

C. A. AGER & ASSOCIATES LTD.

Telephone (604) 536-1154

CONSULTING
GEOPHYSICISTS

15423 34th Ave.
Surrey, B.C. Canada
V3S 4N7

GRAVITY SURVEY - TEXADA
ISLAND CLAIMS GROUPS

SUMMARY

This report contains the results of approximately 57.6 line kilometers of exploratory gravity work conducted over Shima Resources Ltd. claims groups located on Texada Island, B.C., Canada. Several gravity high anomalies have been outlined in the limestones at or near dioritic contacts. These features are considered prime exploration targets and should be further investigated for the presence of massive copper-magnetite mineralization. As well, some of the gravity low features may be of economic significance as they may outline zones within the limestones of better grade lime rock.

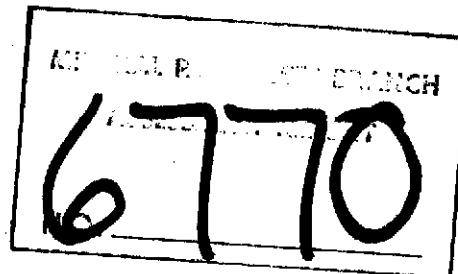
Respectfully submitted,



Charles A. Ager, PhD, PEng.

Geophysicist

January 31, 1978



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15423 34th Ave.
Surrey, B.C. Canada
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February 8, 1978

IN ACCOUNT WITH

Shima Resources Ltd
c/o Mr Keith Fahrni
7011 Angus Drive
Vancouver, B.C.

FOR

Professional geophysical services rendered in regard to the Texada Island
Gravity Survey as follows:

Chain & compass grid
Elevations to ± 0.03 meters
Observed gravity to ± 0.02 mgal
Terrain calculations to radius of 600 meters
Regional-residual anomaly separation
Rock density measurements
Interpretation and report

56.1 line kilometers at \$ 400.00/km	\$ 22,440.00
Total survey cost	<u>\$ 22,440.00</u>

Note: This is a copy of the invoice to Shima Resources Ltd for gravity
work over their Texada Island Property and may be used for the
purposes of assessment work.


Charles A. Ager, PhD, PEng
Geophysicist

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LOCATION, DATE OF WORK, CREW

Location: Shima Resources Ltd Claims Groups
Texada Island, B.C. (Vananda area)
Nanaimo Mining Division
NTS 92F/10E, 15E
49°43.5' N Latitude by 124°3' W Longitude

Date of Work:

Field Work; November 18 - December 11, 1977
Office Work; December 12, 1977 - January 31, 1978

Crew:

D.R. MacQuarrie, ESc, geophysicist/party chief
J.G. Ager, ESc, geologist/geophysical operator
P. Macy, gravity observer
A. Dryver, geophysical operator
P. Patrick, field assistant
S. Beale, field assistant
G.F.J. Ager, cook
C.A.Ager, PhD, PEng, geophysicist/data interpreter

INTRODUCTION

At the request of Mr A. Wells of Shima Resources Ltd. and Mr K. Fahrni, consulting geologist, an exploratory gravity survey was conducted over the main part of the company's claim groups, Texada Island, B.C. during November-December, 1977. The intent of the work was to delineate areas of excess mass within the underlying limestone units. Copper-magnetite mineralization is found to be directly related to skarn zones at or near the contact of diorites which have intruded the older limestones. Mapping subsurface extensions of diorites and pinpointing gravity high anomalies in the vicinity of diorite-limestone contacts are the main goals of the gravity work.

The Shima Resources Ltd. claims groups are located on the northern end of Texada Island, B.C. which is some 80 miles northwest of Vancouver, B.C., Canada. The area surveyed extends from the town of Vananda on the north to the Texada Mine on the south. (Refer to Figures 1 and 2.) The gravity work consisted of 57.6 line kilometers of surveying spread over an area some 4km by 5.5 km.

The claims are in an area of moderate topographic relief (0-250 meters) with small cliffs, gullies and swamps throughout the region. The area is well forested with thick stands of timber. Second growth and swamps make the survey area difficult

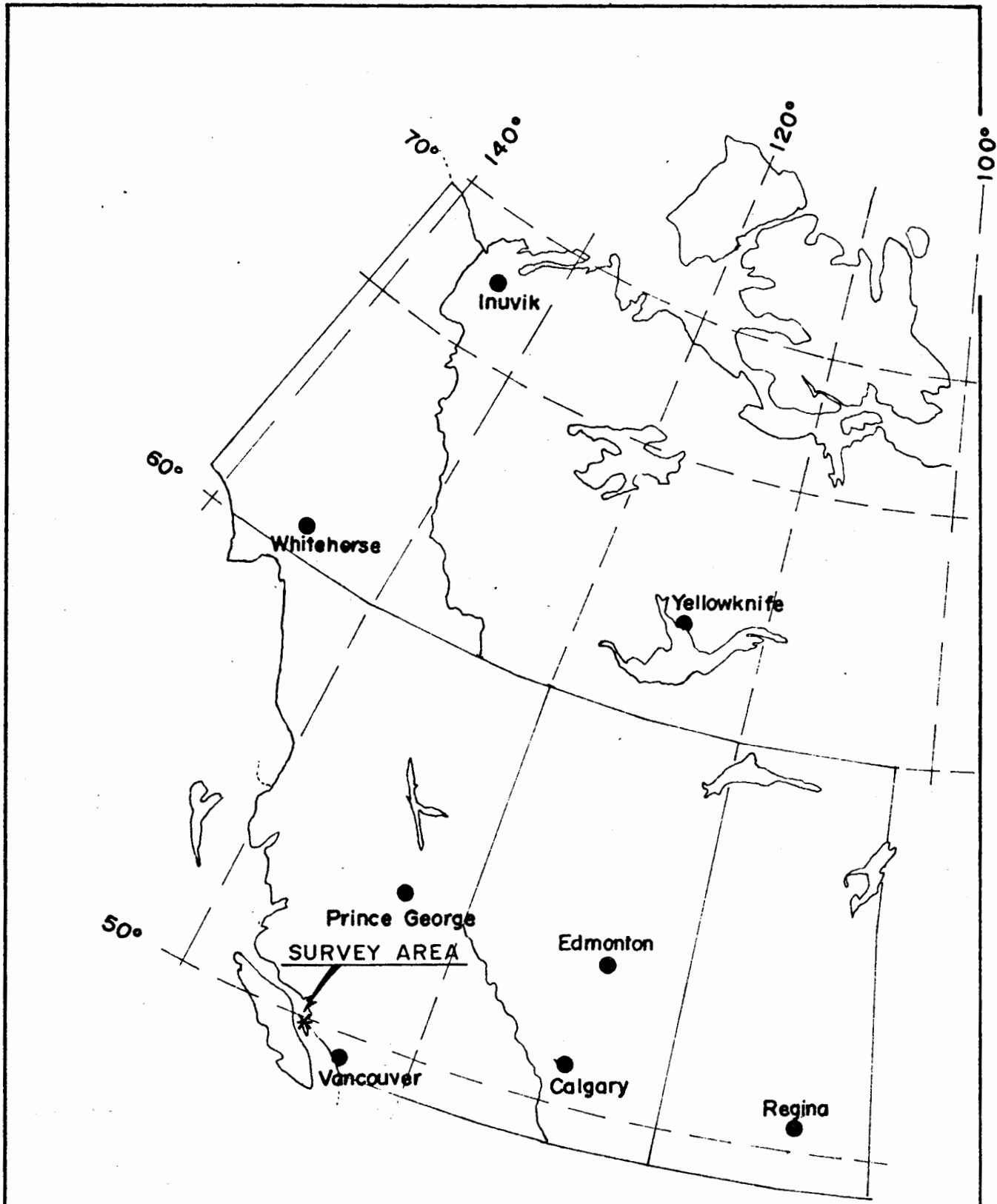
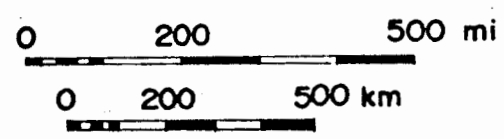
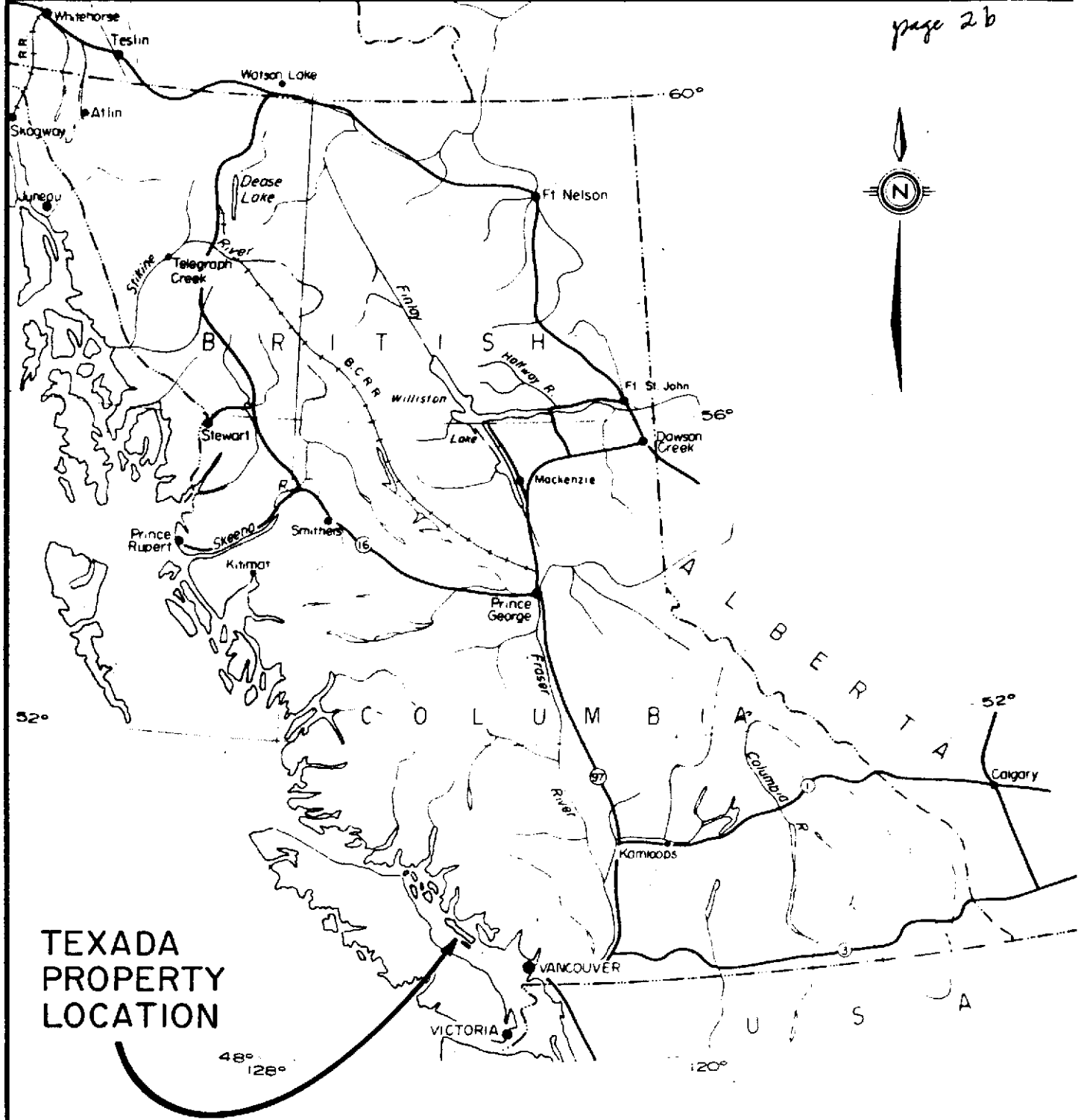


FIG. 1A



<i>LOCATION MAP</i>	
SHIMA RESOURCES LIMITED	
DATE : JAN. 1978	C·A·AGER & ASSOC. Surrey B·C· Canada



TEXADA
PROPERTY
LOCATION

SHIMA RESOURCES LIMITED
BOX 61 GILLIES BAY B.C.

