DICTATOR MINES LTD. (N.P.L.) NADIRA COPPER PROPERTY - ROB CLAIMS REPORT OF 1972 DRILL PROGRAM Latitude 48° 55'N Longitude 124° 35'W AUTHOR: A. M. Homenuke, Geologist P. ENGINEER: W. G. Stevenson DATE OF WORK: October 15 - December 8,1972 DATE OF REPORT: March 22, 1973

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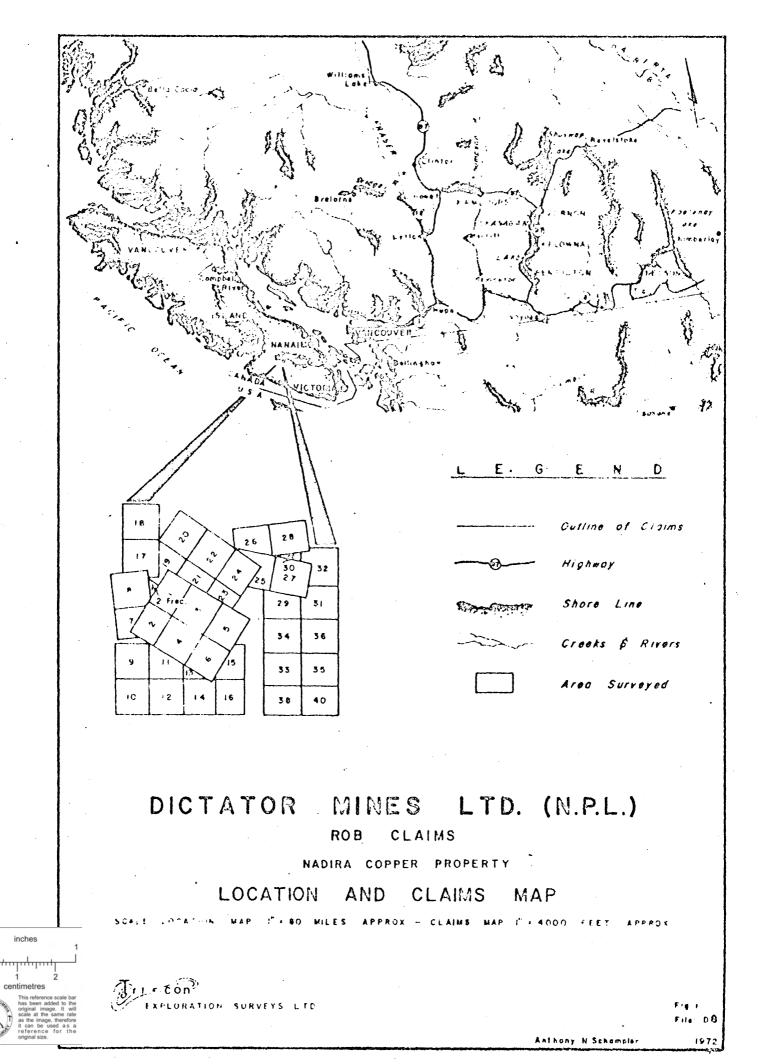
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APPENDICIES

- A. Drill Hole Plans and Sections.
- B. Drill Hole Logs.
- C. Assay Data
- D. Certificates

ILLUSTRATIONS

Figure 1	Claim and Location Map	Page 2
Figure 2	Drill Hole Plan	Appendix A
Figure 3	Drill Hole Sections	Appendix A



During the fall of 1972, Tri-con Exploration Surveys Ltd. carried out an exploration program on the Nadira Copper Property of Dictator Mines Ltd. (N.P.L.). A detailed report of this work was submitted in December 1972 (Homenuke and Stevenson, 1972). A diamond drill program was initiated by Dictator in October. Tri-con was retained to manage this program. Three holes totalling 1010 feet were drilled. Several chalcopyrite bearing skarn bodies were intersected, the best of which assayed 1.09% copper over 30 feet. The drilling was suspended due to weather.

Upon examination of the results of the above and of previous work, I have recommended an exploration program to further investigate the economic potential of the skarnified area.

CONCLUSIONS

In 1972, 1010 feet of diamond drilling was done in three holes on the Nadira Copper Property of Dictator Mines Ltd., (N.P.L.).

