

85 947-14689  
12/86

PROSPECTING REPORT

on the

DUN 1 to 4 MINERAL CLAIMS  
DUNN LAKE, B.C.  
KAMLOOPS MINING DIVISION  
NTS 92P/8E

Lat: 51° 25'-N

Long: 120° 06'-W

for

J. D. Murphy  
Owner & Operator

by

Jay D. Murphy, P. Eng.  
Consulting Geological Engineer

FILMED

1985 - 11 - 15

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

14,689

Claim Record Numbers

5984

5985

5986

5987

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## INTRODUCTION

The subject property consists of four only two post claims named DUN-1, 2, 3, and 4. The centre of the group is located approximately 750 m northeast of the southeast end of Dunn Lake (Plate No. 1). The claims cover the summit and steep west side of the north-south trending ridge running roughly parallel to Dunn Lake. Relief is strong, with elevations from less than 500 m at Dunn Lake, to over 1250 m at the ridge summit only one kilometre from the lake shore.

The DUN claims are easily accessible by the Yellowhead Highway to Little Fort, where the North Thompson River is crossed by ferry, then by 12 km of gravel road to the south end of Dunn Lake. Alternatively, the claims can be reached by a secondary road from Barriere along the east side of the North Thompson River, a distance of 30 kilometres. Approximately one kilometre south of Dunn Lake a little used trail branches east along the south side of Dunn Creek. At about 2 km the trail crosses to the north side of the creek on an old logging bridge and continues past a disused cabin at 3 km. The cabin is not habitable, but the immediate area, at an elevation of 700 m, served as a convenient campsite during current work. The area is close to the start of old footpaths and pack trails leading to the ridge crest and to the old Gold Hill and Windpass mine workings.

Geology of the claims area is shown by Geological Survey of Canada Map 1278A (1969) and Province of British Columbia Preliminary Map No. 53 (1983). Government mapping indicates the claims are underlain by basaltic rocks of the Fennell Formation of Devonian to Permian age. A prominent high angle thrust fault with general north-south trend passes about 2 km east of the subject claims (Plate No. 1), while the western contact of the granitic Baldy Batholith (Cretaceous) lies some 3.5 km to the east.

Bedrock exposure is good near the ridge crest, especially on the east side where steep to vertical rock cliffs up to 20 m in height are common. In many cases these exposures cannot be examined safely without the use of ropes and other rock climbing gear. The steep west side of the ridge rising from Dunn Lake is almost completely blanketed by scree from the upper slopes where steep but accessible outcrops are exposed. On the relatively flat ridge crest no outcrop is found due to a thin cover of overburden.

Little is known about previous work on the DUN claims area, but because of the proximity of the Gold Hill and Windpass properties, both of which saw underground development in the early 1930's, it is probable that the general area was well prospected at that time.

The DUN claims were staked primarily to tie onto the Gold Hill property in the expectation that some of the known gold vein structures would extend north from the Gold Hill ground into the subject claim group.

