

83-#930-11858

12-84

ARTINA RESOURCES LTD.

DIAMOND DRILLING  
ASSESSMENT REPORT  
of the  
TAP MINERAL CLAIMS GROUP  
NICOLA MINING DIVISION

BRITISH COLUMBIA  
31 December 1983

Latitude: 50°15' North

Longitude: 120°52' West

Diamond Drilling:

H. Allen Drilling, Merritt,

Geological Core Logging:

William J. Weymark, P.Eng.

Weymark Engineering Ltd.  
1063 Balfour Avenue  
Vancouver, B.C.

(604) 736-6812

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**11,858**

WEYMARK ENGINEERING LTD.

ARTINA RESOURCES LTD.

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TAP MINERAL CLAIMS GROUP  
NICOLA MINING DIVISION  
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Figure 3	Access - Topography
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Figure 5	Geophysical Anomalous Zones and Diamond Drill Locations

**WEYMARK ENGINEERING LTD.**

*Consulting Engineers*

3310 WESTMOUNT ROAD  
WEST VANCOUVER, B.C.  
CANADA

TELEPHONES:  
822-1536  
736-6012

December 31, 1983

Artina Resources Ltd.  
1945 - 650 West Georgia Street  
Vancouver, British Columbia

Gentlemen:

Re: Assessment Report  
Diamond Drilling Surveys  
Tap Mineral Claims Group  
Nicola Mining Division  
British Columbia

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We are pleased to submit for your information, this Assessment Report detailing the scope and results of the Diamond Drilling Surveys conducted on the Tap Lake Mineral Claims, - November-December, 1983.

The purpose of this Assessment Report is to record the scope and results of the Diamond Drilling Surveys carried out on the claims for Assessment Work Requirements of the Department of Mines, Province of British Columbia.

1.0 PROPERTY

The Tap Mineral claims consist of 14 units of located mineral claims viz: -

	<u>Units</u>	<u>Record Number</u>	<u>Date</u>
Tap-1	9	807 (3)	6 March 1980
Tap 2	1	981 (12)	31 December 1980
Tap-3	1	982 (12)	31 December 1980
Tap-4	1	983 (12)	31 December 1980
Tap-5	1	984 (12)	31 December 1980
Tap-6	1	985 (12)	31 December 1980

The Reference Mineral Claims Maps are 921/2W and 921/7W, of the B.C. Department of Mines, see Fig.2. The claims are currently in good standing with respect to Assessment Work Requirements of the B.C. Department of Mines. The Geographical Co-ordinates are 50°15' North Latitude and 120°52' West Latitude.

The claims are within the Nicola Mining Division with recording office in Merritt, British Columbia and the Kamloops Land District with Registry in Kamloops, British Columbia.

## 2.0 ACCESS AND LOCATION

The claims are readily accessible by automobile from Merritt, British Columbia on paved Highway No. 8 to Lower Nicola then to the Craigmont Mines Turnoff for four miles, then by gravel road (Aberdeen Mine road) for 4.5 miles onto the property - a distance of some 14 miles north-westerly of Merritt, British Columbia, Fig. 3.

There are several logging roads on the claims area which provide access to most of the claims area.

The claims are accessible year-round except in heavy snow and fire-peril periods.

## 3.0 CLIMATE

Climatic conditions on the claims area are designated

Central Interior with dry summers and cold winters. Precipitation averages about 12 inches per year with some 24 inches of snowfall. Work may be carried out on the claims area year-round except in fire and heavy-snowfall periods.

#### 4.0 PHYSIOGRAPHY

The relief of the claims area is moderately rugged benchland except in the valley of Tyner Creek, which has incised a trough some 500-feet in width and 150-200 feet in depth. Most of the area is covered with Glacial Till and Gravels with bedrock outcrop being scanty, and only occurring on the slopes of the ridges. Depths of overburden range to over 20 feet.

The area has been extensively logged and now secondary-tertiary growth stands - both coniferous and deciduous growth. Elevations on the claims range from 2,000 to over 5,000 feet above sea level, see Fig. 3.

Tyner Creek provides the drainage system being a tributary of the Guichon Creek - Nicola River System.

Rights to the use of water and timber resources have to be obtained from the B.C. Government.

#### 5.0 DESCRIPTION - HISTORY

Historical reference to the claims area proper is scanty. There are old workings - including two adits now caved, filled trenches which probably relate to prospecting in the area at the Aberdeen Mine - 1907-1926 period.

