$

These figures relate to the total tonnage of mineral-bearing material in the deposit. The tonnage that can be classed as ore, and the tons of ore that can be recovered or produced, will have to be determined in a feasibility study where other technical and economic factors can be taken into consideration. However, it may be that the concept of a cutoff grade may not have much application here. The small size and tight structural control of the deposit might make a selective mining technique no less costly than one aimed at total recovery of the skarn unit.

Any portion of the skarn unit which might become classed as ore on the basis of the evaluation work done so far should be regarded as 'indicated ore' following the U.S.G.S. definition. "'Indicated ore' is ore for which tonnage and grade are computed partly from specific measurements, samples, or production data and partly from projection for a reasonable distance on geologic evidence. The sites available for inspection, measurement, and sampling are too widely or otherwise inappropriately spaced to outline the ore completely or to establish its grade throughout."

4.6.5 Umpire Assays. Ten sample pulps which had been assayed by Canada Tungsten at the minesite were sent to Chemex Labs Ltd. for umpire assays. The assays by Cantung ranged from 0.14% WO_3 to 4.34% WO_3. The umpire assays by Chemex were done by both the wet chemical (thiocyanate colourimetric) and the X-ray fluorescence (XRF) methods. Table 10 shows the comparison of the Cantung assays with the umpire assays.

TABLE 10

UMPIRE ASSAY COMPARISON
(Figures in % WO_3)

Sample No.	Cantung Assay(XRF)	Chemex Assays			Difference	
		Wet Chem.	XRF	Average	% WO_3	% Error
11765	0.14	0.01	tr.	0.01	+0.13	+1300
11751	0.18	0.11	0.11	0.11	+0.07	+ 64
11754	0.88	0.87	0.81	0.84	+0.04	+ 5
11798	1.10	1.70	1.76	1.73	-0.63	- 36
11799	1.10	1.05	0.98	1.02	+0.08	+ 8
11760	1.30	1.53	1.58	1.56	-0.26	- 17
11756	1.62	1.70	1.64	1.67	-0.05	- 3
11757	1.71	2.16	2.19	2.17	-0.46	- 21
11758	1.78	2.23	2.51	2.37	-0.59	- 25
11767	4.34	4.76	4.65	4.71	-0.37	- 8

The figures in the difference columns are calculated by comparing the Cantung assay to the average of the Chemex assays which is used as a reference (and assumed to be accurate). It is apparent that, in either % WO_3 or % error terms, the Cantung assays deviate significantly from the umpire assays. Below about 1.0% WO_3, the Cantung assays overestimate the true grade and above this value, the true grade is underestimated. Since the average grade of the deposit is about 1.0% WO_3, it is not clear what effect the assay errors may have on the average grade calculation.

It may be the case that the assay errors cause the average grade of the deposit to be understated. The reasoning for this is that the % errors above and below 1.0% WO_3 might roughly cancel each other, but if the errors are measured in % WO_3, then a 20% error in underestimating an assay above 1.0% WO_3 cannot be cancelled by a 20% error in over-estimating an assay below 1.0% WO_3. This relationship appears to hold true if the assays are compared graphically as well but it should be kept in mind that 10 samples are a small data base on which to base any definite conclusions.

4.7 Geophysics

A number of magnetometer surveys were carried out using a hand-held Sharpe MF-1 fluxgate magnetometer. Five separate grid areas were surveyed (see index map#1). The data were corrected for diurnal variation and plotted on magnetometer profiles #1-5. It was hoped that the magnetic response of the pyrrhotite associated with the skarn would prove useful in tracing the known skarn zones beneath overburden and also in prospecting for new skarn zones. However, the results of the magnetometer surveys were generally inconclusive as it seems that a thin layer of overburden effectively masks the response of the pyrrhotite skarn.

In August, 1974, Scintrex Surveys Ltd., carried out a Turair survey over the northern part of the property (roughly, the survey covered the following claims: Oscar #1-4, Bailey #1-20, #34-39). The results of this survey have been filed in a separate report by P. R. Bailey of Scintrex Surveys. The Turair survey delineated some anomalous areas to the east and outside of the claim group. Follow-up investigations on the ground showed that the anomalies coincided with graphitic argillite horizons in map unit 4. Grab samples of the argillite were tested with an ohm-meter and proved to be highly conductive.

5. CONCLUSIONS AND RECOMMENDATIONS

Diamond drilling on the Morning Star Property has delineated a deposit containing 446,000 tons of mineralized skarn with an average grade of 1.00% WO_3.

The deposit has sufficient potential to warrant a feasibility study to determine whether expenditures for development and production would be an attractive investment decision for Canada Tungsten. While further analysis in this direction is outside the scope of this report, a number of observations and recommendations are presented which may be of use in any continued evaluation of the property.

(ii) Much of the scheelite in the skarn unit is finely disseminated in crystals less than 1 mm in size. This is especially true of the scheelite carried in pyrrhotite skarn where the highest WO_3 values generally occur. The fine-grained nature of the scheelite mineralization may have a bearing on any future milling operation.

(iii) There are no metals in the deposit which could form an economic by-product to accompany the tungsten. In particular, the copper values are quite low ranging from 0.0% - .25% and averaging less than .1%.

(iv) Tonnage estimations are fairly sensitive to the tonnage factor used

in the calculation. A large bulk sample could easily be obtained from the exposed skarn unit at the 'B' Zone North and used to determine a more reliable tonnage factor.

(v) As part of any future feasibility study, the pulps from the drill core assay samples should be re-assayed. The sample record sheets (Vol. 2) indicate whether the assays were done by Cantung or by Chemex and the pulps should be stored at the respective laboratories.

(vi) In the event that a decision is made to build a road into the property, the Department of Indian and Northern Affairs should be contacted in regards to their "Northern Roads Network Program". Under this programme, D.I.N.A. provides funds for road construction on a cost-sharing basis - the relative cost shares are a function of the status of the property. In general, the greater the potential of the property, the greater the share of funds contributed by D.I.N.A.

(vii) No further exploration work is recommended for the property. Investigation of the 'A', 'C' and 'B' Zone South showings indicates they do not have sufficient potential to warrant additional expenditure. The 'B' Zone North has been delineated by 16 diamond drill holes and reasonably accurate figures for grade and tonnage have been calculated. The information derived from the exploration work done to date should be adequate for the purpose of making a decision regarding a feasibility study.

Respectfully submitted,

Dana Way, B.Sc.(Eng.), M.B.A.

VOLUME #2

SAMPLE RECORD SHEETS AND DIAMOND DRILL LOGS

To Accompany Geological Report On Morning Star Property (Oscar and Bailey Claims) Yukon Territory

092120

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VOLUME 2

1) Sample Record Sheets for:

- D.D.H. 74-1
- D.D.H. 74-2
- D.D.H. 74-3
- D.D.H. 74-6
- D.D.H. 74-8
- D.D.H. 74-10
- D.D.H. 75-11
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- D.D.H. 75-13
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- D.D.H. 75-25
- D.D.H. 75-26
- D.D.H. 75-27
- chip samples, 'B' Zone North

2) Diamond Drill Hole Logs for D.D.H.'s 74-1 to 75-33, inclusive.

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SAMPLE RECORD SHEET

PROPERTY: Morning Star
LOCATION: Yukon
ASSAY BY: Cantung
D.D.H.: Chip Samples 'B' Zone North
PAGE: 1

SAMPLE NO.	FROM	TO	WIDTH	ASSAY		WIDTH X ASSAY		AVERAGE ASSAY	
				% WO_3	% CU	WO_3	CU	% WO_3	% CU
1001			2.5	2.82	0.03	7.05	0.08		
1002			9.5	0.88	0.04	8.36	0.38		
1003			5.5	2.12	0.03	11.66	0.17		
1004			13.0	0.92	0.05	11.96	0.65		
1005			2.0	2.23	0.00	4.46	0.00		
1006			3.0	2.23	0.00	6.69	0.00		
1007			4.5	2.12	0.02	9.54	0.09		
1008			4.5	2.06	0.03	9.27	0.14		
1009			2.5	2.08	0.04	5.20	0.10		
1010			2.5	3.28	0.01	8.20	0.03		
1011			4.0	1.84	0.02	7.36	0.08		
1012			4.0	2.08	0.02	8.32	0.08		
1013			4.5	1.06	0.02	4.77	0.09		
			62.0			102.84	1.89		

AVERAGE WIDTH = 62.0/13 = 4.8 ft

AVERAGE WO_3 =102.84/62.0 = 1.66%

AVERAGE Cu = 1.89/62.0 = 0.03%

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SAMPLE RECORD SHEET

PROPERTY: Morning Star
LOCATION: Yukon
ASSAY BY: Cantung
D.D.H.: 74-1 PAGE: 1

SAMPLE NO.	FROM	TO	WIDTH	ASSAY		WIDTH X ASSAY		AVERAGE ASSAY	
				% WO_3	% CU	WO_3	CU	% WO_3	% CU
11751	82.0	83.0	1.0	0.18	0.00	0.18	0.00		
11752	83.0	85.0	2.0	0.58	0.00	1.16	0.00		
11753	85.0	87.0	2.0	0.23	0.00	0.46	0.00		
11754	87.0	88.0	1.0	0.88	0.01	0.88	0.01		
11755	88.0	89.5	1.5	1.61	0.05	2.41	0.08		
11756	89.5	91.0	1.5	1.62	0.05	2.43	0.08		
11757	91.0	93.0	2.0	1.71	0.06	3.42	0.12		
11758	93.0	95.0	2.0	1.78	0.05	3.56	0.10		
11759	95.0	97.0	2.0	0.68	0.06	1.36	0.12		
11760	97.0	100.0	3.0	1.30	0.04	3.90	0.12		
11761	100.0	102.0	2.0	0.30	0.04	0.60	0.08		
AVERAGES									
1)	83.0	100.0	17.0			19.58	0.63	1.15	0.04

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SAMPLE RECORD SHEET

PROPERTY: Morning Star
LOCATION: Yukon
ASSAY BY: Cantung
D.D.H.: 74-2 PAGE: 1

SAMPLE NO.	FROM	TO	WIDTH	ASSAY		WIDTH X ASSAY		AVERAGE ASSAY	
				% WO_3	% CU	WO_3	CU	% WO_3	% CU
11762	102.0	104.0	2.0	0.78		1.56			
11763	104.0	105.0	1.0	0.14		0.14			
11764	105.0	106.5	1.5	0.21		0.31			
11765	106.5	108.0	1.5	0.14		0.21			
11766	108.0	110.0	2.0	0.57		1.14			
11767	110.0	110.5	0.5	4.34		2.17			
11768	110.5	112.5	2.0	0.32		0.64			
11769	112.5	114.5	2.0	0.32		0.64			
11770	114.5	116.0	1.5	0.23		0.34			
11771	116.0	117.5	1.5	0.54		0.81			
11772	117.5	120.5	3.0	0.17		0.51			
11773	120.5	123.5	3.0	0.17		0.51			
11774	123.5	126.5	3.0	0.28		0.84			
AVERAGES									
1)	102.0	117.5	15.5			7.96		0.51	

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SAMPLE RECORD SHEET

PROPERTY: Morning Star
LOCATION: Yukon
ASSAY BY: Cantung
D.D.H.: 74-3 PAGE: 1

SAMPLE NO.	FROM	TO	WIDTH	ASSAY		WIDTH X ASSAY		AVERAGE ASSAY	
				% WO_3	% CU	WO_3	CU	% WO_3	% CU
11775	112.0	113.0	1.0	0.14	0.00	0.14	0.00		
11776	113.0	114.0	1.0	0.24	0.01	0.24	0.01		
11777	114.0	114.5	0.5	0.26	0.04	0.13	0.02		
11778	114.5	117.5	3.0	0.22	0.03	0.66	0.09		
AVERAGES									
1)	113.0	117.5	4.5			1.03	0.12	0.23	0.03

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SAMPLE RECORD SHEET

PROPERTY: Morning Star
LOCATION: Yukon
ASSAY BY: Cantung
D.D.H.: 74-6

SAMPLE NO.	FROM	TO	WIDTH	ASSAY		WIDTH X ASSAY		AVERAGE ASSAY	
				% WO_3	% CU	WO_3	CU	% WO_3	% CU
1030	175.5	177.5	2.0	0.15	0.00	0.30	0.00		
1031	177.5	180.0	2.5	0.17	0.00	0.43	0.00		
1032	180.0	182.0	2.0	0.20	0.00	0.40	0.00		
1033	182.0	183.0	1.0	0.12	0.00	0.12	0.00		
1034	249.0	251.0	2.0	0.15	0.01	0.30	0.02		
1035	251.0	254.5	3.5	0.14	0.00	0.49	0.00		
1036	254.5	258.5	4.0	0.12	0.00	0.48	0.00		
1037	258.5	261.5	3.0	0.15	0.00	0.45	0.00		
1038	261.5	264.5	3.0	0.26	0.00	0.78	0.00		
1039	264.5	267.5	3.0	0.30	0.00	0.90	0.00		
1040	267.5	270.0	2.5	0.40	0.00	1.00	0.00		
1041	270.0	273.5	3.5	0.34	0.01	1.19	.04		
1042	273.5	275.5	2.0	0.24	0.01	0.48	.02		
AVERAGES									
1)	249.0	275.5	26.5			6.07		0.23	0.00
2)	175.5	183.0	7.5			1.25		0.17	0.00

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SAMPLE RECORD SHEET

PROPERTY: Morning Star
LOCATION: Yukon
ASSAY BY: Cantung
D.D.H.: 74-8
PAGE: 1

SAMPLE NO.	FROM	TO	WIDTH	ASSAY		WIDTH X ASSAY		AVERAGE ASSAY	
				% WO_3	% CU	WO_3	CU	% WO_3	% CU
1043	192.0	194.0	2.0	0.18	0.01	0.36	0.02		
1044	194.0	198.0	4.0	0.21	0.00	0.84	0.00		
1045	198.0	201.5	3.5	0.24	0.00	0.84	0.00		
1046	201.5	203.5	2.0	0.15	0.00	0.30	0.00		
1047	226.0	228.0	2.0	0.14	0.00	0.28	0.00		
1048	228.0	232.0	4.0	0.14	0.00	0.56	0.00		
1049	232.0	234.0	2.0	0.12	0.00	0.24	0.00		
1050	234.0	238.0	4.0	0.27	0.00	1.08	0.00		
11779	238.0	242.0	4.0	0.15	0.00	0.60	0.00		
11780	242.0	244.0	2.0	0.12	0.00	0.24	0.00		
11781	248.0	250.0	2.0	0.14	0.00	0.28	0.00		
11782	250.0	252.0	2.0	0.31	0.00	0.62	0.00		
11783	252.0	254.0	2.0	0.14	0.00	0.28	0.00		
11784	254.0	256.0	2.0	0.20	0.00	0.40	0.00		
11785	256.0	260.0	4.0	0.12	0.00	0.48	0.00		
11786	260.0	264.0	4.0	0.12	0.00	0.48	0.00		
11787	264.0	267.0	3.0	0.27	0.00	0.81	0.00		
11788	267.0	270.0	3.0	0.23	0.00	0.69	0.00		
11789	270.0	272.0	2.0	0.37	0.00	0.74	0.00		
11790	272.0	275.0	3.0	0.90	0.03	2.70	0.09		
11791	275.0	277.0	2.0	0.86	0.02	1.72	0.04		
11792	277.0	280.0	3.0	0.14	0.01	0.42	0.03		
11793	280.0	283.0	3.0	0.14	0.01	0.42	0.03		
AVERAGES									
1)	192.0	203.5	11.5			2.34	0.02	0.20	0.00
2)	226.0	244.0	18.0			3.00	0.00	0.17	0.00
3)	264.0	277.0	13.0			6.66	0.13	0.51	0.01
4)	272.0	277.0	5.0			4.42	0.13	0.88	0.03

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SAMPLE RECORD SHEET

PROPERTY: Morning Star
LOCATION: Yukon
ASSAY BY: Cantung
D.D.H.: 74-10

SAMPLE NO.	FROM	TO	WIDTH	ASSAY		WIDTH X ASSAY		AVERAGE ASSAY	
				% WO_3	% CU	WO_3	CU	% WO_3	% CU
11794	302.0	304.0	2.0	0.12	0.00	0.23	0.00		
11795	304.0	307.0	3.0	0.14	0.00	0.42	0.00		
11796	307.0	310.0	3.0	0.23	0.01	0.69	0.03		
11797	310.0	313.0	3.0	0.24	0.00	0.72	0.00		
11798	313.0	316.0	3.0	1.10	0.07	3.30	0.21		
11799	316.0	319.0	3.0	1.10	0.02	3.30	0.06		
11800	319.0	324.0	5.0	0.89	0.02	4.45	0.10		
AVERAGES									
1)	302.0	324.0	22.0			13.12	0.40	0.60	0.02
2)	313.0	324.0	11.0			11.05	0.37	1.00	0.03

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SAMPLE RECORD SHEET

PROPERTY: Morning Star
LOCATION: Yukon
ASSAY BY: Chemex
D.D.H.: 75-11
PAGE: 1

SAMPLE NO.	FROM	TO	WIDTH	ASSAY		WIDTH X ASSAY		AVERAGE ASSAY	
				% WO_3	% CU	WO_3	CU	% WO_3	% CU
22851	219.0	222.0	3.0	0.89	0.02	2.67	0.06		
22852	222.0	224.0	2.0	2.14	0.08	4.28	0.16		
22853	224.0	226.0	2.0	3.36	0.15	6.72	0.30		
22854	226.0	229.0	3.0	2.50	0.11	7.50	0.33		
22855	229.0	232.0	3.0	1.06	0.03	3.18	0.09		
22856	232.0	235.0	3.0	1.33	0.01	3.99	0.03		
22857	235.0	239.0	4.0	0.24	0.01	0.96	0.04		
22858	239.0	243.0	4.0	0.41	0.01	1.64	0.04		
22859	243.0	246.0	3.0	0.06	0.01	0.18	0.03		
22860	246.0	250.0	4.0	0.24	0.01	0.96	0.04		
AVERAGES									
1)	222.0	235.0	13.0			25.67	0.91	1.97	0.07
2)	219.0	243.0	24.0			30.94	1.05	1.29	0.04

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SAMPLE RECORD SHEET

PROPERTY: Morning Star
LOCATION: Yukon
ASSAY BY: Chemex
D.D.H.: 75-12
PAGE: 1

SAMPLE NO.	FROM	TO	WIDTH	ASSAY		WIDTH X ASSAY		AVERAGE ASSAY	
				% WO_3	% CU	WO_3	CU	% WO_3	% CU
22861	101.5	104.0	2.5	0.48	0.03	1.20	0.08		
22862	104.0	107.0	3.0	2.61	0.07	7.83	0.21		
22863	107.0	109.0	2.0	0.94	0.01	1.88	0.02		
22864	109.0	112.0	3.0	0.41	0.05	1.23	0.15		
22865	112.0	115.0	3.0	1.20	0.10	3.60	0.30		
22866	115.0	118.0	3.0	1.89	0.11	5.67	0.33		
22867	118.0	121.0	3.0	2.55	0.05	7.65	0.15		
22868	121.0	125.0	4.0	0.04	0.01	0.16	0.04		
AVERAGES									
1)	101.5	121.0	19.5			29.06	1.24	1.49	0.06

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SAMPLE RECORD SHEET

PROPERTY: Morning Star
LOCATION: Yukon
ASSAY BY: Cantung
D.D.H.: 75-13 PAGE: 1

SAMPLE NO.	FROM	TO	WIDTH	ASSAY		WIDTH X ASSAY		AVERAGE ASSAY	
				% WO_3	% CU	WO_3	CU	% WO_3	% CU
22869	188.5	191.5	3.0	0.00	0.00	0.00	0.00		
22870	191.5	194.5	3.0	2.31	0.00	6.93	0.00		
22871	194.5	197.5	3.0	0.41	0.00	1.23	0.00		
22872	197.5	200.5	3.0	5.70	0.00	17.10	0.00		
22873	200.5	203.5	3.0	5.18	0.00	15.54	0.00		
22874	203.5	206.5	3.0	0.00	0.00	0.00	0.00		
22875	206.5	209.0	2.5	0.50	0.00	1.25	0.00		
AVERAGES									
1)	191.5	203.5	12.0			40.80	0.00	3.40	0.00

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SAMPLE RECORD SHEET

PROPERTY: Morning Star
LOCATION: Yukon
ASSAY BY: Cantung
D.D.H.: 75-14

SAMPLE NO.	FROM	TO	WIDTH	ASSAY		WIDTH X ASSAY		AVERAGE ASSAY	
				% WO_3	% CU	WO_3	CU	% WO_3	% CU
22826	144.5	148.5	4.0	0.68	0.00	2.72	0.00		
22827	148.5	152.0	3.5	1.28	0.00	4.48	0.00		
22828	152.0	154.0	2.0	0.19	0.00	0.38	0.00		
22829	154.0	156.5	2.5	0.94	0.05	2.35	0.13		
22830	156.5	159.5	3.0	1.76	0.00	5.28	0.00		
22831	159.5	163.5	4.0	1.15	0.00	4.60	0.00		
22832	163.5	167.5	4.0	0.40	0.00	1.60	0.00		
22833	167.5	171.5	4.0	0.20	0.00	0.80	0.00		
22834	171.5	175.5	4.0	0.50	0.00	2.00	0.00		
22835	175.5	178.5	3.0	0.52	0.00	1.56	0.00		
22836	178.5	179.5	1.0	0.58	0.01	0.58	0.01		
22837	179.5	183.5	4.0	0.19	0.00	0.76	0.00		
22838	183.5	188.0	4.5	1.10	0.00	4.95	0.00		
22839	188.0	191.0	3.0	0.00	0.00	0.00	0.00		
AVERAGES									
1)	144.5	188.0	43.5			32.06	0.14	0.74	0.00

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SAMPLE RECORD SHEET

PROPERTY: Morning Star
LOCATION: Yukon
ASSAY BY: Cantung
D.D.H.: 75-15 PAGE: 1

SAMPLE NO.	FROM	TO	WIDTH	ASSAY		WIDTH X ASSAY		AVERAGE ASSAY	
				% WO_3	% CU	WO_3	CU	% WO_3	% CU
22840	252.5	254.0	1.5	1.04	0.00	1.56	0.00		
22841	254.0	256.0	2.0	1.45	0.08	2.90	0.16		
22842	256.0	258.0	2.0	0.59	0.07	1.18	0.14		
22843	258.0	260.5	2.5	1.36	0.06	3.40	0.15		
22844	260.5	262.5	2.0	0.00	0.00	0.00	0.00		
AVERAGES									
1)	252.5	260.5	8.0			9.04	0.45	1.13	0.06

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SAMPLE RECORD SHEET

PROPERTY: Morning Star
LOCATION: Yukon
ASSAY BY: Cantung
D.D.H.: 75-21 PAGE: 1

SAMPLE NO.	FROM	TO	WIDTH	ASSAY		WIDTH X ASSAY		AVERAGE ASSAY	
				% WO_3	% CU	WO_3	CU	% WO_3	% CU
22817	235.5	237.5	1.5	0.41	0.01	0.62	0.02		
22818	237.0	238.5	1.5	0.22	0.01	0.33	0.02		
AVERAGES	235.5	238.5	3.0			0.95	0.04	0.32	0.01

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SAMPLE RECORD SHEET

PROPERTY: Morning Star
LOCATION: Yukon
ASSAY BY: Cantung
D.D.H.: 75-25 PAGE: 1

SAMPLE NO.	FROM	TO	WIDTH	ASSAY		WIDTH x ASSAY		AVERAGE ASSAY	
				% WO_3	% CU	WO_3	CU	% WO_3	% CU
22819	359.0	360.5	1.5	0.09	0.11	0.14	0.17		
22820	360.5	362.5	2.0	0.13	0.13	0.26	0.26		
22821	362.5	364.0	1.5	0.13	0.16	0.20	0.24		
22822	364.0	366.5	2.5	0.07	0.13	0.18	0.33		
22823	366.5	370.5	4.0	0.04	0.13	0.16	0.52		
22824	370.5	373.5	3.0	0.07	0.10	0.21	0.30		
22825	373.5	376.5	3.0	0.11	0.02	0.33	0.06		
34126	376.5	380.0	3.5	0.27	0.09	0.95	0.32		
34127	380.0	382.5	2.5	0.27	0.04	0.68	0.10		
AVERAGES									
1)	359.0	382.5	23.5			3.11	2.30	0.13	0.10
2)	376.5	382.5	6.00			1.63	0.42	0.27	0.07

092120

canada tungsten mining corp.