Several chalcopyrite bearing skarns were intersected, the best of which assayed 1.09% over 30 feet. The geology ranged from relatively simple to very complex, with complexity probably proportional to faulting.

The exploratory work recommended consists of preparation of topographic and geologic maps by plane table, investigation and correlation of earlier data, an induced polarization survey, and diamond drilling in conjunction with the results of these surveys.

LOCATION AND ACCESS

The Nadira Copper Property of Dictator Mines Ltd. (N.P.L.) is located 6 miles due west of Cowichan Lake on the west of de of the Parker Creek - Tuck Lake Valley. The property may be reached by restricted access logging roads from either Youbou or Port Alberni. The last couple of miles of road is relatively poor and a four-wheel drive vehicle is recommended, especially in wet weather. The location of the claim group is shown on Figure 1. PROPERTY

The property consists of the following claims. (See Figure 1.)

Claim Name	Record Number
Rob 1 - 24 inclusive	13470 - 13493 inclusive
Rob 25	15036
Rob 26 - 36 inclusive	15019 - 15029 inclusive
Rob 37	15160
Rob 38	15030
Rob 39	15161
Rob 40 - 44 inclusive	15031 - 15035 inclusive
Rob 45 - 48 inclusive	16379 - 16382 inclusive

The claims are owned by Amax Exploration Inc. and are under option to Dictator Mines Ltd. (N.P.L.).

PHYSICAL FEATURES

The area worked is on the east slope of a north-south ridge. The ridge is cut by several deep creek gullies. Slope angles are commonly $20^{\circ} - 30^{\circ}$ and in some cases even steeper. Elevation ranges from 800 feet to 2500 feet on the gridded area.

Vegetation is typical of virgin timber of the Coastal Western Hemlock zone - large diameter hemlock, fir and cedar with the undergrowth of salal, huckleberry, blackberry and devil's club concentrated in the gullies and open area.

HISTORY

Since it was first located in 1930, the Nadira Copper Property (or Southern Cross, as it was earlier known) has received attention from various sources.

During the 1940's and 1950's both surface and underground exploration was carried out. This work included approximately 14,000 feet of diamond drilling. In 1960 Nadira Mines Ltd. (N.P.L.) mined over 5,000 tons of ore, which was shipped to the Cowichan Copper Company's mill on Cowichan Lake.

The claims lapsed in 1968 and were restaked by Amax Exploration Inc., who carried out a reconnaissance program over the property and recommended that further work be done. Dictator Mines Ltd. (N.P.L.) optioned the property from Amax in 1971 and initiated an exploration program. During the fall of 1972 Tri-con Exploration Surveys Ltd. continued this program of detailed exploration. The program was restricted to the northwest section of the property and the results delimited an area of interest for further exploration. (For details of this work refer to Homenuke and Stevenson, 1972). The outlined area encompassed the known skarn deposits and a drilling program was initiated in November of 1972. Drilling was suspended due to weather in mid-December after completion of 1010 feet in 3 holes.

INTERPRETATION OF PREVIOUS DATA

Drill logs are available for most of the earlier diamond drilling. They lack detail and uniformity, but provide enough information when correlated with surface mapping to at least indicate some of the geological parameters to be further investigated.

The areal extent of copper mineralization has been fairly well outlined by geological mapping and geochemical sampling.

A study of information from this zone indicates that skarn bodies have been formed within a lenticular, stratigraphically controlled horizon which contains limestones and limey volcanic rocks. The skarns appear to be formed where feldspar porphyry dykes have cut this zone.

Further investigation should concentrate on the following problems:

- 1. What is the exact nature and extent of the faulting?
- 2. What is the form and extent of the limestone formations?
- 3. What are the chemical and physical conditions required for formation of these skarns?
- 4. Determine the possibility of there being more pervasive copper mineralization in the zone than has been observed to date.When the above information has been obtained it will be possible to

infer the economic potential of this portion of the property.

- 5 -

GEOLOGY

General

The geology of the property and the general area are discussed in detail in Christofferson and Mustard (1969) and Homenuke and Stevenson (1972). Briefly, the area consists of uptilted volcanic and sedimentary formations of the Triassic-Jurassic Vancouver Group. To the north of the property these formations are intruded by intermediate rocks of Jurassic Age belonging to the Island Intrusions.