TEXADA PROPERTY

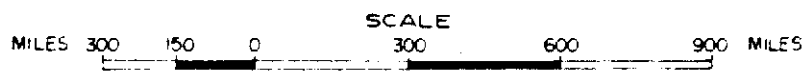
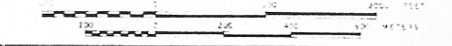


Fig 1B
MAP No. 501

SHIMA RESOURCES LIMITED
BOX 61 GILLIES BAY B.C.

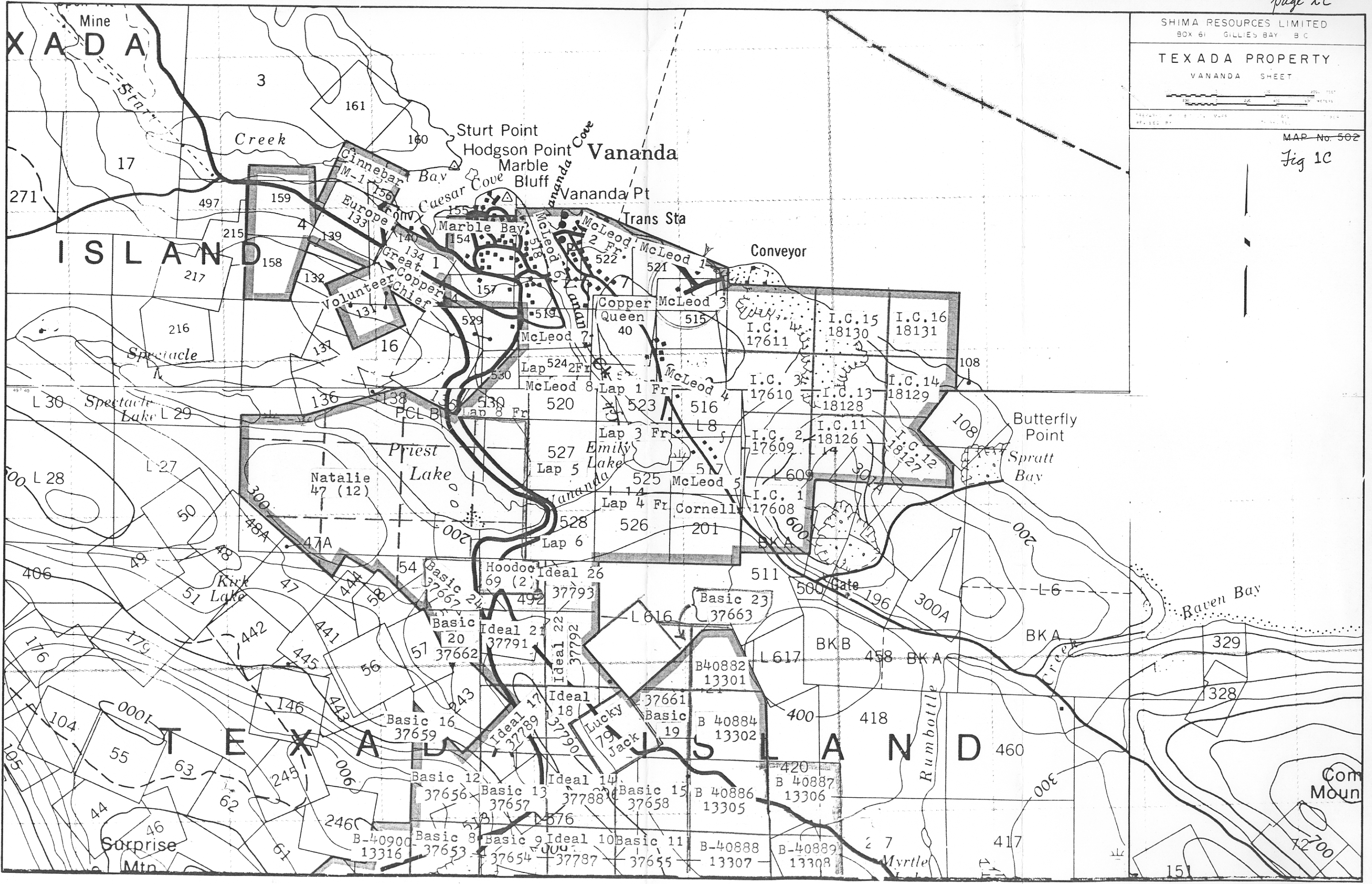
TEXADA PROPERTY

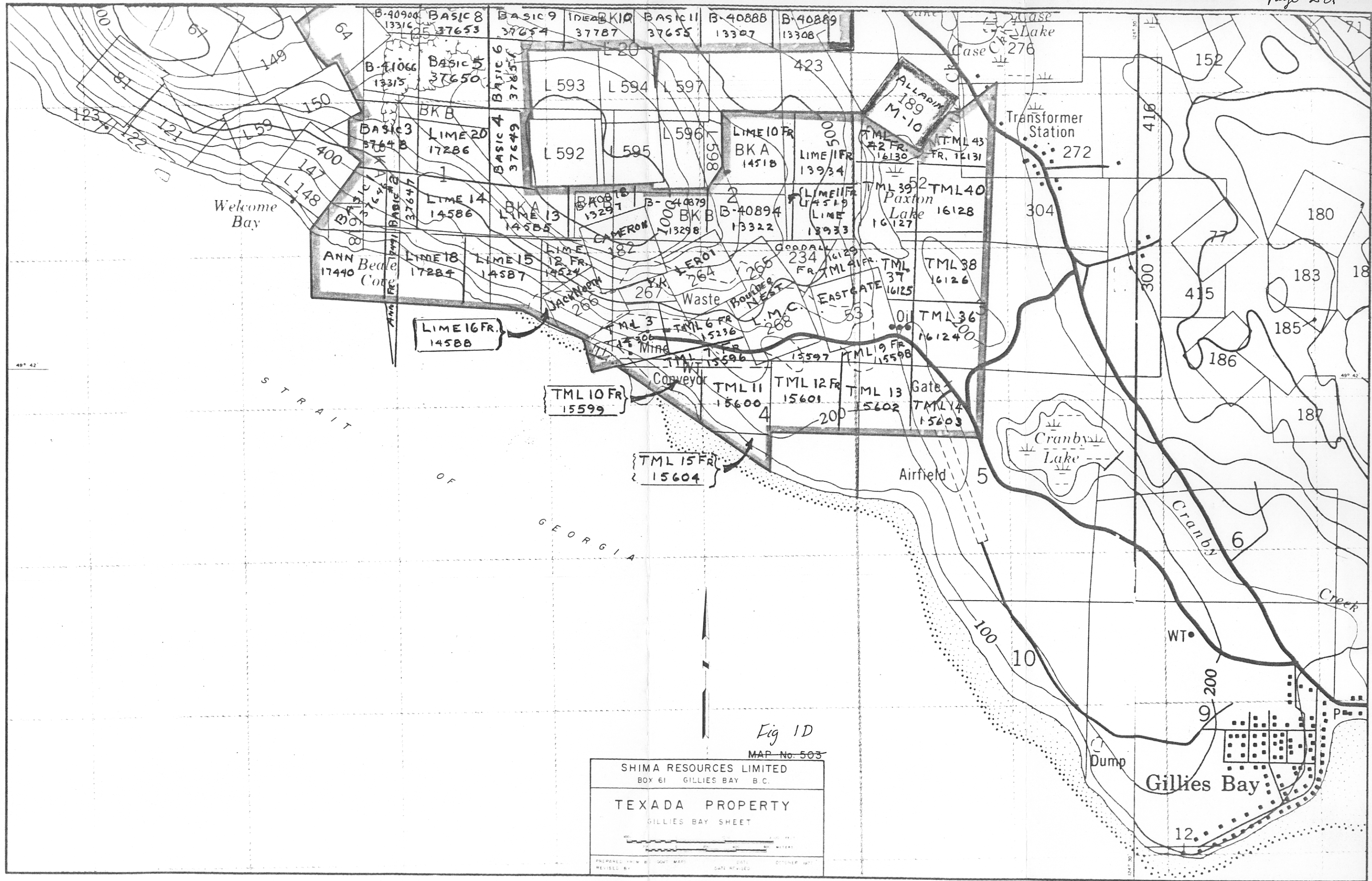
VANANDA SHEET



MAP No. 502

Fig 1C





SHIMA RESOURCES LIMITED
 BOX 61 GILLIES BAY B.C.

TEXADA PROPERTY
 GILLIES BAY SHEET

Fig 1D
 MAP No. 503

PREPARED BY: [unclear] DATE: [unclear]
 REVISED BY: [unclear] DATE: [unclear]

to penetrate at times. However, a good network of secondary roads provides easy access to the area surveyed.

INSTRUMENTATION & SURVEY PROCEDURE

Gravity observations were made using a LaCoste & Romberg Model G gravity meter (serial #G209) with reading accuracy of ± 0.01 mgals. All observations were within the dial range 4400-4500 for which the meter constant is 1.05985 mgals/division. Instrument and diurnal drift were accounted for by tying into a known base station within three hour intervals.

Gravity stations were located at 60 meter intervals along flagged chain and compass grid lines established in the field by Ager & Associates Ltd. crews. Line spacing was about 400 meters as shown on Figure 2. For convenience, three, non-straight roads were used as base lines for control (BL1W, BL2W, BL3W), and, as a result, some explanation of the grid is required. The cross lines are numbered 1S-15S in sequence from north to south. Stations along base lines are numbered according to their distance south from the northernmost cross line. Cross lines are labeled in 'west' co-ordinates at 60 meter intervals as shown.

Station elevations were determined using standard levelling procedures and an electronic level developed by Ager & Associates Ltd. Along base lines elevations were taken to the top of the nail in a peg at each station position. On cross lines, elevations are to the top of a flagged peg at ground level. Absolute station elevations were determined by tying into mean sea level references at the north and south ends of the survey area. Relative elevations are accurate to ± 0.03 meters or better.

The entire gravity survey was tied to a series of gravity base stations established within the survey area (Figure 2). The absolute gravity value of each base station was determined by a series of network ties to the National Network base station at Powell River, B.C. (No. 9402-75). Appendix A summarizes the base station parameters and gives a listing of the gravity data.

GEOLOGY & ROCK DENSITIES

The reader is referred to Fahrni (1978) for details concerning the geology of the survey area. The gross geology of the area, as shown on all the gravity maps presented, was traced from Fahrni (1978). Simply stated, limestones overlie Karmutsen volcanics through which dioritic bodies have later intruded. Copper-magnetite mineralization occurs in zones near the limestone-diorite contact.

Rock density measurements made in the field on 36 rock samples taken from units underlying the area surveyed are as follows:

<u>Rock Type</u>	<u>No. of Samples</u>	<u>Mean Density</u>
Limestones	19	2.76 g/cc
Karmutsen volcanics	11	2.90 g/cc
Diorites	4	2.89 g/cc
Massive copper- magnetite mineral- ization	2	4.10 g/cc

These densities indicate a significant partitioning of the rock units into three main divisions as indicated by the table. These measurements further indicate the relative significance of gravity high features which will be discussed later.

DATA REDUCTION

As is well known, the observed gravity field (g_0) contains much information of non interest in exploration geophysics. Simply stated, the problem is to separate the unwanted effects of the earth (g_E) from the observed gravity map. The map of interest is called the Complete Bouguer Gravity Map (Δg_{CB}) and is defined as follows:

$$\Delta g_{CB} = g_0 - g_E \quad (1)$$

where

$$g_E = g_L + g_{FA} + g_{ES} + g_T \quad (2)$$

Latitude effect Free Air effect Bouguer Slab effect Terrain effect

Using standard procedures, the Complete Bouguer Gravity Map (Figure 3) was calculated from equation 1 above. Terrain effects were calculated to a radius of 600 meters about each station using a computer technique of Ager & Associates Ltd. Bouguer slab and terrain densities were taken as 2.76 g/cc for country rock and 1.03 g/cc for salt water. The complete Bouguer gravity values are all relative to the base point GB 77-18 which was assigned an arbitrary value. A complete listing of the gravity data is given in Appendix A.