SAMPLE RECORD SHEET

PROPERTY: Morning Star
LOCATION: Yukon
ASSAY BY: Cantung
D.D.H.: 75-26
PAGE: 1

SAMPLE NO.	FROM	TO	WIDTH	ASSAY		WIDTH X ASSAY		AVERAGE ASSAY	
				% WO_3	% CU	WO_3	CU	% WO_3	% CU
34128	495.5	498.5	3.0	0.47	0.02	1.41	0.06		
34129	498.5	501.0	2.5	0.71	0.15	1.78	0.38		
34130	501.0	503.0	2.0	0.17	0.03	0.34	0.06		
AVERAGES									
1)	495.5	503.0	7.5			3.53	0.50	0.47	0.07

092120

canada tungsten mining corp.

SAMPLE RECORD SHEET

PROPERTY: Morning Star
LOCATION: Yukon
ASSAY BY: Cantung
D.D.H.: 75-27 PAGE: 1

SAMPLE NO.	FROM	TO	WIDTH	ASSAY		WIDTH X ASSAY		AVERAGE ASSAY	
				% WO_3	% CU	WO_3	CU	% WO_3	% CU
34131	595.0	596.0	1.0	0.27	0.03	0.27	0.03		
34132	596.0	599.0	3.0	1.12	0.15	3.36	0.45		
34133	599.0	603.0	4.0	1.68	0.25	6.72	1.00		
34134	603.0	606.5	3.5	1.78	0.24	6.23	0.84		
34135	606.5	610.5	4.0	0.96	0.12	3.84	0.48		
AVERAGES									
1)	595.0	610.5	15.5			20.42	2.80	1.32	0.18

092120

092120

Dip at Collar 66°
Bearing 210°
Mag. Decl'n 32°
Baseline Underhill Grid
Acid Tests None taken

Notes:
NQ core
Elevation at collar 4541'

DIAMOND DRILL HOLE _____
LOG AND SAMPLE RECORD
CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 D.D.H. 74-1
103,915 N 98,800 E
Property Bailey Group
Location Yukon
Logged by D.C. Way
Started Aug. 2, 1974
Finished Aug. 3, 1974
Footage Drilled 108'

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	6	6	CASING											
6	27	21	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. - broken ground from 6' - 10'										
27	83	56	MARBLE	White to grey banded marble. Contains stringers of garnet-diopside up to a few inches thick and lenses of cherty garnet-diopside skarn up to 18".										
				White to grey banded marble. - C.B.A. is 90°	11751	82	83		(see sample record sheet for calculations)					
83	100	17	SKARN	Garnet-diopside skarn. Contains thin stringers and small crystals of calcite. Scheelite is finely disseminated through interval.	11752	83	85							
				Garnet-diopside skarn. Carries fine-grained scheelite and minor calcite and epidote.	11753	85	87							
				Diopside skarn. Carries fine-grained scheelite and minor garnet, calcite and pyrrhotite.	11754	87	88							
				Diopside-pyrrhotite skarn. Diopside and pyrrhotite occur in alternating bands approx. 1/8" thick at 75° to C.A. Carries fine- to medium-grained scheelite and minor disseminated chalcopyrite.	11755	88	89.5							

092120

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 2 DDH 74-1

_____N_____E_____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
				Pyrrhotite-diopside skarn. Pyrrhotite and diopside present in approx. equal amounts in alternating bands up to 1/2". Carries fine-grained scheelite and minor epidote and calcite. - C.B.A. = 60°	11756	89.5	91							
				Banded diopside-pyrrhotite skarn. Pyrrhotite and diopside mixed with aphanitic silicates. Carries fine-grained scheelite and minor garnet and chalcopyrite. - C.B.A. = 75°	11757	91	93							
				Massive pyrrhotite skarn and intermixed aphanitic silicates. Carries fine-grained scheelite and minor diopside and disseminated chalcopyrite.	11758	93	95							
				Pyrrhotite skarn with intermixed aphanitic silicates. Carries fine-grained scheelite and minor diopside and disseminated chalcopyrite.	11759	95	97							
				Pyrrhotite skarn with intermixed aphanitic silicates. Carries fine- to medium-grained scheelite and minor garnet, diopside and disseminated chalcopyrite.	11760	97	100							
100	108	8	GRANO-DIORITE	Chill margin of granodiorite. Contains small stringers of pyrrhotite with minor chalcopyrite and scheelite.	11761	100	102							
				Medium-grained, hornblende-biotite granodiorite from 102' - 108'.										

092120

Dip at Collar 26°
Bearing 210°
Mag. Decl'n 32°
Baseline Underhill Grid
Acid Tests None taken

Notes:
BQ core
Elevation at collar 4541'

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 D.D.H. 74-2
103,915 N 98,800 E
Property Bailey Group
Location Yukon
Logged by D.C. Way
Started Aug. 3, 1974
Finished Aug. 4, 1974
Footage Drilled 138'

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	6	6	CASING											
6	37.5	31.5	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Granodiorite dyke from 28.5' - 30.5'. - broken ground from 6' - 15'										
37.5	105	67.5	MARBLE	White to grey banded marble with occasional lenses of green, cherty skarn and garnet-diopside up to a few inches thick.										
				White to grey banded marble. Carries 3" lens of garnet-diopside skarn with fine- to medium-grained scheelite.	11762	102	104		(see sample record sheet for calculations)					
				White to grey banded marble. - C.B.A. = 50°	11763	104	105							
105	117.5	12.5	SKARN	Garnet-diopside skarn. Contains minor calcite in small crystals and minor fine-grained scheelite.	11764	105	106.5							
				White to grey banded marble. - C.B.A. = 65°	11765	106.5	108							
				Garnet-diopside skarn. Contains minor calcite in small crystals and thin fracture fillings. Carries minor fine-grained scheelite.	11766	108	110							

092120

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 2 D.D.H. 74-2

_____N_____E_____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
				Garnet-diopside skarn. Contains minor calcite and fine- to medium-grained scheelite. Some of the larger scheelite crystals fluoresce with both the characteristic blue-white colour and also a lime-green colour.	11767	110	110.5								
				Garnet-diopside skarn. Carries minor calcite and minor fine-grained scheelite, most of which fluoresces the lime-green colour.	11768	110.5	112.5								
				Garnet-diopside skarn. Minor calcite in small crystals and in thin fracture fillings. Minor fine-grained scheelite.	11769	112.5	114.5								
				Mixed garnet-diopside skarn and white to grey garnetiferous marble. Minor epidote and fine-grained scheelite.	11770	114.5	116								
				Garnet-diopside skarn. Minor epidote and calcite as small crystals and fracture fillings. Fine-grained scheelite, in part fluorescing lime-green.	11771	116	117.5								
117.5	123.5	6	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and green, cherty skarn. Contains dolomitic stringers up to 1/4". Green cherty skarn lenses contain fine-grained scheelite and minor disseminated pyrrhotite. Most of interval is aphanitic and siliceous in appearance, grey in colour, and contains no scheelite. - C.B.A. = 55°	11772	117.5	120.5								

092120

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 3 D.D.H. 74-2

_____ N _____ E _____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
				Aphanitic silicates and interbanded dark, biotitic quartzite and green cherty skarn. Contains some garnet-diopside bands up to 2". - C.B.A. = 60°	11773	120.5	123.5							
123.5	138	14.5	GRANO-DIORITE	Intermixed granodiorite and banded cherty skarn from chill margin. Remainder of interval from 126' - 138' is medium-grained, hornblende-biotite granodiorite.	11774	123.5	126							

Dip at Collar 55°
Bearing 158°
Mag. Decl'n 32°
Baseline Underhill Grid
Acid Tests None taken

Notes:
BQ core
Elevation at collar 4541'

DIAMOND DRILL HOLE

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 DDH 74-3
103,915 N 98,800 E
Property Bailey Group
Location Yukon
Logged by D.C. Way
Started Aug. 5, 1974
Finished Aug. 6, 1974
Footage Drilled 126.5

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	6	6	CASING											
6	38	32	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. - frequent shear planes from 6' - 31'.										
38	113	75	MARBLE	White to grey banded marble with occasional stringers of garnet-diopside up to a few inches thick. Lens of diopside skarn from 102' - 103' with finely disseminated scheelite.										
				White to grey banded marble.	11775	112	113		(see sample record sheet for calculations)					
113	114.5	1.5	SKARN	Garnet-diopside skarn. Contains small stringers of calcite and fine-grained scheelite.	11776	113	114							
				Pyrrhotite and aphanitic silicates with minor fine-grained scheelite.	11777	114	114.5							
114.5	126.5	12	GRANO-DIORITE	Mixed granodiorite and aphanitic silicates from chill margin with minor fine-grained scheelite.	11778	114.5	117.5							
				Remainder of interval from 117.5' - 126.5' is medium-grained, hornblende-biotite granodiorite.										

092120

Dip at Collar 28°
Bearing 138°
Mag. Decl'n 32°
Baseline Underhill Grid
Acid Tests None taken

Notes:
BQ core
Elevation at collar 4541'

DIAMOND DRILL HOLE
LOG AND SAMPLE RECORD
CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 D.D.H. 74-4
103,915 N 98,800 E
Property Bailey Group Started Aug. 6, 1974
Location Yukon Finished Aug. 7, 1974
Logged by D.C. Way Footage Drilled 195

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	10	10	CASING											
10	181	171	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Granodiorite dykes from 82' - 83', 115' - 129', 160' - 164'. Marble lenses from 83' - 85', 100' - 101'. Garnet-diopside skarn with minor finely-disseminated scheelite from 98' - 100', 101' - 102.5'. - frequent shears from 10' - 30'.										
181	195	14	GRANO-DIORITE	Medium-grained, hornblende-biotite granodiorite. Alternating aphanitic and crystalline bands from chill margin.										

092120

Dip at Collar 55°
Bearing 95°
Mag. Decl'n 32°
Baseline Underhill Grid
Acid Tests None taken

Notes:
BQ core
Elevation at collar 4541'

DIAMOND DRILL HOLE
LOG AND SAMPLE RECORD
CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 D.D.H. 74-5
103,915 N 98,800 E
Property Bailey Group
Location Yukon
Logged by D.C. Way
Started Aug. 8, 1974
Finished Aug. 9, 1974
Footage Drilled 117

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	8	8	CASING											
8	39	31	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Carries minor disseminated pyrrhotite. - broken ground from 8' - 17'										
39	96.5	57.5	MARBLE	White to grey banded marble with occasional lenses of garnet-diopside skarn up to a few inches in width. Interval from 42' - 47' is intermixed marble, green cherty skarn and garnet-diopside skarn.										
96.5	97	.5	SKARN	Diopside skarn with very minor fine-grained scheelite.										
97	117	20	GRANO-DIORITE	Medium-grained, hornblende-biotite granodiorite. In part aphanitic from chill margin.										

Dip at Collar 90
Bearing -
Mag. Decl'n 32°
Baseline Underhill Grid
Acid Tests None taken

Notes:
BQ core
Elevation at collar 4843'

DIAMOND DRILL HOLE

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 DDH 74-6
103,587 N 98,590 E
Property Bailey Group
Location Yukon
Logged by D.C. Way
Started Aug. 15, 1974
Finished Aug. 17, 1974
Footage Drilled 312

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	5	5	CASING											
5	86	81	DARK QUARTZITE	Dark, fine-grained, sugary-textured, biotitic quartzite. Foliation imparted to rock by oriented biotite flakas. Contains occasional thin bands of grey-green chert and limy diopside skarn. Quartz veinlets up to 1" thick, are concordant with the foliation. Dark biotitic intervals carry minor disseminated pyrrhotite. Granodiorite dyke from 27.5' - 28.5'. - C.B.A. @ 7' = 30° - C.B.A. @ 18' = 45° - C.B.A. @ 33' = 55° - C.B.A. @ 69' = 60° - C.B.A. @ 77' = 60°										
86	152.5	66.5	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Contains bands of garnet-diopside skarn up to a few inches in width. Granodiorite dyke from 132' - 137.5'. - C.B.A. @ 118' = 50° - C.B.A. @ 126' = 50°										
152.5	154	1.5	SKARN	Garnet-diopside skarn with thin calcite fracture-fillings. Carries minor fine- to medium-grained scheelite.										
154	170	16	MARBLE	White to grey banded marble with small patches and thin lenses of garnet-diopside.										

092120

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 2 D.D.H. 74-6

_____ N _____ E _____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
170	177.5	7.5	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Granodiorite dyke from 170.5' - 172.5'.										
				Mixed marble with garnet-diopside stringers and grey-green chert with disseminated pyrrhotite.	1030	175.5	177.5		(see sample record sheets for calculations)					
177.5	182	4.5	SKARN	Medium-grained diopside skarn with minor calcite, garnet and epidote. Contains negligible scheelite.	1031	177.5	180							
				Medium-grained diopside skarn with minor calcite, garnet and epidote. Contains negligible scheelite.	1032	180	182							
182	202	20	MARBLE	White garnetiferous and slightly diopside marble.	1033	182	183							
				Remainder of interval from 183' - 202' is white garnetiferous marble.										
202	209	7	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert.										
209	244	35	MARBLE	White to grey banded garnetiferous marble. Lenses of garnet-diopside skarn with minor scheelite from 209' - 210', 243' - 244'.										
244	251	7	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert.										

092120

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 3 D.D.H. 74-6

_____N_____E_____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

092120

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
				Mixed dark, biotitic quartzite and grey-green chert (diopsidic in part). Contains thin calcite fracture-fillings and minor disseminated pyrrhotite.	1034	249	251							
251	273.5	22.5	SKARN	Fine- to medium-grained garnet-diopside skarn with minor epidote and thin calcite fracture-fillings. Carries minor fine-grained scheelite. - C.B.A. @ 253' = 70°	1035	251	254.5							
				Cherty garnet-diopside skarn with minor epidote, calcite in thin stringers, and minor scheelite.	1036	254.5	258.5							
				Crudely banded, cherty, garnet-diopside skarn with minor calcite in thin stringers and minor epidote. Scheelite is fine- to medium-grained.	1037	258.5	261.5							
				Crudely banded, garnet-diopside skarn, cherty in part. Carries fine- to medium-grained scheelite and minor calcite and epidote.	1038	261.5	264.5							
				Crudely banded, garnet-diopside skarn. Contains very minor calcite and epidote. Carries disseminated pyrrhotite and fine- to medium-grained scheelite.	1039	264.5	267.5							
				Garnet-diopside skarn, cherty and crudely banded in part. Contains minor calcite and epidote. Carries disseminated pyrrhotite and fine- to medium-grained scheelite.	1040	267.5	270							

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 4 D.D.H. 74-6

_____N_____E_____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
				Diopside skarn with minor garnet, epidote and calcite,	1041	270	273.5							
				cherty in part. Carries heavily disseminated pyrrho-										
				tite and fine- to medium-grained scheelite.										
273.5	299	25.5	BANDED	Dark, biotitic quartzite and dark, siliceous, cherty	1042	273.5	275.5							
			QUARTZITE	skarn. Contains thin calcite stringers and minor										
				disseminated pyrrhotite.										
				Remainder of interval from 275.5' - 299' is inter-										
				banded dark, biotitic quartzite and grey-green chert.										
				- broken ground through most of interval.										
299	312	13	GRANO-	Medium-grained, hornblende-biotite granodiorite.										
			DIORITE	- broken ground from 299' - 309'										

93220

Dip at Collar 33°
Bearing 205°
Mag. Decl'n 32°
Baseline Underhill Grid
Acid Tests None taken

Notes:
BQ core
Elevation at collar 4843'

DIAMOND DRILL HOLE
LOG AND SAMPLE RECORD
CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 DDH 74-7
103,587 N 98,590 E
Property Bailey Group
Location Yukon
Logged by D.C. Way
Started Aug. 17, 1974
Finished Aug. 20, 1974
Footage Drilled 328

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	6	6	CASING											
6	113	107	DARK QUARTZITE	Dark, fine-grained, sugary-textured, biotitic quartzite with minor disseminated pyrrhotite. Foliation imparted to rock by biotite. Contains occasional thin green cherty bands. - broken ground from 6' - 53', 85' - 87', 108' - 110' - C.B.A. @ 73' = 50° - C.B.A. @ 96' = 40°										
113	293	180	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Contains occasional thin dolomitic stringers. Granodiorite dyke from 226' - 233'. - broken ground from 130' - 131', 135.5' - 136.5', 139' - 140', 146' - 149', 150' - 154' - C.B.A. @ 115' = 45° - C.B.A. @ 162' = 45° - C.B.A. @ 265' = 25°										
293	328	35	GRANO-DIORITE	Medium-grained, hornblende-biotite granodiorite.										

Dip at Collar 62°
Bearing 300°
Mag. Decl'n 32°
Baseline Underhill Grid
Acid Tests None taken

Notes:
BQ core
Elevation at collar 4843'

DIAMOND DRILL HOLE

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 DDH 74-8
103,587 N 98,590 E
Property Bailey Group
Location Yukon
Logged by D.C. Way
Started Aug. 20, 1974
Finished Aug. 24, 1974
Footage Drilled 326

092120

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	10	10	CASING											
10	98	88	DARK QUARTZITE	Dark, fine-grained, sugary-textured, biotitic quartzite with minor disseminated pyrrhotite. Foliation imparted to rock by biotite. Contains occasional thin bands of grey-green chert. Quartz pegmatite with coarse-grained biotite from 31' - 33'. - broken ground from 10' - 30', 40' - 60', 92' - 96'										
98	129	31	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert with occasional small lenses of limy garnet-diopside skarn. - C.B.A. @ 125' = 60°										
129	187	58	MARBLE	White to grey banded marble with small lenses of garnet and garnet-diopside. Lens of diopside-garnet skarn with very minor scheelite from 186' - 187'.										
187	194	7	BANDED QUARTZITE	Dark, very fine-grained quartzite. Crudely banded, dark, biotitic quartzite and grey chert.	1043	192	194		(see sample record sheet for calculations)					
194	201.5	7.5	SKARN	Garnet-diopside skarn. Minor epidote and calcite in small crystals and thin stringers. Carries minor fine- to medium-grained scheelite.	1044	194	198							
				Garnet-diopside skarn. Minor epidote and calcite in small crystals and thin stringers. Carries minor fine- to medium-grained scheelite.	1045	198	201.5							

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 2 D.D.H. 74-8

_____ N _____ E _____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
201.5	264	62.5	MARBLE	White to grey banded marble.	1046	201.5	203.5							
				White to grey banded marble from 203.5' - 226'.										
				White to grey banded, garnetiferous and diopsidic marble.	1047	226	228							
				Garnet-diopside skarn. Minor epidote and calcite in small crystals and thin stringers. Carries minor fine-grained scheelite.	1048	228	232							
				White marble.	1049	232	234							
				Garnet-diopside skarn. Carries minor calcite, epidote and fine-grained scheelite.	1050	234	238							
				Garnet-diopside skarn. Minor epidote and calcite in small crystals and thin stringers. Carries minor fine-grained scheelite.	11779	238	242							
				White marble.	11780	242	244							
				White to grey banded marble from 244' - 248'.										
				White to grey banded marble.	11781	248	250							
				Garnet-diopside skarn. Carries minor calcite and fine-grained scheelite.	11782	250	252							

09216

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 3 D.D.H. 74-8

_____N_____E_____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

092120

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
				White to grey banded marble.	11783	252	254							
				Mixed marble and garnet-diopside skarn.	11784	254	256							
				White to grey banded marble.	11785	256	260							
				White to grey banded marble.	11786	260	264							
264	277	13	SKARN	Garnet-diopside skarn with minor calcite and fine-grained scheelite.	11787	264	267							
				Garnet-diopside skarn with minor calcite and fine-grained scheelite.	11788	267	270							
				Garnet-diopside skarn with minor calcite and fine-grained scheelite.	11789	270	272							
				Crudely banded garnet-diopside and pyrrhotite. Minor calcite and epidote. Scheelite mineralization is fine-grained.	11790	272	275							
				Crudely banded diopside-pyrrhotite skarn. Minor calcite and epidote. Scheelite mineralization is fine-grained.	11791	275	277							
277	326	49	GRANO-DIORITE	Mixed pyrrhotite-diopside skarn with minor chalcopyrite and aphanitic silicates from chill margin.	11792	277	280							

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 4 D.D.H. 74-8

_____ N _____ E _____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
				Mixed diopside skarn and aphanitic silicates from	11793	280	283							
				chill margin.										
				Possible mixture of aphanitic silicates and banded quartzite from 283' - 287'. Remainder of interval from 287' - 326' is medium-grained hornblende-biotite granodiorite.									
				- broken ground from 278' - 326'.										