On the property, intrusions are in the form of feldspar porphyry dykes. Where these dykes contact limestones and limey volcanic rocks, calc-silicate skarn bodies containing chalcopyrite have been formed.

Summary of Lithologies

Unit 1:	ANDESITE:	Flows and probably some fragmental rocks.
		Generally porphyritic.
Unit 2:	LIMESTONE:	Dense recrystallized limestone, minor
		argillaceous rocks.
Unit 3:	FELDSPAR PO	RPHYRY DYKES: Waxy, light green intermediate

- groundmass with white plagioclase phenocrysts.
- Unit 4: LEUCODIORITE DYKE: Similar to Unit 3, but with a fine grained phaneritic groundmass.

Unit 5: CALC-SILICATE SKARN: Ilvaite-epidote-garnet-actinolitemagnetite-chalcopyrite assemblages.

Structure

Following uplift of formations and intrusion of the dykes the area was heavily faulted in northwest-southeast and northeast-southwest directions. The faulting was accompanied by much minor shearing which has obscured many of the intrusive relationships.

Copper Mineralization

Copper occurs as chalcopyrite in patches, disseminations and along fractures in the calc-silicate skarn bodies. In sections of economic interest copper values are generally 1-2%, but higher assays have been recorded. Minor chalcopyrite also occurs in vesicles and occasionally in fractures in the volcanic rocks.

DIAMOND DRILLING

A total of 1010 feet was drilled in three holes on the northern section of Rob 4 mineral claim. BQ size core was obtained. The plans and sections of the drill holes are shown on Figures 2 and 3 in Appendix "A". Surface geology along the strike of the holes is shown on the sections. Logs of the drill holes are contained in Appendix "B".

The following is a hole-by-hole summary of the drilling results: ROB-72-1: Depth: 333' Bearing: 087° Dip: -50°

Skarn intersections: 58.5' - 91' (32.5 ft.)

(60'-90' average 1.09% Cu.)

159.4'-160.2' (0.8 ft.) Not assayed

Other: 10 ft. chalcopyrite-bearing andesite

288'-298' (10') average 0.78% Cu.

Assay results are shown in Appendix "C".

ROB-72-2: Same collar as ROB-72-1

Depth: 198' Bearing: 087° Dip: -75°

No significant intersections.

ROB-72-3: Depth: 479' Bearing: 090° Dip: -45°

Skarn intersections: 59'-68' (9 ft.) Not assayed.

179.5'-190' (10.5 ft.) Not assayed. 224'-234' (10 ft.) Not assayed.

Chalcopyrite in trace amounts.

INTERPRETATION OF DRILL HOLE DATA

From the logs and sections of the drill holes it is apparent that there are both simple and complex geological situations. Holes ROB-72-1 and 2 show little correlation with surface geology or with each other. Faulting is the probable answer to the lack of correlation, but is not the only possibility. There is also yet to be determined the exact nature of the limestone bodies - i.e. whether they are reefoid or bedded or possibly both.

ROB-72-3 on the other hand appears to show a relatively simple geological situation - skarn bodies formed along narrow limestone beds cut by a single vertical dyke and being relatively unfaulted. Good correlation is also apparent with known surface geology as one of the skarn bodies and the dyke may be projected from the drill hole to outcrops of the same. From this variation in complexity it becomes obvious that any further drilling will have to be located in relation to geology rather than on a grid basis in order to obtain optimum results.

RECOMMENDATIONS

To carry out ideas proposed in preceding sections, the following program will be necessary.

First of all, a geologic base should be prepared at a scale of 1" - 50'. As vegetation cover is tall and thick, present topographic maps prepared from airphotos are too "smooth" to be entirely suitable. Therefore, preparation of a topographic base by plane table is suggested. This would be carried out in conjunction with geological mapping.

Surface trenching by bulldozer, or even by hand would considerably enhance the geology. However, if the area is logged off in the near future (program underway by MacMillan Bloedel) trenching may not be necessary.

Diamond drilling as a continuation of the 1972 program, which was designed to delineate the zone of interest in a third dimension, could be continued coincident with the above surveys. An induced polarization survey would enhance the specific placement of these drill holes.

A slightly different approach would be to spot these holes with reference to surface skarn outcrops in order to obtain early information on economic potential.