LEGEND

TERTIARY

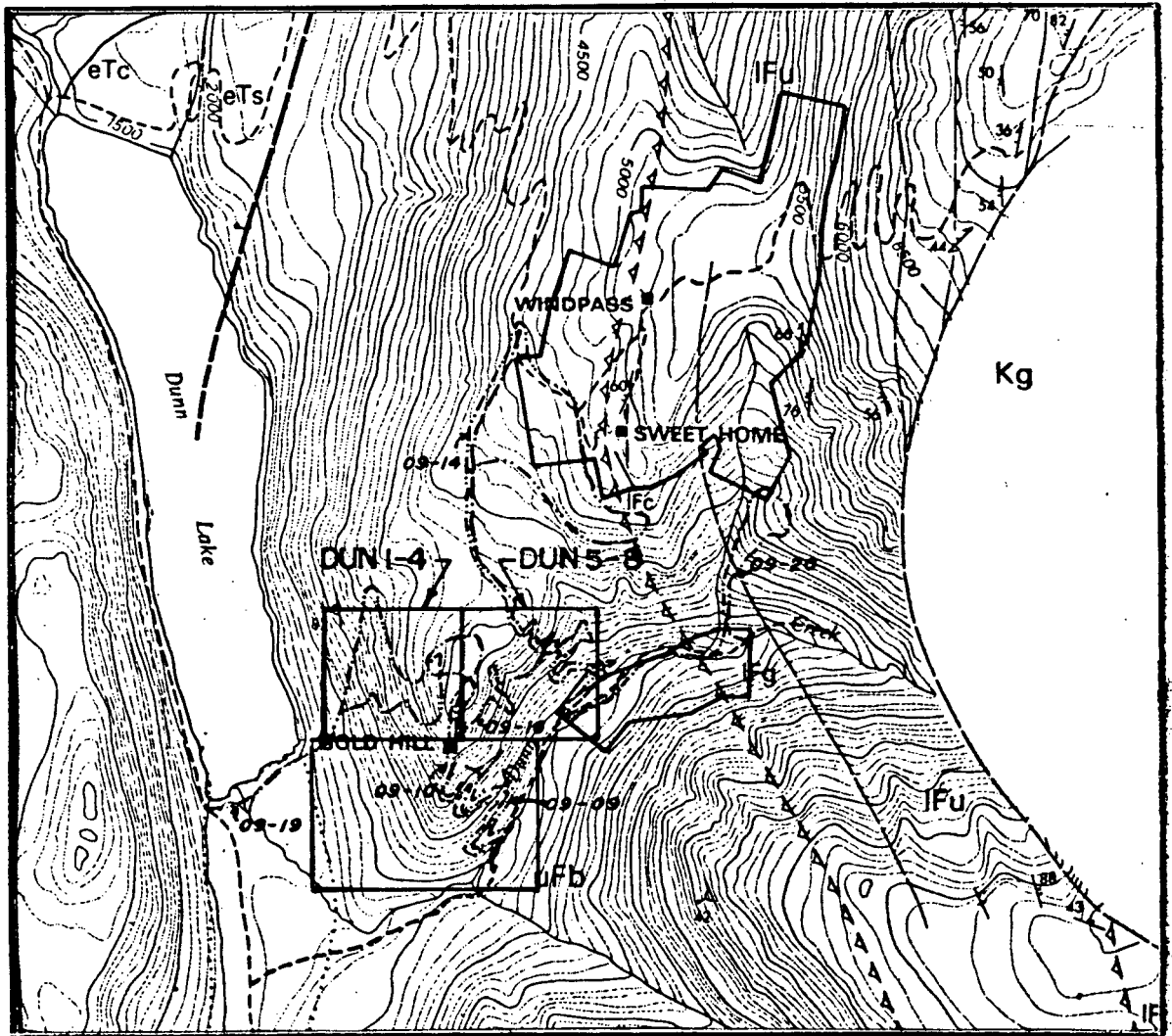
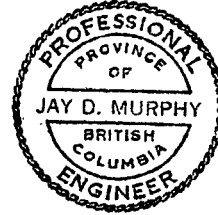
- eTs - andesite
- eTc - sandstone, shale, conglomerate

CRETACEOUS

- Kg - biotite granite, granodiorite

DEVONIAN TO PERMIAN

- uFb - pillowed & massive metabasalt
- IFc - chert, cherty argillite, slate
- IFg - gabbro, diorite, diabase
- IFu - undivided, mainly IFc & IFg



SYMBOLS

- Property boundary
- Secondary road
- Footpath
- Traverse route & date



<b>PLATE NO. 1</b>		
<b>DUN CLAIMS DUNN LAKE B.C. KAMLOOPS M.D. 92P/8E LOCATION MAP</b>		
J.D.M	85-11-14	1:50000

## SUMMARY & CONCLUSIONS

The subject claims and the adjacent DUN 5 to 8 group contain narrow north-south vein structures carrying galena and chalcopyrite mineralisation with low gold values.

On the Gold Hill property the strongest structures noted have an east-west trend. Similar structures were not observed in the DUN claims.

Field evidence indicates a dacite unit running through both the Gold Hill and DUN properties that may be an important host rock for vein type gold mineralisation.

## RECOMMENDATIONS

1. Map and sample the gold bearing vein zones within the DUN claims to determine size and grade of these structures.
2. Locate the contacts of the dacite unit within the predominantly basaltic Fennell Formation rocks to provide a guide for future exploration.

## FIELD PROCEDURES

A superficial examination was made of the Gold Hill workings to determine the characteristics of gold mineralisation in the vicinity of the DUN claims. The majority of subsequent work was concentrated on outcrop examination in the DUN claims and surrounding area. Topographic and geological maps on a scale of 1:100,000 were used for control. A property map of the Gold Hill claims on a scale of 1:1200 was used, together with compass and hip chain, to locate the various underground workings. An altimeter was used throughout to determine the elevation of any point on a traverse.

One rock sample was taken from the subject claims, two from the adjacent DUN 5-8 claims and one each from the Gold Hill and Windpass properties. Neither of the latter two samples was from the main zone of mineralisation. Sample locations are shown on Plate No. 2. Assay results are listed on Geochemical Lab Report G1382 attached.

DISCUSSION OF RESULTS

Sampling and assay results are summarized below in Table No. 1.