092160

Dip at Collar 65°
Bearing 30°
Mag. Decl'n 32°
Baseline Underhill Grid
Acid Tests None taken

Notes:
BQ core
Elevation at collar 4843'

DIAMOND DRILL HOLE
LOG AND SAMPLE RECORD
CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 D.D.H. 74-9
103,587 N 98,590 E
Property Bailey Group
Location Yukon
Logged by D.C. Way
Started Aug. 24, 1974
Finished Aug. 26, 1974
Footage Drilled 417

092120

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	10	10	CASING											
10	150	140	DARK QUARTZITE	Dark, fine-grained, sugary-textured, biotitic quartzite with minor disseminated pyrrhotite. Biotite imparts foliation to rock. Contains occasional bands of grey-green chert and diopside skarn and thin calcite fracture-fillings. - broken ground from 15' - 16', 58' - 66' - C.B.A. @ 29' = 15° - C.B.A. @ 80' = 40° - C.B.A. @ 115' = 35° - C.B.A. @ 143' = 30°										
150	232	82	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Cherty horizons carry bands of mixed calcite-garnet-diopside with minor disseminated pyrrhotite. White to grey banded garnetiferous diopsidic marble from 226' - 228'. - broken ground from 195' - 198', 202' - 203' - C.B.A. @ 150' = 35° - C.B.A. @ 211' = 35°										
232	235	3	SKARN	Garnet-diopside skarn with minor calcite and epidote. Contains thin calcite fracture-fillings up to 1/8" and minor fine-grained scheelite.										
235	240	5	MARBLE	White to grey banded marble.										

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

 DDH 74-9

_____N_____E_____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
240	257	17	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Mixed limy chert and diopside skarn from 240' - 243'. White to grey ganded garnetiferous marble from 251' - 252'.										
257	373	116	MARBLE	White to grey banded marble with lenses of garnet and garnet-diopside up to a few inches thick. - C.B.A. @ 268' = 30° - C.B.A. @ 345' = 50°										
373	389	16	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert with lenses of garnet-diopside up to a few inches thick and thin calcite stringers. - broken ground from 387' - 389'										
389	417	28	GRANO-DIORITE	Medium-grained, hornblende-biotite granodiorite. - broken ground from 390' - 410'										

9120

Dip at Collar 65°
Bearing 345°
Mag. Decl'n 32°
Baseline Underhill Grid
Acid Tests None taken

Notes:
BQ core
Elevation at collar 4843'

DIAMOND DRILL HOLE
LOG AND SAMPLE RECORD
CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 D.D.H. 74-10
103,587 N 98,590 E
Property Bailey Group
Location Yukon
Logged by D.C. Way
Started Aug. 27, 1974
Finished Aug. 29, 1974
Footage Drilled 37

092120

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	10	10	CASING											
10	90	80	DARK QUARTZITE	Dark, fine-grained, sugary-textured biotitic quartzite with minor disseminated pyrrhotite. Carries occasional small bands of diopside skarn and grey-green chert. - frequent broken ground through interval - C.B.A. @ 39' = 20° - C.B.A. @ 76' = 50°										
90	173	83	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert with occasional small limy diopside skarn lenses.										
173	180	7	MARBLE	White to grey banded marble, garnetiferous and slightly diopsidic.										
180	184	4	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert.										
184	304	120	MARBLE	White to grey banded marble, occasionally garnetiferous. Lenses of garnet-diopside skarn from 223' - 225', 248.5' - 250.5'.										
				White to grey banded marble.	11794	302	304		(see sample record sheet for calculations)					
304	316	12	SKARN	Cherty garnet-diopside skarn. Carries minor calcite and fine-grained scheelite.	11795	304	307							
				Garnet-diopside skarn. Contains minor calcite and minor fine- to medium-grained scheelite.	11796	307	310							

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 2 D.D.H. 74-10

_____N_____E_____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
				Cherty diopside skarn with minor garnet and calcite.	11797	310	313							
				Carries minor fine- to medium-grained scheelite.										
				Massive pyrrhotite crudely banded with cherty diopside	11798	313	316							
				skarn. Carries fine- to medium-grained scheelite.										
316	337	21	GRANO-	Aphanitic chill margin of granodiorite. Carries dis-	11799	316	319							
			DIORITE	seminated pyrrhotite and coarse scheelite in small										
				veinlets.										
				Aphanitic chill margin of granodiorite. Carries dis-	11800	319	324							
				seminated pyrrhotite and coarse scheelite in a few										
				small veinlets.										
				Aphanitic chill margin from 324' - 327'. Remainder										
				of interval from 327' - 337' is medium-grained,										
				hornblende-biotite granodiorite.										

09220

Dip at Collar 90° | Notes: | Page 1 | D.D.H. 75-11

Bearing - | BQ Core

Mag. Decl'n 32° | Elevation at collar 4896' | 103,488 N 98,310 E

Baseline Underhill Grid

Acid Tests None Taken

DIAMOND DRILL HOLE
LOG AND SAMPLE RECORD
CANADA TUNGSTEN MINING CORPORATION LTD.

Property Bailey Group | Started June 17, 1975

Location Yukon | Finished June 18, 1975

Logged by D. C. Way | Footage Drilled 262'

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	4	4	CASING											
4	61	57	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Contains occasional thin stringers of calcite - broken ground from 4' - 25' - C.B.A. @ 41' = 35° - C.B.A. @ 57' = 20°										
61	160	99	MARBLE	White to grey, banded marble. Contains minor garnet-iferous stringers from 61' - 65'. - badly broken ground from 123' - 141' and from 160' - 172' - C.B.A. @ 81' = 45°										
160	171	11	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. - badly broken ground through interval										
171	219	48	MARBLE	White to grey banded marble. - garnet-diopside skarn (no scheelite) from 171'-172'										
219	243	24	SKARN	Garnet-diopside skarn. Interval contains about 5" of diopside-pyrrhotite skarn. Pyrrhotite occurs in small blebs (<¼") and is associated with calcite and pyrite and minor chalcopyrite in small blebs and crystals. Scheelite occurs in fine- to medium-grained crystals (the finer disseminations are associated with pyrrhotite).	22851	219	222		(see sample record sheet for calculations)					

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 2 D.D.H. 75-11

_____N_____E_____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

092120

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
				Garnet-diopside skarn (includes about 2" of pyrrhotite-diopside skarn at beginning of interval). Scheelite is present throughout interval in fine- to medium-grained crystals. Pyrrhotite and calcite occur in blebs and crystals <1/4".	22852	222	224								
				Diopside-pyrrhotite skarn. Most of the interval is massive pyrrhotite with diopside occurring interstitially. Minor chalcopyrite is present in fine disseminations. Epidote developed along small fracture. Scheelite occurs in fine-grained crystals.	22853	224	226								
				Diopside-pyrrhotite skarn. Diopside and pyrrhotite occur in approximately equal amounts. Minor pyrite, chalcopyrite, garnet and calcite are present. Scheelite is fine- to medium-grained.	22854	226	229								
				Garnet-diopside skarn. Beginning of interval includes 6" of pyrrhotite-diopside skarn. Calcite and epidote occur together in discrete blebs and calcite also appears as thin stringers or fracture fillings. Scheelite is finely disseminated where associated with pyrrhotite and appears elsewhere as crystals up to 4mm.	22855	229	232								
				Garnet-diopside skarn. Garnet and diopside present in approximately equal amounts. Scheelite occurs in large crystals up to 5mm.	22856	232	235								

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 3 D.D.H. 75-11

_____N_____E_____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

092120

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
				Garnet-diopside skarn. Contains a few bands of green, cherty skarn. Calcite and epidote appear together in discrete clusters. Minor scheelite occurs in fine- to medium-grained crystals.	22857	235	239								
				Garnet-diopside skarn. Calcite and epidote occur together in discrete clusters. Minor scheelite is present in fine-grained crystals.	22858	239	243								
243	262	19	GRANODIORITE	Chill margin of granodiorite composed in part of green, cherty skarn and lesser garnet-diopside skarn. Negligible scheelite present.	22859	243	246								
				Chill margin of granodiorite composed in part of green, cherty skarn. Interval contains blebs of pyrite and pyrrhotite. Minor scheelite is present in fine- to coarse-grained crystals usually associated with pyrrhotite.	22860	246	250								
				Medium-grained, hornblende-biotite granodiorite from 253' to 262'.											

Dip at Collar 31°
Bearing 188°
Mag. Decl'n 32°
Baseline Underhill Grid
Acid Tests None taken

Notes:
BQ core
Elevation at collar 4896'

DIAMOND DRILL HOLE
LOG AND SAMPLE RECORD
CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 D.D.H. 75-12
103.488 N 98,310 E
Property Bailey Group
Location Yukon
Logged by D.C. Way
Started June 18, 1975
Finished June 20, 1975
Footage Drilled 165'

092120

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	5	5	CASING											
5	38	33	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Contains occasional thin stringers of calcite up to 1/8" thick and bands of calcite-garnet-diopside up to 1/2". - C.B.A. @ 17' = 40° - C.B.A. @ 30' = 65°										
38	101.5	63.5	MARBLE	White to grey banded marble. Contains occasional small pods of garnet-diopside. - broken ground from 40' - 42.5' and from 68.5' - 70.5' - C.B.A. @ 72' = 80° - C.B.A. @ 97' = 65°										
101.5	125	23.5	SKARN	Pyrrhotite-diopside skarn. Pyrrhotite is present in small blebs and stringers and is massive only in the last 4" of the interval. Calcite appears in small stringers associated with minor chalcopyrite and epidote. Minor scheelite occurs as finely disseminated crystals through the interval.	22861	101.5	104		(see sample record sheet for calculations)					
				Pyrrhotite-diopside skarn. Pyrrhotite is massive from 106' - 106.5'. Minor chalcopyrite is associated with pyrrhotite. Calcite is present in small crystals and stringers. Finely disseminated scheelite occurs throughout the interval.	22862	104	107							

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 2 D.D.H. 75-12

_____N_____E_____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

092120

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
				Garnet-diopside skarn. Calcite and epidote occur together in thin stringers. Scheelite is present in fine- to medium-grained crystals.	22863	107	109								
				Pyrrhotite-diopside skarn. Pyrrhotite and diopside alternate in crude bands. Calcite, epidote and pyrite are associated in thin stringers. Scheelite occurs through the interval in finely disseminated crystals.	22864	109	112								
				Pyrrhotite-diopside skarn. Diopside is aphanitic to fine-grained. Minor chalcopyrite in small blebs is associated with pyrrhotite. Calcite appears in thin stringers. Scheelite occurs in fine- to medium-grained crystals.	22865	112	115								
				Pyrrhotite-diopside skarn. Diopside is aphanitic to fine-grained. Chalcopyrite occurs in small blebs associated with pyrrhotite. Calcite appears in thin stringers. Scheelite is present in fine- to medium-grained crystals.	22866	115	118								
				Pyrrhotite-diopside skarn. Pyrrhotite present in occasional isolated blebs from 120' - 121'. Scheelite is fine- to medium-grained.	22867	118	121								
				Cherty garnet-diopside skarn. Negligible sulphides and no apparent scheelite in interval.	22868	121	125								

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 3 D.D.H. 75-12

_____ N _____ E _____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
125	165	40	GRANO-	Medium-grained, hornblende-biotite granodiorite.										
			DIORITE	Chill margin from 125' - 128'. Chill zone from										
				151.5' - 154.5'.										
				- broken ground from 160' - 162.5'										

092120

Dip at Collar 30°
Bearing 150°
Mag. Decl'n 32°
Baseline Underhill Grid
Acid Tests None Taken

Notes:
BQ core
Elevation at collar 4896'

DIAMOND DRILL HOLE
LOG AND SAMPLE RECORD
CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 D.D.H. 75-13
103,488 N 98,310 E
Property Bailey Group Started June 20, 1975
Location Yukon Finished June 22, 1975
Logged by D.C. Way Footage Drilled 295'

092120

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	6	6	CASING											
6	29	23	BANDED QUARTZITE	Interbanded dark biotitic quartzite and grey-green chert. Contains thin calcite stringers up to 1/8" thick.										
29	138.5	109.5	MARBLE	White to grey banded marble. Contains small pods and lenses of garnet-diopside. Garnet-diopside skarn containing minor scheelite and molybdenite occurs between 133' and 136'. - C.B.A. @ 120' = 80°										
138.5	188	49.5	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Cherty skarn horizon with sparse scheelite mineralization from 172.5' - 178.5'. - C.B.A. @ 148' = 20°										
188	209	21	SKARN	Diopside skarn. Calcite and lesser garnet appear in thin stringers and small clusters. Pyrrhotite occurs in occasional small blebs. Interval is sparsely mineralized with fine- to medium-grained scheelite crystals.	22869	188.5	191.5		(see sample record sheet for calculations)					
				Garnet-diopside skarn. Pyrrhotite is present in discrete blebs and thin stringers. Scheelite is fine- to medium-grained.	22870	191.5	194.5						

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 2 D.D.H. 75-13

_____ N _____ E _____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
				Diopside skarn. Minor garnet, calcite and pyrrhotite are associated in thin stringers. Interval is sparsely mineralized with finely disseminated scheelite.	22871	194.5	197.5								
				Diopside skarn. Pyrrhotite is present in thin stringers and occasional discrete blebs. Calcite occurs in thin stringers <1/8" thick. Minor chalcopyrite is associated with pyrrhotite. Scheelite is coarse-grained and appears in crystals and stringers up to 1/2" thick. Minor molybdenite is associated with scheelite.	22872	197.5	200.5								
				Diopside skarn. Calcite occurs in thin stringers and small crystals. Pyrrhotite appears in one band about 4" thick mixed with an equal portion of diopside. Minor chalcopyrite and molybdenite are associated with pyrrhotite. Scheelite is present in fine- to medium-grained crystals.	22873	200.5	203.5								
				Diopside skarn. Contains minor disseminated pyrrhotite and calcite in thin stringers. First 6" of interval is banded quartzite. Scheelite mineralization is negligible.	22874	203.5	206.5								
				Pyrrhotite-diopside skarn. Pyrrhotite and diopside occur in about equal proportions. Calcite appears in thin stringers. Scheelite crystals are fine- to medium-grained.	22875	206.5	209								

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 3 D.D.H. 75-13

_____N_____E_____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

092120

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
209	250	41	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Contains green, cherty horizon with disseminated pyrite from 235' - 250'. - broken ground from 228' - 230' - C.B.A. @ 219' = 50°										
250	270	20	DARK QUARTZITE	Dark, biotitic quartzite intermixed with aphanitic granitic material from chill margin. Biotite imparts crude foliation to rock. Disseminated pyrrhotite occurs through interval.										
270	295	20	GRANO-DIORITE	Medium-grained hornblende-biotite granodiorite. Rock is strongly fractured through the interval.										

Dip at Collar 69°
Bearing 270°
Mag. Decl'n 32°
Baseline Underhill Grid
Acid Tests None taken

Notes:
BQ core
Elevation at collar 4896'

DIAMOND DRILL HOLE

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 D.D.H. 75-14
103,488 N 98,310 E
Property Bailey Group Started June 22, 1975
Location Yukon Finished June 23, 1975
Logged by D.C. Way Footage Drilled 201

092120

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	2	2	CASING											
2	69.5	67.5	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Banding is cut by occasional calcite stringers up to 1/4" thick. Occasional pyrrhotite-diopside and garnet-diopside pods and lenses up to 1/2" thick occur. - broken ground from 2' - 17' and from 29' - 43' - C.B.A. @ 38' = 10° - C.B.A. @ 65' = 35°										
69.5	144.5	75	MARBLE	White to grey banded marble. Contains occasional small pods and stringers of garnet-diopside. Garnet-diopside skarn with minor fine-grained scheelite occurs from 102.5' - 105'. - C.B.A. @ 73' = 35° - C.B.A. @ 112' = 60°										
144.5	188	43.5	SKARN	Garnet-diopside skarn. Calcite appears in thin stringers and small crystals. Scheelite occurs as fine-grained disseminations.	22826	144.5	148.5		(see sample record sheet for calculations)					
				Garnet-diopside skarn. Calcite occurs in thin stringers and small crystals and pyrrhotite appears in occasional small blebs. Scheelite crystals are fine- to coarse-grained.	22827	148.5	152							
				Garnet-diopside skarn. Calcite appears in small crystals and pyrrhotite occurs as occasional small blebs. Scheelite is present in fine- to medium-grained crystals.	22828	152	154							

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 2 DDH 75-14

_____ N _____ E _____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
				Diopside-pyrrhotite skarn. Diopside and pyrrhotite show crude banding. Minor disseminated chalcopyrite is associated with pyrrhotite. Scheelite occurs in fine- to medium-grained crystals.	22829	154	156.5								
				Garnet-diopside skarn. Calcite appears in thin stringers and small crystals. Minor pyrrhotite occurs in small blebs. Scheelite mineralization is fine- to coarse-grained.	22830	156.5	159.5								
				Garnet-diopside skarn. Calcite appears in thin stringers and small crystals. Pyrrhotite is present in small blebs, except for one band about 6" thick where it is fairly massive. Scheelite is disseminated through the interval in fine- to medium-grained crystals.	22831	159.5	163.5								
				Garnet-diopside skarn. Calcite occurs in small crystals and thin stringers and minor pyrrhotite is present in small blebs. Scheelite mineralization is fine- to medium-grained.	22832	163.5	167.5								
				Garnet-diopside skarn. Minor pyrrhotite occurs in small blebs and calcite appears in small crystals and thin stringers. Scheelite crystals occur as fine-grained disseminations throughout the interval.	22833	167.5	171.5								
				Garnet-diopside skarn. Pyrrhotite is present in small blebs and stringers associated with calcite. Scheelite occurs in fine-grained crystals.	22834	171.5	175.5								

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 3 D.D.H. 75-14

_____ N _____ E _____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

092120

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
				Garnet-diopside skarn. Pyrrhotite occurs in small blebs and stringers associated with calcite. Scheelite is finely disseminated through the interval.	22835	175.5	178.5							
				Diopside-pyrrhotite skarn. Diopside and pyrrhotite are intermixed and cut by small stringers of pyrite. Scheelite is present in fine-grained crystals.	22836	178.5	179.5							
				Garnet-diopside skarn. Calcite occurs in small crystals and stringers and pyrrhotite appears in small blebs. Scheelite mineralization is fine- to medium-grained.	22837	179.5	183.5							
				Diopside skarn. Pyrrhotite appears in small blebs and calcite is present in small crystals and thin stringers. Scheelite occurs in fine- to coarse-grained crystals.	22838	183.5	188							
188	201	13	GRANO-DIORITE	Chill margin of granodiorite with intermixed diopside skarn. Interval contains negligible scheelite.	22839	188	191							
				Chill margin of granodiorite from 191' - 194'. Medium-grained hornblende-biotite granodiorite from 194' - 201'.										

Dip at Collar -84-

Bearing 354°

Mag. Decl'n 32°

Baseline Underhill Grid

Acid Tests None taken

Notes:
BQ core
Elevation at collar 4896'

DIAMOND DRILL HOLE

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 DDH 75-15

103,488 N 98,310 E

Property Bailey Group

Location Yukon

Logged by D.C. Way

Started June 23, 1975

Finished June 25, 1975

Footage Drilled 275'

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	6	6	CASING											
6	93	87	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Contains occasional thin cross-cutting stringers of calcite and pods of calcite-garnet-diopside up to 1/2" thick. - broken ground from 6' - 40' - C.B.A. @ 39' = 5° - C.B.A. @ 74' = 25° - C.B.A. @ 85' = 40°										
93	187.5	94.5	MARBLE	White to grey banded marble, occasionally garnetiferous. Garnet-diopside skarn occurs from 173.5' - 174.5' and from 186.5' - 187.5'. - C.B.A. @ 99' = 40° - C.B.A. @ 138' = 35° - C.B.A. @ 168' = 60°										
187.5	193	5.5	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert.										
193	252.5	59.5	MARBLE	White to grey banded marble. Contains banded quartzite horizon from 233' - 235'.										
252.5	260.5	8	SKARN	Diopside skarn. Contains minor garnet and calcite in small crystals. Scheelite occurs in fine- to medium-grained crystals.	22840	252.5	254		(see sample record sheet for calculations)					

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

 D.D.H. [illegible]

_____N_____E_____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
				Pyrrhotite skarn. Massive pyrrhotite intermixed with aphanitic silicates. Minor pyrite occurs in small blebs and thin stringers. Minor disseminated chalcopyrite also occurs through the interval. Scheelite is present in fine- to medium-grained disseminations.	22841	254	256								
				Pyrrhotite skarn. Massive pyrrhotite intermixed with aphanitic silicates. Minor pyrite and chalcopyrite occur in fine-grained disseminations. Scheelite crystals are fine- to medium-grained.	22842	256	258								
				Pyrrhotite skarn. Massive pyrrhotite intermixed with aphanitic silicates. Minor pyrite and chalcopyrite appear as fine-grained disseminations. Scheelite is present in fine- to medium-grained crystals, but is sparse in the last 2' of the interval.	22843	258	260.5								
260.5	275	14.5	GRANO-DIORITE	Mixed chill margin and medium-grained hornblende-biotite granodiorite. Chill margin from 262.5' - 264'. Remainder of interval is medium-grained hornblende-biotite granodiorite.	22844	260.5	262.5							

Dip at Collar ____

Bearing 86°

Mag. Decl'n 32°

Baseline Underhill Grid

Acid Tests None taken

Notes:
BQ core

Elevation at collar 4896'

DIAMOND DRILL HOLE

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 DDH 75-16

103,488 N 98,310 E

Property Bailey Group

Location Yukon

Logged by D. C. Way

Started June 25, 1975

Finished June 26, 1975

Footage Drilled 225'

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	6	6	CASING											
6	30.5	24.5	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Contains occasional thin stringers of calcite and small lenses and pods of calcite-garnet-diopside. - broken ground from 6' - 30.5' - C.B.A. @ 30' = 25°										
30.5	151.5	121	MARBLE	White to grey banded marble. Contains occasional lenses of garnet-diopside up to a few inches thick. - broken ground from 30.5' - 57' and from 83' - 94' - C.B.A. @ 52' = 45° - C.B.A. @ 93' = 50° - C.B.A. @ 141' = 40°										
151.5	162.5	11	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Contains some small pods of mixed pyrite and pyrrhotite.										
162.5	189	26.5	MARBLE	Mainly white, medium-grained marble showing little banding.										
189	192.5	3.5	SKARN	Garnet-diopside skarn with minor fine- to medium-grained scheelite.										
192.5	193.5	1	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert.										

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

_____N_____E_____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
193.5	195.5	2	SKARN	Garnet-diopside skarn with negligible scheelite.										
195.5	198	2.5	MARBLE	White to grey banded marble.										
198	202	4	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert.										
202	204.5	2.5	SKARN	Garnet-diopside skarn with negligible scheelite.										
204.5	206	1.5	MARBLE	Garnetiferous marble.										
206	209	3	SKARN	Garnet-diopside skarn with negligible scheelite.										
209	225	16	GRANO-DIORITE	Medium-grained hornblende-biotite granodiorite.										

