

011779

PROPERTY FILE

925033-07

MEPS

*Open file*

1979 Assessment Report

Diamond Drilling

Title: Santa Property

Claims: Santa

Location: Callaghan Creek  
Vancouver, B.C.  
92J 3E 50° 10' N 123° 08' W

By: L. Sookochoff, P.Eng.  
Pan-American Consultants Ltd.  
2602-1055 West Georgia Street  
Vancouver, B.C.

For: Lakewood Mining Co. Ltd.  
2245 West 13th Avenue  
Vancouver, B.C.

Dates of Work: April 1979 to November 1979

MINISTRY OF ENERGY,  
MINES & PETROLEUM RESOURCES

REC'D. FEB 15 1980

GD 

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FILE: \_\_\_\_\_

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ILLUSTRATIONS

MAP NO. 1                      LOCATION MAP

## SUMMARY

Two diamond drill holes were completed on the Santa property of Lakewood Mining Co. Ltd. during the period of April to November 1979.

The property is located east of Callaghan Creek and within three km northwest of the Northair property. The property consists of five claims totaling 35 units.

Diamond drill holes 1 and 2 were drilled for a total depth of 426 meters with D.D.H. 1 intersecting a meta-diorite and D.D.H. 2 meta volcanics and agglomeritic tuffaceous sandstones and siltstones.

INTRODUCTION

A diamond drilling program on the Santa property of Lakewood Mining Co. Ltd. was completed over the period of April to November 1974. The drill holes were of BQ core size and were spotted to test geochemical and I.P. anomalous zones as determined from localized surveys.

LOCATION, ACCESS AND TOPOGRAPHY

The property is located near Callaghan Creek and within 3 km northwest of the gold-silver-lead-zinc-copper producing Northair Mines property. Vancouver is 100 km to the south.

Access is via a newly constructed six and one half km road intersecting a secondary road 13 km from the Squamish-Pemberton Highway and three km north of Daisy Lake.

Topography is of gentle slopes and steep bluffs. Elevations range up to 1700 meters a.m.s.l. Local relief within the confines of the property is 700 meters.

CLAIMS

The property consists of four contiguous claim blocks totaling 35 units. Data on the claims is as follows:

<u>Claim Name</u>	<u>Units</u>	<u>Record No.</u>	<u>Expiry Date</u>
Santa	20	64	Dec. 22, 1984
Santa North	6	76	March 22, 1988
Santa East	3	77	March 22, 1988
Santa Southeast	2	75	March 22, 1988
Santa South	4	78	March 22, 1988

\* After work application of D.D.H. 1 and 2

## HISTORY

5.

Previous work on the property by Lakewood Mining consisted of three diamond drill holes drilled in 1977 in the Wood Lake area. The drilling was initiated on the basis of a localized I.P. survey and soil geochemistry survey in the West Lake zone area.

As a result of a subsequent geophysical and geochemical survey in the area designated as the North Swamp area approximately 600 meters west of Wood Lake, two diamond drill holes were drilled to test the indicated anomalies.

## GEOLOGY

The Santa claims predominantly cover a northwesterly elongated pendant of meta volcanics (greenstone) in addition to minor metasediments. The greenstone is in contact with a granodiorite phase of the Coast Intrusives in the northeast. A northwesterly trending contact with recent volcanics occurs along the southwest corner of the property.

Altered to gneissic or schistose diorites occur as intrusions within the pendant resulting in superimposed variable degrees of metamorphism. Limestone also occurs 500 meters north of the north end of Wood Lake.



1979 DRILLING

Particulars on the two diamond drill holes are as follows:

D.D.H. 1

Location: Santa Claim (see Fig. 1)

Dip:  $-90^{\circ}$

Depth: 152 meters (500 ft.)

Results: A meta-diorite was intersected over the full length of the hole. Related metamorphic minerals such as chlorite, hematite, calcite and pyrite with minor ankerite and quartz-feldspar veinlets occur throughout.

