

REPORT ON THE
MAGNETOMETER SURVEY
SOUTHERN CROSS PROPERTY
ALBERNI MINING DIVISION, B. C.

924/15E FOR

DICTATOR MINES LIMITED (N. P. L.)

BY

ASHTON W. MULLAN, B.Sc.

AND

PHILIP G. HALLOF, Ph.D.

NAME AND LOCATION OF PROPERTY

SOUTHERN CROSS PROPERTY

ALBERNI MINING DIVISION, B. C.

48° 55' N LATITUDE, 124° 35' W LONGITUDE

DATED STARTED: June 12, 1971.

DATE FINISHED: June 17, 1971.

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REPORT ON THE
MAGNETOMETER SURVEY
SOUTHERN CROSS PROPERTY
FOR
DICTATOR MINES LIMITED (N. P. L.)

1. INTRODUCTION

A magnetometer survey has been carried out by Dictator Mines Ltd. on their Southern Cross property. The property is located in the southern part of Vancouver Island, about 6 miles west of Cowichan Lake in the Alberni Mining Division B.C. The property is located in the NW quadrant of the 1^o quadrilateral whose southeast corner is at 48^o N latitude and 124^o W longitude.

The property is accessible from the village of Lake Cowichan over about 40 miles of logging roads. The claims are located on timber licenses owned by McMillan, Bloedel Ltd. and B.C. Forest Products Ltd. Road permits must be obtained from the respective Companies.

This report has been written at the request of Dictator Mines Ltd. The report is based on data obtained by the companies' own geophysical crew using a McPhar M-700 magnetometer; serial number 7081.

2. Claim Description

The magnetometer survey covered all or part of the following claims in the manner shown on Figure #2.

<u>CLAIM NAME</u>	<u>RECORD NUMBER</u>	<u>TAG NUMBER</u>
ROB 27	15020	595961
ROB 29	15022	595963
ROB 30	15023	595964
ROB 31	15024	595965
ROB 32	15025	595966
ROB 33	15026	595970
ROB 34	15027	595968
ROB 35	15028	595969
ROB 36	15029	595967
ROB 46	16380	127596M
ROB 48	16382	127598M

Registered owner of Claims: **Amat Exploration Inc.**

F.M.C. 80469.

A verbal agreement has been reached to option the above listed claims to Dictator Mines Ltd. (N.P.L.) and the legal letter of agreement is expected to be signed shortly.

3. Geology

The general geology of the property is outlined in a report by Mr. J.M. Dawson of Versatile Mining Services Ltd., dated May 4, 1971.

The property is underlain by a volcanic - sedimentary series of the Vancouver Group, Treassic age. This series consists of intermediate to basic volcanics, limestone and graywacke. The above formations have been intruded by a younger diorite.

On the property the central and west portion is underlain by volcanic rocks with probably some interbedded limestone. The diorite has intruded these formations in the vicinity of Parker Creek along the east boundary of the grid.

4. Presentation of Results

The results of the magnetometer survey are presented on figure #1. The values are expressed in gammas. The magnetic values have been profiled at a scale of 1 inch equals 300 gammas with the line in each case representing a level of 400 gammas.

5. Discussion of Results

The area covered by the magnetometer survey is one of moderate magnetic relief. The base level for this grid area is about 400 gammas. There are a number of sharp magnetic peaks of from 900 to 2500 gammas relief, and a few magnetic lows close to zero gammas.

There are several possible strike correlations, as there are with most magnetic surveys, however, the strongest indication is just west of north. Some of the more obvious magnetic axes have been indicated by dashed lines on figure #1.

In general, the magnetic level is higher over the west 2/3 of the grid. This higher level is probably caused by the intermediate to basic volcanics which are believed to underlie much of this area. The cause of the sharp magnetic peaks is not known and they could be caused either by basic dykes, skarn zones, or local concentration of magnetite all of which occur elsewhere on the property.

The eastern 1/3 of the property generally displays a lower magnetic

level and could be underlain by the dioritic intrusive. Again the magnetic peaks in this area could be caused by sources similar to those described above.

Local areas of low magnetic level and little relief occur east of the baseline on lines 0 + 00 and 4S, 32S and 36S and on 48S. These areas should be inspected carefully on the ground for evidence of possible alteration in an intrusive.

There is evidence of off-setting of the magnetic axis in several locations; a more obvious one being west of the base line between lines 24S and 28S. This may be a result of an enechelon arrangement of the magnetic bodies or could be the result of cross faulting.