INTERPRETATION OF RESULTS

The gravity survey was designed to test for the presence of dioritic rocks and for massive units at or near the dioritic-limestone contacts. Under the concept of search, each of these targets will exhibit itself as a gravity high feature as evidenced by rock density measurements (page 5 of report). Gravity high

features of amplitude 0.25 mgal or larger are considered anomalous. One line anomalies are also considered to be of importance due to the large area surveyed and the 400 meter line spacing. The residual gravity map was constructed using graphical and computer techniques and is given as Figure 4. It best represents the gravity results as they pertain to the geological features of economic interest. Based on the gravity data and supplemented by geological and magnetic information listed in the references, the following interpretations are made:

(1) The Complete Bouguer Gravity Map (Figure 3)

This gravity map represents a good overview of the geology underlying the area surveyed. The regional trend is northwest and indicates an antiformal nature to the limestone basement contact with axis closely following the BL2W road. The strong gradients to the north and on the southern edge of the survey area are typical of contact features. The gravity high on the west ends of L6S-L11S is most certainly due to the heavier Karmutsen volcanics. The 'antiform' also appears to plunge moderately away from the high feature toward the southeast. The limestones appear to be thickest on the north and south edges of the area surveyed.

(2) The Residual Gravity Map (Figure 4)

The residual gravity map indicates the anomalous zones of interest in this survey. These areas are described and named under the following headings:

Little Billy Anomaly

A gravity high of 0.80 mgals amplitude is located at the northeastern ends of lines 1S and 2S. The gravity feature is centered at L2S+3000W and extends to the northwest to L1S+3120W. The anomaly is open to the northeast and southeast as shown by the dashed lines on Figure 4. The Little Billy Mine is situated at the northwestern end of the feature. A diorite-limestone contact crosscuts the anomaly as well. For these last two reasons, this gravity high is considered to be of potential economic importance.

Copper Queen Anomaly

A one line, local gravity high anomaly of 0.50 mgals is situated at L2S+3420W. This feature is very local but could be significant in that it is correlated to the Copper Queen mineralized area as shown on Figure 4.

LaFarge Anomaly

A one station gravity high anomaly is evident at L4S+3180W. It is situated in the area southwest of the LaFarge quarry and is open to the northeast. The strong 0.80 mgal amplitude and its correlation to an 80 gamma aeromagnetic high anomaly (Anderson, 1976) make it a good target for further investigation.

Priest Lake Anomalies

There are two gravity high features located in the vicinity south of Priest Lake. The first anomaly is centered at L7S+4560W. It has amplitude 0.60 mgals, extends toward L6S+4680W and is open to the southwest. It is flanked by a -0.40 mgal gravity low on the northwest side. The anomaly lies on the north side of a northeast trending fault structure. The feature is probably due to a heavier rock unit within the underlying Karmutsen volcanics.

The 0.50 mgal gravity high on L6S between 3480W-3780W could be of economic interest. The source is located within the limestones just south of the Karmutsen-limestone fault-contact.

Texada Mine Anomalies

In the southern part of the survey area, a series of interconnecting gravity high features are indicated. These anomalies are generally continuous between L12S to 15S and are open toward the Texada Mine on the south. The correlation of diorites to gravity highs at L15S+3480W and L15S+2520W indicates that gravity probably maps the sub-surface extensions of these units. The economic significance of these gravity high anomalies should be assessed by geologists thoroughly familiar with the mine ore controls.

Ideal Quarry Anomalies

Two subtle gravity high features are found on and in the Ideal Quarry. One high is situated at L13S+4260W, the source of which is most certainly visible in the vicinity of the quarry. The other feature, within the quarry, is centered at L13S+4800W and appears to extend to the south toward L15S+4320W. It is a very weak anomaly and may correlate to a series of north-south striking dykes as indicated by Fahrni (1978).

Paxton Lake Anomalies

Two gravity high residuals are located over the limestone units to the north of the Paxton Lake fault contact. The northern most feature is elongated north-west and extends from L13S+1920W to L14S+1640W. The feature is about 0.30 mgals amplitude and could possibly map a buried dioritic unit.

The anomaly of 0.60 mgals situated at L15S+1980W is open to the south and to the east. Its proximity to the intersection of the Paxton Lake fault and the Karmutsen-limestone contact make it worthy of further investigation.

Gravity Low Anomalies

Under the concept of search for massive copper-magnetite bodies, gravity low anomalies are not considered of direct importance. However, for the sake of completeness, these gravity low anomalies are also shown on Figure 4. These features are caused by rock units less dense than 2.76 g/cc.

A gravity low feature of about -1.75 mgals is centered at L5S+1960W. It extends for about 1000 meters to the south and terminates by L8S. It is open to the north. This feature correlates well with the Lafarge and Imperial quarry locations. It could signify a more lime rich (less dense) limestone unit extending between the quarries, and, as such, may be of some economic importance.

Another gravity low extends between L9S+4380W and L11S+4320W. Two mineralized showings are found on the eastern flanks of the feature. The gravity low is most certainly caused by a less dense rock within or underlying the Karmutsen volcanic sequence in this vicinity.

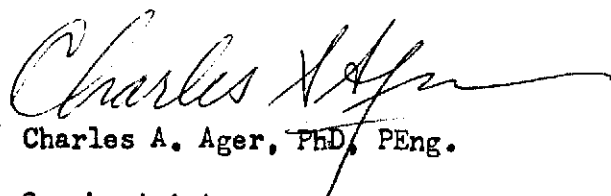
Two gravity low features similar to the Lafarge-Imperial anomaly, although smaller in areal extent, are also observed. One is located west of Emily Lake between L2S+4380W and L3S+4480W. The other gravity low is situated between L8S-L10S and is centered at L9S+3900W.

CONCLUSIONS & RECOMMENDATIONS

The gravity survey over the Shima Resources Ltd. claims area, Texada Island, B.C. has indicated several gravity high features of possible economic significance. Each of these anomalous zones should be inspected on the ground. Anomalies which can be explained based on surface rock densities and/or knowledge of previous underground work and drilling should be discarded. Those gravity high features which remain unexplained should be drilled to depths of at least 150 meters.

An unexpected, but noteworthy consequence of the gravity work is the outlining of three gravity low zones. One or more of these areas may indicate regions of lime enrichment within the limestones and may be significant for that reason alone.

Respectfully submitted,


Charles A. Ager, PhD, PEng.
Geophysicist

January 31, 1978

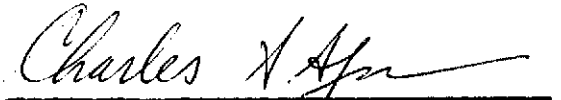
REFERENCES

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- Ideal Cement Company (1973). Surface geology, Texada Island, B.C. (Authour and date of report unknown).
- Spector, A. (1972). Report on aeromagnetic interpretation, Texada mine area, Texada Island, B.C., July 1972.
- Sutherland Brown, A. and Merrett, J.E. (1964). Texada Island geology, B.C. Dept of Mines & Petroleum Resources Annual Report, 1964, pp146-151.

CERTIFICATE OF QUALIFICATIONS

I, Charles A. Ager, do hereby certify that:

- (1) I am a practising geophysicist with offices and residence at 15423 34th Avenue, Surrey, B.C., Canada.
- (2) I have received the following university degrees:
 - (a) 1968 B.A. (Honours Math/Physics)
California State University, Sacramento, Calif.
 - (b) 1972 M.Sc. (Applied Geophysics)
University of B.C., Vancouver, B.C.
 - (c) 1975 Ph.D. (Applied Geophysics)
University of B.C., Vancouver, B.C.
- (3) I am a member in good standing of the following professional organizations:
 - (a) B.C. Geophysical Society
 - (b) Society of Exploration Geophysicists
 - (c) Association of Professional Engineers
of the Province of British Columbia
- (4) Since 1968 I have been engaged in exploration and mining geophysics over numerous projects in western North America and eastern Canada.
- (5) The geophysical field work and the interpretation of the results in this report were done under my direct supervision.



Charles A. Ager, PhD, PEng
Geophysicist

APPENDIX A GRAVITY DATA - Texada Island Claims Area

Bouguer density = 2.76 g/cc Elevation factor = 0.19296 mgal/m

BASE STATION DATA

<u>BASE STN</u>	<u>LOCATION</u>	<u>RELATIVE G</u>	<u>ELEV</u>	<u>ABSOLUTE G</u>
9402-75	Powell River, B.C.	34.81	9.84	981,009.42
GB 77-18	BL2W+L14S	46.14	98.56	981,017.75
GB 77-19	BL2W+L7S	43.40	129.09	981,015.01
GB 77-20	BL1W+L1S	47.91	55.84	981,022.52
GB 77-21	BL1W+L7S	45.48	96.07	981,020.09

DETAIL STATION DATA

<u>STATION NO.</u>	<u>ELEVATION (M)</u>	<u>OBSERVED G (MGAL)</u>	<u>C.B.GRAVITY (MGAL)</u>	
1- 0S	BL1W	55.84	47.91	60.51
1- 60S	BL1W	50.21	48.07	60.70
1-120S	BL1W	64.33	46.80	61.06
1-180S	BL1W	69.24	45.73	61.03
1-240S	BL1W	71.40	45.56	61.28
1-300S	BL1W	77.49	44.33	61.31
2- 0S	BL1W	83.01	43.29	61.41
2- 60S	BL1W	85.34	43.13	61.71
2-120S	BL1W	81.06	44.47	62.20
2-180S	BL1W	76.85	45.89	62.74
2-240S	BL1W	74.03	46.94	63.30
2-300S	BL1W	72.73	47.60	63.79
2-360S	BL1W	70.26	48.47	64.24
2-420S	BL1W	63.87	50.14	64.62
2-480S	BL1W	60.19	51.24	65.06
2-540S	BL1W	54.43		
3- 0S	BL1W	55.42	52.52	65.48
3- 60S	BL1W	55.11	52.60	65.59
3-120S	BL1W	53.09	53.14	65.80
3-180S	BL1W	51.26	53.53	65.89
3-240S	BL1W	49.17	53.87	65.93
3-300S	BL1W	46.27	54.64	66.25
5- 0S	BL1W	46.80	54.57	66.35
5- 60S	BL1W	45.09	54.72	66.28
5-120S	BL1W	45.99	54.46	66.48
5-180S	BL1W	52.23	53.29	66.61
5-240S	BL1W	60.72	51.70	66.63
5-300S	BL1W	65.39	50.88	66.82
5-360S	BL1W	68.03	50.39	66.81
5-420S	BL1W	71.44	49.73	66.72
6- 0S	BL1W	74.97	49.05	67.06
6- 60S	BL1W	77.89	48.51	67.18
6-120S	BL1W	79.69	48.10	67.08
6-180S	BL1W	84.33	47.33	67.16

6-240S	BL1W	90.32	46.42	67.44
6-300S	BL1W	89.51	46.53	67.38
6-360S	BL1W	90.25	46.64	67.64
6-420S	BL1W	89.49	46.52	67.42
7- 0S	BL1W	96.07	45.48	67.49
7- 60S	BL1W	90.75	46.39	67.42
7-120S	BL1W	84.59	47.35	67.79
7-180S	BL1W	84.20	47.49	67.58
7-240S	BL1W	83.67	47.91	67.98
7-300S	BL1W	84.24	48.06	68.07
7-360S	BL1W	85.21	47.70	67.82
7-420S	BL1W	87.89	47.61	68.11
7-480S	BL1W	91.02	47.10	68.10
7-540S	BL1W	91.96	46.93	68.10
7-600S	BL1W	94.01	46.56	68.12
7-660S	BL1W	92.88	46.78	68.16
7-720S	BL1W	86.64	47.94	68.18
8- 00S	BL1W	81.22	48.65	67.88
8- 60S	BL1W	81.11	48.38	67.64
8-120S	BL1W	81.52	48.05	67.45
8-180S	BL1W	78.78	48.60	67.56
8-240S	BL1W	73.66	49.51	67.59
8-300S	BL1W	68.37	50.27	67.23
8-360S	BL1W	64.05	50.97	66.98
8-420S	BL1W	61.53	51.37	66.93
8-480S	BL1W	59.38	51.82	66.88
0- 90S	BL2W	40.07	56.07	65.58
0-180S	BL2W	45.88	55.94	66.64
0-270S	BL2W	49.40	56.10	67.55
0-360S	BL2W	51.74	56.40	68.42
0-450S	BL2W	59.07	55.37	68.91
0-540S	BL2W	64.89	54.84	69.52
0-630S	BL2W	68.66	54.53	70.00
0-720S	BL2W	71.44	54.46	70.52
0-810S	BL2W	76.24	53.72	70.73
0-900S	BL2W	82.88	52.57	70.84
1- 0S	BL2W	83.78	52.21	70.76
1- 60S	BL2W	84.53	52.27	70.95
1-120S	BL2W	86.05	51.98	70.97
1-180S	BL2W	88.21		
1-240S	BL2W	86.51	51.89	71.05
1-300S	BL2W	82.41	52.95	71.35
2- 0S	BL2W	80.12	53.23	71.22
2- 60S	BL2W	78.37	53.60	71.28
2-120S	BL2W	74.14	54.24	71.13
2-180S	BL2W	72.02	54.56	71.08
2-240S	BL2W	70.24	54.68	70.91
2-300S	BL2W	70.51	54.35	70.67
2-360S	BL2W	70.21		
6- 0S	BL2W	71.05	54.08	70.72
6- 60S	BL2W	73.99	53.21	70.59
6-120S	BL2W	78.65	52.02	70.49
6-180S	BL2W	85.67		
6-240S	BL2W	94.45	49.21	70.78
6-300S	BL2W	100.75	48.29	71.10
6-360S	BL2W	102.96	48.03	71.25
6-420S	BL2W	108.48	47.07	71.38
6-480S	BL2W	113.25	46.26	71.51
6-540S	BL2W	124.96	44.42	71.97
7- 0S	BL2W	129.09	43.40	71.66