Selected core samples were assayed from the 224 foot to the 500 foot interval. The results indicated no significant mineralization although generally an increasing (however small) gold content correlated with a decreasing silver and copper content.

D.D.H. 1 was drilled by F. Shonick of Squamish from May 28, 1979 to June 18, 1979. The BQ core is stored at 2245 West 13th Avenue

D.D.H. 2

Location: SANTA CLAIM - 180 meters west of D.D.H. 1  
(see Fig. 1)

Dip: -57°

Bearing: 300°

Depth: 274 meters (900 ft.)

Results: Meta volcanics with localized dioritized andesite, tuff and basalt sections were intersected to 304 ft. Variable degrees of chlorite, epidote, pyrite and calcite flooding occur in the dioritized sections.

The bottom section of the drill hole intersected predominantly banded tuffaceous sandstones and siltstones with localized agglomeritic fragments.

An assay of a selected core sample at 360 ft. returned average mineral concentrations of Mo, Cu, Au and Ag.

D.D.H. 2 was drilled by Longyear from August 10, 1979 to August 17, 1979. The BQ core is stored at 2245 West 13th Avenue and on the property.

CONCLUSIONS

The two drill holes did not intersect any mineralization of significance, however the increasing gold content in D.D.H. 1 may indicate a trending proximity towards a gold enriched source or an included or superimposed mineral zoning within the meta diorite.

The I.P. anomaly which was tested by the drill holes was due to the variable pyrite content of the meta diorite volcanics and sediments. The molybdenum anomaly indicated on the surface and also tested by the drilling was probably derived from anomalous molybdenum values exposed in a proximal trench.

The geological information obtained from the two drill holes would be valuable in the interpretation of future exploration results in the area.

Respectfully submitted,



Laurence Sookochoff, P.Eng.  
Consulting Geologist

February 12, 1980  
Vancouver, B.C.

CERTIFICATE

I, Laurence Sookochoff, of the City of Vancouver, in the Province of British Columbia, do hereby certify:

That I am a Consulting Geologist with the firm of Pan-American Consultants Ltd. of 2602-1055 West Georgia Street, Vancouver, B.C.

I further certify that:

1. I am a graduate of the University of British Columbia (1966) and hold a B.Sc. degree in Geology.
2. I have been practising my profession for the past thirteen years.
3. I am registered with the Association of Professional Engineers of British Columbia.
4. The information for this report was obtained from previous work the writer has done on the property prior to the logging of the core of D.D.H. 1 and 2. Additional information was obtained from pertinent published reports on the area.

Laurence Sookochoff, P.Eng.  
Consulting Geologist

February 12, 1980  
Vancouver, B.C.



APPENDIX I

## Statement of Costs

D.D.H. 1 Billing from F. Shonick	\$ 8,095.50
D.D.H. 2 Billing from Longyear Canada Inc.	14,100.90
Core boxes	72.23
	172.64
Room and Board - Garibaldi Lodge	736.80
Vangeochem Lab. Ltd. - assays	32.10
General Testing - assays	67.75
Geological fees and report	<u>800.00</u>
	<u>\$24,077.92</u>

APPENDIX II

DRILL LOGS OF D.D.H. 1 and D.D.H. 2

Property Santa Property - Lakewood Mining

# DIAMOND DRILL SAMPLING RECORD

Started May 28, 1979

Bearing ..... Dip at Collar -90° Hor. Comp. .... Ver. Comp. ....

Finished June 18, 1979

Location ..... Elevation ..... Lat. .... Dept. ....

Logged by L. Sookochoff, P. Eng.

Purpose of Hole .....