6. Summary and Recommendations

A magnetometer survey has been carried out in part of the Southern Cross property by Dictator Mines Ltd.

The area shows moderate relief with considerable local variation. A number of magnetic highs of from 400 to 1500 gammas above base level seem to strike roughly across the property in a NNW direction. Skarn zones, dykes and local concentrations of magnetite in volcanics occur elsewhere on the property and could be the source here.

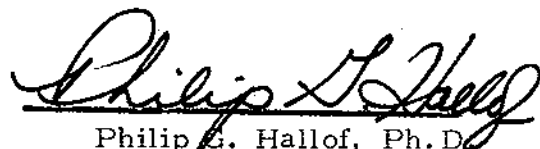
A lower magnetic base level occurs along the east 1/3 of the property and likely outlines the diorite intrusive.

Careful geological mapping using the same grid would likely help explain many of the magnetic features. The magnetic map should also prove useful in correlating the observed geology.

It is understood that it is planned to extend the magnetometer survey over the remaining portion of the property. On completion of this work it would be desirable to contour the results of the entire magnetometer survey including the portion covered by this report.



A. W. Mullan, P. Eng.
Geologist.


Philip G. Hall of, Ph. D.
Geophysicist.
per P.F.

ASSESSMENT DETAILS

PROPERTY: Southern Cross

MINING DIVISION: Alberni

SPONSOR: Dictator Mines Ltd. (N.F.L.)

PROVINCE: British Columbia

LOCATION: 6 Miles West of Cowichan Lake on Vancouver Island

TYPE OF SURVEY: Magnetometer

INSTRUMENT: McPhar M-700

OPERATING MAN DAYS: 10

DATE STARTED: June 12, 1971

EQUIVALENT 8HR. MAN DAYS: 15

DATE FINISHED: June 17, 1971

CONSULTING MAN DAYS: 2

NUMBER OF READINGS:

DRAUGHTING MAN DAYS: 1

LINE-MILES:

TOTAL MAN DAYS: 18

CONSULTANTS:

A. W. Mullan, 1440 Sandhurst Place, West Vancouver, B.C.

FIELD OPERATOR:

John H. Hachey, 870 Rosemary Ave., Richmond, B.C.

FIELD HELPER:

Kim Dunfield, 4411 West 11th Ave., Vancouver, B.C.



DATED: June 23, 1971.

STATEMENT OF QUALIFICATIONS

John H. Hachey - Age 33.
870 Rosemary Ave., Richmond, B.C. - Field Operator, Magnetometer Survey.

Sept. 1956 - Oct. 1958 S. Francis Xavier U., Antigonish, N.S.
Geology Major.
Sept. 1959 - May 1960 Carleton U. Ottawa, Ont. Geology Major.
Sept. 1963 - May 1964 U.B.C. Geology Major

Geology Credits: Historical Geology,
Physical Geology,
Mineralogy & Crystallograph,
Petrology,
Optical Mineralogy,
Structural Geology,
Field Geology - U.B.C.

Summer 1957: American Metals Inc., Bathurst area, N.B. - assist. geologist
with Dr. J. R. Loudon

Summer 1958: G.S.C. - Westcoast Nfld. Sr. Assist. Geolog. with Dr. David
Baird.

Summer 1960: Southwest Potash Corp. St. Elias Range with P. O. Hachey,
P. Eng. assist geologist.

Summer 1961: Southwest Potash Corp. Stikine River Area with J. R. Loudon.
Assist. Geologist.

Dec. 1961-May/63: Inco - Thompson, Man. Mine Geologist.

Summer 1963: South Seas Mining - Trojan Mine - Geologist.
Northwest Ventures Highland Valley - Assist. Geologist.

May/64 - Nov/64: Phelps Dodge Corp.
Taseko Lake area & Terrace area - Prospector for John Deleen

Dec. /64-Apr. /66: Canex, Salmo. Mine Geologist.

May 1966-Aug. /69: Silver Standard Mined. Geologist.

1967. Dynasty Area 1966
Pelly River - Greenwood, Princeton, Tyaughton.
and Cariboo Area.

1968. Greenwood, Okanagan, Princeton, Smithers - Manager
Morisetown Ag. property.

1969: Field Manager at Goosely Lake south of Houston.

Aug. 1969: Self - employed prospector and director Dictator Mines Ltd.
(N. P. L.)