Dip at Collar [illegible]
Bearing 305°
Mag. Decl'n 32°
Baseline Underhill Grid
Acid Tests None taken

Notes:
BQ core
Elevation at collar 5552'

DIAMOND DRILL HOLE
LOG AND SAMPLE RECORD
CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 DDH 75-17 75-12
102,534 N 97,870 E
Property Bailey Group
Location Yukon
Logged by D.C. Way
Started July 7, 1975
Finished July 13, 1975
Footage Drilled 191'

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	12	12	CASING											
12	113	101	DARK QUARTZITE	Dark, fine-grained, biotitic quartzite. Occasional thin quartz stringers follow the foliation imparted by biotite. Leucocratic intervals up to a few feet thick occur where biotite is less prevalent. Rock contains occasional small pods of diopside skarn and green cherty skarn. A dense, dark grey argillite banded with concordant, thin quartz stringers occurs in the interval from 83' - 103'. - broken ground from 12' - 113' - C.B.A. @ 92' = 50° - C.B.A. @ 104' = 60°										
113	137	24	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Carries occasional small pods of calcite-garnet-diopside. - broken ground from 113' - 125' - C.B.A. @ 119' = 70° - C.B.A. @ 131' = 65°										
137	177	40	MARBLE	White to grey banded marble. Garnet-diopside marble from 140' - 141.5' and from 174' - 175'. - broken ground from 146' - 153'										
177	179.5	2.5	SKARN	Diopside skarn. Calcite occurs in thin stringers and small crystals. No scheelite present.										

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 2 DDH 75-17

_____N_____E_____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

092120

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
179.5	191	11.5	GRANO-	Medium-grained hornblende-biotite granodiorite.										
			DIORITE											

Dip at Collar ____

Bearing 305°

Mag. Decl'n 32°

Baseline Underhill Grid

Acid Tests None taken

Notes: BQ core

Elevation at collar 5552'

DIAMOND DRILL HOLE

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page - i

D.D.H. 75-78

102,534 N 97,870 E

Property Bailey Group

Location Yukon

Logged by D. C. Way

Started July 13, 1975

Finished July 14, 1975

Footage Drilled 186'

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	12	12	CASING											
12	98	86	DARK QUARTZITE	Dark, fine-grained, biotitic quartzite. Occasional thin quartz stringers follow foliation imparted by biotite. Rock is leucocratic over intervals up to a few feet where biotite is less prevalent. A dense, dark grey, argillite banded with concordant thin quartz stringers occurs from 88' - 99'. - broken ground from 12' - 98' - C.B.A. @ 93' = 75°										
98	137	39	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Contains occasional pods and stringers of calcite-garnet-diopside up to a few inches thick. - C.B.A. @ 118' = 55° - C.B.A. @ 132' = 80°										
137	173	36	MARBLE	White to grey banded marble with occasional stringers of garnet-diopside skarn up to a few inches thick.										
173	173.5	.5	SKARN	Diopside skarn. Contains negligible scheelite.										
173.5	186	12.5	GRANO-DIORITE	Medium-grained hornblende-biotite granodiorite.										

9210

Dip at Collar --

Bearing -

Mag. Decl'n 32°

Baseline Underhill Grid

Acid Tests None taken

Notes:
BQ core
Elevation at collar 5552'

DIAMOND DRILL HOLE

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

 DDH 75-19

102,534 N 97,870 E

Property Bailey Group

Location Yukon

Logged by D. C. Way

Started July 14, 1975

Finished July 17, 1975

Footage Drilled 217'

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	10	10	CASING											
10	120	110	DARK QUARTZITE	Dark fine-grained, sugary-textured, biotitic quartzite. Carries disseminated pyrrhotite in small blebs. Rock is banded in places with quartz stringers up to 1" thick which follow the foliation. Leucocratic intervals up to a few feet thick occur composed mainly of white quartz. A dense, dark grey argillite with concordant thin quartz stringers appears in the interval from 103' - 120'. - broken ground from 10' - 120' - C.B.A. @ 18' = 45° - C.B.A. @ 42' = 40°										
120	168	48	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Contains occasional thin stringers of calcite. - broken ground from 120' - 168' - C.B.A. @ 151' = 75°										
168	201	33	MARBLE	White to grey banded marble. - broken ground from 181' - 201'										
201	201.5	.5	SKARN	Garnet-diopside skarn with minor scheelite.										
201.5	205	3.5	PURPLE QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. - broken ground from 201.5' - 205'										

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 2 2 D.D.H. 75-19

_____ N _____ E _____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

092120

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
205	217	12	GRANO-	Medium-grained hornblende-biotite granodiorite.										
			DIORITE	Aphanitic in part due to chill margin.										

Dip at Collar ____ Notes:
Bearing 338° BQ core
Mag. Decl'n 32° Elevation at collar 5552'
Baseline Underhill Grid
Acid Tests None taken

DIAMOND DRILL HOLE

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

 DDH 75-20
102,534 N 97,870 E
Property Bailey Group Started July 17, 1975
Location Yukon Finished July 19, 1975
Logged by D.C. Way Footage Drilled 200'

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	10	10	CASING											
10	126	116	DARK QUARTZITE	Dark, fine-grained, sugary-textured biotitic quartzite. Foliation is imparted by oriented biotite crystals. Leucocratic intervals composed mainly of white quartz and up to a few feet thick are present. Thin quartz stringers are developed parallel to the foliation. A dense, dark grey argillite with concordant thin quartz stringers appears in the interval from 105' - 126'. - broken ground from 10' - 126' - C.B.A. @ 25' = 40° - C.B.A. @ 79' = 60°										
126	154	28	BANDED QUARTZITE	Interbanded dark biotitic quartzite and grey-green chert. - broken ground from 126' - 154' - C.B.A. @ 128' = 65°										
154	185.5	31.5	MARBLE	White to grey banded marble. Contains occasional garnet-diopside stringers up to 1" thick. - broken ground 184' - 185.5'										
185.5	186	.5	SKARN	Fine-grained diopside skarn. Carries no scheelite.										
186	200	14	GRANO-DIORITE	Medium-grained, hornblende-biotite granodiorite. - broken ground from 186' - 190'										

53129

Dip at Collar -45-

Bearing 338°

Mag. Decl'n 32°

Baseline Underhill Grid

Acid Tests None taken

Notes:
BQ core
Elevation at collar 5552'

DIAMOND DRILL HOLE

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 Date 75-21

102,534 N 97,870 E

Property Bailey Group Started July 19, 1975

Location Yukon Finished July 21, 1975

Logged by D. C. Way Footage Drilled 251'

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	10	10	CASING											
10	130	120	DARK QUARTZITE	Dark, fine-grained, sugary-textured, biotitic quartzite. Contains thin quartz stringers parallel to foliation imparted by biotite. Leucocratic intervals composed mainly of white quartz up to a few feet thick occur. A dense, dark grey argillite with concordant thin quartz stringers appears in the interval from 102' - 127'. - broken ground from 47' - 90' and from 103' - 126' - C.B.A. @ 43' = 50° - C.B.A. @ 94' = 60°										
130	157.5	27.5	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Contains occasional stringers and small pods of calcite and calcite-garnet-diopside. - C.B.A. @ 134' = 50° - C.B.A. @ 144' = 45° - C.B.A. @ 152' = 45°										
157.5	235.5	78	MARBLE	White to grey banded marble. Contains occasional stringers of diopside and garnet-diopside up to a few inches thick. Lens of mixed banded quartzite and garnet-diopside skarn occurs from 161' - 163'.										
235.5	238.5	3	SKARN	Garnet-diopside skarn. Contains minor fine- to medium-grained scheelite.	22817	235.5	237		(see sample record sheet for calculations)					

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 2 D.D.H. 75-21

_____ N _____ E _____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

092120

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
				Fine- to medium-grained diopside skarn. Cut by small quartz veinlet at 238'. Contains minor fine- to medium-grained scheelite.	22818	237	238.5							
238.5	251	12.5	GRANO-DIORITE	Medium-grained hornblende-biotite granodiorite.										

Dip at Collar ____ Notes:

Bearing 12° BQ core

Mag. Decl'n 32° Elevation at collar 5552'

Baseline Underhill Grid

Acid Tests None taken

DIAMOND DRILL HOLE

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

 DDH 75-22

102,534 N 97,870 E

Property Bailey Group

Location Yukon

Logged by D. C. Way

Started July 21, 1975

Finished July 25, 1975

Footage Drilled 241'

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	10	10	CASING											
10	155	145	DARK QUARTZITE	Dark, fine-grained, sugary-textured, biotitic quartzite. Banded with thin quartz stringers parallel to foliation imparted by biotite. Leucocratic intervals up to a few feet thick composed of white quartz. Dense, dark grey argillite with concordant thin quartz stringers occurs between 111' and 155'. - broken ground from 10' - 155' - C.B.A. @ 25' = 35° - C.B.A. @ 116' = 55° - C.B.A. @ 139' = 50° - core washed away from 122' to 126'										
155	190	35	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Contains occasional pods and stringers of calcite and garnet-diopside. - broken ground from 155' - 190'										
190	230.5	40.5	MARBLE	White to grey banded marble. Contains occasional stringers of garnet-diopside up to 1" thick.										
230.5	230.8	.3	SKARN	Green, cherty diopside skarn. Contains no scheelite.										
230.8	241	10.2	GRANO-DIORITE	Medium-grained, hornblende-biotite granodiorite.										

09216

Dip at Collar --

Bearing 10°

Mag. Decl'n 32°

Baseline Underhill Grid

Acid Tests None taken

Notes:
BQ core
Elevation at collar 5552'

DIAMOND DRILL HOLE

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 D.D.H. 37 -- 75 -23

102,534 N 97,870 E

Property Bailey Group

Location Yukon

Logged by D.C. Way

Started July 25, 1975

Finished July 28, 1975

Footage Drilled 345'

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	10	10	CASING											
10	175	165	DARK QUARTZITE	Dark, fine-grained sugary-textured biotitic quartzite. Banded with thin quartz stringers parallel to foliation imparted by biotite. Leucocratic intervals up to a few feet ghick composed of white quartz. Biotitic intervals contain finely disseminated pyrrhotite. Dense, dark grey argillite with thin quartz stringers parallel to cleavage occurs between 138' and 170'. - broken ground from 10' - 173' - C.B.A. @ 38' = 40° - C.B.A. @ 120' = 50°										
175	257.5	82.5	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Contains occasional pods and lenses of garnet-diopside with minor pyrrhotite up to a few inches thick. - C.B.A. @ 195' = 45° - C.B.A. @ 234' = 20°										
257.5	267.5	10	SKARN	Garnet diopside skarn. Contains occasional stringers and small crystals of calcite sometimes associated with epidote. The skarn is cherty in part and contains no scheelite.										
267.5	332	64.5	MARBLE	White to grey banded marble. Contains occasional small pods of garnet.										

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 2 D.D.H. 75-23

_____N_____E_____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

092120

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
332	334.5	2.5	SKARN	Diopside skarn. Contains minor disseminated pyrrhotite but no scheelite.										
334.5	345	10.5	GRANO-DIORITE	Medium-grained, hornblende-biotite granodiorite.										

Dip at Collar 30°
Bearing
Mag. Decl'n 32°
Baseline Underhill Grid
Acid Tests None taken

Notes:
NQ core
Elevation at collar 5552'

DIAMOND DRILL HOLE
LOG AND SAMPLE RECORD
CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 DDH 75-24
102,534 N 97,870 E
Property Bailey Group
Location Yukon
Logged by D.C. Way
Started July 28, 1975
Finished Aug. 4, 1975
Footage Drilled 469'

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	10	10	CASING											
10	255	245	DARK QUARTZITE	Dark, fine-grained, sugary-textured, biotitic quartzite. Banded with thin quartz stringers parallel to foliation imparted by biotite. Leucocratic intervals up to a few feet thick composed of white quartz. Dark, biotitic intervals contain minor disseminated pyrrhotite. Dense, dark grey argillite with thin quartz stringers parallel to cleavage occurs from 150' - 167'. - broken ground from 10' - 255' - C.B.A. @ 30' = 20° - C.B.A. @ 105' = 40° - C.B.A. @ 136' = 45° - C.B.A. @ 189' = 40°										
255	295	40	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Contains thin calcite stringers and small pods of garnet. - broken ground from 255' - 295' - core washed away from 285' - 295'										
295	366	71	MARBLE	White to grey banded marble. Occasional thin stringers of garnet-diopside. - broken ground from 295' - 330'										
366	428	62	PURPLE QUARTZITE	Dark, fine-grained, sugary-textured, biotitic quartzite with minor disseminated pyrrhotite. Thin quartz stringers occur both concordant and discordant with										

82 120

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

 D.D.H. 75-24

_____N_____E

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
				the foliation. Granodiorite dyke from 370' - 372'.										
				- broken ground from 372' - 405'										
				- C.B.A. @ 369' = 50°										
				- C.B.A. @ 410' = 20°										
428	444	16	SKARN	Green, cherty diopside skarn. Contains minor dis-										
				seminated pyrrhotite and calcite and garnet in small										
				crystals and thin stringers. No scheelite present.										
444	469	25	GRANO-	Medium-grained, hornblende-biotite granodiorite.										
			DIORITE											

Dip at Collar _____
Bearing 30°
Mag. Decl'n 32°
Baseline Underhill Grid
Acid Tests None taken

Notes:
NQ core
Elevation at collar 5552'

DIAMOND DRILL HOLE
LOG AND SAMPLE RECORD
CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 DDH 75-25
102,534 N 97,870 E
Property Bailey Group Started Aug. 4, 1975
Location Yukon Finished Aug. 10, 1975
Logged by D.C. Way, T.L. Muir Footage Drilled 600

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	14	14	CASING											
14	292	278	DARK QUARTZITE	Dark, fine-grained, sugary-textured, biotitic quartzite. Contains thin quartz stringers which parallel the foliation imparted by biotite. Leucocratic intervals up to a few feet thick are composed of white quartz. Biotitic intervals carry finely-disseminated pyrrhotite. Occasional grey-green cherty bands occur. Dense, dark grey argillite with thin quartz stringers parallel to the cleavage appears from 277' - 290'. - broken ground from 114' - 126' and from 230' - 292' - C.B.A. @ 32' = 20° - C.B.A. @ 72' = 30° - C.B.A. @ 132' = 20°										
292	341	49	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Occasional small pods and thin stringers of calcite-garnet-diopside. - C.B.A. @ 297' = 25° - C.B.A. @ 313' = 20°										
341	382.5	41.5	SKARN	Epidote-diopside skarn from 341' - 359'. Carries minor calcite, garnet and disseminated pyrite. Skarn is fine-grained and contains negligible scheelite. White to grey banded marble occurs from 347' - 350'.										

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 2 DDH 75-25

_____N_____E_____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

092120

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
				Pyrrhotite skarn. Massive pyrrhotite with interstitial aphanitic silicates. Carries minor chalcopyrite and minor, fine-grained disseminated scheelite.	22819	359	360.5		(see sample record sheets for calculations)				
				Pyrrhotite skarn. Massive pyrrhotite with interstitial aphanitic silicates. Carries minor chalcopyrite and minor fine-grained disseminated scheelite.	22820	360.5	362.5						
				Diopside-pyrrhotite skarn. Carries minor chalcopyrite and scheelite.	22821	362.5	364							
				Pyrrhotite skarn. Carries fine-grained disseminated scheelite and trace of chalcopyrite.	22822	364	366.5							
				Pyrrhotite skarn. Massive pyrrhotite with interstitial aphanitic silicates. Carries fine- to medium-grained scheelite and minor chalcopyrite.	22823	366.5	370.5							
				Pyrrhotite skarn. Massive pyrrhotite with interstitial aphanitic silicates. Carries fine- to medium-grained scheelite and minor chalcopyrite.	22824	370.5	373.5							
				Pyrrhotite skarn with aphanitic silicates and diopside-pyrrhotite skarn. Carries fine- to medium-grained scheelite and minor chalcopyrite.	22825	373.5	376.5							

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 3 D.D.H. 75-25

_____ N _____ E _____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
				Diopside-pyrrhotite skarn. Fine- to medium-grained.	34126	376.5	380							
				Carries minor disseminated fine-grained scheelite and trace of chalcopyrite.										
				Garnet-pyrrhotite-diopside skarn. Carries minor disseminated fine-grained scheelite and trace of chalcopyrite.	34127	380	382.5							
382.5	538	155.5	PURPLE QUARTZITE	Dark, fine-grained, sugary-textured, biotitic quartzite with minor disseminated pyrrhotite. Thin quartz stringers occur both concordant and discordant with the foliation. Granodiorite dykes from 412' - 415', 437.5' - 459', 469' - 471', 474' - 476', 486' - 490', 493' - 497'.										
538	600	62	GRANO-DIORITE	Medium-grained, hornblende-biotite granodiorite. Alternate aphanitic and holocrystalline intervals.										

99220

Dip at Collar ____

Bearing 110°

Mag. Decl'n 32°

Baseline Underhill Grid

Acid Tests None taken

Notes:
NQ core
Elevation at collar 5552'

DIAMOND DRILL HOLE

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 DDH 75-26

102,534 N 97,870 E

Property Bailey Group

Location Yukon

Logged by D.C. Way

Started Aug. 10, 1975

Finished Aug. 17, 1975

Footage Drilled 560

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	12	12	CASING											
12	213	201	DARK QUARTZITE	Dark, fine-grained, sugary-textured, biotitic quartzite. Thin quartz stringers occur parallel to the foliation imparted by biotite. Leucocratic intervals up to a few feet thick are composed of white quartz. Dark biotitic intervals carry minor disseminated pyrrhotite. Dense, dark grey argillite with concordant thin quartz stringers appears in the interval 179' - 213'. A small greisen vein at 109' contains tourmaline and coarse-grained sericite. - broken ground from 140' - 145' - C.B.A. @ 21' = 15° - C.B.A. @ 47' = 45° - C.B.A. @ 87' = 30° - C.B.A. @ 155' = 40° - C.B.A. @ 206' = 35°										
213	348	135	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Contains occasional small pods and thin stringers of calcite-garnet-diopside. - broken ground from 215' - 221', 250' - 290', 308' - 338' - C.B.A. @ 229' = 30° - C.B.A. @ 273' = 30° - C.B.A. @ 330' = 25° - C.B.A. @ 338' = 30° - core washed away from 342' - 348'										

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 2 D.D.H. 7526

_____N_____E_____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
348	390.5	42.5	MARBLE	White to grey banded marble. Contains minor garnet in small pods and thin stringers. Lens of garnet-diopside skarn from 389.5' - 390.5'.										
390.5	425	34.5	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. - C.B.A. @ 399' = 40° - C.B.A. @ 415' = 20°										
425	432.5	7.5	SKARN	Cherty, garnet-diopside skarn. Contains minor calcite in small crystals and thin stringers. No scheelite present.										
432.5	495.5	63	MARBLE	White to grey banded marble. Carries occasional pods and stringers of garnet and garnet-diopside.										
495.5	503	7.5	SKARN	Cherty garnet-diopside skarn. Minor calcite occurs in small crystals. Carries finely-disseminated scheelite.	34128	495.5	598.5		(see sample record sheet for calculations)					
				Diopside-pyrrhotite skarn. Massive pyrrhotite with intermixed diopside and aphanitic silicates. Minor pyrite and chalcopyrite occur in small blebs. Carries finely-disseminated scheelite.	34129	498.5	501							
				Cherty, pyrrhotite diopside skarn. Carries minor fine- to medium-grained scheelite.	34130	501	503							

Dip at Collar _____ Notes:

Bearing _____

Mag. Decl'n _____

Baseline _____

Acid Tests _____

DIAMOND DRILL HOLE _____

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 3 D.D.H. 75-26

_____ N _____ E _____

Property _____ Started _____

Location _____ Finished _____

Logged by _____ Footage Drilled _____

092.13

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
503	560	57	PURPLE QUARTZITE	Dark, fine-grained, sugary-textured, biotitic quartzite with minor disseminated pyrrhotite. Occasional thin quartz veins cut foliation at a high angle. Carries occasional bands of calcite-garnet-diopside. - broken ground from 503' - 505' - C.B.A. @ 517' = 35° - C.B.A. @ 528' = 45° - C.B.A. @ 549' = 55°										

Dip at Collar ____

Bearing 73°

Mag. Decl'n 32°

Baseline Underhill Grid

Acid Tests None Taken

Notes:
NQ core
Elevation at collar 5552'

DIAMOND DRILL HOLE

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 D.D.H. 75-27

102,534 N 97,870 E

Property Bailey Group

Location Yukon

Logged by D.C. Way, T.L. Muir

Started Aug. 17, 1975

Finished Aug. 24, 1975

Footage Drilled 736'

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	12	12	CASING											
12	233	221	DARK QUARTZITE	Dark, fine-grained, sugary-textured, biotitic quartzite. Leucocratic intervals up to a few feet thick are composed of white quartz. Dark, biotitic intervals contain minor disseminated pyrrhotite. Thin quartz stringers occur parallel to the foliation imparted by the biotite. Dense, dark grey argillite with condordant thin quartz stringers occurs from 204' - 233'. - broken ground from 12' - 230' - C.B.A. @ 86' = 30° - C.B.A. @ 154' = 25° - C.B.A. @ 200' = 35° - C.B.A. @ 216' = 30°										
233	491	258	BANDED QUARTZITE	Interbanded dark, biotitic quartzite and grey-green chert. Contains minor calcite-diopside in small pods. Occasional thin stringers of chlorite and garnet occur. - broken ground from 476' - 491' - C.B.A. @ 268' = 20° - C.B.A. @ 306' = 15° - C.B.A. @ 405' = 15° - C.B.A. @ 459' = 15°										
491	595	104	MARBLE	White to grey banded marble. Occasionally garnetiferous in small pods and thin stringers. - broken ground from 491' - 500' - some core washed away at 500'										

82120

Dip at Collar _____ Notes:
Bearing _____
Mag. Decl'n _____
Baseline _____
Acid Tests _____

DIAMOND DRILL HOLE _____
LOG AND SAMPLE RECORD
CANADA TUNGSTEN MINING CORPORATION LTD.