Part of the Claims were held by Carolin Mines - 1965-1972 who were joined by Sonic-Ray Resources in 1972 in carrying out exploration work. During this period some 14 diamond-drill holes were drilled and various types of Geophysical Surveys were conducted. Some of these records are available for the 1972 drill programme, see Fig. 5. Because of the presence of native copper, difficulties were encountered in sampling the core. Afton Mines had the same problem.

Several anomalous areas were revealed, the significant ones located are shown on Fig. 5.

As shown on Fig. 2, the Tap claims group abut onto the holdings of Lawrence Mining Corp. who have obtained very encouraging results in their mineral investigations.

#### 6.0 RESOURCES

There is an abundance of resources needed for mining-exploration-development and operation within the claims area. These include power-water-timber-construction materials. Support facilities of labour-equipment-transportation-telecommunications as well as accommodation are available in Merritt-Kamloops and Vancouver. This property is within the intensive mining Highland Valley-Craigmont area and the resident population has mining appreciation.

#### 7.0 GEOLOGY

The main Geological Reference of the Claims is Memoir 249, Geological Survey of Canada, Geology and Mineral Deposits of Nicola Map Area, British Columbia by W.E. Cockfield, 1961, Map 886A, See Fig. 4. Other references are included in the Annual Reports of the B.C. Department of Mines.

The age chronology of the Geological sequence is recorded on Fig. 4 where it is evident that the predominant formation is Mesozoic-Jurassic Coast Intrusives-Granite-Grando-diorites and related. There are local bodies of Meta-volcanics and sediments of the Kamloops Group.

Structurally the area has been subjected to considerable faulting, shearing and fracturing related to intrusive activity, especially the Guichon Batholith. The trends of these vary from Northwesterly to Northeasterly. Dips are generally to the East. Accompanying these structural movements, there has been considerable influx of Quartz-carbonaceous-Chloritic material with Argilic alteration including Metallic Mineralization of Copper-Gold-Silver-Molybdenum-Tungsten, etc. The many operating mines in the area evidence similar commercial significance.

Detailed geological mapping is required of the claims area.

#### 8. DIAMOND DRILLING SURVEYS

Two Diamond drill holes were spotted and drilled to test the indicated Geophysical anomalous in zones DDH 83-1, see Fig. 5, was drilled to probe the indicated fault zone forming Tyner Creek. It was drilled to a depth of 300 feet at the declination of  $-45^{\circ}$ . Intersections of Sulphides and native Copper were obtained. See Annex A, the Core Log.

DDH 83-2 was drilled to investigate the westerly rim of the Geophysical anomaly. It was drilled to a depth of 700 feet, 75 feet of which was through overburden. Several sulphide mineralized zone interesections were obtained, see Annex B, The Geological Core Log.

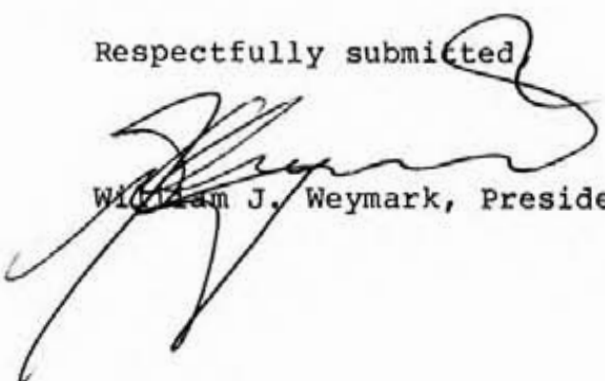
The drill core is stored at 1063 Balfour Avenue,  
Vancouver, B.C.

9. CONCLUSIONS AND RECOMMENDATIONS

Although no significant mineral zones were revealed in this limited Diamond drilling probing, confirmation was made of the sub-surface geological formation conforming to the Structural-Lithological characteristics in which commercial metallic mineralized zones have been located in the Merritt area.

Further testing and detailed Geological-Geophysical Surveys are recommended.