J. H. Hachey

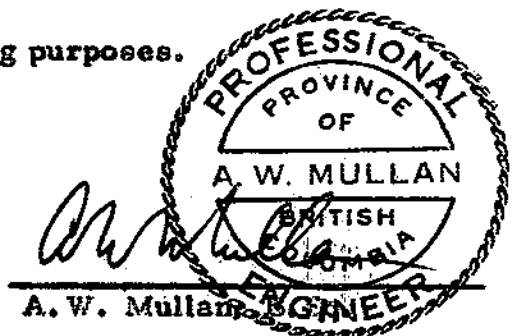
CERTIFICATE

I, Ashton W. Mullan, of the City of Vancouver, in the Province of British Columbia, hereby certify:

- 1. That I am a geologist and a fellow of the Geological Association of Canada with a business address at 837 West Hastings St., Vancouver, B.C.**
- 2. That I am registered as a member of the Association of Professional Engineers of the Province of Ontario and British Columbia.**
- 3. That I hold a B.Sc. degree from McGill University.**
- 4. That I have been practising my profession as a geologist for over twenty years.**
- 5. I have no direct or indirect interest, nor do I expect to receive any interest directly or indirectly, in the property or securities of Dictator Mines Ltd. or any affiliate.**
- 6. The statements made in this report are based on a study of published geological literature and unpublished private reports.**
- 7. Permission is granted to use in whole or in part for assessment and qualification requirements but not for advertising purposes.**

Dated at Vancouver

This 23rd day of June 1971.



A. W. Mullan

CERTIFICATE

I, Philip George Hallof, of the City of Toronto, Province of Ontario, do hereby certify that:

1. I am a geophysicist residing at 5 Minorca Place, Don Mills, (Toronto), Ontario.
2. I am a graduate of the Massachusetts Institute of Technology with a B.Sc. Degree (1952) in Geology and Geophysics, and a Ph.D. Degree (1957) in Geophysics.
3. I am a member of the Society of Exploration Geophysicists and the European Association of the Exploration Geophysicists.
4. I am a Professional Geophysicist, registered in the Province of Ontario, the Province of British Columbia and the State of Arizona.
5. I have no direct or indirect interest, nor do I expect to receive any interest directly or indirectly, in the property or securities of Dictator Mines Limited or any affiliate.
6. The statements made in this report are based on a study of published geological literature and unpublished private reports.
7. Permission is granted to use in whole or in part for assessment and qualification requirements but not for advertising purposes.

Dated at Toronto.