Page 2 DDH 75-27
_____N_____E_____
Property _____ Started _____
Location _____ Finished _____
Logged by _____ Footage Drilled _____

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
595	610.5	15.5	SKARN	Diopside skarn. Contains abundant calcite in stringers	34131	595	596		(see sample record sheets for calculations)					
				and large crystals. Occasional blebs of pyrrhotite										
				and minor disseminated chalcopyrite. Carries fine-										
				grained disseminated scheelite.										
				Pyrrhotite skarn. Massive pyrrhotite with intermixed	34132	596	599							
				diopside and aphanitic silicates. Carries minor dis-										
				seminated chalcopyrite. Scheelite is fine-grained.										
				Pyrrhotite skarn. Massive pyrrhotite with intermixed	34133	599	603							
				diopside and aphanitic silicates. Carries fine-grained										
				scheelite and minor disseminated chalcopyrite.										
				Pyrrhotite skarn. Massive pyrrhotite with intermixed	34134	603	606.5							
				diopside and aphanitic silicates. Carries fine-grained										
				scheelite and minor disseminated chalcopyrite.										
				Diopside-pyrrhotite skarn. Contains pyrrhotite and	34135	606.5	610.5							
				diopside in about equal proportions. Carries fine-										
				grained scheelite and minor disseminated chalcopyrite.										
610.5	736	125.5	PURPLE	Dark, fine-grained, sugary-textured biotitic quartzite										
			QUARTZITE	with minor disseminated pyrrhotite. Small, white										
				quartz veins occur both concordant and discordant with										
				the foliation.										
				- C.B.A. @ 638' = 20°										
				- C.B.A. @ 698' = 40°										

Dip at collar [illegible]
Bearing 234°
Mag. Decl'n 32°
Baseline Underhill Grid
Acid Tests None taken

Notes:
NQ core
Elevation at collar 5190'

DIAMOND DRILL HOLE

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

 75-28

103,095 N 98,593 E

Property Bailey Group
Location Yukon
Logged by T.L. Muir, G. Abbott

Started Sept. 4, 1975
Finished Sept. 9, 1975
Footage Drilled 538

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	5	5	CASING											
5	445	440	DARK QUARTZITE	Dark, fine-grained, sugary-textured, biotitic quartzite. Lducocratic intervals up to a few feet thick composed of white quartz. Small quartz veins are generally parallel to foliation imparted by biotite. Purplish biotitic sections contain minor disseminated pyrrhotite. Contains occasional green cherty bands less than 1' thick. Coarse chlorite (?) porphyroblasts at 212'. Granodiorite dyke from 234' - 235'. - broken ground from 5' - 11' - C.B.A. @ 93' = 50° - C.B.A. @ 129' = 75° - C.B.A. @ 192' = 70° - C.B.A. @ 248' = 65°										
445	538	93	GRANO-DIORITE	Medium-grained, hornblende-biotite granodiorite.										

Dip at Collar -45°
Bearing 2°
Mag. Decl'n 32°
Baseline Underhill Grid
Acid Tests None taken

Notes:
NQ core
Elevation at collar 5190°

DIAMOND DRILL HOLE

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

 DDH 75-29
103,095 N 98,593 E
Property Bailey Group
Location Yukon
Logged by G. Abbott
Started Sept. 9, 1975
Finished Sept. 10, 1975
Footage Drilled 56

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	56	56	DARK	Dark, fine-grained, sugary-textured, biotitic quartzite.										
			QUARTZITE	Quartz veining prominant throughout in bands up to 1'.										
				Foliation imparted to rock by biotite.										
				Note: Hole stopped short to steepen dip angle. See										
				DDH 75-30.										

ip at Collar 76°
earing 2°
lag. Decl'n 32°
aseline Underhill Grid
cid Tests None taken

Notes:
NQ core
Elevation at collar 5190'

DIAMOND DRILL HOLE

LOG AND SAMPLE RECORD

CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 D.D.H. 75-30
103,095 N 98,593 E
Property Bailey Group Started Sept. 10, 1975
Location Yukon Finished Sept. 13, 1975
Logged by G. Abbott Footage Drilled 532

092120

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	514	514	DARK QUARTZITE	Dark, fine-grained, sugary-textured biotitic quartzite. Layering generally defined by thin foliation planes and locally by compositional layering approx. 1/2" thick. Leucocratic intervals up to a few feet thick composed of white quartz. Selvages of biotite border leucocratic bands. Purplish, biotitic intervals contain minor disseminated pyrrhotite. Occasional pale green and white cherty bands are interbanded with biotitic quartzite. C.B.A.s are generally at 35° - 45°. - broken ground from 239' - 240', 352' - 355', 415' - 416', 453' - 460'										
514	532	18	GRANO-DIORITE	Medium-grained, hornblende-biotite, biotite granodiorite.										

Dip at Collar 42°
Bearing 240°
Mag. Decl'n 32°
Baseline Underhill Grid
Acid Tests None taken

Notes:
NQ core
Elevation at collar 5190'

DIAMOND DRILL HOLE
LOG AND SAMPLE RECORD
CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 DDH 75-31
103,095 N 98,593 E
Property Bailey Group Started Sept. 13, 1975
Location Yukon Finished Sept. 16, 1975
Logged by G. Abbott Footage Drilled 438

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	420	420	DARK QUARTZITE	Dark, fine-grained, sugary-textured, biotitic quartzite. Leucocratic intervals up to a few feet thick are composed of white quartz. Purplish biotitic intervals contain minor disseminated pyrrhotite. Occasional pale green and white cherty bands are interbanded with biotitic quartzite. C.B.A.s are generally at 70° - 80°.										
420	438	18	GRANO-DIORITE	Medium-grained, hornblende-biotite granodiorite.										

DDH 75-31

Dip at Collar 45°
Bearing 200°
Mag. Decl'n 32°
Baseline Underhill Grid
Grid Tests None taken

Notes:
NQ core
Elevation at collar 5190'

DIAMOND DRILL HOLE
LOG AND SAMPLE RECORD
CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 D.D.H. 75-32
103,095 N 98,593 E
Property Bailey Group
Location Yukon
Logged by G. Abbott
Started Sept. 16, 1976
Finished Sept. 18, 1975
Footage Drilled 477

092126

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	456	456	DARK QUARTZITE	Dark, fine-grained, sugary-textured, biotitic quartzite. Leucocratic intervals up to a few feet thick are composed of white quartz. Purplish biotitic intervals contain minor disseminated pyrrhotite. Occasional compositional layering with thin, pale green and white cherty bands. C.B.A.s range from 35° - 45°. - broken ground from 440' - 442'										
456	457	1	GRANO-DIORITE	Granodiorite dyke.										
457	459	2	SKARN	Garnet-diopside-pyrrhotite skarn. Carries no scheelite.										
459	477	3	GRANO-DIORITE	Medium-grained, hornblende-biotite granodiorite.										

Dip at Collar 43° | Notes:
Bearing 280° | NQ core
Mag. Decl'n 32° | Elevation at collar 5190'
Baseline Underhill Grid
Acid Tests None taken

DIAMOND DRILL HOLE
LOG AND SAMPLE RECORD
CANADA TUNGSTEN MINING CORPORATION LTD.

Page 1 | D.D.H. 75-33
103.095 N 98.593 E
Property Bailey Group | Started Oct. 9, 1975.
Location Yukon | Finished Oct. 10, 1975.
Logged by G. Abbott | Footage Drilled 409

FOOTAGE FROM	FOOTAGE TO	LENGTH	FORMATION	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	LENGTH	ASSAY % WO_3	ASSAY % Cu	LENGTH x ASSAY % WO_3	LENGTH x ASSAY % Cu	AVERAGE ASSAY % WO_3	AVERAGE ASSAY % Cu
0	395	395	DARK	Dark, fine-grained, sugary-textured, biotictic quartzite.										
			QUARTZITE	Leucocratic intervals up to a few feet thick are composed of white quartz. Purplish biotituc intervals carry minor disseminated pyrrhotite. Occasional thin bands of green and white chert are interbanded with biotitic quartzite. Average C.B.A. is 60° - 70°.										
385	395	10	PEGMATITE	Leucocratic, white, massive pegmatite.										
395	409	14	GRANO-DIORITE	Medium-grained, hornblende-biotite granodiorite.										

092120

BAILEY 11 M.C.

BAILEY 12 A

379.435 EDM

blazes, 21' cutting

BA 11 2 / LEY 12 2 / 944 / 1019 / 1018

Fd. Added marks
Fd. "Underhill Surveys" tag #
Fd. L.P.'s No.1 Bailey 13 # 14
No.2 Bailey 11 & 12

457.20 EL

21'

5°

Md. B.T.'s
15 cm Fir 20° 8.30m
16 cm Pine 294° 6.45m

96° 56' 00"

300.36 EDM

5° 21' 15"
18.045
3° 47' 20" (c)
24.995 (c)

P. Rock Mkr.

Mkr

Mkr

95°

SEE DETAIL G

457.20 EDM

Md. B.T.'s
24cm Fir 32° 2.84m
18cm Fir 136° 3.51m

15"

55"

56'

457.20 EDM

LOT 1013
BAILEY 33 M.C.
14.5 ha.

415.665 EDM

457.245 EDM

13'

LOT 1010
QUAD
BAILEY 13 M.C.
21.5 ha.

3.0m Wide flagging 15"

creek

LOT 10
105 A/
BAILEY
20.3

317.0 EDM

457.20 EDM

Fd. evidence of old 13'

2°

"109 #947

Fd. Added Marks
Fd. "Underhill Surveys" tag #34
Fd. L.P.'s No.1 Bailey 33 # 35
No.2 Bailey 96°

LOT 1008
B3F M.C.
0.323 ha.

SEE DETAIL C

Mkr 55" (c)

SEE DETAIL D

13'

336.505 (c)

56'

457.20 EDM

43447 (c)

383.27 (c)

#227

Fd

2°

92°

Mark on rock boulder

Fd. L.P. No.2 Bailey 34

Md. B.T.'s
16cm Fir 78° 5.31m
30cm Fir 221° 5.37m
55"
13'

347.03 EDM

Fd 82°

55"

347.20 EDM

VT. 380.005
Mkr.

Added marks

15" (c)

100°

457.195 (c)

31'

10" (c) Fd

30" (c)

SM 30"

05" (c)

30"

LOT 1000
DYNAMIC 1 M.C.

LOT 1012
BAILEY 35
10.2 ha.

380.00

457.20

13'

LOT 1014
BAILEY 34 M.C.
15.9 ha.

Mkd "L1014, 1982"

412.20 EDM

457.20

13'

WOO

32'

414.69 (c)
457.185 (c)

408.875 (c)
457.20 (c)

52'

Plan C.L.S.R.

457.255 (c)

409.205 (c)

32'

LOT 1006

539.64 EDM

457.20

52'

M.C.

BAILEY 15

52'

352°

59.04 (c)

96°

SEE DETAIL B

55" (c)

56

204.50 (c)

111.825 (c)

225

113.26 (c)

085 (c)

457.20 (c)

402.885 (c)

Mkr 91° Mkr

100°

31'

40" (c)

15" (c)

1530 (c)

10° 116.415 (c)

Fd. Added marks

#217

0 Spike A

SEE DETA

LC

B2

13'

347.03 (c)

174.18 (c)

90° 00' 00" (c)

LOT 1019
B5F M.C.

82° 13' 55" (c) .976 m²

6.82 (c)

198.22 (c)

82°

352°

SEE DETAIL M

00' 00"

EDM

Fd. Added Marks
Fd. "Underhill Surveys" 34
Fd. L.P.'s No.1 Bailey 33 # 35
No.2 Bailey 96°

SEE DETAIL J

Fd.
IL1000, IL1001,
Q105 A15, 1982"
Fd. Mkr. Added marks
Fd. L.P.'S
No.1 Dynamic 1 # 2
No.1 Dynamic 3 # 4
No.2 B5F

457.215 (c)

#232

M.C. W7 91.44 N

LOT
B4
0.20
45

154.76

Fd. L.P. No.1 B5F

LOT 1017
105 A/
BAILEY 37 M.

11.4 ha.

SEE DETAIL K

LOT 1015
QUAD
BAILEY 36

20.6 ha.

#236

12° 39' 55"

61.005

Fd. L.P.'s

456.28 EDM

301.52 EDM

00'

6.055 EDM

35"

18 #235

107°

301.965 EDM

07'

LOT 1001
DYNAMIC 2 M.C.

408.715 (c)

31'

267.66 EDM

00'

457.14 (c)

60.965 EDM

Mkr

Mkr

396.235

457.20 EDM

97°

Mkr

10'

35.849 EDM

98° 21.32

121.75 EDM

0°

Fd. L.P.'s No.1 Bailey 37 # 39

124°

76.875

24'

268.075 EDM

05"

222.832

76.495 (c)

00"

Mkr

Mkr

233.46 EDM

40"

215.885 (c)

LOT
1004
4.16 ha.

161.61 (c)

Mkr

Fd. Adde
Fd. L.P.'S

36'

672.575 EDM

457.20

209.67 (c)

380.705

48.50 (c)

Fd. no evidence Mkr.

Lead plug in rock on ridge

Fd. no evidence Mkr.

457.20

00'

00"

00"

Fd.
4L100, Q105 A15, 1982"
Fd. Mkr.
Added marks

100°

172.215 (c)

457.205 (c)

284.99 (c)

31'

05" (c)

129°

not measured

Fd. 3L100, Q105 A15, 1982"
Fd. Mkr.
Added marks

Fd. L.P.'s No.1 Dynamic 1 # 2
No.1 Dynamic 3 # 4
No.2 B5F

LOT 1018
BAILEY 39 M.C.
14.8 ha.

333.915

256.09 (c)

457.235 EDM

LOT 1002

BAILEY 17 M.C.
14.9 ha.

Fd. fully evidence of old flagging & brush limbing

B

LOT 1016
BAILEY 38 M.C.
20.9 ha.

457.20 EDM

00'

753.855 EDM

10'

SEE DETAIL A

7°

Mkr

457.20 EDM

36'

34.145

97°

(Areas reserved under Sec. 13(2) of Yukon Quartz Mining Act.)

Mkr

Fd. "Una
Fd. L.P.'s

45'

128.25 EDM

14° 32' 45"

Mkr

304.83 EDM

00"

Mkr

PLAN 69653 M.L.
C.L.S.R. 092120

BAILEY 19 M

VOLUME #3

GEOLOGY MAPS, CROSS SECTIONS AND POLYGONAL SECTION TEMPLATE

To Accompany Geological Report on Morningstar Property (Oscar and Bailey Claims), Yukon Territory.

By: D.C. Way

092120

CONTENTS

VOLUME 3

Map No.	Title
1	Claim Locations and Index to Detail Geology Maps and Magnetometer Profiles. (scale: 1" = 1000')
2	Geology of Oscar and Bailey Claims. (scale: 1" = 1000')
3	D.D.H. Locations and Geology of the 'B' Showing. (scale: 1" = 40')
4	'A' Showing Geology. (scale: 1" = 100')
5	'C' Showing Geology. (scale: 1" = 50')
6	Geology of Watson Lake Area (G.S.C. Map No. 19-1966, N.T.S. 105-A). (scale: 1" = 4 mi.)
7	Topography of Watson Lake Area (N.T.S. 105-A). (scale: 1" = 4 mi.)

Cross-Sections (to accompany Map No. 3)

A-A'	Vertical Cross-Section through 'B' Showing (horizontal scale: 1" = 40', vertical scale: 1" = 40').
B-B'	"
C-C'	"
D-D'	"
E-E'	"
F-F'	"
G-G'	"

Miscellaneous

Polygonal Section Template (scale: 1" = 40') - to accompany Map. No. 3.

GEOLOGY MAP No.4
OF "A" SHOWING

MAGNETOMETER PROFILES
No. 1, 2

GEOLOGY OF "B" SHOWING
MAP No.3

MAGNETOMETER PROFILES
No. 3, 4

MAGNETOMETER
PROFILE No.5

GEOLOGY OF "C" SHOWING
MAP No. 5

OSCAR 4
OSCAR 3
OSCAR 2
OSCAR 1

290,000 N
285,000 N
280,000 N
275,000 N
270,000 N
265,000 N

LEGEND

58 NUMBER OF BAILEY CLAIM
CLAIM POST FOUND
CLAIM POST ASSUMED

NOTE : TOPOGRAPHY BY McELHANNEY SURVEYING & ENGINEERING LTD.

CANADA TUNGSTEN MINING CORPORATION LIMITED

MORNING STAR PROPERTY

WATSON LAKE AREA, YUKON TERRITORY 092120

CLAIM LOCATIONS AND INDEX TO DETAIL GEOLOGY MAPS AND MAGNETOMETER PROFILES

SCALE	LATITUDE	LONGITUDE
1" = 1000 FEET	60° 47' NORTH	128° 47' WEST
DRAWN	DATE	MAP NO.
PDT DRAFTING SERVICES, VANCOUVER, B.C.	JANUARY 1975	1

25

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LEGEND

CRETACEOUS

7 — MEDIUM-GRAINED, HYPIDIOMORPHIC-GRANULAR HORNBLENDE-BIOTITE GRANODIORITE.

6 — SCHEELITE BEARING, GARNET-DIOPSIDE SKARN CHANGING TO DIOPSIDE SKARN WITH MASSIVE PYRRHOTITE NEAR CONTACT WITH GRANODIORITE

DEVONIAN AND/OR MISSISSIPPIAN

5 — GREEN, GREY AND MAROON CALCAREOUS CHERTS, IN PLACES INTERCALATED WITH THIN LIMESTONE BEDS. (150'-200')

4 — DARK, FINE-GRAINED, BIOTITIC QUARTZITE WITH MINOR DISSEMINATED PYRRHOTITE. SIMILAR TO UNIT 1. BOTTOM 15'-25' OF THE UNIT IS COMPRISED OF GRAPHITIC ARGILLITE. (400'-600')

3 — INTERBANDED GREY-GREEN CHERT AND DARK BIOTITIC QUARTZITE (SIMILAR TO UNIT 1), OCCAISONAL CALCAREOUS PODS AND STRINGERS (SKARNIFIED NEAR INTRUSIVE CONTACTS. (10'-50')

2 — WHITE TO GREY BANDED CALCITE MARBLE, GENERALLY FINE TO MEDIUM-GRAINED, LOCALLY GARNETIFEROUS AND DIOPSIDIC ESPECIALY NEAR INTRUSIVE CONTACTS. (15'-50')

1 — DARK, FINE GRAINED, SUGARY TEXTURED, BIOTITIC QUARTZITE. RUSTY WEATHERING DUE TO DISSEMINATED PYRRHOTITE. SCHISTOSE OR SLATY CLEAVAGE IMPARTED BY PREFERRED ORIENTATION OF BIOTITE. QUARTZITE CONTAINS 10'-15' THICK RHYOLITE UNIT DENOTED BY: (400'-?)

SYMBOLS

- LIMIT OF OUTCROP
- STRIKE AND DIP OF BEDDING
- GEOLOGICAL BOUNDARY (DASHED WHERE INFERRED)
- FAULT (DASHED WHERE INFERRED)
- MINOR OVERTURNED ANTIFORM SHOWING PLUNGE AND DIP OF AXIAL PLANE
- MAJOR OVERTURNED SYNCLINE SHOWING DIRECTION OF PLUNGE AND APPROXIMATE LOCATION OF TRACE OF AXIAL PLANE
- MAJOR UPRIGHT ANTIFORM SHOWING DIRECTION OF PLUNGE AND APPROXIMATE LOCATION OF TRACE OF AXIAL PLANE

"A" SHOWING

"B" SHOWING

"C" SHOWING

INFERRED GRANODIORITE - METASEDIMENT CONTACT

(REPEATED)

CAMP

TRENCH

BAILEY CLAIMS GROUP BOUNDARY (APPROXIMATE)

W/L 4730

W/L 4858

290,000 N

285,000 N

280,000 N

275,000 N

270,000 N

265,000 N

NOTE TOPOGRAPHY BY McELHANNEY SURVEYING & ENGINEERING LTD.

CANADA TUNGSTEN MINING CORPORATION LIMITED

BAILEY CLAIMS GROUP

WATSON LAKE AREA, YUKON TERRITORY

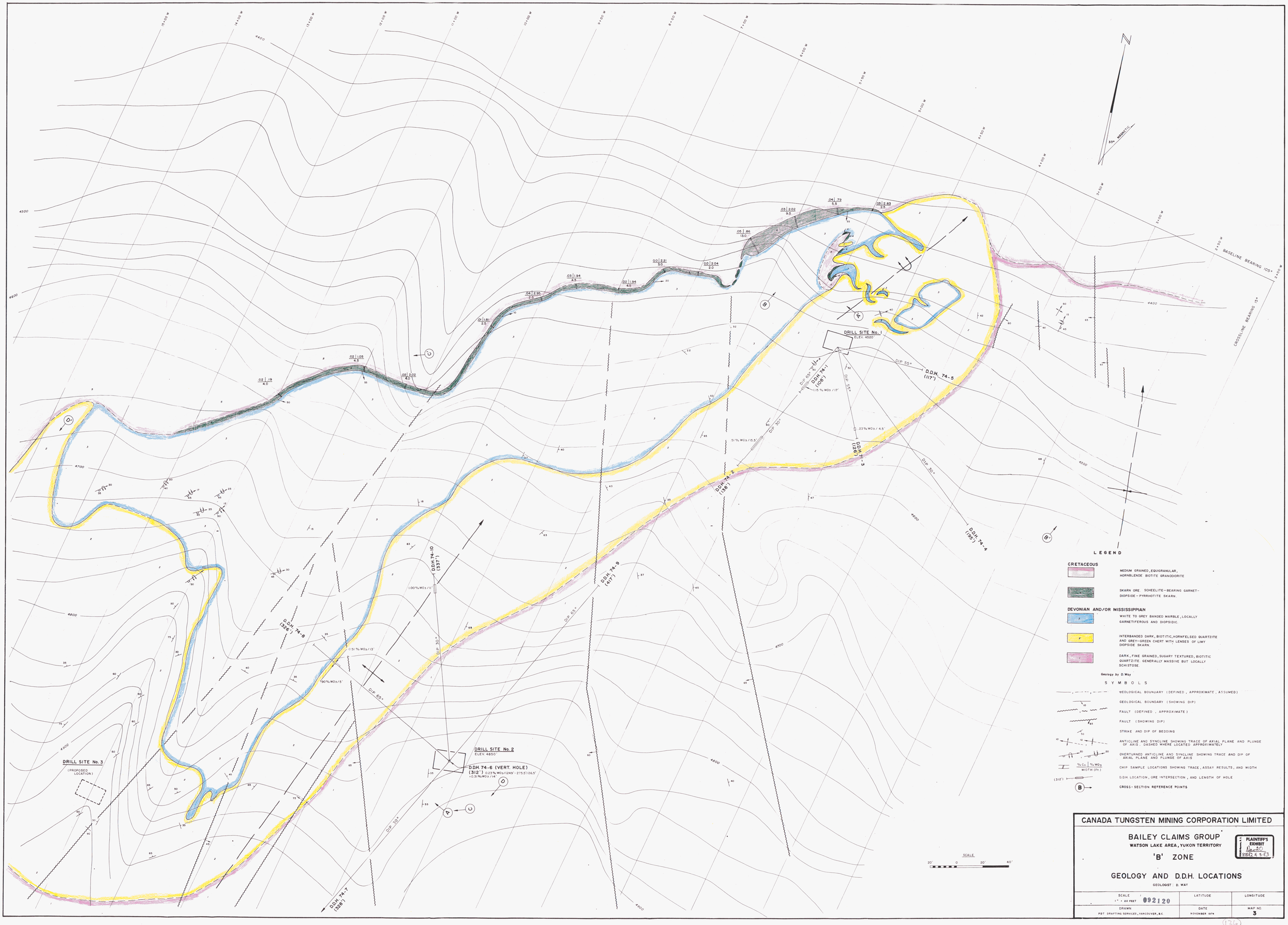
092120

GEOLOGY OF OSCAR & BAILEY CLAIMS

GEOLOGY BY: D.WAY, R.ROBERTSON, A.KUZMA, J.HOOVER

SCALE	LATITUDE	LONGITUDE
1" = 1000 FEET	60°47' NORTH	128°47' WEST
DRAWN	DATE	MAP NO. 2
PDT DRAFTING SERVICES, VANCOUVER, B.C.	JANUARY 1975	

125



LEGEND

CRETACEOUS

- MEDIUM GRAINED, EQUIGRANULAR, HORNBLENDE BIOTITE GRANODIORITE
- SKARN ORE SCHEELITE–BEARING GARNET–DIOPSIDE–PYRRHOTITE SKARN.