DIP TESTS

Hole No. 1

Sheet No. 1

Drilled by

F. Shonick

Distance		DESCRIPTION	Sample No.	Length Ft.	Core Recovery %	Analysis				PROGRESSIVE TOTALS				
From	To					Au	Ag	Cu	MO	FEET & PER CENT				
						ppm.	ppm.	ppm.	ppm.					
0	500	Meta-diorite-hypidiomorphic granular texture, predominantly medium grained but also local coarse and fine grained. Euhedral to subhedral whitish feldspar crystals in anhedral to massive texture of mafic ground mass. Mafics variably altered to chl. < 40%. Variable epidote diss. up to 10% in matrix. Occ. ep str., cal. str. and on fractures Mod. to lt. py. as diss., blebs and rarely veinlets. Trachytic texture from light to near schistose. Occ. to rare diss. and v.l. red hem. 10' - trach @ 65° to ca. Coarser gr. sections usually carry more red hem.		Footage										
			1-224	224		0.02	1.4	118	4					
			1-280	280		0.02	5.5	26	4					
		112-118 Loc. dk. f.g. dykes < 2" wide @ 75° to ca. @ 118-125, 473-1" @ 75°	1-408	408		0.02	0.5	115	6					
		146 heavy red hem. 202-225 porphyritic	1-425	425		0.17	0.31	50	2					
		267-2" ankerite cemented breccia zone 314-315 broken fine grained (f.g.)	1-456	456		0.10	0.51	49	4					
		454-1" Qtz. fels. @ 65°	1-500	500		0.10	0.34	29	2					
		455-1" Qtz. fels. @ 80°												
		472 lt. trachytic @ 80°												
		500 End of Hole												

Grab samples of core take at specified intervals

L. Sookochoff  
7/26/79

Property Santa Property-Lakewood Mining

# DIAMOND DRILL SAMPLING RECORD

DIP TESTS

Hole No. 2  
 Sheet No. 1  
 Drilled by:  
 Longyear

Started August 10, 1979

Bearing 300° Dip at Collar -57° Hor. Comp. Ver. Comp.

Finished August 17, 1979

Location Elevation Lat. Dept.

Logged by L. Sookochoff, P.Eng.

Purpose of Hole

Distance		DESCRIPTION	Sample No.	Length Ft.	Core Recovery %	Analysis	PROGRESSIVE TOTALS			
From	To						FEET & PER CENT			
0	304	Meta-volcanics - variable volcanic flows . variable degrees of metamorphism. Includes sections of tuff and sediments. Dioritized volcanics - obscure grey fels. xls; aphanitic to f.g.; lt. to mod. py. diss.; mod. to heavy chlorite alt'n.; intermittent zones of red hematite as diss. or on fr. planes; lt. to mod. epidote diss., splashes, fr. coating and v.l.; lt. to mod. cal. flooding and v.l.w./qtz. 0-38 48-55 cont. @ 45°; 65-67 lt. trach. @ 50°; fr. @ 55° and random; 69-97 cont. @ 40° 225-239 v.l. @ 50°-60° w/ep r.h. cal. @ 75°; 248-304 f.g. mod. ep. cal. v.l. occ. rh.								
		Basalt - Reddish grey to dk. grey-black aphanitic; zeolitic amydgules <b>38-48</b> Andesite - Aphanitic prop'd.; dk. greenish grey w/r.h. and cal. on fr. @ 50° py blebs throughout; 57-65, 67-69, 97-181 occ. fr. @ 45° 85° rare py cal amydgules 147 - broken > cal and ep. to 150 161 - massive ½" py. 179-181 - Rhyolitic - lt. pinkish sec. Contact @ 60°; heavy py @ 184.								

*L. Sookochoff*  
 Feb 12/80



Property Santa Property - Lakewood Mining

# DIAMOND DRILL SAMPLING RECORD

DIP TESTS

Hole No. 2

Sheet No. 2

Started ..... Bearing ..... Dip at Collar ..... Hor. Comp. .... Ver. Comp. ....

Finished ..... Location ..... Elevation ..... Lat. .... Dept. ....

Logged by ..... Purpose of Hole .....