MADE IN MADA

7- 60S	BL2W	131.23	42.94	71.54
7-120S	BL2W	135.16	42.05	71.37
7-180S	BL2W	137.90	41.42	71.28
7-240S	BL2W	140.60	40.75	71.16
7-300S	BL2W	141.95	40.42	71.10
7-360S	BL2W	141.85	40.37	71.09
8- 0S	BL2W	141.40	40.39	71.02
8- 60S	BL2W	139.28	40.80	71.07
8-120S	BL2W	137.01	41.27	71.16
8-180S	BL2W	135.72	41.46	71.17
8-240S	BL2W	132.42	41.97	71.09
8-300S	BL2W	128.07	42.76	71.10
8-360S	BL2W	127.39	42.84	71.07
8-420S	BL2W	125.19	43.29	71.11
8-480S	BL2W	120.90	44.15	71.18
9- 0S	BL2W	119.63	44.23	71.02
9- 60S	BL2W	118.62	44.44	71.10
9-120S	BL2W	118.30	44.43	71.06
9-180S	BL2W	118.01	44.37	70.98
9-240S	BL2W	119.45	43.88	70.78
9-300S	BL2W	122.83	43.14	70.76
9-360S	BL2W	126.00	42.54	70.81
9-420S	BL2W	125.64	42.60	70.80
9-480S	BL2W	124.43	42.73	70.68
9-540S	BL2W	121.13	43.46	70.76
9-600S	BL2W	120.20	43.61	70.74
9-660S	BL2W	120.28	43.47	70.63
10- 0S	BL2W	118.93	43.67	70.60
10- 60S	BL2W	117.72	43.82	70.56
10-120S	BL2W	117.00	43.85	70.48
10-180S	BL2W	112.73	44.61	70.43
10-240S	BL2W	112.74	44.61	70.44
10-300S	BL2W	114.66	44.12	70.34
10-360S	BL2W	115.44	43.99	70.41
10-420S	BL2W	115.11	44.00	70.38
10-480S	BL2W	116.06	43.79	70.36
10-540S	BL2W	116.13	43.82	70.43
10-600S	BL2W	114.88	44.03	70.41
10-660S	BL2W	113.32	44.32	70.43
10-720S	BL2W	109.14	45.14	70.48
11- 0S	BL2W	108.38	45.27	70.49
11- 60S	BL2W	107.73	45.36	70.48
11-120S	BL2W	108.27	45.19	70.43
11-180S	BL2W	108.06	45.22	70.45
11-240S	BL2W	111.40	44.48	70.37
11-300S	BL2W	111.24	44.48	70.39
11-360S	BL2W	111.97	44.28	70.41
11-420S	BL2W	109.76	44.72	70.46
11-480S	BL2W	105.16	45.50	70.48
11-540S	BL2W	102.40	45.96	70.40
11-600S	BL2W	104.89	45.62	70.56
11-660S	BL2W	105.24	45.61	70.64
12- 0S	BL2W	102.94	46.11	70.70
12- 60S	BL2W	101.48	46.36	70.68
12-120S	BL2W	101.08	46.40	70.70
12-180S	BL2W	98.97	46.83	70.71
12-240S	BL2W	97.38	47.20	70.80
12-300S	BL2W	91.32	48.42	70.88
12-360S	BL2W	84.59	49.78	71.02
12-420S	BL2W	81.33		

13- 0S	BL2W	81.55	50.03	70.70
13- 60S	BL2W	83.44		
13-120S	BL2W	83.38	49.74	70.81
13-180S	BL2W	87.41	48.94	70.80
13-240S	BL2W	89.92	48.40	70.75
13-300S	BL2W	90.12	48.41	70.84
13-360S	BL2W	89.91	48.63	71.05
13-420S	BL2W	93.20		
13-480S	BL2W	94.59	47.24	70.65
13-540S	BL2W	95.13		
13-600S	BL2W	95.72	46.82	70.52
14- 0S	BL2W	98.56	46.14	70.41
7- 60S	BL3W	131.25	42.94	71.56
7-120S	BL3W	134.21	42.30	71.53
7-180S	BL3W	137.04	41.66	71.46
7-240S	BL3W	136.40	41.89	71.63
7-300S	BL3W	135.79	42.07	71.73
7-360S	BL3W	136.40	41.86	71.66
8- 0S	BL3W	136.94	41.65	71.59
8- 60S	BL3W	136.70	41.59	71.49
8-120S	BL3W	137.29	41.38	71.48
8-180S	BL3W	139.27	40.90	71.43
8-240S	BL3W	141.09	40.38	71.35
8-300S	BL3W	142.44	40.00	71.27
8-360S	BL3W	142.72	39.81	71.21
9- 0S	BL3W	141.70	39.88	71.09
9- 60S	BL3W	140.01	40.29	71.23
9-120S	BL3W	137.53	40.82	71.30
9-180S	BL3W	134.87	41.41	71.42
9-240S	BL3W	132.85	41.66	71.38
9-300S	BL3W	133.24	41.69	71.53
9-360S	BL3W	136.90	41.15	71.75
9-420S	BL3W	139.30	40.79	71.88
10- 0S	BL3W	142.45	40.11	71.84
10- 60S	BL3W	144.02	39.96	72.05
10-120S	BL3W	148.42	39.24	72.24
10-180S	BL3W	155.53	38.04	72.44
10-240S	BL3W	162.35	36.79	72.59
10-300S	BL3W	166.67	35.95	72.64
10-360S	BL3W	170.53	35.14	72.61
11- 0S	BL3W	177.92	33.64	72.57
11- 60S	BL3W	179.70	33.30	72.55
11-120S	BL3W	180.80	33.26	72.76
11-180S	BL3W	185.85	32.22	72.69
11-240S	BL3W	189.52	31.86	73.03
11-300S	BL3W	191.83	31.57	73.19
11-360S	BL3W	195.54	30.96	73.26
11-420S	BL3W	196.01	30.78	73.16
11-480S	BL3W	195.95	30.71	73.07
11-540S	BL3W	196.82	30.54	73.11
11-600S	BL3W	196.67	30.40	72.94
11-660S	BL3W	198.46	30.08	72.97
11-720S	BL3W	198.95	30.30	73.45
11-780S	BL3W	199.57	30.39	73.76
11-840S	BL3W	198.97	30.45	73.61
11-900S	BL3W	197.46	30.44	73.28
11-960S	BL3W	195.43	30.59	73.03
12- 0S	BL3W	191.84	30.97	72.75
12- 60S	BL3W	187.73	31.82	72.86
12-120S	BL3W	185.08	32.22	72.79

MAD CANADA

12-180S	BL3W	181.89	32.64	72.65
12-240S	BL3W	178.27	33.15	72.54
12-300S	BL3W	174.41	33.60	72.32
12-360S	BL3W	169.69	34.31	72.21
13- 0S	BL3W	163.92	35.09	72.06
13- 60S	BL3W	155.73	36.39	71.93
13-120S	BL3W	145.49	38.15	71.88
13-180S	BL3W	135.71	39.71	71.73
13-240S	BL3W	129.34	40.58	71.47
13-300S	BL3W	119.54	42.44	71.55
13-360S	BL3W	110.90	43.57	71.19
14- 0S	BL3W	102.10	44.91	70.87
14- 60S	BL3W	87.49	47.70	70.90
14-120S	BL3W	75.61	49.67	70.57
14-180S	BL3W	64.82	51.49	70.34
14-240S	BL3W	55.86	52.96	70.16
14-300S	BL3W	46.50	54.74	70.20
14-360S	BL3W	35.24	56.21	69.64
14-420S	BL3W	22.80	57.99	69.18
14-480S	BL3W	11.09	59.95	69.08
1- 0S	4920W	70.82	55.15	71.28
1- 0S	4860W	80.49	53.22	71.12
1- 0S	4800W	81.61	52.89	70.97
1- 0S	4740W	94.26	50.12	70.68
1- 0S	4680W	104.96	47.61	70.68
1- 0S	4620W	102.61	47.95	70.37
1- 0S	4560W	92.22	49.77	70.16
1- 0S	4500W	85.72	50.89	70.12
1- 0S	4440W	68.56	54.20	69.98
1- 0S	4380W	56.60	56.00	69.44
1- 0S	4320W	39.20	59.33	69.37
1- 0S	4260W	36.34	59.71	69.17
1- 0S	4200W	41.60	58.64	68.76
1- 0S	4140W	45.12	57.62	68.32
1- 0S	4080W	46.87	56.90	67.89
1- 0S	4020W	42.78	56.95	67.10
1- 0S	3960W	40.96	56.53	66.31
1- 0S	3900W	32.23	57.57	65.60
1- 0S	3840W	29.34	57.53	64.97
1- 0S	3780W	21.63	58.51	64.56
1- 0S	3720W	11.54	59.43	63.93
1- 0S	3660W	36.67	54.16	62.99
1- 0S	3600W	39.20	53.09	62.45
1- 0S	3540W	43.07	51.65	61.74
1- 0S	3480W	48.49	50.06	61.19
1- 0S	3360W	60.24	46.29	59.75
1- 0S	3300W	52.79	47.14	59.15
1- 0S	3240W	54.79	46.07	58.53
1- 0S	3180W	39.54	47.84	57.43
1- 0S	3120W	36.90	48.42	57.58
1- 0S	3060W	32.54	48.42	56.77
1- 0S	3000W	18.89	50.40	56.22
2- 0S	4920W	71.10	55.29	71.61
2- 0S	4860W	75.58	54.22	71.36
2- 0S	4740W	82.04	52.57	70.91
2- 0S	4680W	81.45	52.56	70.78
2- 0S	4620W	79.50	52.80	70.69
2- 0S	4560W	73.79	53.64	70.43
2- 0S	4500W	72.73	53.41	70.07
2- 0S	4440W	63.62	54.74	69.64