Respectfully submitted



William J. Weymark, President

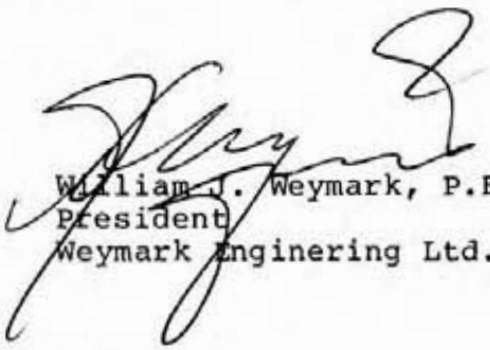


CERTIFICATE

I, William J. Weymark, P.Eng., Consulting Engineer, President of Weymark Engineering Ltd., of the District of West Vancouver, of the Province of British Columbia, hereby certify that:

1. I am a graduate of Mining Engineering of Queen's University Kingston, Ontario, B.Sc. 1940 and have been practising my profession for thirty-five years.
2. I am a member of the Association of Professional Engineers of the Province of British Columbia, the Consulting Engineers Division of the Association of Professional Engineers of British Columbia and the Association of Consulting Engineers of Canada.
3. I am a practising Consulting Engineer and reside at 3310 Westmount Road, West Vancouver, British Columbia.
4. I am a member of the Canadian Institute of Mining and Metallurgy and of the American Institute of Mining, Metallurgical and Petroleum Engineers and of the American Geophysical Union.
5. I have no direct or indirect interest whatsoever in Artina Resources Ltd. or in the Tap Mineral Claims Group, nor do I expect any interest, direct or indirect in this organization or property or any affiliate or any security of the company.
6. The findings of the accompanying report are based on my personal examination of the Tap Mineral Claims Group in 1982 and November-December 1983 and review of the available information relating to the Claims Area and the preparation of this report.

Dated at West Vancouver, British Columbia this 31st day of December, 1983.



William J. Weymark, P.Eng.  
President  
Weymark Engineering Ltd.

WEYMARK ENGINEERING LTD.

APPENDICES

## DIAMOND DRILL HOLE RECORD

MINE ARTINA RESOURCES LTD

DATE 20 December 1983

HOLE NO. 83 - 1 SIZE BQ

Co-ordinates of Collar

LOCATION TAP MINERAL CLAIM TAP #1 Collar of 88-1

DIRECTION SOUTHERLY

N. E.

DEPTH 300 Feet DIP -45°

STARTED 1 Dec 1983

POSITION SURFACE ELEV. COLLAR

FINISHED 10 Dec 1983

SECTION			LOG	ASSAY			
FROM	TO	RECY		NUMBER			
0	1110		CASING				
10	300		QUARTZ DIORITE, LIGHT GREY TO GREENISH TO DARK GREY				
			MEDIUM TO FINE GRAINED. Feldspathic and mafic minerals altered - Chloritic hematitic - epidote - Fractured slickensides slips carbonates etc. Scattered sulphides				
		19	0 - 29 - QD - Light Grey - Med grained - rusty limonitic jts, hematite bloom				
		20	29 - 49 The Same				
		19	49 - 68 The Same Ground				
		19	68 - 87 The Same, 76 - 79 Epidote alteration				
		20	87 - 108 The Same Epidote alteration - Red Hematitic alteration - slips				
		17	108 - 125 The Same - finer grained				
		20	125 - 145 The Same drusy - fault zone gouge	126	127		
		18	145 - 163 The Same medium grained - hematitic - epidote jts				
		18	163 - 181 The Same - ground				
		19	181 - 200 The Same - Finer Grained	207	218		
		19	200 - 219 The Same Finer Grained	207	218	Native Copper, sulphide	
		19	219 - 238 The Same - Epi alteration	222-24;	230-34		
		19	238 - 257 The Same Light Grey; 240 - 41 Dark alteration				
		19	257 - 276 The Same; epi alteration; Gra 263-65				
		19	276 - 295 The Same; Epi alteration 289-90; ground, Cu-sulphides				
		5	295 - 300 The Same Light Grey - fine mineralization				
			300 End of Hole				

TOTAL 284 % 94.6%

REMARKS:

DRILLERS H. Allen, Merrill

EXAMINED BY W. Weyman P. Eng.