DEVONIAN AND/OR MISSISSIPPIAN

- WHITE TO GREY BANDED MARBLE, LOCALLY GARNETIFEROUS AND DIOPSIDIC.
- INTERBANDED DARK, BIOTITIC, HORNFELSED QUARTZITE AND GREY–GREEN CHERT WITH LENSES OF LIMY DIOPSIDE SKARN.
- DARK, FINE GRAINED, SUGARY TEXTURED, BIOTITIC QUARTZITE GENERALLY MASSIVE BUT LOCALLY SCHISTOSE.

Geology by D. Way

SYMBOLS

- GEOLOGICAL BOUNDARY (DEFINED, APPROXIMATE, ASSUMED)
- GEOLOGICAL BOUNDARY (SHOWING DIP)
- FAULT (DEFINED, APPROXIMATE)
- FAULT (SHOWING DIP)
- STRIKE AND DIP OF BEDDING
- ANTICLINE AND SYNCLINE SHOWING TRACE OF AXIAL PLANE AND PLUNGE OF AXIS. DASHED WHERE LOCATED APPROXIMATELY
- OVERTURNED ANTICLINE AND SYNCLINE SHOWING TRACE AND DIP OF AXIAL PLANE AND PLUNGE OF AXIS
- % Cu | % WO3 WIDTH (Ft.) — CHIP SAMPLE LOCATIONS SHOWING TRACE, ASSAY RESULTS, AND WIDTH
- (312') — D.D.H. LOCATION, ORE INTERSECTION, AND LENGTH OF HOLE
- B — CROSS-SECTION REFERENCE POINTS

CANADA TUNGSTEN MINING CORPORATION LIMITED

BAILEY CLAIMS GROUP

WATSON LAKE AREA, YUKON TERRITORY

'B' ZONE

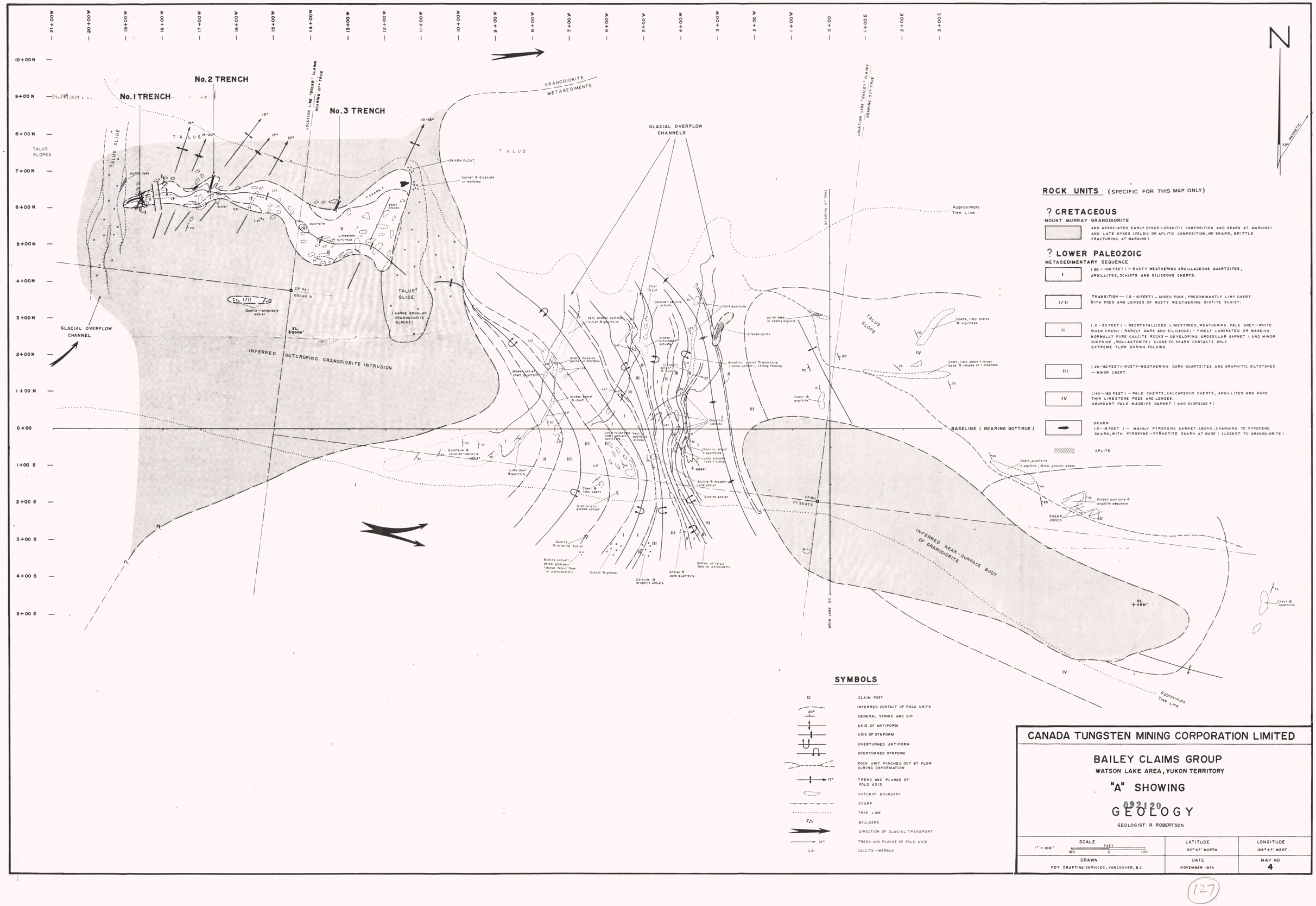
GEOLOGY AND D.D.H. LOCATIONS

GEOLOGIST: D. WAY

PLAINTIFF'S EXHIBIT No. 20 DATE 21842 4 3 83

SCALE	LATITUDE	LONGITUDE
1" = 20 FEET 092120		
DRAWN: PDT DRAFTING SERVICES, VANCOUVER, B.C.	DATE: NOVEMBER 1974	MAP NO. 3

126



ROCK UNITS (SPECIFIC FOR THIS MAP ONLY)

? CRETACEOUS

MOUNT MURRAY GRANODIORITE

AND ASSOCIATED EARLY DYKES (GRANITIC COMPOSITION AND SKARN AT MARGINS) AND LATE DYKES (FELSIC OR APLITIC COMPOSITION, NO SKARN, BRITTLE FRACTURING AT MARGINS).

? LOWER PALEOZOIC

METASEDIMENTARY SEQUENCE

I — (50 — 100 FEET) — RUSTY WEATHERING ARGILLACEOUS QUARTZITES, ARGILLITES, SCHISTS AND SILICEOUS CHERTS.

I/II — TRANSITION — (0 - 10 FEET) - MIXED ROCK, PREDOMINANTLY LIMY CHERT WITH PODS AND LENSES OF RUSTY WEATHERING BIOTITE SCHIST.

II — (0 - 50 FEET) - RECRYSTALLISED LIMESTONES, WEATHERING PALE GREY-WHITE WHEN FRESH (RARELY DARK AND SILICEOUS) - FINELY LAMINATED OR MASSIVE NORMALLY PURE CALCITE ROCKS - DEVELOPING GROSSULAR GARNET (AND MINOR DIOPSIDE, WOLLASTONITE) CLOSE TO SKARN CONTACTS ONLY. EXTREME FLOW DURING FOLDING

III — (20 - 50 FEET) - RUSTY-WEATHERING DARK QUARTZITES AND GRAPHITIC SILTSTONES — MINOR CHERT.

IV — (140 - 180 FEET) - PALE CHERTS, CALCAREOUS CHERTS, ARGILLITES AND BARE THIN LIMESTONE PODS AND LENSES. ABUNDANT PALE MASSIVE GARNET (AND DIOPSIDE ?)

SKARN (0 - 15 FEET) - MAINLY PYROXENE GARNET ABOVE, CHANGING TO PYROXENE SKARN, WITH PYROXYNE-PYRRHOTITE SKARN AT BASE (CLOSEST TO GRANODIORITE).

APLITE

SYMBOLS

- CLAIM POST
- INFERRED CONTACT OF ROCK UNITS
- 20° — GENERAL STRIKE AND DIP
- AXIS OF ANTIFORM
- AXIS OF SYNFORM
- OVERTURNED ANTIFORM
- OVERTURNED SYNFORM
- ROCK UNIT PINCHED OUT BY FLOW DURING DEFORMATION
- 15° — TREND AND PLUNGE OF FOLD AXIS
- OUTCROP BOUNDARY
- SCARP
- TREE LINE
- BOULDERS
- DIRECTION OF GLACIAL TRANSPORT
- 15° — TREND AND PLUNGE OF FOLD AXIS
- Lst — CALCITE-MARBLE

CANADA TUNGSTEN MINING CORPORATION LIMITED

BAILEY CLAIMS GROUP

WATSON LAKE AREA, YUKON TERRITORY

"A" SHOWING

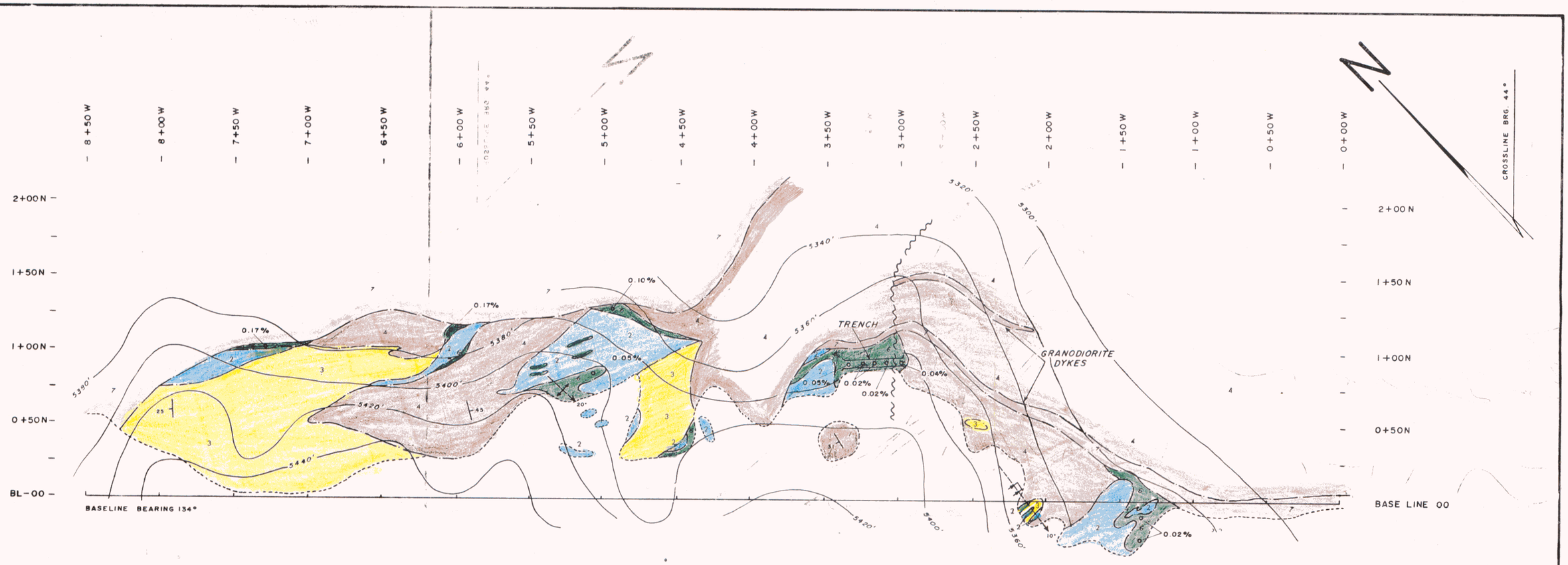
092120

GEOLOGY

GEOLOGIST: R. ROBERTSON

SCALE	LATITUDE	LONGITUDE
1" = 100' — FEET 100 0 100	60° 47' NORTH	128° 47' WEST
DRAWN: PDT DRAFTING SERVICES, VANCOUVER, B.C.	DATE: NOVEMBER 1974	MAP NO. 4

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LEGEND

CRETACEOUS

7 — MEDIUM GRAINED, HYPIDIOMORPHIC-GRANULAR, HORNBLENDE, BIOTITE GRANODIORITE.

6 — GARNET DIOPSIDE SKARN WITH MINOR SCHEELITE, MASSIVE PYRRHOTITE IN PLACES.

DEVONIAN AND/OR MISSISSIPPIAN

4 — DARK, SUGARY—TEXTURED, FINE GRAINED QUARTZITE WITH BIOTITE AND DISSEMINATED PYRRHOTITE.

3 — INTERBANDED DARK, BIOTITIC QUARTZITE AND GREY-GREEN CHERT.

2 — MARBLE, LOCALLY GARNETIFEROUS AND DIOPSIDIC.

GEOLOGY BY D. WAY

SYMBOLS

FAULT (APPROXIMATE LOCATION)

5380' — TOPOGRAPHICAL CONTOUR (20 FEET INTERVAL)

OUTCROP BOUNDARY

25 — STRIKE AND DIP OF BEDDING

10° — FOLD AXIS (OVERTURNED SYNCLINE) SHOWING PLUNGE AND APPROXIMATE LOCATION OF TRACE OF AXIAL PLANE

0.02% — LOCATION OF CHIP SAMPLE AND WO_3 ASSAY

CANADA TUNGSTEN MINING CORPORATION LIMITED

BAILEY CLAIMS GROUP

WATSON LAKE AREA, YUKON TERRITORY

"C" SHOWING

GEOLOGY

092120

SCALE	LATITUDE	LONGITUDE
1" = 50 FEET	60° 47' NORTH	128° 47' WEST
DRAWN	DATE	MAP NO.
PDT DRAFTING SERVICES, VANCOUVER, B.C.	JAN. 1975	5

128

GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

PRELIMINARY SERIES

105A

LEGEND

CENOZOIC

QUATERNARY
PLEISTOCENE AND RECENT
15 Unconsolidated glacial, fluvioglacial, and alluvial deposits; volcanic ash

TERTIARY (?) AND QUATERNARY
14 Vesicular olivine basalt

PALEOCENE OR EOCENE
13 Siltstone, shale, coal

MESOZOIC

CRETACEOUS
12 Biotite-hornblende granodiorite and quartz diorite; 12a, granite porphyry

CRETACEOUS OR OLDER
11 Highly sheared and altered granitic rocks, granitic gneiss; may include 1c locally

PALAEOZOIC

MISSISSIPPIAN
10 Steatitized peridotite; serpentinite, gabbro, pyroxenite

9 9a, light grey, massive, crinoidal limestone; limestone and polymictic conglomerate; sandy limestone, cherty limestone; 9b, green, grey, and maroon chert, argillite, slate, tuff (?), chert breccia and pebble conglomerate, green and maroon volcanics, limestone, phyllite, and greywacke; 9c, pebble and cobble conglomerate, phyllitic argillite

8 Greenstone, chert, phyllite, argillite, chert-pebble conglomerate

DEVONIAN AND/OR MISSISSIPPIAN
7 Chert-pebble conglomerate, carbonaceous black slate, impure siltstone and sandstone, quartzite, greywacke; may locally include older strata

SILURIAN (?) AND DEVONIAN
6 Dolomite, sandy dolomite, dolomitic sandstone, dolomite breccia; in part correlative with 5

5 Buff, brown, and grey, laminated, platy, calcareous siltstone; grey orthoquartzite; black, argillaceous limestone

CAMBRIAN AND ORDOVICIAN
4 Dark grey and black, non-calcareous argillite, slate, and phyllite; locally includes rocks older than 3 northwest of Tom Lake; buff and grey calcareous, phyllitic limestone, phyllite, and slate; minor wavy-banded silty limestone

CAMBRIAN
LOWER CAMBRIAN
3 Thick-bedded limestone

2 Quartzite, slate, siltstone

PROTEROZOIC

HADRYNIAN
1 Black and dark green shale and slate; feldspar-quartz-pebble conglomerate and grit; quartzite; maroon shale and slate; green argillite; 1a, limestone, dolomite, dolomite breccia; 1b, greenish grey phyllitic slate, may be in part or entirely of Cambrian age; 1c, highly sheared equivalents of 1; 1d, hornfels, schist, gneiss

Geological boundary (defined, approximate or assumed) . . .
Bedding (inclined, vertical, overturned) . . .
Foliation (inclined) . . .
Fault (defined, approximate or assumed) . . .
Anticline (defined or approximate) . . .
Syncline (defined or approximate) . . .
Drumlinoid ridge . . .
Fossil locality . . . F
Mineral occurrence or prospect . . . xPb

MINERAL SYMBOLS

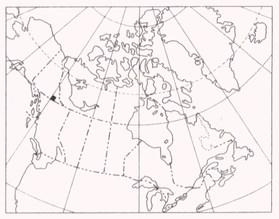
Lead	Pb
Silver	Ag
Tungsten	W
Zinc	Zn

Geology by H. Gabrielse, 1965, 1966

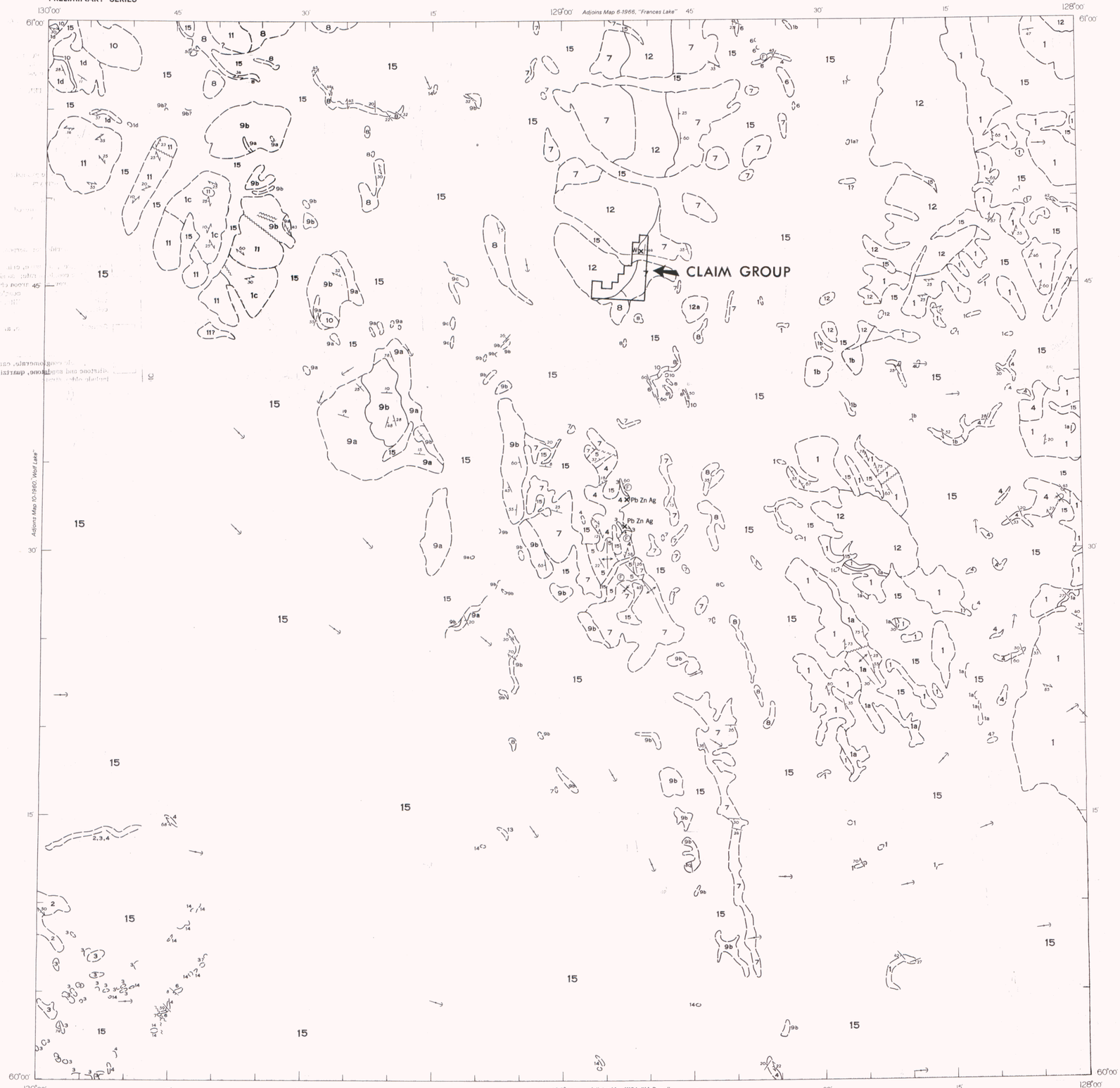
Base-map produced by the Army Survey Establishment, RCE, 1948-50 with revisions by the Geological Survey of Canada, 1966

Magnetic declination 1967 varies from 32° 03' easterly at centre of west edge to 32° 12' easterly at centre of east edge. Mean annual change 5.1' westerly

All elevations in feet above mean sea-level



INDEX MAP



Published 1967, the Centennial of Canadian Confederation
1867 1967

MAP 19-1966

GEOLOGY

WATSON LAKE

YUKON TERRITORY

Scale 1:253,440
1 inch to 4 miles

Miles 4 0 4 8 12 Miles
Kilometres 6 0 6 12 18 Kilometres

Printed by the Surveys and Mapping Branch
Copies of this map may be obtained from the Director, Geological Survey of Canada, Ottawa

DESCRIPTIVE NOTES

Fixed-wing aircraft equipped with floats are available for charter at Watson Lake, a community serviced by scheduled airline flights. Rotary-wing aircraft can be chartered at Watson Lake Wye, on Alaska Highway, a supply and communications centre for the region. Good gravel roads run northerly from Watson Lake to Ross River on Canol Road and to the Canada Tungsten Mine near the headwaters of Flat River. Rapids in Liard Canyon present the only obstacle to navigation on Liard River. Frances and Hyland Rivers have long stretches of easily navigable water but these are interrupted by several dangerous rapids.