TABLE NO. 1

<u>SAMPLE</u>	<u>LOCATION</u>	<u>DESCRIPTION</u>	<u>ASSAY</u>		
			<u>AU (ppb)</u>	<u>AG (ppm)</u>	<u>PB (ppm)</u>
199	Gold Hill	Pyritic dacite	15	0.3	40
200	Windpass	Pyritic qtz in diorite	200	1.4	
201	DUN 5-8	Glassey quartz vein	110	0.2	
202	DUN 5-8	Quartz with sulphides	2840	2.6	
203	DUN 1-4	Quartz, old pit	260	220.0	

All three samples from the DUN claims indicate gold-silver bearing structures that warrant further investigation.

Previous work by others on the Gold Hill property defined both an east-west and a north-south system of veins. From the writer's examination it was concluded that east-west structures have the greatest economic potential. No such structures were defined on the DUN claims. The highest gold value obtained (Sample 202) was from a north-south vein structure in the DUN 5-8 claims.

Nearly all rocks seen within the DUN claims and the Gold Hill property consist of fine grained, light to medium green felsic material that contrasts sharply with dark green to black basaltic rocks seen on the Windpass property, along the east side of Dunn Lake and east of the DUN 5-8 claims. This unit was classified as dacite, and it appears that a sizeable band of this material trends north-south through the claims area. Insufficient work was done to accurately define the contacts of this unit, which appears to host most of the known gold bearing structures.

STATEMENT OF COSTS

Fieldwork on the DUN claims was carried out by Jay D. Murphy, P. Eng. between 1985-09-09 and 85-09-20. Drafting and reporting was completed between 1985-10-01 and 85-12-04.

Labour

6 days prospecting, sampling, travel and camp set up	@ \$250.00/day	\$1,500.00	\$
10 hrs. drafting and reporting	@ \$ 31.25/hr.	<u>312.50</u>	
Total Labour		<u>\$1,812.50</u>	1,812.50

Transportation

6 days 4 X 4 rental	@ \$ 25.00/day	\$ 150.00	
617 km	@ \$ .25/km	<u>154.24</u>	
Total Transportation		<u>\$ 304.24</u>	304.24

Food & Lodging

6 days	@ \$ 25.00/day	\$ 150.00	150.00
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Assaying

5 sample preparations	@ \$ 2.50/ea	\$ 12.50	
5 gold analysis	@ \$ 6.00/ea	30.00	
5 silver analysis	@ \$ 1.90/ea	9.50	
1 lead analysis	@ \$ .90/ea	<u>.90</u>	
Total Assaying		<u>\$ 52.90</u>	52.90

Report Preparation

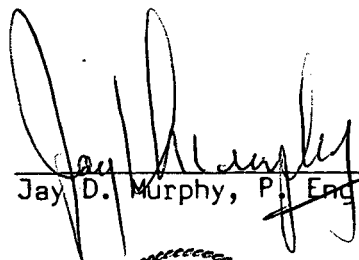
Typing		\$ 30.00	
27 photocopies	@ \$ .20/ea	<u>5.40</u>	
Total Report Preparation		<u>\$ 35.40</u>	35.40