ASSAYER DATE

(OVER)

# DIAMOND DRILL HOLE RECORD

MINE ARTINA RESOURCES LTD DATE 31 December 1983  
 HOLE No. 83 - 2 SIZE BQ Co-ordinates of Collar  
 LOCATION TAP MINERAL CLAIM 150 Feet SE 72-7  
 DIRECTION N 65° West N..... E.....  
 DEPTH 700 Feet DIP -60° STARTED 10 Dec 83  
 POSITION SURFACE ELEV. COLLAR..... FINISHED 31 Dec 83

SECTION			LOG	ASSAY			
FROM	TO	RECY		NUMBER			
0	147		Casing - Overburden				
147	700	540	QUARTZ DIORITE - LIGHT GREY TO GREENISH GREY in places pinkish sheen - Feldspathic mafics some alteration to chlorites Hematitic - epidote - rusty - Malachite carbonates - slickenside - scattered sulphides mostly medium grained				
			147 - 200 Quartz Diorite, some ground sections - sulphides				
			200 - 303 The Same - More sulphides and alteration 220-30				
			300 - 412 The Same, Ground 336-38; 364; 382-484; 405 - 410 Silicified Some Copper Stain				
			412 - 520 The Same - Ground; 444 - 470 Fractured Cu Stain				
			520 - 600 The Same - Ground 529 - 34; ; 546 - 47				
			600 - 700 The Same				

TOTAL % 540 553 = 97.6%

DRILLERS H. Allen Drilling, Merritt  
 EXAMINED BY William J. Weymark P. Eng.  
 ASSAYER..... DATE.....

REMARKS:

## ANNEX C

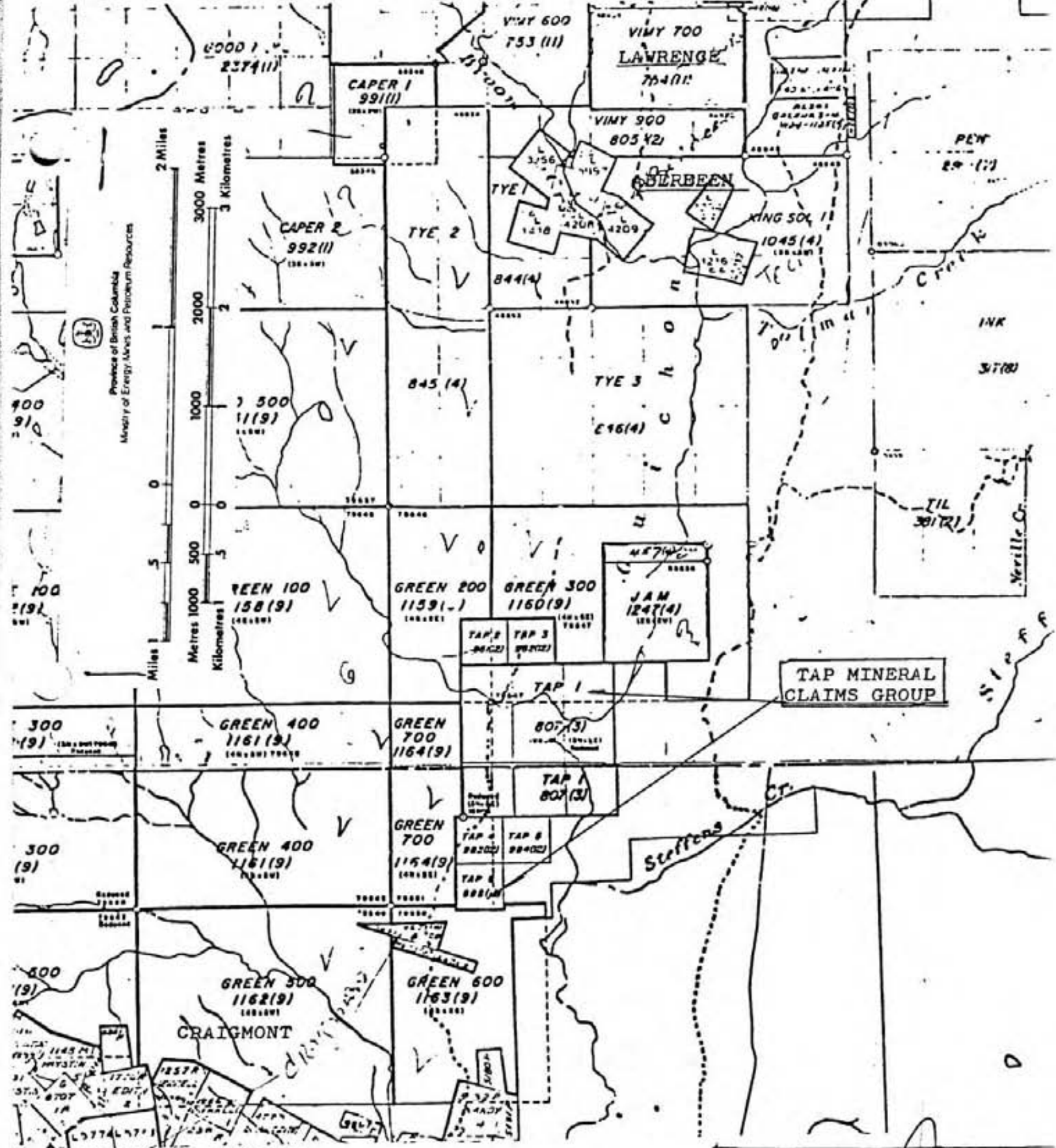
COST DISTRIBUTION

1.	William J. Weymark, P.Eng.	
	Field: 5,18,28 November; 19,20,29 December 1983, \$350.00 per day	\$2,100.00
	Office: 2-3 November; 19,22,30,31 Dec. 1983	2,100.00
	Expenses:	
	Motel and Meals	125.00
	Automobile: 2250 miles @ \$.30	675.00
2.	H. Allen Diamond Drilling, Box 270 Merritt, B.C. 1,000 feet B.Q. Diamond Drilling	20,000.00
3.	Weymark Engineering Ltd. Assembly of Field Data, Collation, Fairdrawing, preparation and finalization of Report	
	Printing	150.00
	Maps and Reproductions	50.00
		<hr/>
	Total	<u>\$25,200.00</u>



W.J. Weymark, P.Eng.