A thick sequence of Proterozoic rocks (1) (possibly including Lower Cambrian strata in the upper part) is composed of three units, from oldest to youngest as follows: interbedded slates and feldspathic gritty rocks of apparently great, but unknown thickness; limestone and limestone breccia of variable thickness but locally between 500 and 600 feet thick; and fine-grained phyllitic and slaty rocks possibly more than 1,000 feet thick. The clastic rocks in Simpson Range (1c, 1d) are highly sheared and northwest of Hasselberg Lake are strongly metamorphosed.

Lower Cambrian clastic and carbonate rocks (2, 3) in the southwest part of the map-area are characteristic of the Atan Group to the south in McDame map-area. Lower Cambrian limestone (3) containing archaeocyathids in the central part of the map-area appears to range from zero to as much as 200 feet thick. The limestone overlies crinkled, non-calcareous, finely laminated, phyllitic argillite and is overlain by calcareous phyllitic slate and wavy banded limestone.

Cambrian and Ordovician strata (4), probably more than 1,000 feet thick, are typically buff weathering in the southwest part of the map-area and in Liard Canyon but are grey weathering elsewhere. The rocks are highly incompetent and commonly display well developed cleavage.

Silurian and Devonian strata (6), containing Middle Devonian fossils in an uppermost unit of black, fetid limestone, are possibly as much as 1,000 feet thick along the Canada Tungsten road west of Hyland River and appear similar in lithology and thickness to correlative rocks in McDame map-area. Middle Devonian fossils were also collected from platy argillaceous limestone (included in 5) 3½ miles southwest of the unnamed peak, elevation 5,165 feet, in the central part of the map-area. There, however, the sequence includes very little carbonate.

The basal non-volcanic clastic rocks of the Devono-Mississippian assemblage (7) are characterized by chert pebble conglomerates that locally form resistant members several hundred feet thick.

Several belts of volcanic rocks and associated sedimentary strata, probably of Mississippian age, (8), locally include bodies of ultramafic rocks (10). The distribution of volcanic and ultramafic rocks is well defined by aeromagnetic anomalies (See G.S.C. Map 7000G). A limestone member (9a) southeast of Sambo and Marten Lakes may be as much as 500 feet thick. In Middle Canyon on Frances River well bedded limestones contain interbeds of sheared limestone and polymictic conglomerate generally less than 10 feet thick. Massive and, in places, highly sheared conglomerate on the east side of Simpson Lake (9c) contains well rounded to sub-angular pebbles and cobbles of greenstone, vein quartz, quartz-muscovite gneiss, serpentinite, phyllitic slate, and limestone.

Granitic bodies in the northeast part of the map-area (12) have a fairly uniform composition. An isolated granitic plug (12a) east of Oscar Lake contains crystals of quartz, feldspar and biotite in a fine-grained, buff weathering matrix. Granitic rocks north of Tuchitua River and in Simpson Range (11) have been highly metamorphosed and those in Simpson Range include much granitic gneiss.

Steeply dipping Paleocene or Eocene sediments (13) containing lignitic coal outcrop along Liard River near the mouth of Rancheria River. The best exposed coal seam is about 4 feet thick.

Small exposures of flat-lying vesicular olivine basalt (14) occur in the southwest part of the map-area. Aeromagnetic anomalies suggest that these rocks underlie a fairly extensive area along and near Little Rancheria River. An outcrop of basalt along the Ross River road north of Tuchitua River contains some medium-grained gabbro.

The entire map-area was covered by one or more advances of ice. The last major advances were southeasterly along Liard River, westerly from Cassiar Mountains, southerly down the upper Frances River valley and northerly and northeasterly up the valleys of Hyland and Green Rivers. Glacial lake silts underlie a large area from north of Simpson Lake southerly and easterly beyond Stewart Lake to north of Hyland River.

Poorly consolidated, flat-lying sands and pebbly sands containing logs and fragments of wood are exposed in a cut bank on the east side of Liard River about 4 miles southeast of the mouth of Allan Creek. The sediments may be of intra- or pre-Pleistocene age as they underlie boulder till. Radiocarbon dating of the wood indicates an age of greater than 40,800 years B.P.

A layer of white weathering volcanic ash, about ½ inch thick, occurs beneath the humus layer along Liard River south of the mouth of Allan Creek and also near Simpson Lake.

Structural information is fragmentary and no coherent picture of structural style of the bedrock formations has been obtained. Proterozoic (?) rocks on Hyland River above the mouth of Green River and southeast of the mouth of Green River are strongly cleaved and tightly folded with axial planes dipping moderately to the east. The overlying incompetent Cambro-Ordovician strata appear to be much less deformed and form relatively open folds. Similarly, the strongly sheared Proterozoic rocks and associated granitic rocks in Simpson Range are more intensely sheared than those of the adjacent Devono-Mississippian sequence to the northeast.

The distribution of map-units in the mountain range northwest of Tom Lake suggests a domal structure. In this area thin-bedded strata of map-units 4 and 5 are cut by a well developed, northerly trending strain-slip cleavage which is in turn folded.

The major structure in southeastern Simpson Range appears to be a syncline with a gently dipping southwestern limb and a steeply dipping to slightly overturned northeastern limb. Farther northwest in Simpson Range gneissic structures in granitic and metasedimentary rocks generally dip at low angles.

An important fault separates the gneissic terrain from considerably less deformed Devono-Mississippian strata northwest of Sambo Lake. Northerly and northwesterly trending faults such as those exposed along Little Rancheria River are probably abundant in the southwest part of the map-area, where, combined with tight folds, they cause considerable repetition of strata.

Folding of Paleocene or Eocene strata along Liard River demonstrates deformation during the interval between deposition of these beds and the extrusion of flat-lying basalt.

A relatively high-grade lead-zinc showing containing minor silver has been discovered about one mile southeast of the unnamed peak, elevation 5,165 feet, sixteen miles northwest of Tom Lake. There, several trenches reveal coarse-grained galena and sphalerite associated with a spectacular garnet-diopside-hedenbergite (?) skarn in Lower Cambrian limestone. Trenching has also been carried out on a similar occurrence near the crest of a ridge two miles farther north.

A prospector has reported the presence of scheelite along the east contact of the granitic batholith four miles northwest of the north end of Oscar Lake.

MAP 19-1966
WATSON LAKE
YUKON TERRITORY
105A

129

map no. 6

092120

CANADA

NATIONAL TOPOGRAPHIC SERIES — DEPARTMENT OF MINES AND TECHNICAL SURVEYS — EDITION 2 FIRST EDITION — SHEET 105 A

Refer to this Map as:	105 A EDITION 1 ASE SERIES A502

Military users, refer to this map as: / Référence de la carte pour usage militaire:	SERIES A502 SERIE MAP 105 A CARTE EDITION 2 MCE EDITION

Morning Star Property

Universal Transverse Mercator Projection
All Elevations in Feet above Mean Sea Level
Contour interval 500 Feet
North American Datum 1927.

Magnetic Declination 33°35' East at centre of sheet, 1950
The variation of the compass needle is decreasing 2 minutes annually.

Surveyed, compiled, drawn and printed by the Army Survey Est. R.C.E. 1948-50.
Aerial photography by the R.C.A.F. 1948.

Interim Corrections 1974

REFERENCE

Road, Hard Surface, Heavy Duty ..... 3 or more Lanes / Partially completed
,, Hard Surface, Heavy Duty ..... 2 Lanes / Route No.
,, Hard Surface, Medium Duty ..... 3 or more Lanes / 2 Lanes
,, Loose Surface, Graded and Drained ..... 3 or more Lanes / Not less than 14 ft. wide
Other Roads ..... Poor condition
Trail .....
Railway, Double Track ..... Station / Stop
,, Single Track .....
Boundary, International .....
,, Provincial .....
,, County or Land District .....
,, Reservation, Military, etc. .....
Electric Power Line ..... on Steel Towers / on Wood Poles

WATSON LAKE

YUKON TERRITORY

Scale 1:250,000

1 Inch to 4 Miles Approximately

Miles 5 0 5 10 15 20 Miles
Kilometres 5 0 5 10 15 20 25 30 Kilometres

ROADS - *ROUTES*
hard surface - *pavée*
loose surface - *de gravier*
cart track - *de terre*
trail - *sentier*
Deletions - *Suppressions* x x x x x

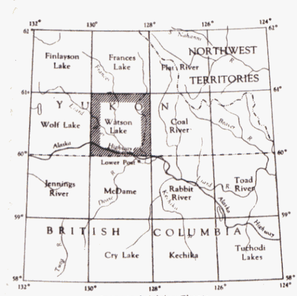
Copies may be obtained from the Map Distribution Office, Department of Mines and Technical Surveys, Ottawa.

REFERENCE

Triangulation Station ..... Spot Elevation, in feet ..... .821
Contours, Elevation ..... Wooded Areas .....
,, Depression ..... Swamp or Marsh .....
Form Lines .....
Stream, Intermittent ..... Cliff ..... W.L. 631
Dam ..... Mud or Sand
Falls ..... Rapids ..... Navigation Light
Air-field, Military, El. in feet ..... 765 ..... Seaplane Base .....
,, Civil ..... Seaplane Anchorage .....
,, Auxiliary .....
Building ..... Fire Lookout Tower .....
Church ..... Bench Mark ..... BM 732
School ..... Telephone, Trunk Route .....

GRID ZONE DESIGNATION 9V	TO GIVE A STANDARD REFERENCE ON THIS SHEET TO NEAREST 1000 METRES
100 000 M. SQUARE IDENTIFICATION: VT WT / VS WS — 670 — 50	SAMPLE POINT: HORIZONTAL CONTROL POINT 1. Read letters identifying 100 000 metre square in which the point lies: VT 2. Locate first VERTICAL grid line to LEFT of point and read LARGE figures labeling the line either in the top or bottom margin or on the line itself. Estimate tenths from grid line to point: 8 6 3. Locate first HORIZONTAL grid line BELOW point and read LARGE figures labeling the line either in the left or right margin or on the line itself. Estimate tenths from grid line to point: 1 8
IGNORE the SMALLER figures of any grid number. these are for finding the full coordinates. Use ONLY the LARGER figures of the grid number. example 45 0000	SAMPLE REFERENCE: VT 8618 If reporting beyond 18° in any direction prefix Grid Zone Designation as: 9V VT 8618

TEN THOUSAND METRE
UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 9



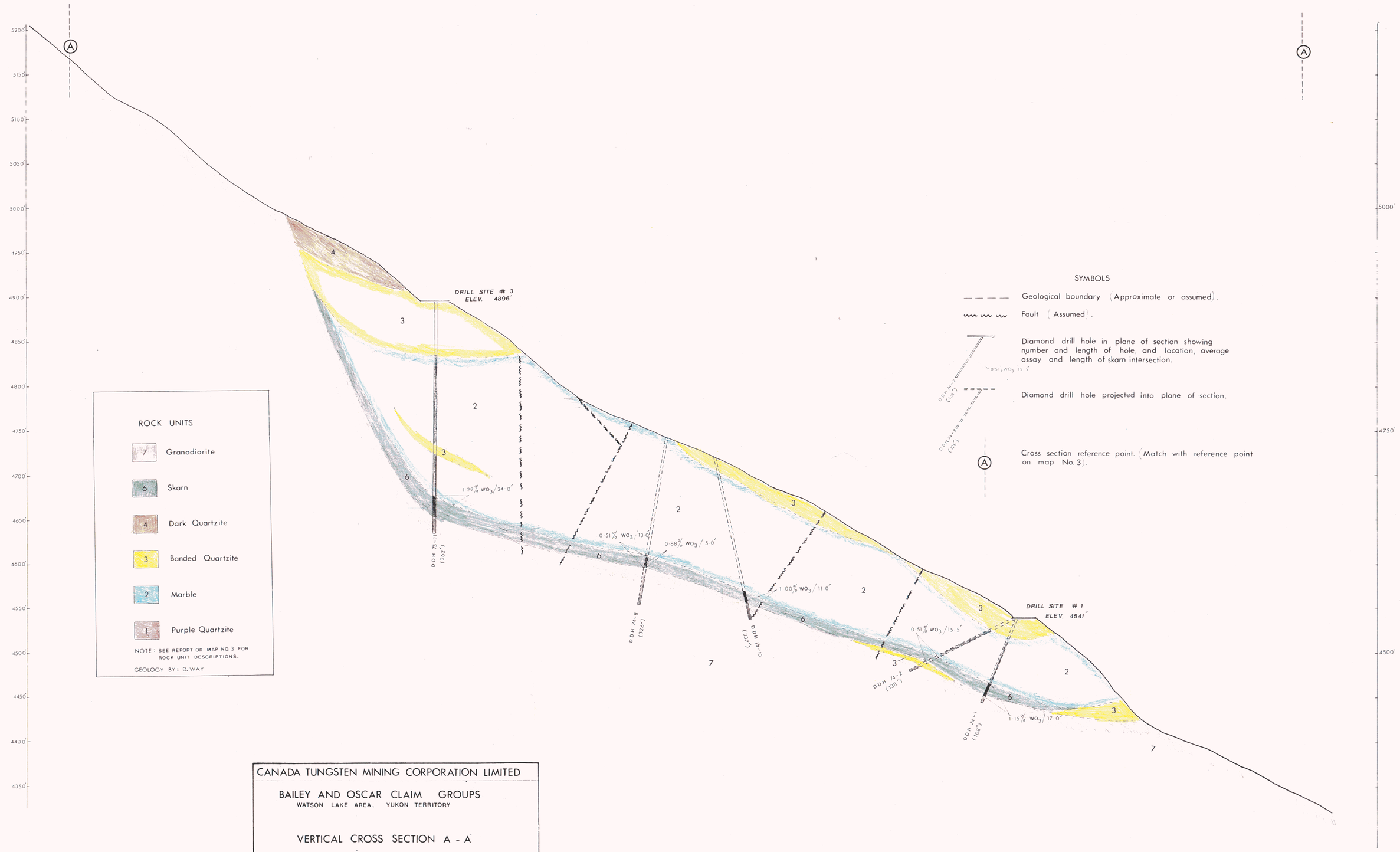
Index to Adjoining Sheets

092120.

map no. 7

(130)

WATSON LAKE Y.T.
SHEET 105 A



ROCK UNITS

7	Granodiorite
6	Skarn
4	Dark Quartzite
3	Banded Quartzite
2	Marble
1	Purple Quartzite

NOTE: SEE REPORT OR MAP NO. 3 FOR ROCK UNIT DESCRIPTIONS.

GEOLOGY BY: D. WAY

SYMBOLS

- Geological boundary (Approximate or assumed).
- Fault (Assumed).
- Diamond drill hole in plane of section showing number and length of hole, and location, average assay and length of skarn intersection.
- Diamond drill hole projected into plane of section.
- Cross section reference point. (Match with reference point on map No. 3).

CANADA TUNGSTEN MINING CORPORATION LIMITED

BAILEY AND OSCAR CLAIM GROUPS

WATSON LAKE AREA, YUKON TERRITORY

VERTICAL CROSS SECTION A - A'

092120

SCALE HORIZONTAL = VERTICAL: 1 in. = 40 ft.	LATITUDE 60°46' N.	LONGITUDE 128° 53° W.
DRAWN: E. FERNANDO	DATE: JULY, 1976	REFERENCE TO MAP NO. 3

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CANADA TUNGSTEN MINING CORPORATION LIMITED

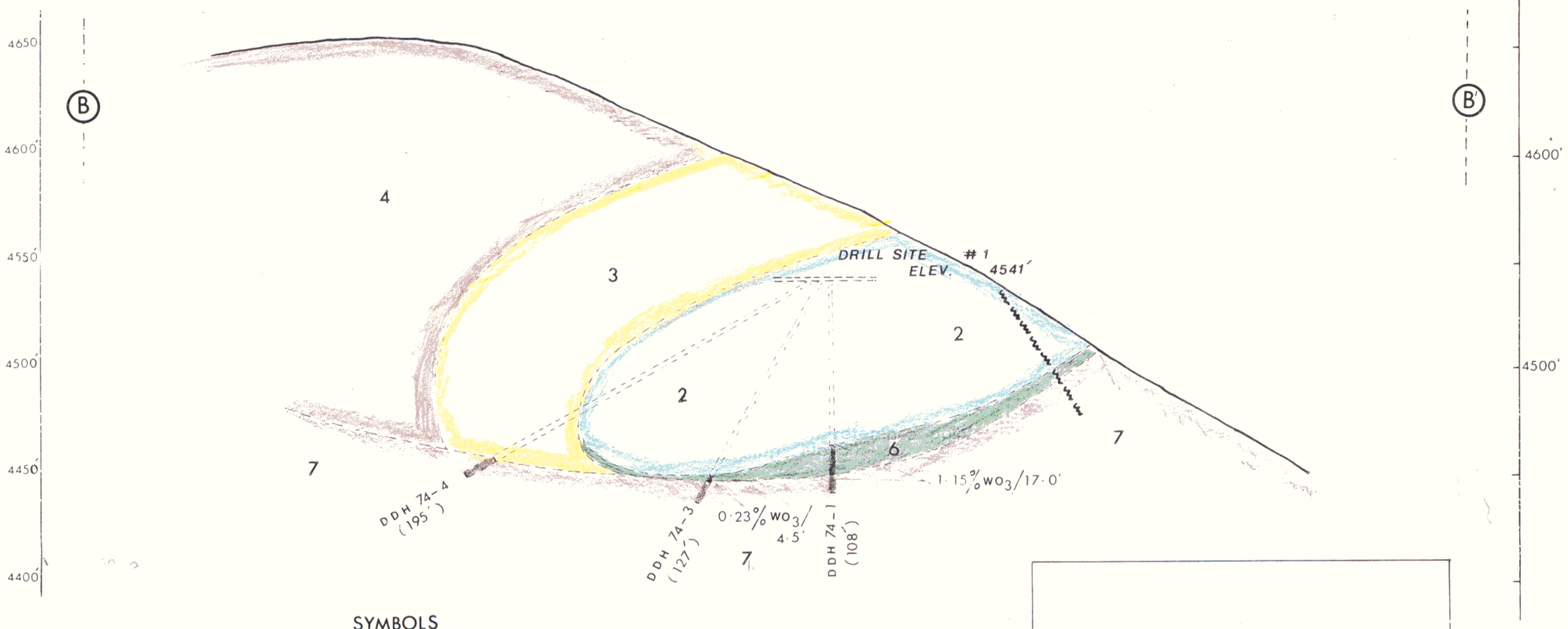
BAILEY AND OSCAR CLAIM GROUPS

WATSON LAKE AREA YUKON TERRITORY

092120

VERTICAL CROSS SECTION B - B'

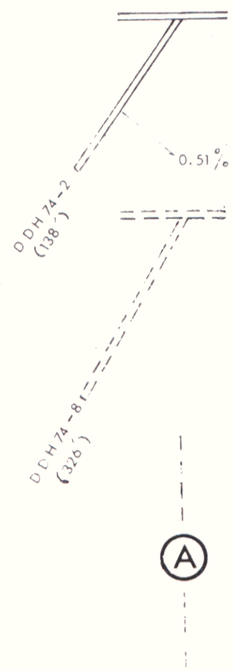
SCALE	LATITUDE	LONGITUDE
HORIZONTAL = VERTICAL: 1 in. = 40 ft.	60°46' N.	128° 53° W.
DRAWN: E. FERNANDO	DATE: JULY 1976	REFERENCE TO MAP NO. 3



SYMBOLS

Geological boundary (Approximate or assumed).

Fault (assumed).



Diamond drill hole in plane of section showing number and length of hole, and location, average assay and length of skarn intersection.

Diamond drill hole projected into plane of section.

Cross section reference point. (Match with reference point on map No. 3).

ROCK UNITS

- 7 Granodiorite
- 6 Skarn
- 4 Dark Quartzite
- 3 Banded Quartzite
- 2 Marble
- 1 Purple Quartzite

NOTE: SEE REPORT OR MAP NO. 3 FOR ROCK UNIT DESCRIPTIONS.

GEOLOGY BY: D. WAY

132

DRILL SITE # 5
ELEV. 5190´

DRILL SITE # 2
ELEV. 4843´

DDH 75-30
(532´)

DDH 74-6
(312´)

0.17% WO_3 / 7.5´

0.23% WO_3 / 26.5´

0.51% WO_3 / 15.5´

DDH 74-7

DDH 74-16

SYMBOLS

Geological boundary (Approximate or assumed).

Fault (Assumed).

Diamond drill hole in plane of section showing number and length of hole, and location, average assay and length of skarn intersection.

Diamond drill hole projected into plane of section.

Cross section reference point. Match with reference point on map No. 3.

ROCK UNITS

7 Granodiorite

6 Skarn

4 Dark Quartzite

3 Banded Quartzite

2 Marble

1 Purple Quartzite

NOTE: SEE REPORT OR MAP NO. 3 FOR ROCK UNIT DESCRIPTIONS.