Preliminary to the above, sections should be prepared from the old drill hole logs and interpreted to conform with more recent drilling. However, as assaying was not done on much of this core, information will be mainly geological rather than economic.

Respectfully submitted,

TRI-CON EXPLORATION SURVEYS LTD.

Amemaka

A. M. Homenuke, Geologist

REFERENCES

Christofferson, J. E., and D. K. Mustard, 1969, Geological report on the Rob Claims - Nadira Copper Property (Private report to Amax Exploration Inc.)

Dawson, J. M.,

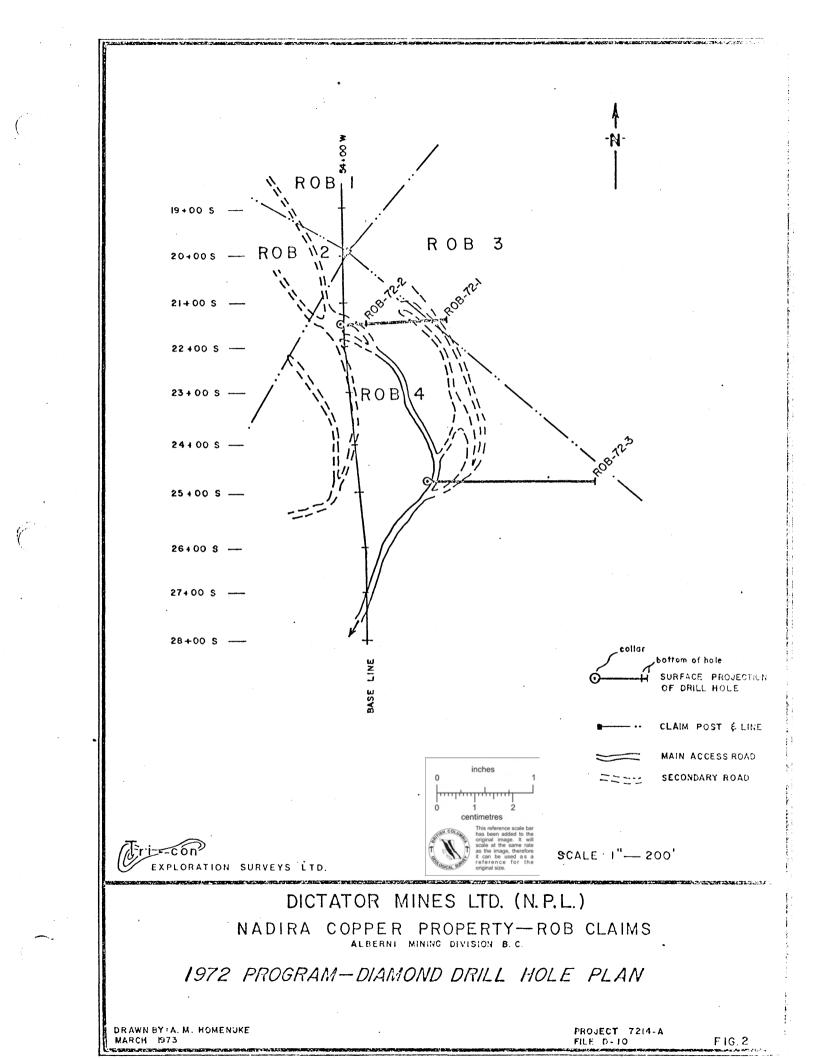
1972, report on the Nadira Copper Property (for Dictator Mines Ltd. (N.P.L.)