MA CANADA

2-	OS	4380W	41.62	58.83	69.46
2-	OS	4320W	44.90	58.37	69.56
2-	OS	4260W	43.00	58.50	69.18
2-	OS	4200W	24.38	61.80	68.86
2-	OS	4140W	34.66	59.93	68.85
2-	OS	4080W	45.17	57.49	68.61
2-	OS	4020W	46.04	56.72	67.97
2-	OS	3960W	23.10		
2-	OS	3900W	21.21	60.71	67.17
2-	OS	3840W	13.28	61.45	66.47
2-	OS	3780W	25.26	58.12	65.32
2-	OS	3720W	32.02	56.68	65.04
2-	OS	3660W	46.15		
2-	OS	3600W	52.50	51.34	63.66
2-	OS	3540W	57.46	50.00	63.24
2-	OS	3480W	71.08	46.73	62.59
2-	OS	3420W	83.01	44.38	62.54
2-	OS	3300W	87.57	41.78	60.89
2-	OS	3240W	79.93	42.82	60.37
2-	OS	3180W	82.27	41.45	59.59
2-	OS	3120W	68.92	43.53	59.03
2-	OS	3060W	29.88	50.83	58.95
2-	OS	3000W	30.40	50.43	58.67
2-	OS	2940W	20.51	51.69	57.98
3-	OS	4780W	69.46	54.71	70.76
3-	OS	4720W	70.66	54.31	70.56
3-	OS	4660W	69.74	54.49	70.59
3-	OS	4600W	79.23	52.32	70.35
3-	OS	4540W	72.93	53.20	70.11
3-	OS	4480W	60.26	55.04	69.42
3-	OS	4420W	41.08	58.74	69.34
3-	OS	4360W	45.11	58.24	69.59
3-	OS	4300W	34.65	60.08	69.29
3-	OS	4240W	26.22	61.43	68.98
3-	OS	3540W	63.35	50.23	64.65
3-	OS	3480W	67.22	49.19	64.28
3-	OS	3420W	68.72	48.51	63.85
3-	OS	3360W	66.96	48.46	63.41
3-	OS	3300W	62.34	49.02	63.07
3-	OS	3240W	74.49	46.11	62.49
3-	OS	3180W	75.38	45.66	62.27
3-	OS	3120W	66.50	46.86	61.67
3-	OS	3060W	60.12	47.88	61.47
3-	OS	3000W	56.79	47.92	60.86
3-	OS	2940W	42.65	50.47	60.77
4-	OS	3720W	59.38	51.87	65.95
4-	OS	3660W	61.45	51.00	65.39
4-	OS	3600W	72.96	48.26	64.84
4-	OS	3540W	74.80	47.66	64.49
4-	OS	3480W	72.29	47.94	64.21
4-	OS	3420W	67.53	48.51	63.92
4-	OS	3360W	70.37	47.66	63.57
4-	OS	3300W	75.64	46.41	63.22
4-	OS	3240W	79.14	45.32	62.84
4-	OS	3180W	79.31	45.82	63.36
5-	OS	2740W	59.62	51.79	66.01
5-	OS	2680W	64.19	50.72	65.85
5-	OS	2620W	78.94	47.54	65.55
5-	OS	2560W	79.38	47.32	65.40
5-	OS	2500W	90.04	44.84	65.00

MADE IN JAPAN

5-	OS	2440W	95.82	43.44	64.77
5-	OS	2380W	105.86	41.17	64.47
5-	OS	2320W	116.72	38.73	64.12
5-	OS	2260W	124.29'		
5-	OS	2200W	127.96	36.21	63.70
5-	OS	2140W	129.50		
5-	OS	2080W	135.96	34.03	63.06
5-	OS	2020W	152.15	30.42	62.75
5-	OS	1960W	155.69	29.79	62.89
5-	OS	1900W	156.27	29.49	62.81
5-	OS	1840W	147.87	31.16	62.83
5-	OS	1780W	137.34	33.50	63.21
5-	OS	1720W	129.28	34.98	63.26
5-	OS	1660W	113.31'		
5-	OS	1600W	89.35	43.38	63.77
5-	OS	1540W	73.17	46.88	64.08
5-	OS	1480W	70.68	47.46	63.93
5-	OS	1420W	74.83	46.59	63.72
5-	OS	1360W	75.93	46.03	63.44
5-	OS	1300W	68.22	47.20	63.10
5-	OS	1240W	59.42	48.89	63.13
5-	OS	1180W	51.61	50.25	62.99
5-	OS	1120W	41.11	52.07	62.81
5-	OS	1060W	33.70	53.11	62.40
6-	OS	4920W	82.31	53.96	72.66
6-	OS	4860W	80.34	54.13	72.45
6-	OS	4800W	80.62	54.05	72.42
6-	OS	4740W	80.87	54.12	72.55
6-	OS	4680W	77.33	54.83	72.60
6-	OS	4620W	74.64	55.14	72.42
6-	OS	4560W	73.04	55.24	72.25
6-	OS	4500W	76.32	54.49	72.16
6-	OS	4440W	79.75	53.53	71.87
6-	OS	4380W	81.42	53.10	71.78
6-	OS	4320W	82.06	52.90	71.73
6-	OS	4260W	84.76	52.09	71.46
6-	OS	4200W	84.41	51.83	71.19
6-	OS	4140W	80.05	52.43	71.04
6-	OS	4080W	75.46	53.19	71.03
6-	OS	4020W	73.63	53.53	70.99
6-	OS	3960W	72.60	53.60	70.69
6-	OS	3900W	72.56	53.47	70.54
6-	OS	3720W	69.82	54.27	70.74
6-	OS	3660W	69.88	54.12	70.65
6-	OS	3600W	65.02	54.82	70.54
6-	OS	3540W	71.66	53.15	70.23
6-	OS	3480W	70.43		
6-	OS	3460W	94.36	44.91	66.33
6-	OS	3360W	94.51	47.67	69.18
6-	OS	3300W	101.65	46.02	68.90
6-	OS	3240W	99.65	46.29	68.75
6-	OS	3180W	110.40	43.87	68.72
6-	OS	3120W	109.95	43.73	68.53
6-	OS	3060W	110.11	43.70	68.55
6-	OS	3000W	111.97	43.19	68.32
6-	OS	2940W	107.25	44.01	68.23
6-	OS	2880W	100.12	45.26	67.92
6-	OS	2820W	103.77	44.40	67.74
6-	OS	2760W	102.59	44.30	67.42
6-	OS	2700W	95.88	45.61	67.32

MAL CANADA

6-	OS	2640W	97.17	45.08	67.07
6-	OS	2580W	89.84	45.08	65.50
6-	OS	2580W	88.39	47.21	67.29
6-	OS	2460W	80.17	48.58	67.33
6-	OS	2340W	78.06	47.98	66.79
6-	OS	2280W	110.79	41.61	66.46
6-	OS	2220W	117.92	40.51	66.74
6-	OS	2160W	125.33	38.87	66.48
6-	OS	2100W	130.58	37.65	66.23
6-	OS	2040W	150.69	33.07	65.73
6-	OS	1980W	158.93	31.32	65.58
6-	OS	1920W	170.38	28.20	64.93
6-	OS	1860W	157.81	31.66	65.39
6-	OS	1800W	155.53		
6-	OS	1740W	138.28	35.74	65.51
6-	OS	1680W	133.03	36.77	65.52
6-	OS	1620W	128.87		
6-	OS	1560W	119.89	39.58	65.76
6-	OS	1500W	105.80	42.72	66.20
6-	OS	1440W	104.26		
6-	US	1380W	102.72	43.37	66.09
6-	OS	1320W	106.07	42.29	65.66
6-	OS	1260W	105.46	43.29	66.58
6-	OS	1200W	102.72	43.83	66.63
7-	OS	4560W	78.39	54.96	73.57
7-	OS	4500W	86.61	53.15	73.32
7-	OS	4440W	102.34	49.30	72.47
7-	OS	4380W	113.96	46.87	72.34
7-	OS	4320W	120.35	45.60	72.29
7-	OS	4260W	123.50	44.73	71.97
7-	OS	4200W	125.31	44.26	71.80
7-	OS	4080W	130.22	43.13	71.60
7-	OS	4020W	138.18	41.20	71.28
7-	OS	3960W	143.82	39.88	71.17
7-	OS	3900W	139.08	40.86	71.14
7-	OS	3840W	132.01	42.20	70.97
7-	OS	3780W	131.48	42.10	70.73
7-	OS	3720W	127.80	42.68	70.55
7-	OS	3660W	128.30	42.49	70.44
7-	OS	3600W	130.45	41.91	70.27
7-	OS	3540W	129.24	41.96	70.09
7-	OS	3480W	125.97	42.46	70.01
7-	OS	3420W	132.96	41.13	70.12
7-	OS	3360W	149.28	37.53	69.67
7-	OS	3300W	153.98	36.10	69.30
7-	OS	3240W	150.70	37.15	69.71
7-	OS	3180W	145.40	38.19	69.54
7-	OS	3120W	137.51	39.80	69.52
7-	OS	3060W	135.12	40.14	69.36
7-	OS	3000W	138.59	39.36	69.25
7-	OS	2940W	136.70		
7-	OS	2880W	139.97	38.99	69.19
7-	OS	2820W	137.24	39.52	69.20
7-	OS	2760W	138.33	39.14	69.01
7-	OS	2700W	129.84	40.79	68.99
7-	OS	2640W	128.82	40.87	68.87
7-	OS	2580W	126.97	40.99	68.64
7-	OS	2520W	130.66	40.13	68.52
7-	OS	2460W	132.27	39.68	68.45
7-	OS	2400W	131.38	39.75	68.41

MADE IN WADA

7-	OS	2340W	131.62	39.55	68.18
7-	OS	2280W	127.12	40.31	68.10
7-	OS	2220W	129.57	39.60	67.95
7-	OS	2160W	120.94		
7-	OS	2100W	116.66	41.83	67.73
7-	OS	2040W	90.50	46.72	67.84
7-	OS	1920W	110.74	42.34	67.10
7-	OS	1860W	120.20	40.48	67.11
7-	OS	1800W	128.78	38.60	66.92
7-	OS	1740W	126.42	39.30	67.03
7-	OS	1680W	125.12	39.47	66.86
7-	OS	1620W	121.95	40.47	67.25
7-	OS	1560W	122.81	40.43	67.34
7-	OS	1500W	118.13	41.54	67.53
7-	OS	1440W	112.38	42.71	67.53
7-	OS	1380W	104.64	44.12	67.38
7-	OS	1320W	110.22	43.04	67.39
7-	OS	1260W	108.45	43.27	67.27
7-	OS	1200W	107.54	43.38	67.21
8-	OS	5160W	123.31	47.10	74.34
8-	OS	5100W	113.95	48.81	74.23
8-	OS	5040W	105.46	50.22	74.06
8-	OS	4980W	102.75	50.60	73.91
8-	OS	4920W	92.95	52.41	73.87
8-	OS	4860W	95.95	51.74	73.73
8-	OS	4800W	103.81	50.07	73.50
8-	OS	4740W	101.25	50.41	73.34
8-	OS	4680W	105.01	49.47	73.14
8-	OS	4620W	111.61	47.95	72.93
8-	OS	4560W	110.73	48.01	72.81
8-	OS	4500W	111.98	47.51	72.56
8-	OS	4440W	117.51	46.22	72.35
8-	OS	4380W	123.24	44.93	72.17
8-	OS	4320W	128.70	43.75	72.04
8-	OS	4200W	142.34	40.55	71.44
8-	OS	4140W	144.22	40.08	71.31
8-	OS	4080W	144.62	39.91	71.20
8-	OS	4020W	143.83	40.04	71.17
8-	OS	3900W	139.07	40.69	70.89
8-	OS	3840W	137.22		
8-	OS	3780W	136.89	41.06	70.85
8-	OS	3720W	132.72	41.84	70.83
8-	OS	3660W	126.45	42.96	70.74
8-	OS	3600W	122.84	43.58	70.66
8-	OS	3540W	120.01	44.00	70.53
8-	OS	3480W	116.40	44.67	70.52
8-	OS	3420W	115.57	44.88	70.56
8-	OS	3360W	116.17	44.61	70.44
8-	OS	3300W	116.48	44.44	70.28
8-	OS	3240W	117.83	44.16	70.26
8-	OS	3180W	123.42	42.93	70.10
8-	OS	3120W	123.38	42.93	70.08
8-	OS	3060W	120.58	43.43	70.05
8-	OS	3000W	117.42	43.96	70.01
8-	OS	2940W	123.39	42.72	69.87
8-	OS	2880W	124.50	42.40	69.76
8-	OS	2820W	125.96	42.26	69.90
8-	OS	2760W	128.96	41.58	69.79
8-	OS	2700W	129.13	41.59	69.84
8-	OS	2640W	128.17	41.74	69.80