Distance		DESCRIPTION	Sample No.	Length Ft.	Core Recovery %	Analysis				PROGRESSIVE TOTALS										
From	To					Mo	Cu	Au	Ag	FEET & PER CENT										
						ppm.	ppm.	ppm.	ppm.											
		Tuff-andesitic aphanitic to f.g. dk. grey to black; occ. black shards 181-225 - localized c.g. diorite 210-220 banding @ 45°																		
		239-248		360		3	22	0.02	.2											(Grab sample of core)
304	900	Tuffaceous sandstone and silt stones - predominantly banded, variably silicified, localized megmatitic; diss. py. w/localized agglomeritic - frags. up to 3 cm. 314-320 - Qtz. w/m.h. py. 320-322 - qyps. on fr. 452 - banding @ 45° 557-561 > siliceous zone 634 cpy. bleb in Qtz. 882-884 - gougy 900 mod. ep. and ep. replacing fels. in black f.g. matrix																		
		E.O.H.																		

*[Handwritten Signature]*  
Feb 1/80



VANGEOCHEM LAB LTD.  
 1521 PEMBERTON AVE.,  
 NORTH VANCOUVER, B.C.,  
 CANADA V7P 2S3

TELEPHONE: 986-5211  
 AREA CODE: 604

• Specialising in Trace Elements Analyses •

**Certificate of Geochemical Analyses**

-IN ACCOUNT WITH-

Lakewood Mining Company  
 2245 West 13th Avenue  
 Vancouver, B. C. V6K 2S4

Attention:

Report No: 79 52 013 Page 1 of 1  
 Samples Arrived: Nov. 28, 1979  
 Report Completed: Dec. 4, 1979  
 For Project: Santa  
 Analyst: E.T. & VGC Staff  
 Invoice #5415 Job # 79-349

Sample Marking	Mo ppm	Cu ppm	*Ag ppm	Au ppb		
Westside Trench	25**	1000	0.8	—		West of Swamp
Westside Trench	2	1500	1.9	40		West of Swamp (Rock)

MASTER PRINTING LTD.

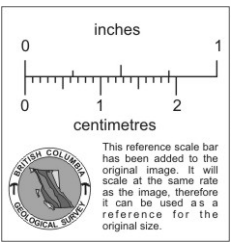
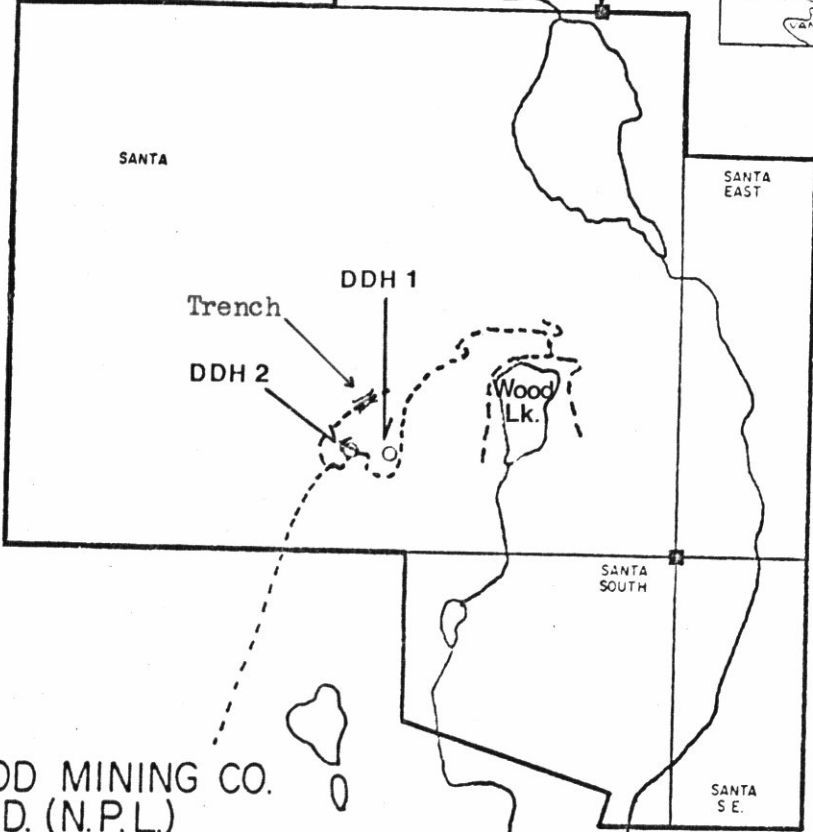
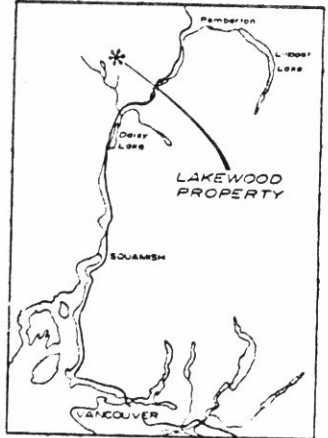
REMARKS: \*Ag = Ag background corrected.  
 \*\* sample repeated for analysis and checked O.K.