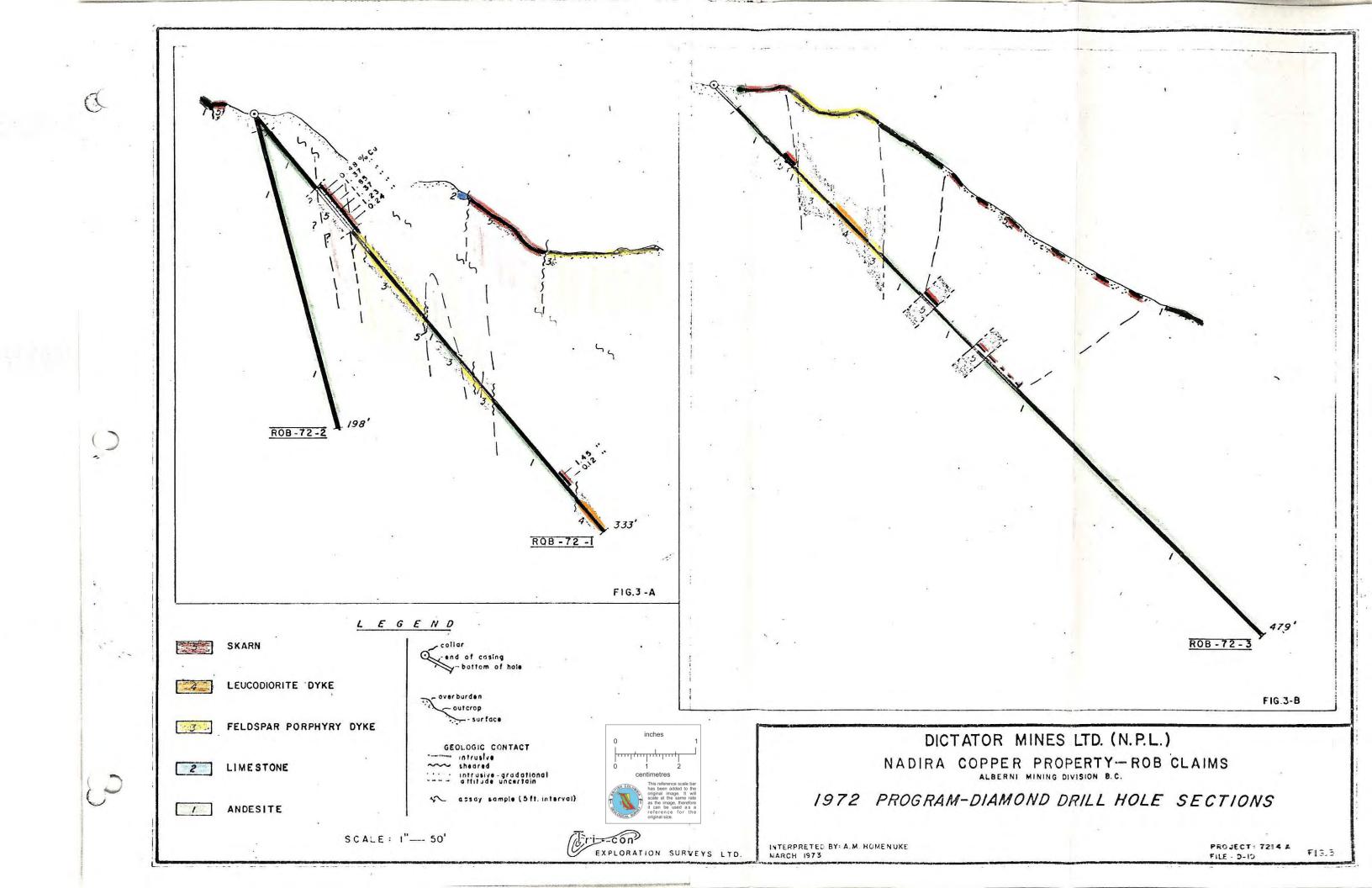
Homenuke, A.M. and W. G. Stevenson, 1972, Geological, geochemical and geophysical report, Rob Claims - Nadira Copper Property (Assessment report for Dictator Mines Ltd. (N.P.L.))

Private files of Amax Exploration Inc.

Drill hole plans and sections.

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Drill hole Logs.

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			-garnet; irregular patches CaCO	to										
			'z"; disseminated chalcopyrite and]									
			magnetite, minor hematite.]									
			69.2-70.4: similar to above but slight	ly] .									
			oxidized with limonite and malach	ite		,								
			on fracture surfaces; chalcopyrit			•								
			replacement blotches to 1"; minor											
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			arly into heavy magnetite skarn.		1									
			70.4-77: very coarse grained epidote -]									
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			' associated with ilvaite; 75-76:]		\square							
			coarser patches in limey zone; mi	nor										
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			77-88: epidote - actinolite - garnet	skarn										
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			pyrite with minor ilvaite; few		1	•								
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			calcite banding 40° C.A.		1						1			
	1		88-89: 4" magnetite zone, a¥e.25° C.A	•;	1				1					
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91	106		Calc-ANDESITE: slightly porphyritic, plagioclase and minor augite. 91-98: highly fractured; some fractures epidotized; chloritized mafics. 106: sheared contact 70-75° C.A.									
106	159.4		FELDSPAR PORPHYRY DYKE: light green, waxy, aphanitic groundmass; plagioclase laths 2 - 4 mm. 120: 6" fractured and sheared zone;	Box 5 Box 6	109–129 129–150					·		
		·	numerous fine, white calcitic fractures. 158.6-159.4: brecciated (fault?) , 159.4: contact with skarn; sheared, 40° C.A.	Box 7								
159.4	160.2		SKARN: Epidete-hematite-actinolite; minor chalcopyrite; (probably formed in fractured volcanic)		•							
160.2	190		ANDESITE: Augite-plagioclase porphyritic; occasional epidote amygdales with trace chalcopyrite; calcitic fractures relatively unsheared.	Box 8	173–195							