MAL CANADA

8-	OS	2580W	130.54	41.12	69.65
8-	OS	2520W	129.64	41.18	69.54
8-	OS	2460W	126.81	41.54	69.34
8-	OS	2400W	120.92	42.72	69.44
8-	OS	2340W	120.44	42.64	69.30
8-	OS	2280W	139.92	38.66	69.18
8-	OS	2220W	134.29	39.84	69.13
8-	OS	2160W	134.28	39.73	69.01
8-	OS	2100W	135.95	39.36	68.98
8-	OS	2040W	139.38	38.39	68.71
8-	OS	1980W	139.17	38.34	68.63
8-	OS	1920W	138.50	38.47	68.67
8-	OS	1860W	142.17	37.54	68.61
8-	OS	1800W	145.87	36.56	68.53
8-	OS	1740W	137.78	38.24	68.54
8-	OS	1680W	129.45	39.98	68.63
8-	OS	1620W	125.53	40.66	68.55
8-	OS	1560W	120.50	41.72	68.63
8-	OS	1500W	118.16	42.15	68.60
8-	OS	1440W	112.60	43.00	68.35
8-	OS	1380W	108.68	43.54	68.10
8-	OS	1320W	92.40	46.93	68.31
8-	OS	1260W	84.55		
8-	OS	1200W	72.33		
9-	OS	4900W	130.42	44.83	73.97
9-	OS	4840W	121.80	46.25	73.76
9-	OS	4780W	112.83	47.83	73.67
9-	OS	4620W	107.55	48.53	73.42
9-	OS	4560W	98.74	49.79	73.20
9-	OS	4500W	98.28	49.66	72.81
9-	OS	4440W	111.21	47.27	72.92
9-	OS	4380W	118.24	45.90	72.58
9-	OS	4320W	117.88	45.89	72.50
9-	OS	4260W	117.54	45.84	72.45
9-	OS	4200W	115.05	46.20	72.44
9-	OS	4140W	121.92	44.54	72.00
9-	OS	4080W	137.16	41.08	71.43
9-	OS	4020W	146.75	39.01	71.18
9-	OS	3960W	151.15		
9-	OS	3900W	155.57	36.68	70.66
9-	OS	3840W	145.26	38.89	70.78
9-	OS	3780W	132.28	41.58	70.97
9-	OS	3720W	121.61	43.82	71.18
9-	OS	3660W	118.89	44.45	71.14
9-	OS	3540W	120.54	43.93	70.87
9-	OS	3480W	118.90	44.17	70.79
9-	OS	3420W	116.64	44.66	70.84
9-	OS	3360W	120.49	43.77	70.68
9-	OS	3300W	118.84	44.00	70.59
9-	OS	3240W	116.90	44.19	70.42
9-	OS	3180W	117.24	44.18	70.46
9-	OS	3120W	123.94	42.75	70.34
9-	OS	3060W	121.59	43.26	70.38
9-	OS	3000W	118.75	43.76	70.33
9-	OS	2940W	114.02	44.62	70.32
9-	OS	2880W	114.12		
9-	OS	2820W	114.23	44.56	70.32
9-	OS	2760W	118.85	43.62	70.23
9-	OS	2700W	129.57	41.39	70.14
9-	OS	2640W	128.10	41.68	70.07

MADE IN JAPAN

MAL CANADA

9-	OS	2580W	122.33	42.86	70.12
9-	OS	2520W	121.40		
9-	OS	2460W	119.59	43.28	70.01
9-	OS	2400W	123.86	42.37	69.93
9-	OS	2340W	120.05	43.05	69.87
9-	OS	2280W	121.15	42.67	69.70
9-	OS	2220W	120.37	42.85	69.75
9-	OS	2160W	113.59	44.11	69.70
9-	OS	2100W	114.91	43.76	69.63
9-	OS	2040W	120.04	42.75	69.57
9-	OS	1980W	115.17	43.75	69.66
9-	OS	1920W	117.43	43.20	69.53
9-	OS	1860W	123.12	42.00	69.43
9-	OS	1800W	129.66	40.53	69.24
9-	OS	1740W	126.99	41.13	69.33
9-	OS	1680W	128.50	40.67	69.19
9-	OS	1620W	122.25	41.98	69.28
9-	OS	1560W	118.52	42.70	69.28
9-	OS	1500W	113.82	43.69	69.38
9-	OS	1440W	110.07	44.45	69.41
9-	OS	1380W	108.14	44.77	69.39
9-	OS	1320W	108.78	44.59	69.35
9-	OS	1260W	108.60	44.59	69.34
9-	OS	1200W	108.10	44.77	69.47
9-	OS	1140W	104.32	45.67	69.65
9-	OS	1080W	102.86	45.84	69.54
9-	OS	1020W	97.28	46.99	69.60
9-	OS	0960W	89.88	48.38	69.54
10-	OS	4500W	208.17	28.01	74.00
10-	OS	4440W	206.75	28.05	73.88
10-	OS	4380W	197.97	29.60	73.50
10-	OS	4320W	184.91	32.26	73.30
10-	OS	4260W	167.46	35.53	72.80
10-	OS	4200W	147.19		
10-	OS	4140W	130.86	42.98	72.83
10-	OS	4080W	131.27	42.93	72.58
10-	OS	4020W	128.28	43.30	72.37
10-	OS	3960W	131.09	42.60	72.10
10-	OS	3900W	133.76	41.86	71.78
10-	OS	3840W	129.66	42.45	71.69
10-	OS	3780W	137.65	40.63	71.32
10-	OS	3720W	146.34	38.67	71.01
10-	OS	3660W	161.76	34.97	70.75
10-	OS	3600W	152.79	36.98	70.77
10-	OS	3540W	142.70	38.98	70.73
10-	OS	3480W	133.31	40.82	70.73
10-	OS	3420W	122.43	43.01	70.82
10-	CS	3360W	117.23		
10-	OS	3300W	117.27		
10-	OS	3240W	117.31		
10-	OS	3180W	118.23	43.97	70.78
10-	OS	3120W	118.96	43.71	70.65
10-	OS	3060W	119.73	43.41	70.49
10-	OS	3000W	120.49	44.04	71.26
10-	OS	A2940W	121.31	44.21	71.59
10-	OS	A2840W	121.92	43.26	70.76
10-	OS	2880W	112.56	44.88	70.59
10-	OS	2820W	112.39	44.85	70.52
10-	OS	2760W	111.86	44.92	70.50
10-	OS	2700W	111.97	44.82	70.45

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10-	OS	2640W	123.22	42.54	70.36
10-	OS	2580W	134.79	40.20	70.35
10-	OS	2520W	130.18	41.02	70.16
10-	OS	2460W	119.05	43.38	70.33
10-	OS	2400W	114.88	44.20	70.35
10-	OS	2340W	113.55	44.47	70.37
10-	OS	2280W	111.29	44.94	70.46
10-	OS	2220W	120.35	42.96	70.15
10-	OS	2160W	124.21	42.18	70.13
10-	OS	2100W	128.61	41.33	70.21
10-	OS	2040W	132.39	40.52	70.28
10-	OS	1980W	119.44	43.04	70.10
10-	OS	1920W	108.07	45.30	70.25
10-	OS	1860W	107.91	45.38	70.23
10-	OS	1800W	115.58	43.77	70.05
10-	OS	1740W	113.87	44.17	70.13
10-	OS	1680W	112.10	44.50	70.13
10-	OS	1620W	110.74	44.70	70.10
10-	OS	1560W	105.24	45.80	70.13
10-	OS	1500W	99.54		
11-	OS	4500W	211.95	27.49	72.89
11-	OS	4440W	209.13	28.10	73.13
11-	OS	4380W	218.49	25.60	72.60
11-	OS	4320W	205.60	28.16	72.62
11-	OS	4260W	187.51	32.04	72.88
11-	OS	4200W	175.72	34.43	72.95
11-	OS	4140W	169.55	35.64	72.93
11-	OS	4080W	165.31	36.35	72.78
11-	OS	4020W	161.94	36.80	72.55
11-	OS	3960W	156.28	37.77	72.41
11-	OS	3900W	155.22	37.76	72.17
11-	OS	3840W	156.51	37.34	71.97
11-	OS	3780W	155.17	37.38	71.74
11-	OS	3720W	156.19	37.00	71.55
11-	OS	3660W	157.08	36.72	71.44
11-	OS	3600W	156.69	36.64	71.28
11-	OS	3540W	155.62	36.64	71.00
11-	OS	3480W	155.95	36.50	71.03
11-	OS	3420W	160.61	35.33	70.84
11-	OS	3360W	157.32	35.86	70.81
11-	OS	3300W	147.28	37.84	70.82
11-	OS	3240W	139.77	39.19	70.73
11-	OS	3180W	132.38	40.50	70.62
11-	OS	3120W	129.42	41.22	70.72
11-	OS	3060W	127.69	41.43	70.55
11-	OS	3000W	125.76	41.77	70.48
11-	OS	2940W	121.10	42.63	70.43
11-	OS	2880W	116.19		
11-	OS	2820W	116.48	43.54	70.38
11-	OS	2760W	112.82	44.40	70.53
11-	OS	2700W	113.83	44.19	70.49
11-	OS	2640W	114.17	44.10	70.45
11-	OS	2580W	113.71	44.19	70.45
11-	OS	2520W	111.92	44.49	70.41
11-	OS	2460W	112.19	44.45	70.42
11-	OS	2400W	114.79	43.96	70.41
11-	OS	2340W	114.93	44.05	70.53
11-	OS	A2280W	110.60	44.95	70.61
11-	OS	A2220W	108.73	45.33	70.64
11-	OS	A2160W	108.39	45.33	70.56

11-	OS	2280W	108.06	45.40	70.52
11-	OS	2220W	107.89	45.49	70.56
11-	OS	2160W	109.66	45.11	70.49
11-	OS	2100W	113.22	44.31	70.38
11-	OS	2040W	118.50	43.19	70.27
11-	OS	1980W	107.60	45.30	70.28
11-	OS	1920W	108.36	45.24	70.38
11-	OS	1860W	107.36	45.26	70.20
11-	OS	1800W	98.33	47.16	70.40
11-	OS	1740W	102.75	46.25	70.27
11-	OS	1680W	103.32	46.23	70.36
11-	OS	1620W	102.55	46.44	70.42
11-	OS	1560W	104.76	45.91	70.33
11-	OS	1500W	102.68	46.63	70.66
12-	OS	4080W	200.65	28.00	71.65
12-	OS	4020W	198.29	28.48	71.71
12-	OS	3960W	198.14	28.37	71.56
12-	CS	3900W	196.16	28.72	71.53
12-	OS	3840W	197.26	28.32	71.32
12-	OS	3780W	197.22	28.21	71.20
12-	OS	3720W	196.02	28.34	71.09
12-	OS	3660W	197.78		
12-	OS	3600W	197.56	27.74	70.77
12-	OS	3540W	194.81	28.30	70.80
12-	OS	3480W	192.65	28.68	70.77
12-	OS	3420W	194.22	28.14	70.56
12-	OS	3360W	190.80	28.57	70.37
12-	OS	3300W	178.70		
12-	OS	3240W	165.63	33.65	70.75
12-	OS	3180W	166.30	33.78	70.89
12-	OS	3120W	166.07		
12-	OS	3060W	166.58	33.29	70.40
12-	OS	3000W	169.86	32.63	70.51
12-	OS	2940W	163.65	33.73	70.49
12-	OS	2880W	145.05	37.35	70.47
12-	OS	2820W	128.87	40.31	70.21
12-	OS	2760W	124.26	41.37	70.26
12-	OS	2700W	126.21	41.11	70.26
12-	OS	2640W	124.33		
12-	OS	2580W	124.07		
12-	OS	2520W	127.61	40.87	70.20
12-	OS	2460W	132.09	39.99	70.17
12-	OS	2400W	134.43	39.56	70.20
12-	OS	2340W	133.24	39.86	70.26
12-	OS	2280W	130.48	40.49	70.33
12-	OS	2220W	127.48	41.19	70.43
12-	OS	2160W	124.40	41.82	70.45
12-	OS	2100W	131.60	40.26	70.31
12-	OS	2040W	131.25	40.39	70.35
12-	OS	1980W	125.69	41.57	70.46
12-	OS	1920W	128.53	40.98	70.42
12-	OS	1860W	130.51	40.57	70.42
12-	OS	1800W	132.60	40.12	70.45
12-	OS	1740W	135.57	39.31	70.37
12-	OS	1680W	131.49	40.17	70.46
12-	OS	1620W	123.82		
12-	OS	1560W	116.80	42.98	70.35
12-	OS	1500W	104.76	45.42	70.41
13-	OS	6240W	175.70	33.29	72.27
13-	OS	6180W	177.88	32.70	72.08