TOTAL COSTS. . . . . \$2,355.04

STATEMENT OF QUALIFICATIONS

I. Jay D. Murphy, hereby certify:

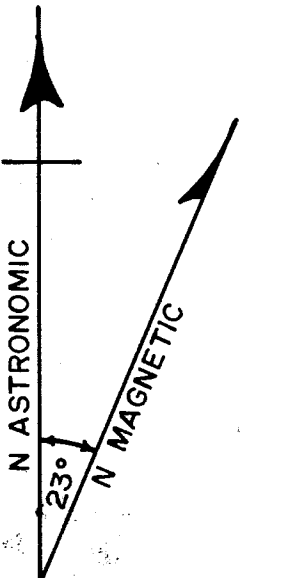
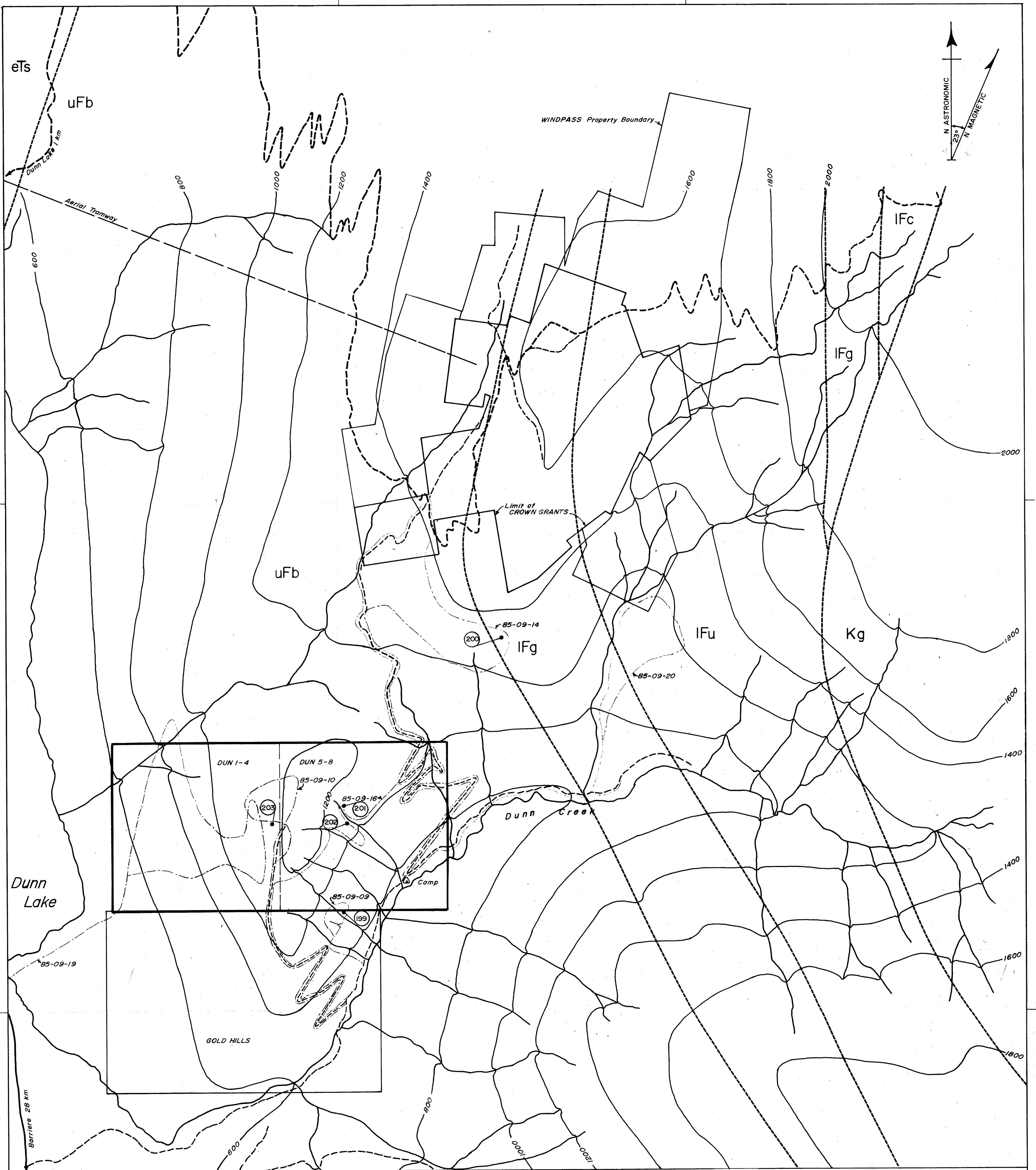
1. That I am a Consulting Geological Engineer, resident at 1335 Todd Road, Kamloops, B.C.
2. That I am a graduate from the University of Manitoba (1954) with a B.Sc. in Geological Engineering.
3. That I have practiced my profession continuously since graduation.
4. That I am a member of the Association of Professional Engineers of British Columbia and Ontario.
5. That the information contained in this report is based on a personal examination of the subject property.

  
Jay D. Murphy, P. Eng.









**LEGEND**

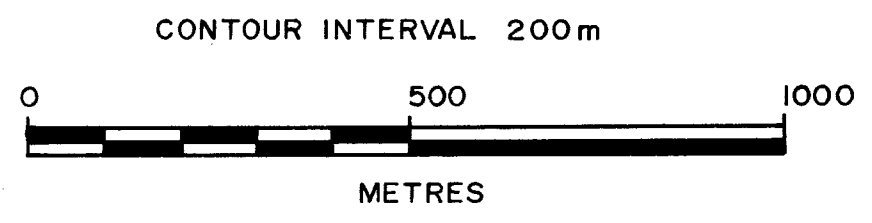
- TERTIARY**  
 [eTs] andesite
- CRETACEOUS**  
 [Kg] biotite granite
- DEVONIAN TO PERMIAN**  
 [uFb] pillowed & massive metabasalt  
 [IFc] chert, cherty argillite, slate  
 [IFg] gabbro, diorite, diabase  
 [IFu] undivided, mainly IFc & IFg

**SYMBOLS**

- (20) Sample location & number
- 85-09-19 Traverse route & date
- Geological contact
- Mine adit
- Main road - all weather
- 4x4 road
- Footpath

**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**14,689**



**PLATE NO. 2**

DUN CLAIMS  
 DUNN LAKE - B.C.  
 KAMLOOPS M.D. 92P/8E

**SAMPLE LOCATIONS**