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			190: 2" reddish rock, 65° C.A.										
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215.5	227		FELDSPAR PORPHYRY DYKE: sheared contact, 65°C.	, _P	10	218-220	+++			┠──┼			
1212.2			FELDSPAR FURFRIKI DIKE. Sheared concact, 05 0.	<u>*</u> - "	OX TO	210-233	H			}{			
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227.4	233.3	 	ANDESITE: black and gray; very coarse grained	1			┝-┼-┼						
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233.5		·	ANDESITE: aphanitic (chilled?) grading to	— F	Box 11	239-262	\square					└──┤─	
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rom to % DESCRIPTION 0 19 0 -casing-					P -4J.J	CORRECTED					De	<u>c./72</u>		/		
19 59 9-40 ANDESITE: plagioclase - augite porphyritic; liney, Box 1 19-48 607 especially on fractures; some sections 40 + slmost aphanitic, others up to 60% 99+ % porphyritic; minor epidote 99+ % porphyritic; minor epidote 10 11/0 site, magnetite; traces of chalco- 11 11/0 site, magnetite; traces of chalco- 11 11/0 site, magnetite; traces of chalco- 11 10/0 sec contact, sheared 45° C.A. 11 10/0 sec contact, sheared 45° C.A. 11 10/0 sec contact, sheared 45° C.A. 11/0 site: aphanitic (vitrified?); few feldspar 11/0 penocrysts. 11/0 sec contact is not parallel to banding in 11/0 site: aphanitic. 11/0 1/2 FELDSPAR PORPHYRY DYKE: intrusive contact 45°C.A. 11/0 1/2 FELDSPAR PORPHYRY DYKE: intrusive contact 45°C.A. 11/0 1/2 FELDSPAR PORPHYRY DYKE: intrusive contact 45°C.A. 11/0 1/2 scarn) 11/2 11/2 11/2 11/2 11/2 11/2 11/2 11/2 11/2 11/2		•	RECOV.	DESCRIPTION				SAMPLE	Length		ANALY	rsis	1 1			
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DF	RILL H	OLE F	HOLE NUMBER ROB-72-3	EXPLORATION SURVEYS LTD
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LO	CATION		EL. at COLLAR BRG CORRECTED	
10	B NO.		CORE SIZE DIP CORRECTED	DATE
1	TAGE	RECOV.	DESCRIPTION	SAMPLE ANALYSIS
161	179.5		ANDESITE(?): lighter groundmass than above;	
			plagioclase - augite porphyritic; Box 7 163-186.5	
			chloritic alteration; pinhole Yesicles	
			with glassy rims; (tuffaceous?)	
79.5	190		SKARN: epidote - garnet - ilvaite; 5% calcite;	
			minor magnetite and chalcopyrite	
			associated with ilvaite; ilvaite in(?)	
			cavity fillings to 'z" and patches to a	
			few inches.	
			181-183: massive fine-grained epidote.	
			183-184: only slightly altered andesite.	
190	224		ANDESITE: medium grey; up to 25% feldspar Box 8 186.5-210	
			phenocrysts	
			190-208: skarnified; epidote blobs,	
			disseminations and fracture fillings. Box 9 210-232	
			217-218: amydaloidal	
			,	
224	234		SKARN: epidote - garnet - actinolite: grades	
			to epidotized volcanic; minor magnetite, Box 10 232-254	
<u></u>		·	ilvaite, calcite, trace of chalcopyrite.	
234	479		ANDESITE: various textures (and phases or flows)	
			from dense grey aphanitic to altered	
			porphyritic; pervastif epidote. (some	
			of rock may be agglomeratic or	
			tuffaceous) Well fractured and	
			generally limey.	