MAL CANADA

13-	OS	6120W	171.11	34.21	72.38
13-	OS	6060W	173.82		
13-	OS	6000W	182.60	31.73	72.05
13-	OS	5040W	187.78		
13-	OS	4980W	194.14	29.37	72.06
13-	OS	4920W	194.97	29.38	72.29
13-	OS	4860W	199.47	28.52	72.22
13-	OS	4800W	200.09	28.44	72.23
13-	OS	4740W	202.26	27.91	72.22
13-	OS	4680W	205.02	26.84	71.73
13-	OS	4620W	211.18	25.37	71.43
13-	OS	4560W	217.73	23.81	71.16
13-	OS	4500W	226.35	21.64	70.70
13-	OS	4440W	230.79	20.55	70.44
13-	OS	4380W	235.22	19.41	70.11
13-	OS	4320W	245.99	16.99	69.79
13-	OS	4260W	244.40	17.51	69.89
13-	OS	4200W	249.04	16.24	69.50
13-	OS	4140W	248.75	16.35	69.53
13-	OS	4080W	256.58	14.59	69.32
13-	OS	4020W	255.58	15.08	69.59
13-	OS	3960W	258.97	14.29	69.48
13-	OS	3900W	256.52	14.56	69.27
13-	OS	3840W	253.99	15.33	69.57
13-	OS	3780W	258.06	14.32	69.36
13-	OS	3720W	256.22	14.68	69.37
13-	OS	3660W	254.26	14.92	69.25
13-	OS	3600W	256.61	14.38	69.23
13-	OS	3540W	254.13	14.86	69.27
13-	OS	3480W	249.02	15.97	69.40
13-	OS	3420W	237.44	18.46	69.63
13-	OS	3360W	231.28	19.93	69.92
13-	OS	3300W	230.52	19.92	69.76
13-	OS	3240W	229.74	19.79	69.53
13-	OS	3180W	222.09	21.49	69.79
13-	OS	3120W	209.70	23.91	69.90
13-	OS	3060W	207.99	24.14	69.78
13-	OS	3000W	206.41	24.32	69.71
13-	OS	2940W	190.77	27.49	69.92
13-	OS	2880W	189.92	27.47	69.77
13-	OS	2820W	176.32	30.24	69.93
13-	OS	2760W	162.26	33.07	70.07
13-	OS	2700W	156.03	34.19	69.87
13-	OS	2640W	146.63	36.12	69.90
13-	OS	2580W	149.39	35.87	69.96
13-	OS	2520W	147.12	36.31	69.90
13-	OS	2460W	145.13	36.79	69.99
13-	OS	2400W	148.84	36.15	69.98
13-	OS	2340W	149.69	35.99	69.94
13-	OS	2280W	151.06	35.76	69.97
13-	OS	2220W	149.53	36.06	69.99
13-	OS	2160W	143.03	37.36	70.08
13-	OS	2100W	141.65	37.61	70.10
13-	OS	2040W	133.22		
13-	OS	1980W	119.90	41.97	70.42
13-	OS	1920W	118.63		
13-	OS	1860W	122.41	41.82	70.51
13-	OS	1800W	124.64	41.38	70.50
13-	OS	1740W	124.62	41.35	70.44
13-	OS	1680W	135.90	39.00	70.35

MADE IN CANADA

13-	OS	1620W	139.61	38.35	70.59
13-	OS	1560W	126.69	41.08	70.67
13-	OS	1500W	117.17	43.10	70.83
13-	OS	1440W	111.12	44.45	71.01
13-	OS	1380W	101.59	46.39	71.12
13-	OS	1320W	100.63	46.68	71.16
13-	OS	1260W	105.67	45.79	71.26
13-	OS	1200W	100.33	46.86	71.27
13-	OS	1140W	101.37	46.69	71.33
13-	OS	1080W	88.17	48.93	70.95
14-	OS	4940W	158.53	35.34	71.85
14-	CS	4880W	168.55	33.31	71.93
14-	OS	4820W	171.20	32.96	72.03
14-	OS	4760W	176.13	31.84	71.79
14-	OS	4700W	181.16	30.70	71.63
14-	OS	4640W	183.50	29.87	71.27
14-	OS	4580W	197.82	26.75	71.01
14-	OS	4520W	208.06	24.50	70.84
14-	OS	4460W	220.06	21.92	70.65
14-	OS	4400W	221.62	21.57	70.52
14-	OS	4340W	232.51	19.00	70.05
14-	OS	4280W	248.92	15.35	69.70
14-	OS	4220W	252.72	14.65	69.50
14-	OS	4160W	258.43	13.22	69.04
14-	OS	4100W	264.44	11.96	68.84
14-	OS	4440W	263.45	12.22	68.75
14-	OS	3980W	272.16	10.06	68.23
14-	CS	3920W	284.73	7.24	67.92
14-	OS	3860W	285.75	7.16	67.92
14-	OS	3800W	287.99	6.71	67.84
14-	OS	3740W	284.28	7.52	67.77
14-	OS	3680W	276.75	9.35	68.11
14-	OS	3620W	282.30	8.03	67.86
14-	OS	3560W	282.59	7.80	67.80
14-	OS	3500W	268.32	10.82	67.97
14-	OS	3440W	259.73	13.02	68.53
14-	OS	3380W	258.59	13.38	68.65
14-	OS	3320W	254.43	14.31	68.78
14-	OS	3260W	257.71	13.44	68.54
14-	OS	3200W	255.97	13.60	68.41
14-	OS	3140W	265.20	11.37	68.20
14-	OS	3080W	263.09	11.62	68.19
14-	OS	3020W	243.51	16.08	68.73
14-	OS	2960W	238.03	17.18	68.82
14-	OS	2900W	229.17	19.05	68.99
14-	OS	2840W	223.18	20.30	69.11
14-	OS	2780W	215.19	21.86	69.11
14-	OS	2720W	196.82	25.76	69.46
14-	OS	2660W	201.54	24.91	69.47
14-	OS	2600W	193.03	26.69	69.54
14-	OS	2540W	179.64		
14-	OS	2480W	179.39	29.49	69.60
14-	OS	2420W	180.18	29.09	69.32
14-	OS	2360W	172.43	30.51	69.25
14-	OS	2300W	159.43	33.42	69.64
14-	OS	2240W	166.55	32.08	69.65
14-	OS	2180W	172.48	30.83	69.52
14-	OS	2120W	165.86	32.37	69.78
14-	OS	2060W	166.47	32.20	69.79
14-	CS	2000W	167.27	32.06	69.84

MAD CANADA

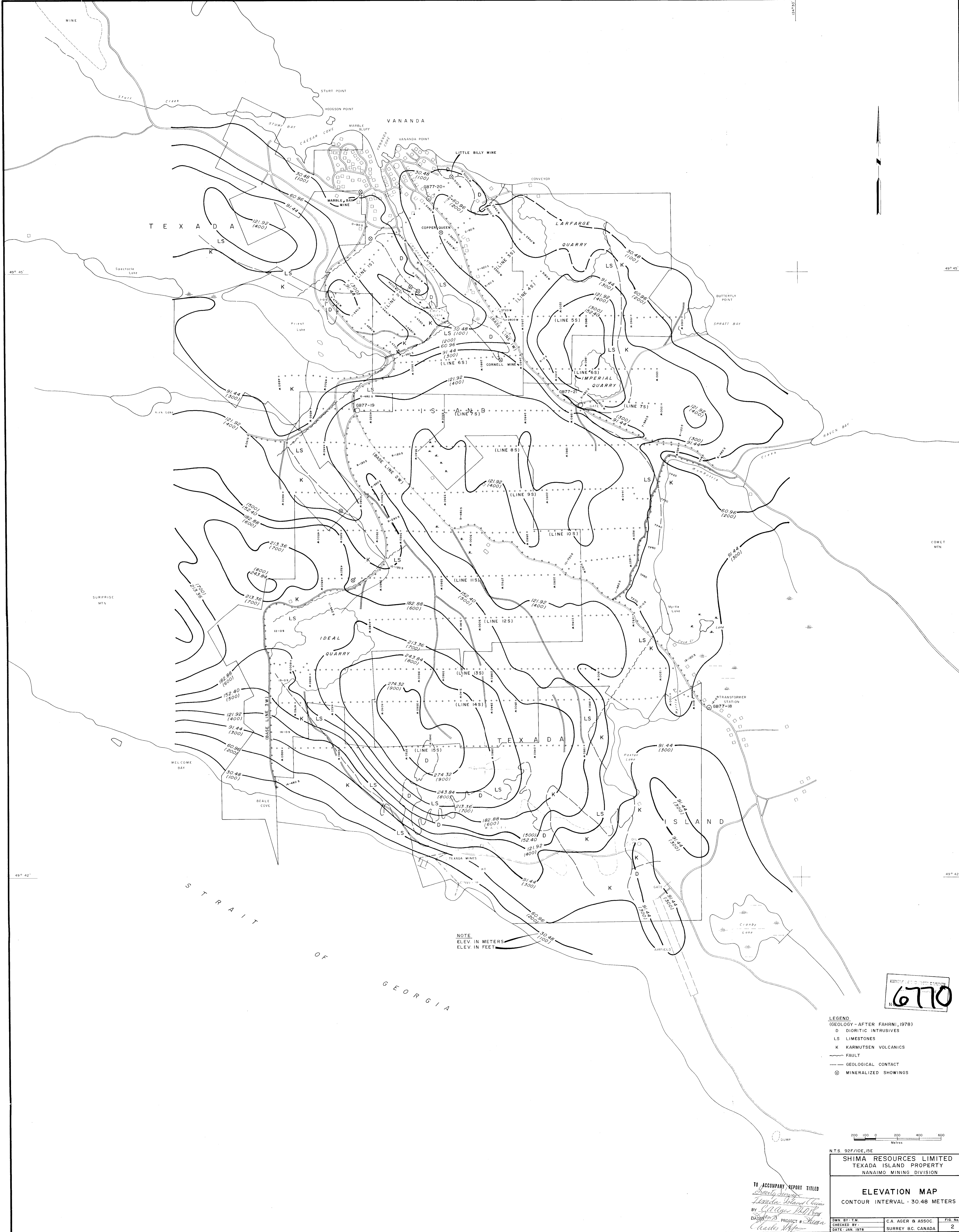
14-	OS	1940W	163.50	32.71	69.97
14-	OS	1880W	159.84		
14-	OS	1820W	145.44	36.32	70.12
14-	OS	1760W	125.44	40.47	70.31
14-	OS	1700W	109.19		
14-	OS	1640W	110.97	43.93	70.80
14-	OS	1580W	113.07	43.67	70.81
14-	OS	1520W	111.67	44.15	70.99
14-	OS	1460W	107.63	45.07	71.11
14-	OS	1400W	103.20	46.00	71.18
14-	OS	1340W	103.90	45.87	71.17
14-	OS	1280W	100.63	46.47	71.13
14-	OS	1220W	97.43	47.16	71.18
14-	OS	1160W	92.82	48.14	71.24
14-	OS	1100W	88.52	49.05	71.31
14-	OS	1040W	87.66	49.18	71.25
14-	OS	0980W	86.77	49.23	71.13
14-	OS	0920W	88.36	48.64	70.87
14-	OS	0860W	90.33	48.19	70.81
14-	OS	0800W	92.28	47.70	70.69
15-	OS	4980W	73.25	49.96	70.56
15-	OS	4920W	79.22	48.72	70.49
15-	OS	4860W	87.47	47.10	70.50
15-	OS	4800W	101.37	44.30	70.43
15-	OS	4740W	118.29	40.84	70.40
15-	OS	4680W	116.93	41.24	70.45
15-	OS	4620W	118.67	40.87	70.38
15-	OS	4560W	121.72	40.08	70.24
15-	OS	4500W	120.37	40.19	70.16
15-	OS	4440W	119.09	40.12	70.10
15-	OS	4380W	122.09	39.30	70.25
15-	OS	4320W	132.16	36.92	70.16
15-	OS	4260W	152.30	32.27	69.56
15-	OS	4200W	169.84		
15-	OS	4140W	194.31	23.30	68.77
15-	OS	4080W	213.73	18.99	68.04
15-	OS	4020W	223.77		
15-	OS	3960W	244.18	12.73	67.18
15-	OS	3900W	256.09	10.21	66.66
15-	OS	3840W	265.22	8.39	66.30
15-	OS	3780W	273.07	6.73	65.91
15-	OS	3720W	279.59	5.49	65.74
15-	OS	3660W	286.02	4.01	65.35
15-	OS	3600W	284.95		
15-	OS	3540W	284.74	5.53	66.44
15-	OS	3480W	281.33	6.64	66.77
15-	OS	3420W	287.84	4.93	66.31
15-	OS	3360W	285.75	4.95	65.91
15-	OS	3300W	286.43		
15-	OS	3240W	284.38	4.95	65.69
15-	OS	3180W	278.08	6.17	65.67
15-	OS	3120W	266.39	8.88	66.12
15-	OS	3060W	263.07	9.63	66.27
15-	OS	3000W	253.82	11.67	66.53
15-	OS	2940W	246.78	13.33	66.84
15-	OS	2880W	242.04	14.32	66.94
15-	OS	2820W	229.02	17.31	67.40
15-	OS	2760W	222.65	18.88	67.71
15-	OS	2700W	218.18	19.97	67.90
15-	OS	2640W	209.79	21.67	67.95