GEOLOGY BY: D. WAY

CANADA TUNGSTEN MINING CORPORATION LIMITED

BAILEY AND OSCAR CLAIM GROUPS

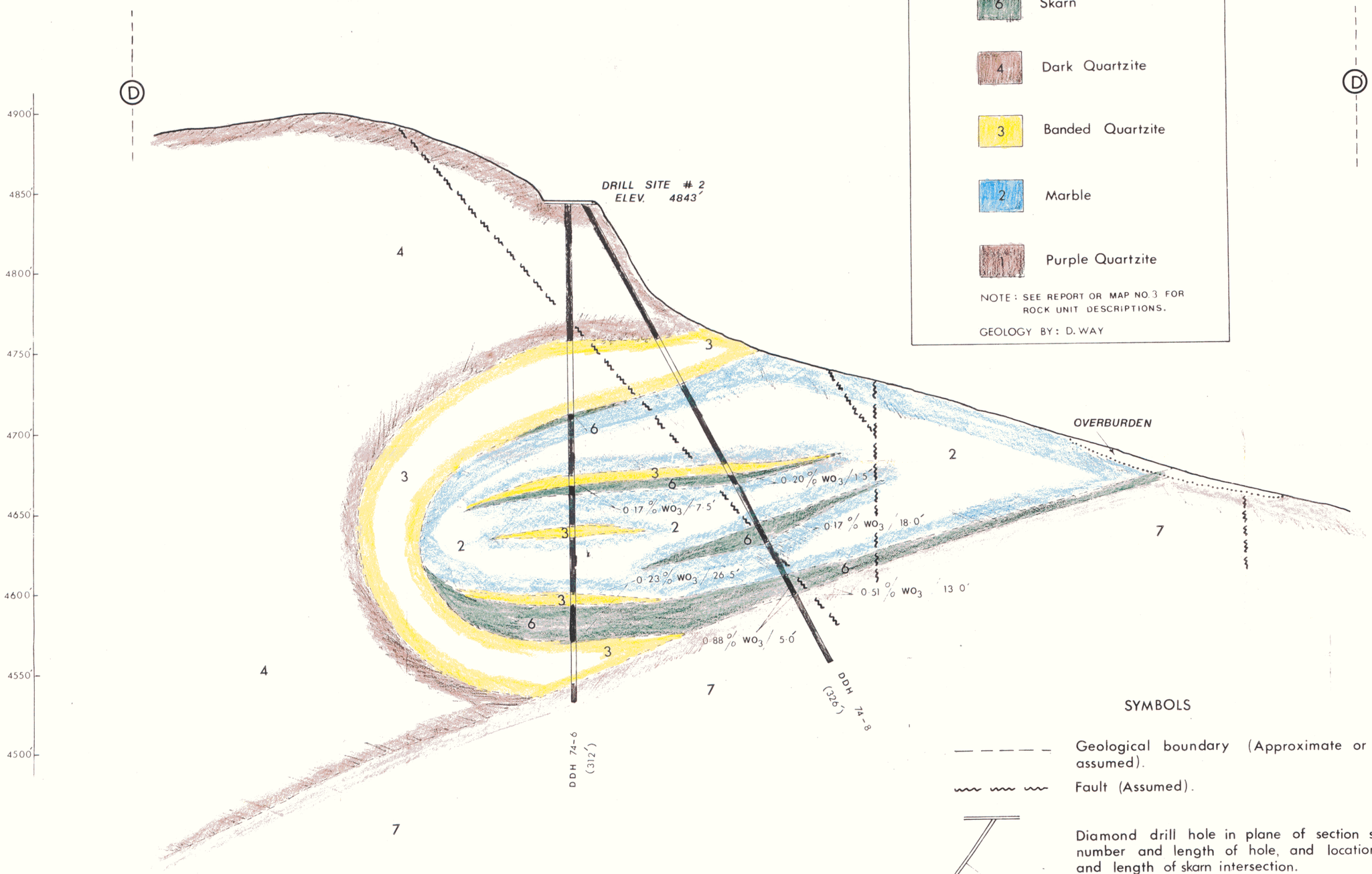
WATSON LAKE AREA, YUKON TERRITORY

092130

VERTICAL CROSS SECTION C-C´

SCALE	LATITUDE	LONGITUDE
HORIZONTAL = VERTICAL 1 in. = 40 ft.	60°46´ N.	128° 53° W.
DRAWN: E. FERNANDO	DATE: JULY 1976	REFERENCE TO MAP NO. 3

133



ROCK UNITS

- 7 Granodiorite
- 6 Skarn
- 4 Dark Quartzite
- 3 Banded Quartzite
- 2 Marble
- 1 Purple Quartzite

NOTE: SEE REPORT OR MAP NO. 3 FOR ROCK UNIT DESCRIPTIONS.

GEOLOGY BY: D. WAY

SYMBOLS

- Geological boundary (Approximate or assumed).
- Fault (Assumed).
- Diamond drill hole in plane of section showing number and length of hole, and location, average grade and length of skarn intersection.
- Diamond drill hole projected into plane of section.
- Cross section reference point. (Match with reference point on map No. 3).

CANADA TUNGSTEN MINING CORPORATION LIMITED

BAILEY AND OSCAR CLAIM GROUPS

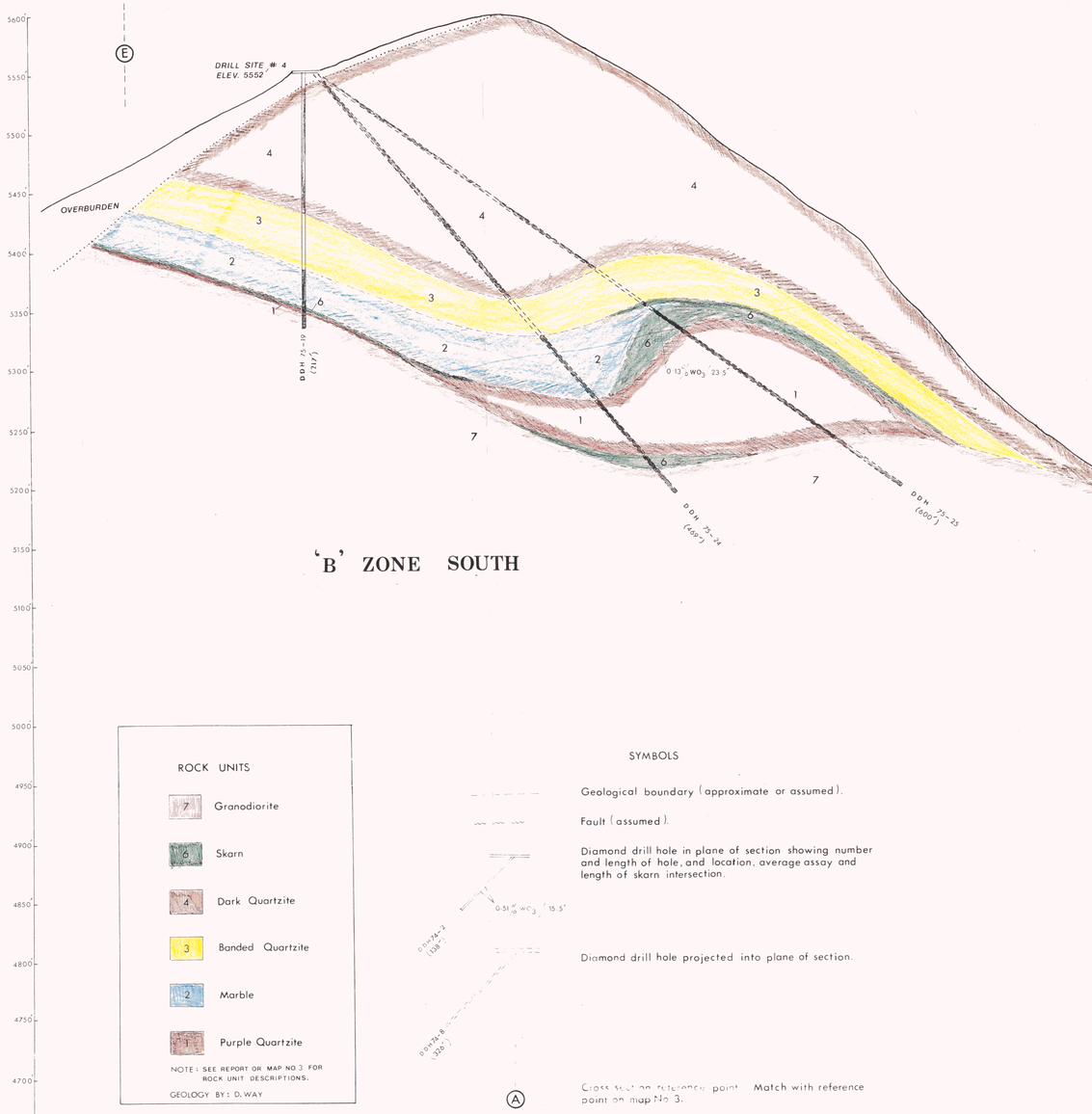
WATSON LAKE AREA, YUKON TERRITORY

092120

VERTICAL CROSS SECTION D-D'

SCALE	LATITUDE	LONGITUDE
HORIZONTAL = VERTICAL: 1 in. = 40 ft.	60°46' N.	128° 53° W
DRAWN: E. FERNANDO	DATE: JULY, 1976	REFERENCE TO MAP NO. 3

(134)



'B' ZONE SOUTH

ROCK UNITS

- 7 Granodiorite
- 6 Skarn
- 4 Dark Quartzite
- 3 Banded Quartzite
- 2 Marble
- 1 Purple Quartzite

NOTE: SEE REPORT OR MAP NO.3 FOR ROCK UNIT DESCRIPTIONS.

GEOLOGY BY: D. WAY

SYMBOLS

Geological boundary (approximate or assumed).

Fault (assumed).

Diamond drill hole in plane of section showing number and length of hole, and location, average assay and length of skarn intersection.

Diamond drill hole projected into plane of section.

Cross section reference point. Match with reference point on map No. 3.

CANADA TUNGSTEN MINING CORPORATION LIMITED

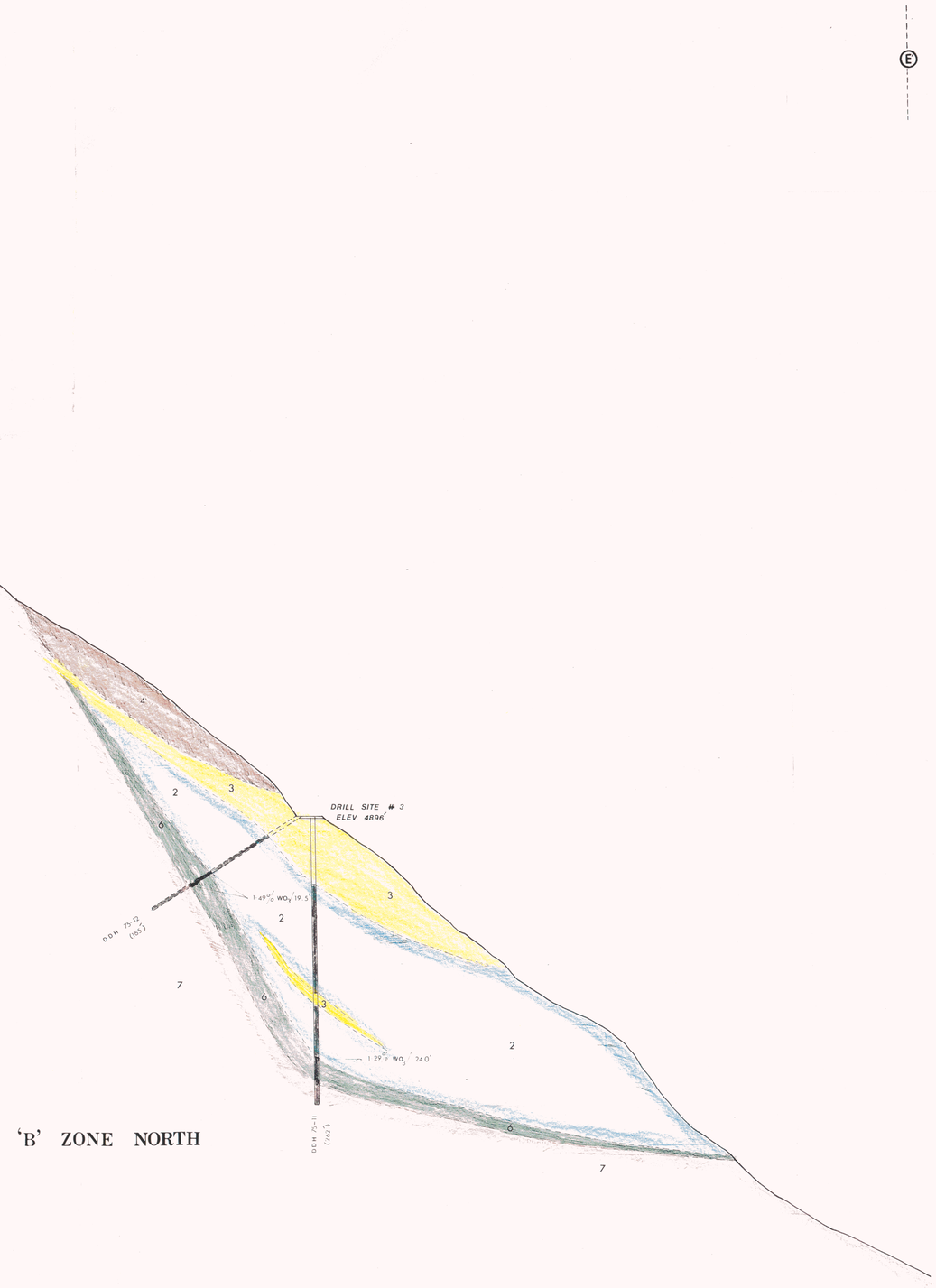
BAILEY AND OSCAR CLAIM GROUPS
WATSON LAKE AREA, YUKON TERRITORY

092120

VERTICAL CROSS SECTION E - E'

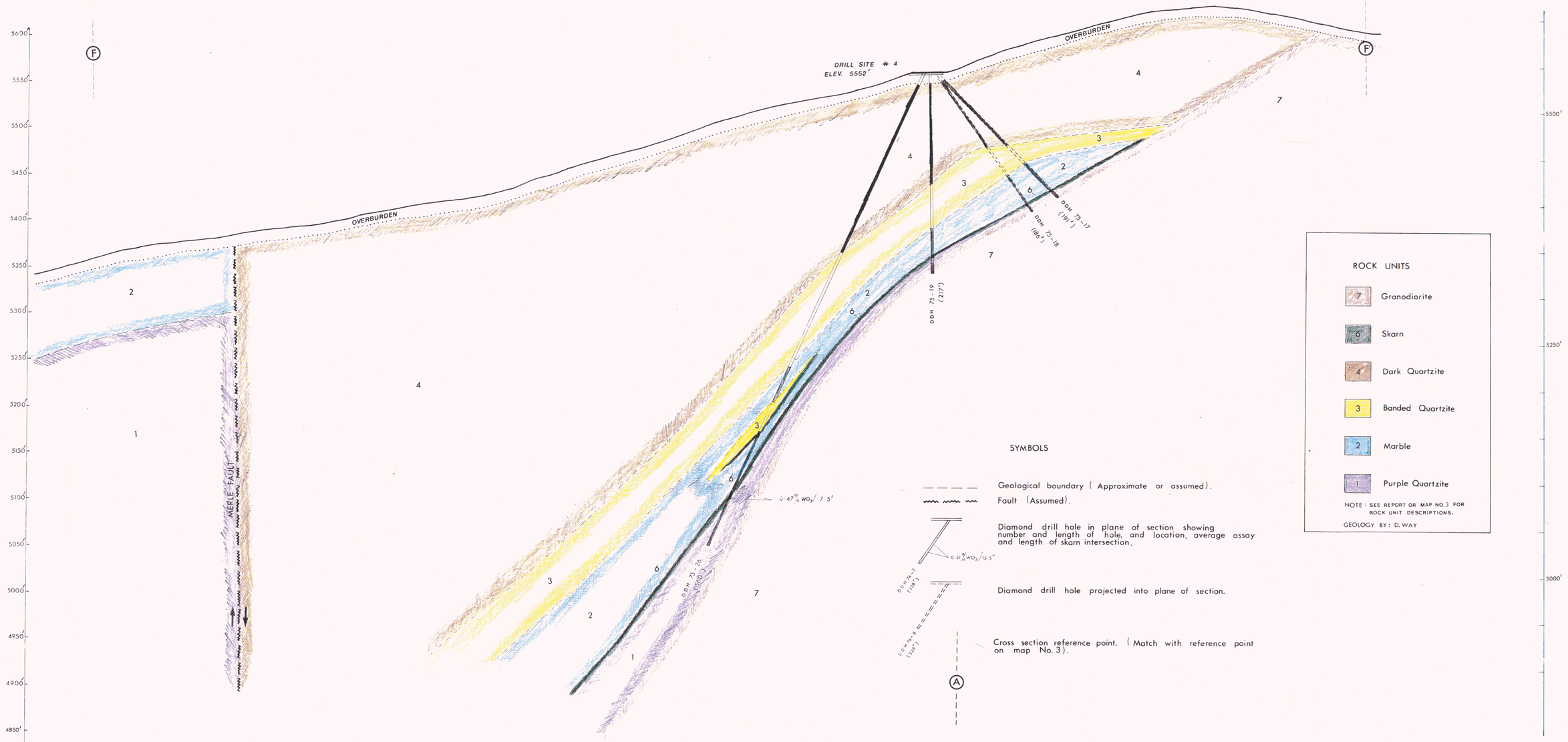
135

SCALE	LATITUDE	LONGITUDE
HORIZONTAL = VERTICAL: 1 in. = 40 ft.	60°46' N.	128° 53° W.
DRAWN: E. FERNANDO	DATE: JULY, 1976	REFERENCE TO MAP NO. 3



'B' ZONE NORTH

135



ROCK UNITS

- 7 Granodiorite
- 6 Skarn
- 4 Dark Quartzite
- 3 Banded Quartzite
- 2 Marble
- 1 Purple Quartzite

NOTE: SEE REPORT OR MAP NO. 3 FOR ROCK UNIT DESCRIPTIONS.

GEOLOGY BY: D. WAY

SYMBOLS

- Geological boundary (Approximate or assumed).
- Fault (Assumed).
- Diamond drill hole in plane of section showing number and length of hole, and location, average assay and length of skarn intersection.
- Diamond drill hole projected into plane of section.
- Cross section reference point. (Match with reference point on map No. 3).

CANADA TUNGSTEN MINING CORPORATION LIMITED

BAILEY AND OSCAR CLAIM GROUPS

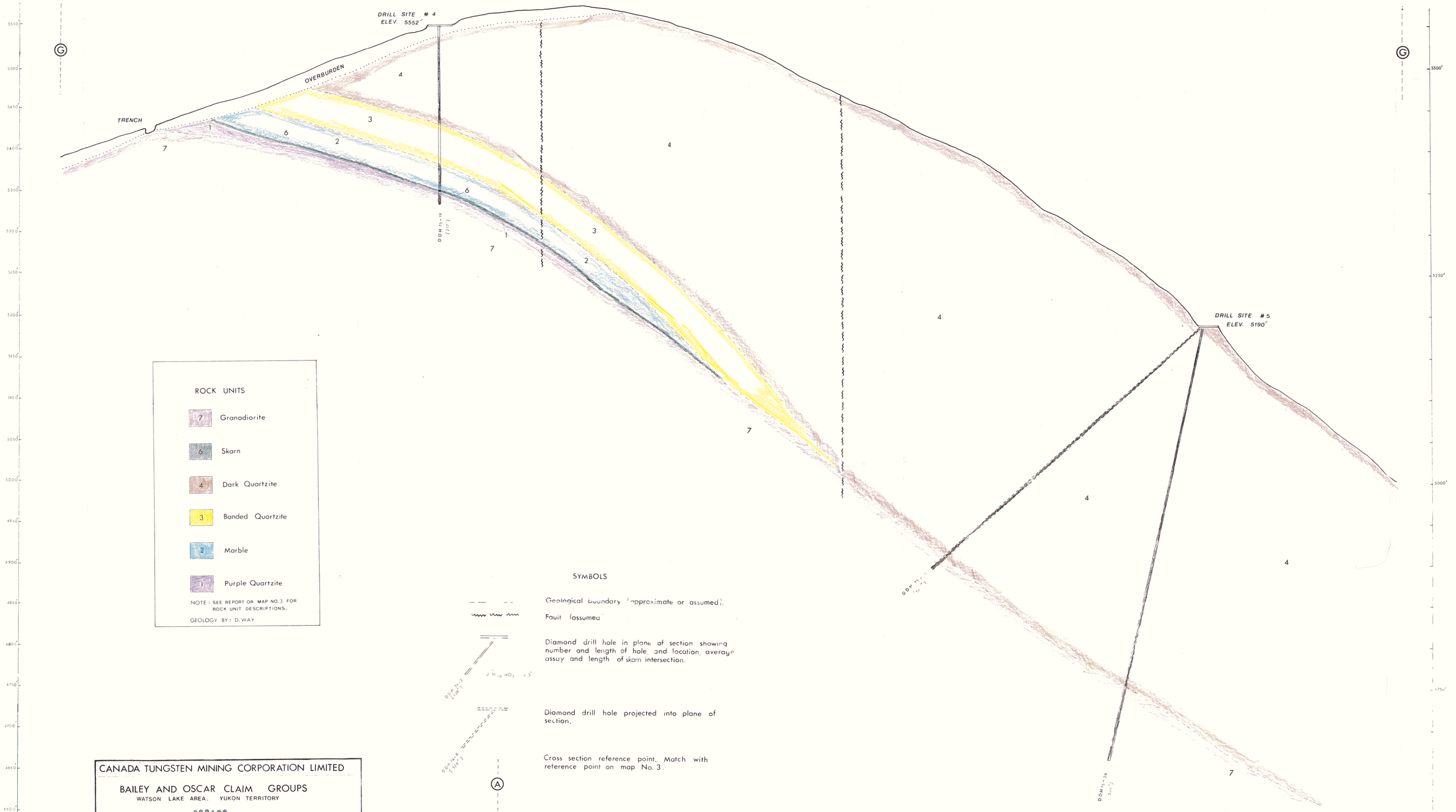
WATSON LAKE AREA, YUKON TERRITORY

092120

VERTICAL CROSS SECTION F - F'

SCALE HORIZONTAL = VERTICAL: 1 in. = 40 ft.	LATITUDE 60°46' N.	LONGITUDE 128° 53° W.
DRAWN: E. FERNANDO	DATE: JULY, 1976	REFERENCE TO MAP NO. 3

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ROCK UNITS

- 7 Granodiorite
- 6 Skarn
- 4 Dark Quartzite
- 3 Banded Quartzite
- 2 Marble
- 1 Purple Quartzite

NOTE: SEE REPORT OR MAP NO. 3 FOR ROCK UNIT DESCRIPTIONS.

GEOLOGY BY: D. WAY

SYMBOLS

- Geological boundary (approximate or assumed).
- Fault (assumed)
- Diamond drill hole in plane of section showing number and length of hole, and location, average assay and length of skarn intersection.
- Diamond drill hole projected into plane of section.
- Cross section reference point. Match with reference point on map No. 3.

CANADA TUNGSTEN MINING CORPORATION LIMITED

BAILEY AND OSCAR CLAIM GROUPS

WATSON LAKE AREA. YUKON TERRITORY

092120

VERTICAL CROSS SECTION G - G'

SCALE	LATITUDE	LONGITUDE
HORIZONTAL = VERTICAL: 1 in. = 40 ft.	60°46' N.	128° 53° W.
DRAWN: E. FERNANDO	DATE: JULY, 1976	REFERENCE TO MAP NO. 3

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LEGEND

p-6 Number of polygon.

Strike and dip of upper surface of skarn unit.

Projection of mid-point of skarn intersection in drill hole.

Grid point for orienting template over Map No. 3.

CANADA TUNGSTEN MINING CORPORATION LIMITED

MORNING STAR PROPERTY

'B' ZONE NORTH

POLYGONAL SECTION TEMPLATE

092120

SCALE	LATITUDE	LONGITUDE
1 in. = 40 ft.	60° 47' NORTH	128° 47' WEST
DRAWN: D. Way	DATE: JULY, 1976	MAP NO.

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