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DRILL I	HOLE R	ECORD HOLE NUMB	ER ROB-72-	-3			EXPLOR	•	SURVEYS	LTD		
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FOOTAGE from 1 to	RECOV.	DESCRIPTION				SAMPLE NUMBER	ngti)	ANAL	rsis	1 1		
		252: trace of malachite										
		252.5: 2" vitrified section (or flow	Box 11	254-277.5								
		surface?)										
		253-254: mylonitic fault zone	Box 12	277.5-300								
		255: ½" x 1" irregular but conformat	le Box 13	300-321				·				
		chalcopyrite patch; traces of chal	Lco- Box 14	321-341								
		pyrite in fractures, generally with	h Box 15	341-364								
		calcite	Box 16	364-387								
		269-271: radiating feldspar phenocrysts	Box 17	387-411								
		(could this be the "chysanthemum	Box 18	411-433								
		stone" which marks the top of the										
		Karmutsen?)	30x 19	433-464								
		277: Calcite-filled fault 35°.C.A.	Box 20	464-479								
		284: 1" epidote - quartz fracture f:	llling									
		25 [°] C.A.										
		301-312: coarser light grey porphyritic		ĺ								
		section; not easily discernible										
		plagioclase laths (30%) in slight.	Ly .									
		vitreous groundmass.			11							
		330-341: Highly fractured and sheared zo	one;									
		calcitic, epidotic, trace of hemat	ite									
		339: mud seam and 3" epidote 25° C.	λ.									
		362-364: vitrified, brecciated (flow										
	1	surface?); minor hematite in fract	ures.	·	11	1						
		383: 3" vitrified										
		383-479: lithology essentially unchanged	1									
		but generally more compact (i.e. 1										
	<u>i</u>	fractured) and regular.								1 1		
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APPENDIX C

ASSAY RESULTS: ROB-72-1

(all samples from 5-foot sections of core)

Sample No.	From		<u>To</u>	Copper	oz/ton Silver	% Zinc
5651	60	-	65	0.48	0.06	
5652	65	-	70	1.37	0.10	
5653	70	· •	75	. 1.85	0.12	< 0.01
5654	75	-	80	1.37	0.03	
5655	80	-	85	1.23	0.04	
5656	85	-	9 0	0.24	0.01	
5657	288	-	293	1.45	0.15	
5658	293	-	298	0.12	0.03	

Certificates

1. A. Homenuke, Geologist

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2. W. G. Stevenson, P. Engineer

1. STATEMENT OF OPERATOR'S QUALIFICATIONS

I, Alexander M. Homenuke, DO HEREBY CERTIFY:

- That I am a graduate in Mining Technology from the British Columbia Institute of Technology.
- That I have further studied Geological Engineering at the Colorado School of Mines.
- That I have been employed by Tri-con Exploration Surveys Ltd. since June of 1969 in mineral exploration as a geochemical, geological and geophysical operator.
- That I am presently employed by Tri-con Exploration Surveys Ltd. in the capacity of Geologist.

DATED at Vancouver, British Columbia this 22nd day of March, 1973.

TRI-CON EXPLORATION SURVEYS LTD.

A. M. Homenuke, Geologist

2. CERTIFICATE

I, William G. Stevenson, DO HEREBY CERTIFY:

- That I am a Consulting Geological Engineer with offices at Suite 209 Stock Exchange Building, 475 Howe Street, Vancouver 1, B.C.
- That I am a graduate of the University of Utah, 1946, with a B.Sc. Degree.
 - That I am a registered Professional Engineer in the Association in British Columbia.
- That I have practised my profession for 22 years.
- That I have no direct, indirect or contingent interest in the Rob Claim Group or in the securities of Dictator Mines Ltd. (N.P.L.) nor do I intend to receive any such interest.
- That I have reviewed a report dated March 22, 1973, based on work conducted by Tri-con Exploration Surveys Ltd.

DATED at Vancouver, British Columbia, this 27 day of MARCh, 1973

W. G. STEVENSON & ASSOCIATES LIMITED Consulting Geologists

W. G. Stevenson, P. Engineer