MADE IN CANADA

15-	OS	2580w	194.09	24.81	68.08
15-	OS	2520w	197.42	24.70	68.49
15-	OS	2400w	197.47	24.71	68.47
15-	OS	2400w	193.25		
15-	OS	2340w	187.29	26.85	68.63
15-	OS	2280w	194.34	25.26	68.40
15-	OS	2220w	192.52	25.62	68.49
15-	OS	2160w	192.92	25.38	68.45
15-	OS	2100w	184.98	27.06	68.72
15-	OS	2040w	173.85	29.42	69.00
15-	OS	1980w	158.93	32.67	69.39

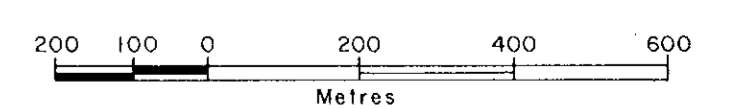
EXECUTION TERMINATED

\$SIGNOFF



6770

- LEGEND
 (GEOLOGY - AFTER FAHRNI, 1978)
- D DIORITIC INTRUSIVES
 - LS LIMESTONES
 - K KARMTUSEN VOLCANICS
 - FAULT
 - GEOLOGICAL CONTACT
 - ⊗ MINERALIZED SHOWINGS

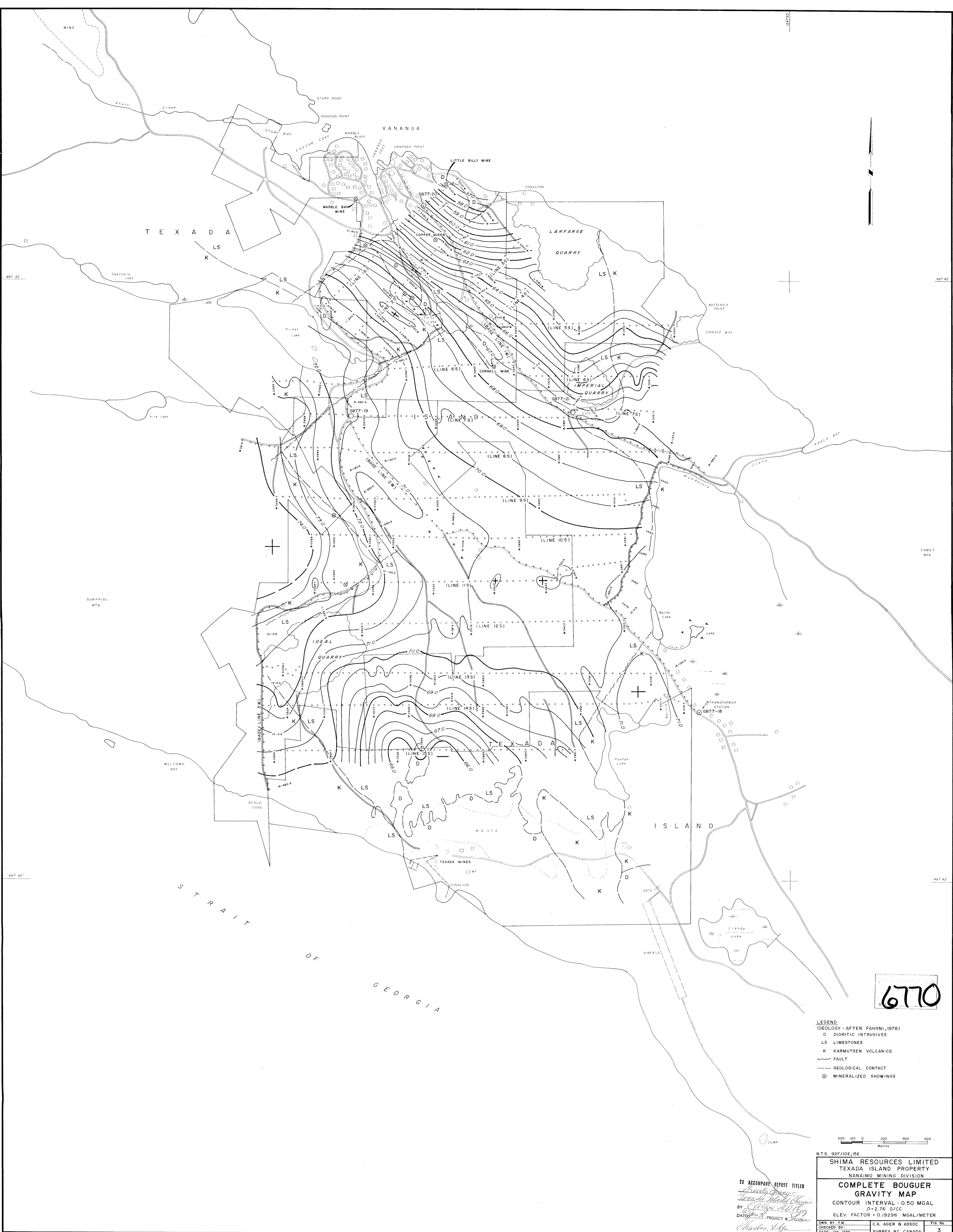


N.T.S. 92F/10E, 15E
 SHIMA RESOURCES LIMITED
 TEXADA ISLAND PROPERTY
 NANAIMO MINING DIVISION

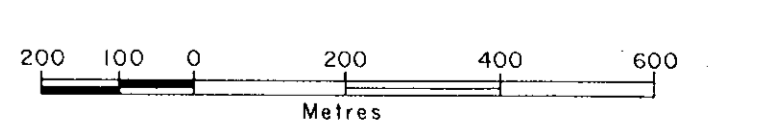
ELEVATION MAP
 CONTOUR INTERVAL - 30.48 METERS

TO ACCOMPANY REPORT TITLED
Geology of Texada Island
 BY *C.A. Ager*
 DATED *1978* PROJECT # *2000*
Charles Ager

DWN BY: T.M.	C.A. AGER & ASSOC.	FIG. NO.
CHECKED BY:	SURREY B.C. CANADA	2
DATE: JAN 1978		



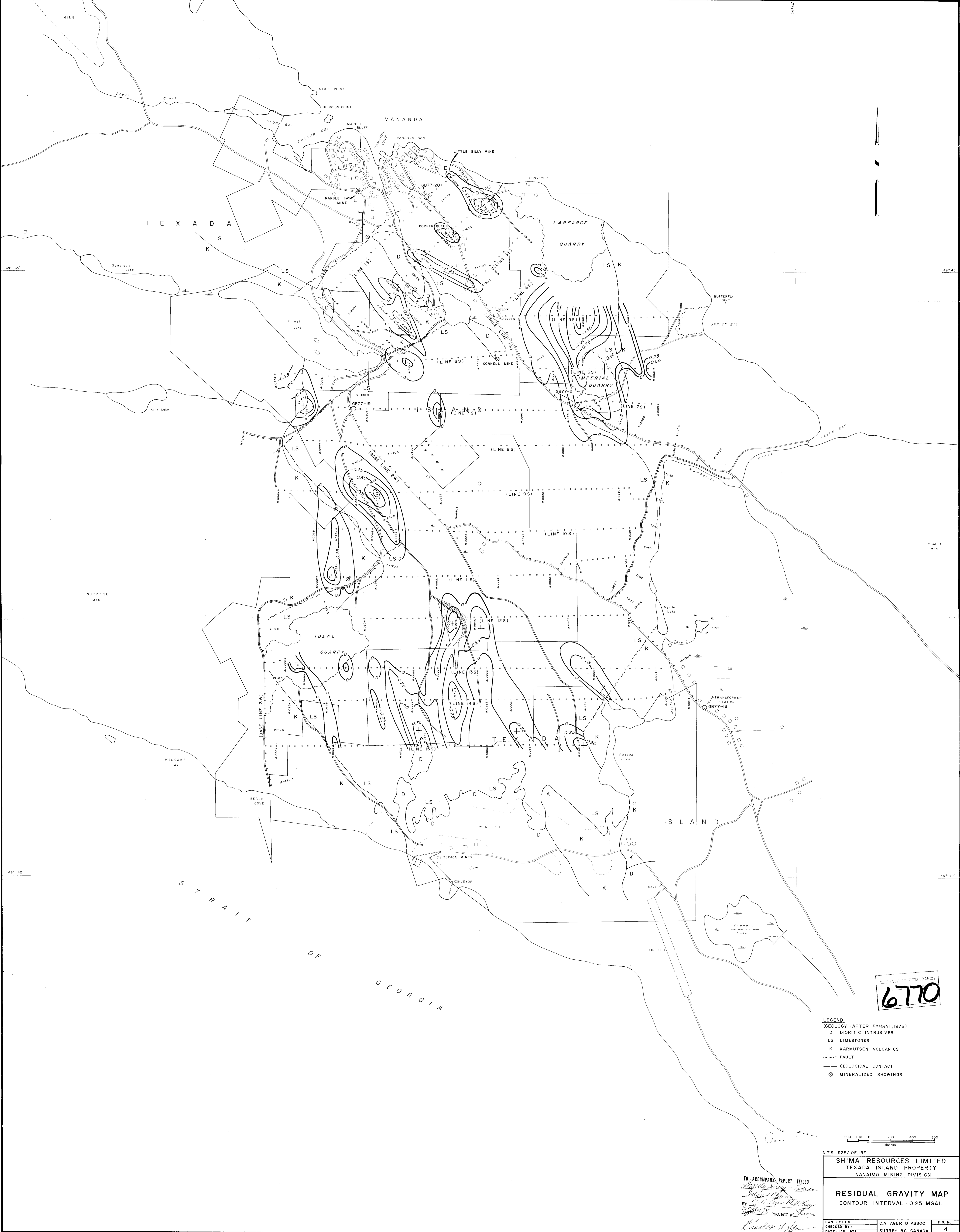
LEGEND
 (GEOLOGY - AFTER FAHRNI, 1978)
 D DIORITIC INTRUSIVES
 LS LIMESTONES
 K KARMUTSEN VOLCANICS
 --- FAULT
 --- GEOLOGICAL CONTACT
 ⊗ MINERALIZED SHOWINGS



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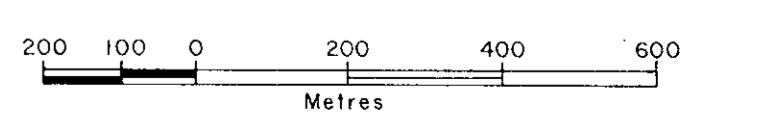
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Geology of Texada Island
 BY *C.A. Ager*
 DATED *1978* PROJECT # *Shima*
Charles Ager

NTS 92F/10E,15E		
SHIMA RESOURCES LIMITED TEXADA ISLAND PROPERTY NANAIMO MINING DIVISION		
COMPLETE BOUGUER GRAVITY MAP		
CONTOUR INTERVAL - 0.50 MGAL P = 2.76 G/CC ELEV. FACTOR = 0.19296 MGAL/METER		
OWN BY: T.M.	C.A. AGER & ASSOC.	FIG. No.
CHECKED BY:	SURREY B.C. CANADA	3
DATE: JAN. 1978		



6770

- LEGEND
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- D DIORITIC INTRUSIVES
 - LS LIMESTONES
 - K KARLUTSEN VOLCANICS
 - FAULT
 - GEOLOGICAL CONTACT
 - ⊗ MINERALIZED SHOWINGS



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RESIDUAL GRAVITY MAP
 CONTOUR INTERVAL 0.25 MGAL

TO ACCOMPANY REPORT TITLED
Gravity Map - Texada Island
 BY *C. Ager & Assoc.*
 DATE *Jan 1978* PROJECT # *Shima*
Charles Ager

DWN BY: T.M.
 CHECKED BY: C.A. AGER & ASSOC.
 DATE: JAN. 1978

C.A. AGER & ASSOC.
 SURREY, B.C. CANADA

FIG. No.
 4