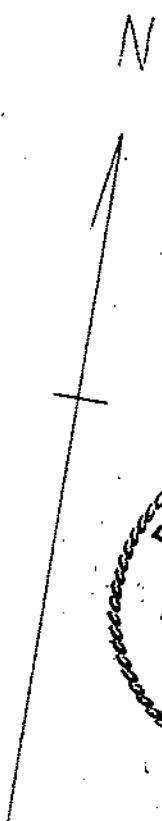
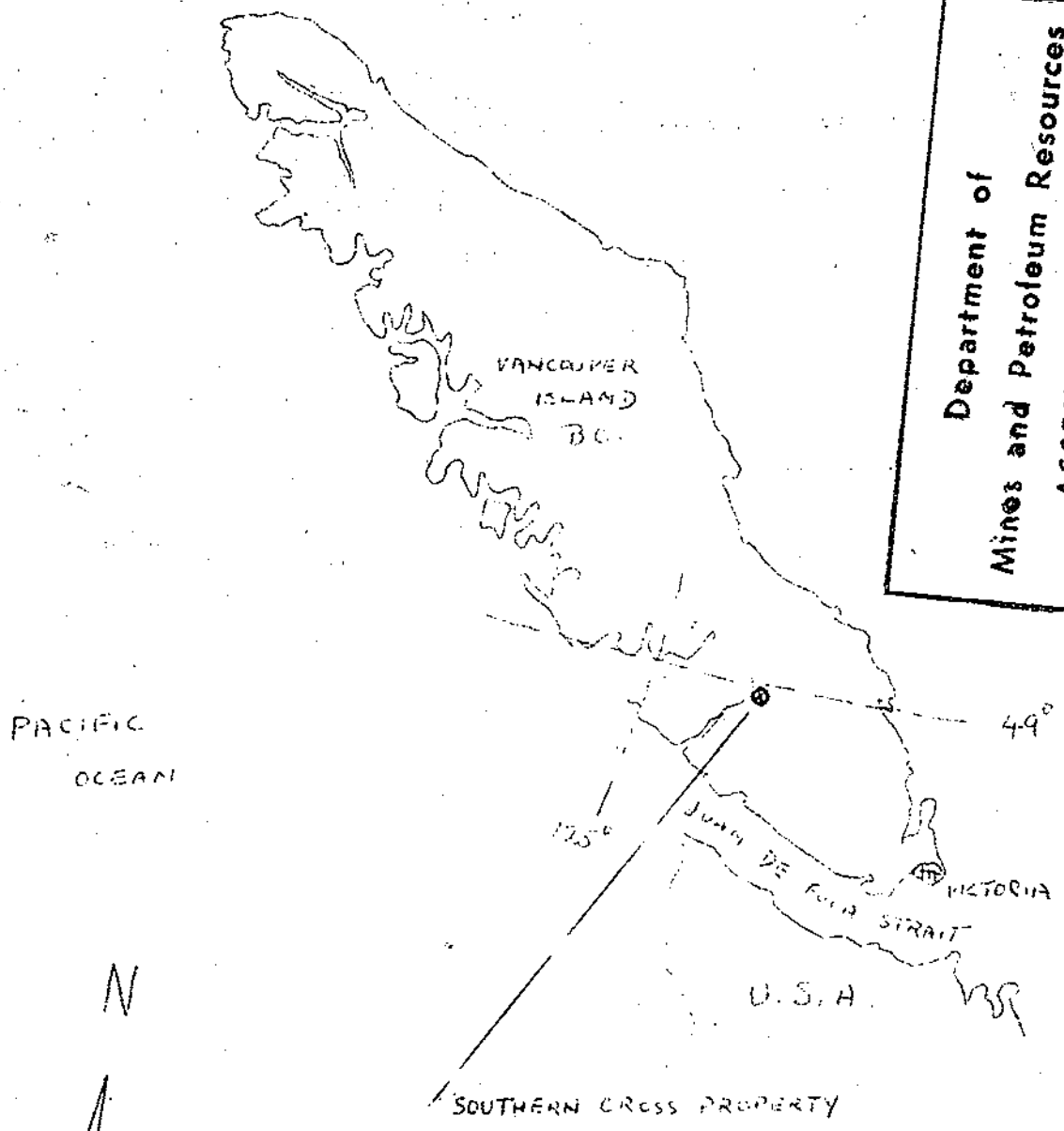
This 23rd day of June, 1971.

Philip G. Hallof,

Philip G. Hallof, Ph.D.

per P.F.

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 3098 MAP #1



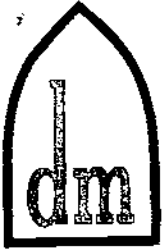
DICTATOR MINES LTD. (N.P.L.)

LOCATION MAP
 SOUTHERN CROSS PROPERTY

SCALE 1 INCH = 45 MILES

A. W. Mullan

JUNE 23, 1971



Dictator Mines Ltd. (N.P.L.)

SUITE 1 - 558 HOWE STREET, VANCOUVER 1, B.C. / (604) 687-6848

June 24, 1971

Mining Recorder,
Alberni Mining Division,
Alberni, B. C.

Dear Sir:

I swear the following to be a complete and true statement of work, wages, costs, etc., in carrying out a work program on the Rob 1 & 2 F.R. and Rob 25 - 44 M.C.'s in the Alberni M.D. *JHM*.

Yours very truly,

J. H. Hachey
J. H. Hachey

JHH:wb

Declared before me at the *City*
of *Vancouver*, in the
Province of British Columbia, this *24*
day of *June*, 1971, A.D.

J. H. Hachey

S. Gerrotte
A Commissioner for taking Affidavits within British Columbia or
A Notary Public for the Province of British Columbia.

SUB-MINING RECORDER



DICTATOR MINES LTD. (N.P.L.)

SUITE 1 - 558 HOWE STREET, VANCOUVER 1, B.C. / (604) 687-6848

LINECUTTING COSTS

Wages	\$2305.00
Field Costs	<u>1345.00</u>
	\$3650.00

ROADWORK

Wages	\$352.00
Field Costs	<u>212.00</u>
	\$564.00

MAGNETOMETER SURVEY

Wages	\$586.00
Field Costs	163.00
Magnetometer rental June 7 - 22 16 days @ 9.50 day	<u>\$152.00</u>
	\$901.00

Declared before me at the *City*
of *Vancouver*, in the
Province of British Columbia, this *24*
day of *June, 1971*, A.D.