ILLUSTRATIONS

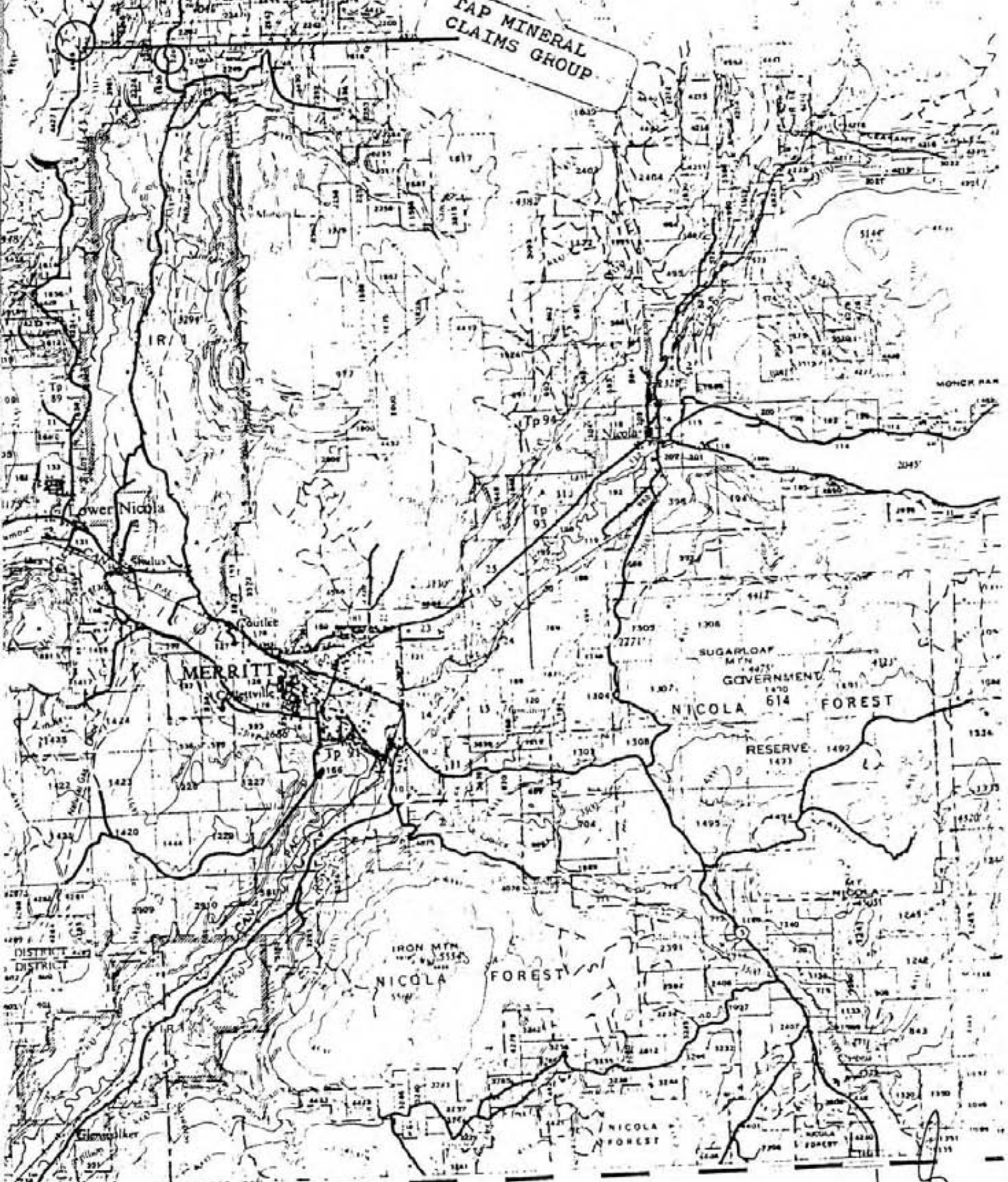


REFERENCE: MAPS NOS  
 92 I 2W and 92I/7W  
 B. C. Department of Mines

TAP MINERAL CLAIMS GROUP  
 NICOLA MINING DIVISION  
 claims LOCATION

FIGURE: 2

TAP MINERAL CLAIMS GROUP



REFERENCE: NTS MAP 92 ISE  
SCALE: One INCH = 2 Miles approx

TAP MINERAL CLAIMS GROUP  
NICOLA MINING DIVISION

ACCESS - TOPOGRAPHY

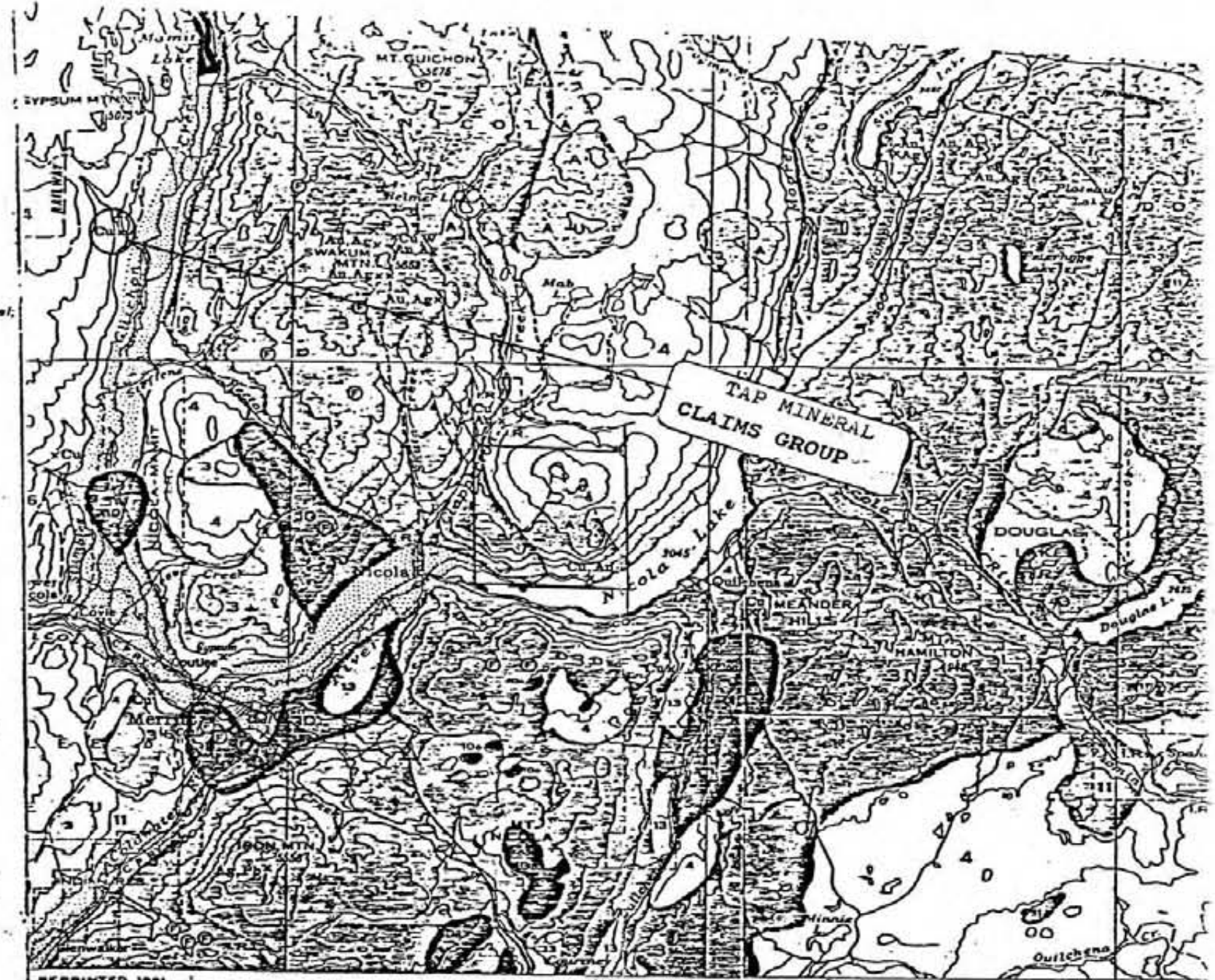
FIGURE:

5



LEGEND

- GENOZOIC**
  - TERTIARY**  
MIOCENE OR LATER
  - 13 Valley basalt: mainly vesicular basalt
  - MIOCENE OR EARLIER**  
KAMLOOPS GROUP
  - 11 Rhyolite, andesite, and basalt; associated tuffs, breccias and agglomerates. May include some younger basalts
  - 12 TRANQUILLE BEDS: conglomerate, sandstone, shale, tuff; thin coal seams
  - 10 COLDWATER BEDS: conglomerate, sandstone, shale, and coal; 10a, similar to 10, but may include younger beds
- MESOZOIC OR GENOZOIC**
  - CRETACEOUS OR TERTIARY**
  - 9 COPPER CREEK INTRUSIONS: granite, granodiorite, granite porphyry
  - 8 Andesite, basalt; picrite, agglomerate, breccia, and tuff; minor conglomerate and sandstone
  - 7 Conglomerate, sandstone, and shale
  - CRETACEOUS**
  - LOWER CRETACEOUS**  
KINGSVALE GROUP
  - 6 Rhyolite, andesite, and basalt; associated tuffs, breccias, and agglomerates; arkose, conglomerate
  - SPENCE BRIDGE GROUP
  - 5 Hard, reddish lava
  - JURASSIC AND(?) LATER**
  - 4 COAST INTRUSIONS: granite, granodiorite, gabbro; 4a, Iron Mask batholith; syenite, monzonite, diorite, gabbro; 4b, pyroxenite and peridotite. Probably not all of the same age, and may be in part post-Lower Cretaceous
  - TRIASSIC**  
UPPER TRIASSIC  
NICOLA GROUP
  - 3 Greenstone; andesite, basalt; agglomerate, breccia, tuff; minor argillite, limestone, and conglomerate
- PALÆOZOIC**
  - CARBONIFEROUS AND PERMIAN**  
CACHE CREEK GROUP (?)
  - 2 Greenstone, generally slightly sheared. May include some Triassic rocks (3)
  - 1A Argillite, quartzite, hornstone, limestone, sheared conglomerate, breccia, greenstone, and serpentine; 1A, limestone
  - A Chlorite schist, quartz-mica schist, amphibolite, and granitic intrusions, commonly gneissic and largely of Palæozoic age



REPRINTED 1981  
MAP MAY BE OBTAINED FROM THE  
GEOLOGICAL SURVEY OF CANADA, OTTAWA

REFERENCE: Geology By  
W.E. Cockfield 1939 1940  
1941 1943

MAP 886A  
**NICOLA**  
KAMLOOPS AND YALE DISTRICTS  
BRITISH COLUMBIA

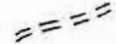






Scale, 251:40 or 1 Inch to 4 Miles

Approximate magnetic declination, 24° 30'