J. H. Hachey

L. Glanville
~~A Commissioner for taking Affidavits within British Columbia or~~
~~A Notary Public in and for the Province of British Columbia.~~

SUB-MINING RECORDER



Dictator Mines Ltd. (N.P.L.)

SUITE 1 - 558 HOWE STREET, VANCOUVER 1, B.C. / (604) 687-6848

June 24, 1971

COSTS OTHER THAN WAGES RELATING TO ROADWORK, LINECUTTING & MAGNETOMETER SURVEY ON SOUTHERN CROSS PROPERTY

Groceries	\$ 420.39
Camp Equipment & Supplies	904.88
Truck Lease & Gas	<u>400.00</u>
TOTAL COSTS	\$1,725.27

Linecutting required - 82 man days = 78% of costs = \$1,345.00

Magnetometer Survey required - 10 fieldman days = 9.5% of costs = \$163.00

Roadwork required - 13 man days = 12.3% of costs = \$212.00

Declared before me at the *City*
of *Vancouver*, in the
Province of British Columbia, this *24*
June, 1971, A.D.

J. H. Aichey

S. Jeannotte

Affidavits within British Columbia or
of the Province of British Columbia.

SUB-MINING RECORDER



DM **Dictator Mines Ltd. (N.P.L.)**

SUITE 1 - 558 HOWE STREET, VANCOUVER 1, B.C. / (604) 687-6848

Wages Re: Southern Cross linecutting - May 28 - June 22/71

Linecutting	J. H. Hachey (supervision)		
on	May 28 - June 3, June 5 - 11, 14, 18 - 22	=	\$645.00
	20 days @ \$1000./mo.		
Rob 25-44 M.C.'s	Bud Locke (linecutter)		
	May 28 - June 3, June 8 - 22	=	\$660.00
	22 days @ \$30/day		
	Kim Dunfield (linecutter)		
	May 28 - June 3, 8 - 11, 14, 18-20	=	\$375.00
	15 days @ \$25/day		
	Ray Richards (linecutter)		
	May 29 - June 3, June 8 - 22	=	\$475.00
	19 days @ \$25/day		
	Brad Monti (linecutter)		
	May 29 - June 3	=	\$150.00
	6 days @ \$25/day		
			<hr/>
	Total linecutting wages		\$2305.00

Declared before me at the *City*
of *Vancouver*, in the
Province of British Columbia, this *24*
day of *June, 1971*, A.D.

J. H. Hachey

L. Giovanni
A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia.

SUB-MINING RECORDER



DIKTATOR MINES LTD. (N.P.L.)

SUITE 1 - 558 HOWE STREET, VANCOUVER 1, B.C. / (604) 687-6848

June 24, 1971

WAGES RE MAGNETOMETER SURVEY ON SOUTHERN CROSS PROPERTY - June 12-17

J. H. Hachey (operator)	
June 12, 13, 15 & 16, & 17=	\$161.25
5 days @ \$1,000./mo	
Kim Dunfield (assistant)	
June 12, 13, 15, 16, 17	
5 days @ \$25./day	125.00
Mr. Ash Mullin (report, maps, etc.)	
June 22 & 23	
2 days @ \$150./day	<u>300.00</u>
 TOTAL WAGES ON MAGNETOMETER SURVEY	 \$586.25

Declared before me at the *City*
of *Vancouver*, in the
Province of British Columbia, this *24*
day of *June, 1971*, A.D.

J. H. Hachey

S. Jeanette
A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia.



DIKTATOR MINES LTD. (N.P.L.)

SUITE 1 - 558 HOWE STREET, VANCOUVER 1, B.C. / (604) 687-6848

WAGES RE ROADWORK FOR ACCESS TO ROB 1 & 2 Fr.

J. H. Hachey - Supervision June 4 - 1 day =	\$ 32.00
Bud Locke - labourer June 4 - 7 = 4 days @ \$30.00/day=	120.00
Kim Dunfield - Labourer June 4-7= 4 days @ \$25.00/day=	100.00
Ray Richards - Labourer= 4 days @ \$25.00/day=	<u>100.00</u>
TOTAL WAGES RE ROADWORK =	\$352.00

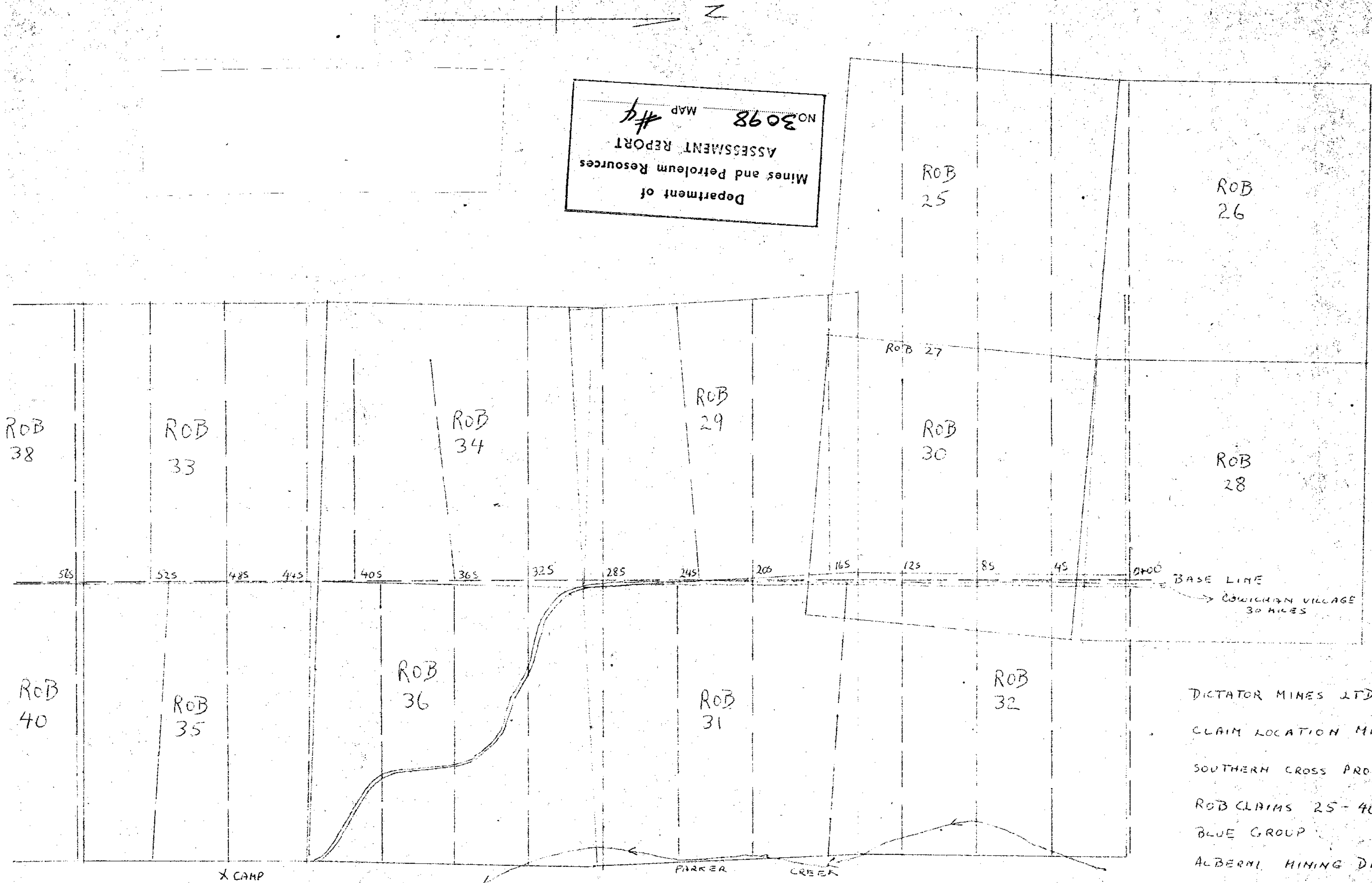
Declared before me at the *City*
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J. H. Hachey