TAP MINERAL CLAIMS GROUP  
NICOLA MINING DIVISION  
REGIONAL GEOLOGY  
TCD: WJW Date: 20-2-  
SCALE: As Shown

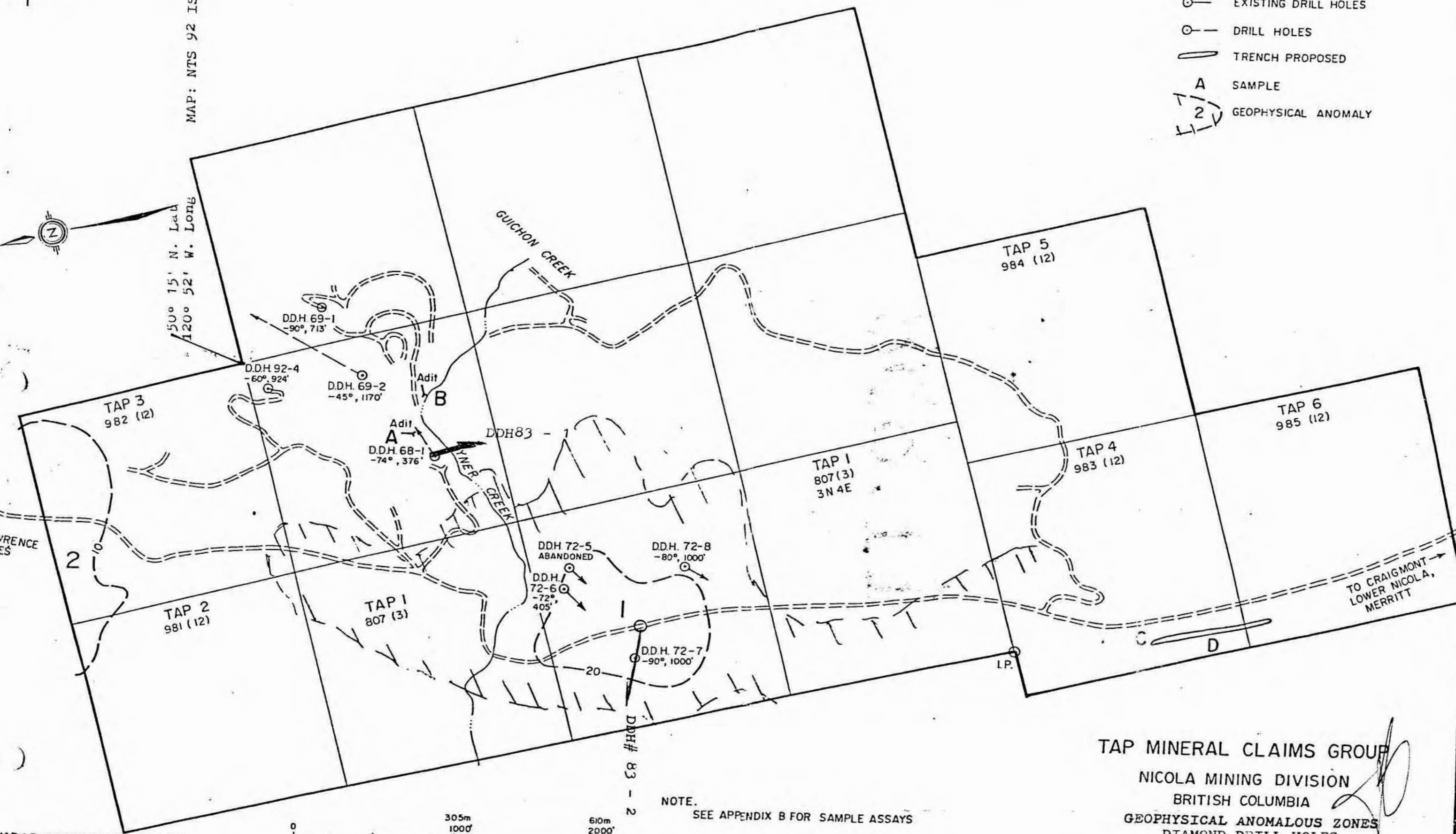
FIGURE: 4

**LEGEND**

-  ROADS
-  ADIT
-  EXISTING DRILL HOLES
-  DRILL HOLES
-  TRENCH PROPOSED
-  SAMPLE
-  GEOPHYSICAL ANOMALY

MAP: NTS 92 ISE

50° 15' N. Lat  
120° 52' W. Long



NOTE. SEE APPENDIX B FOR SAMPLE ASSAYS

TAP MINERAL CLAIMS GROUP  
NICOLA MINING DIVISION  
BRITISH COLUMBIA  
GEOPHYSICAL ANOMALOUS ZONES  
DIAMOND DRILL HOLES

Figure 5