L. Jeanette
A Commissioner for Taking Affidavits within British Columbia or
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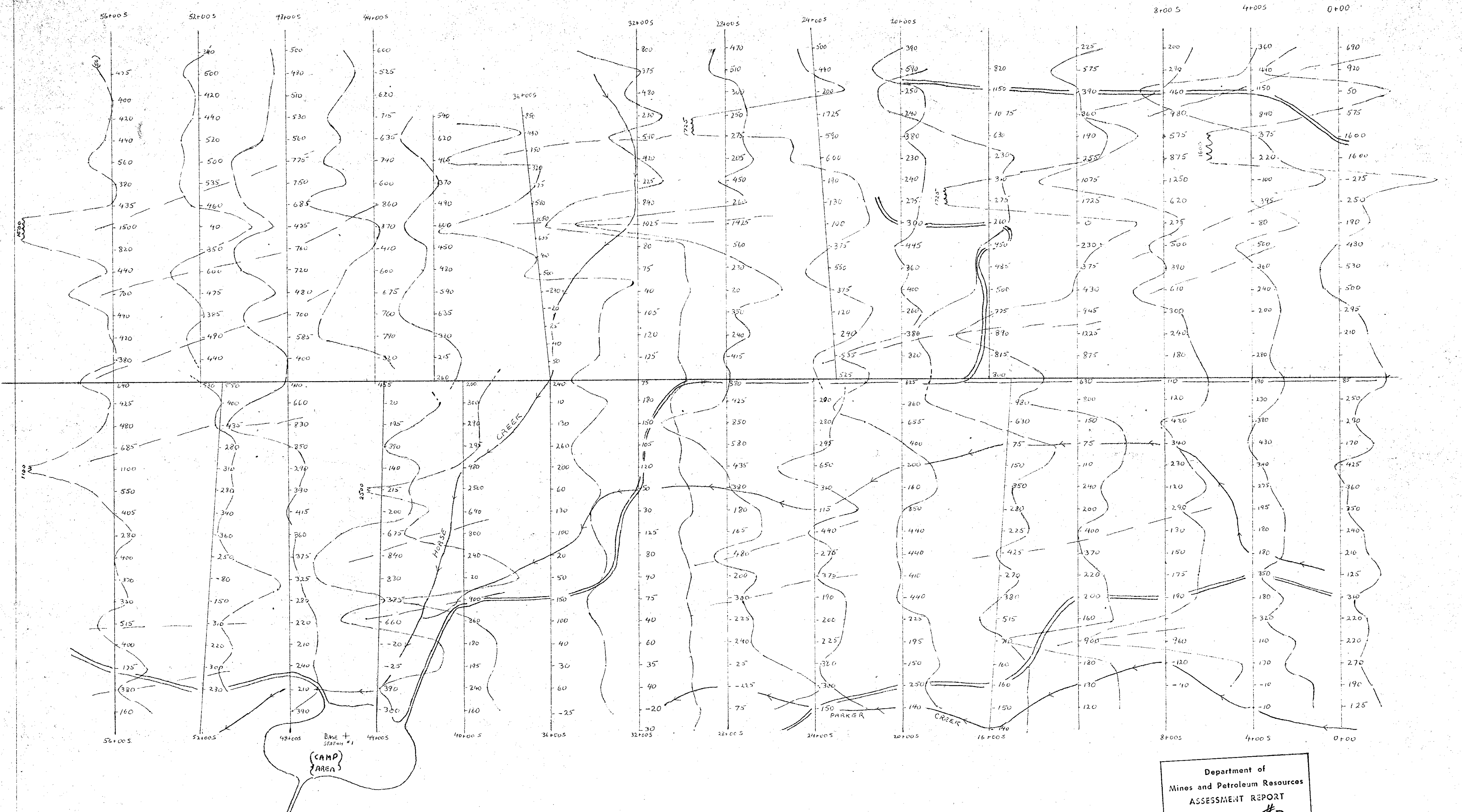
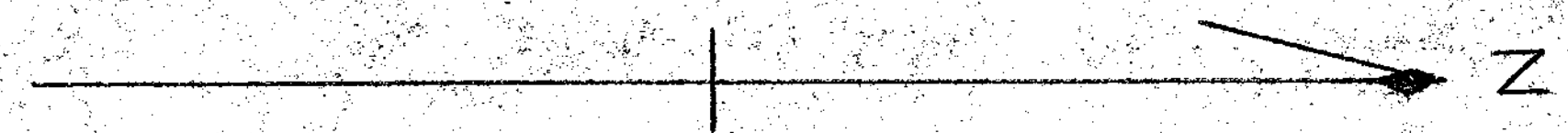
SUB-MINING RECORDER

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
MAP #4
NO 3098



DICTATOR MINES LTD. (N.A.L.)
CLAIM LOCATION MAP
SOUTHERN CROSS PROPERTY
ROB CLAIMS 25-40
BLUE GROUP
ALBERNI MINING DIVISION
VANCOUVER ISLAND, B.C.
SCALE: 1 INCH = 400 FEET

3098 M.4
FIGURE #2



LEGEND

- MAGNETOMETER READINGS EXPRESSED IN GAMMAS
- PROFILE SCALE: 1 INCH = 300 GAMMAS
- PROFILE REFERENCE IS GRID LINE = 400 GAMMAS
- MAGNETIC HIGH AXIS

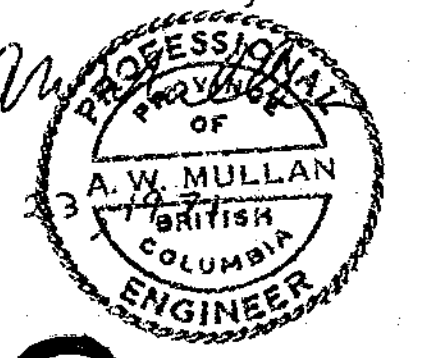
DICTATOR MINES LIMITED (N.R.L.)
 MAGNETOMETER SURVEY
 SOUTHERN CROSS PROPERTY
 ALBERNI MINING DIVISION, B.C.
 SCALE: 1 INCH EQUALS 200 FEET

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 3098 M.P. #2

DATE SURVEYED: JUNE, 1971

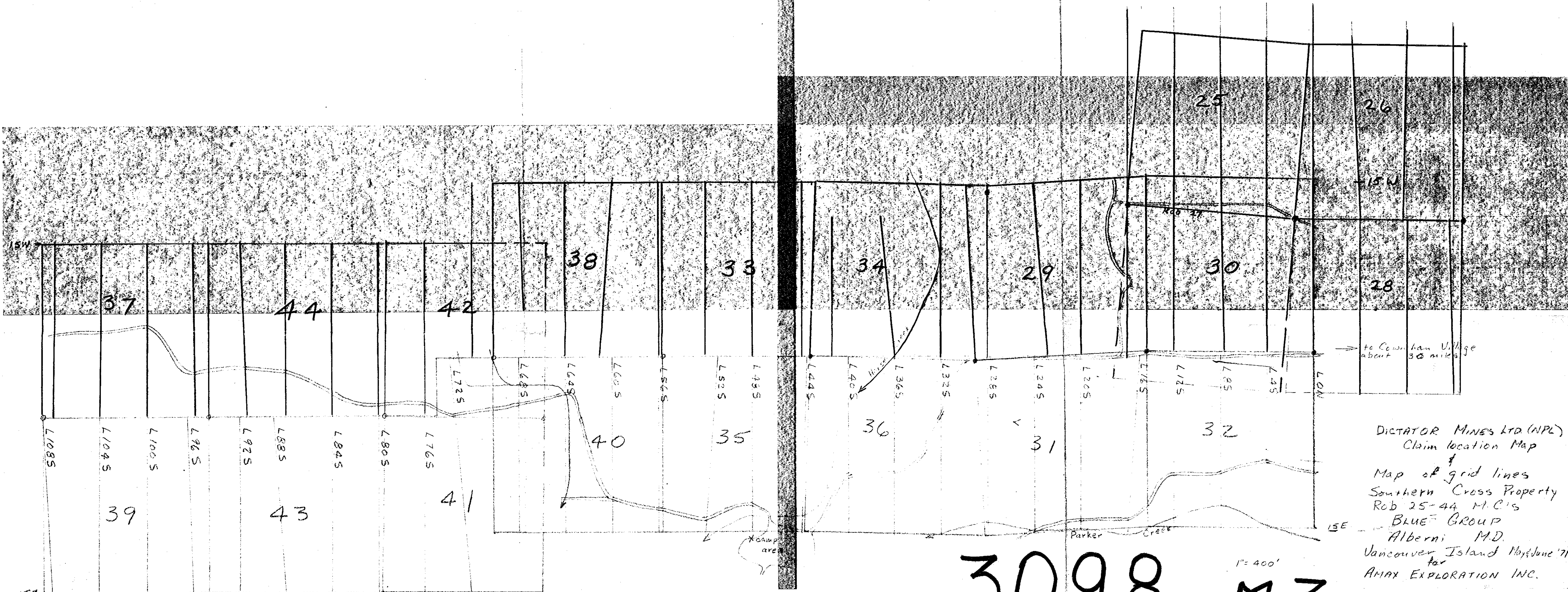
APPROVED: *[Signature]*

DATE: June 23



3098

M-2



DICTATOR MINES LTD (NPL)
 Claim location Map
 +
 Map of grid lines
 Southern Cross Property
 Rob 25-44 M.C.'s
 BLUE GROUP
 Alberni M.D.
 Vancouver Island May/June '71
 for
 AMAX EXPLORATION INC.

3098
 1" = 400'
 M-3