Signed:

% Mo x 1.6683 = % MoS<sub>2</sub>      1 Troy oz./ton = 34.28 ppm      1 ppm = 0.0001%      nd = none detected      ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

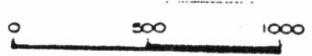
SANTA PROPERTY  
BOUNDARY



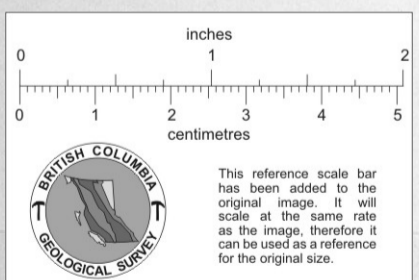
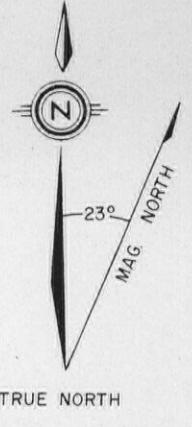
LAKWOOD MINING CO.  
LTD. (N.P.L.)

SANTA PROPERTY  
LOCATION MAP  
VANCOUVER M.D., B.C.

SCALE:



MAP 1



**LEGEND**

- INDUCED POLARIZATION ANOMALIES
- GEOCHEMICAL ANOMALIES (LEAD, ZINC, COPPER, SILVER)

**LAKWOOD MINING Co. LTD. (N.P.L.)**

SANTA PROPERTY  
WESTSIDE ZONE  
VANCOUVER M.D., B.C.

**GEOCHEMICAL & GEOPHYSICAL  
ANOMALIES MAP**



2245 W. 13th AVE.,  
VANCOUVER, B.C.  
V6K 2S4  
TELEPHONE: 733-2408

MINING CO. LTD. N.P.L.

May 28, 1979

Fred Schomig,  
41360 Eagle Run  
Brackendale, B.C.  
Box 675.

Received from Lakewood Mining Co. Ltd. N.P.L. Three Thousand, Five Hundred Dollars (\$3,500) as a down payment for diamond drilling on the westside zone (Santa Claims) at \$15.00 per foot.

*F. Schomig*  
Fred Schomig

*Cheque  
# 140*

Ferdinand Schomig,  
Box 675,  
Squamish, B.C.,  
VON 3G0.

Lakewood Mining Co., Ltd., NPL.  
2245, W.13th Avenue, Vancouver, B.C. V6K 2S4  
Phone: 733-2408

---

Re: Diamond Drilling on Santa Claims -

500 Feet Drilling @ \$15.00 per foot	\$7,500.00
<u>Less</u> Down Payment received	<u>3,500.00</u>
	<u>\$4,000.00</u>
<u>Plus</u> Casing Pipes left in hole	\$ 205.00
(One Casing Bit)	90.50
<u>Plus</u> One Additional Bit	<u>300.00</u>
<u>Total</u> Amount Received	<u><u>\$4,595.50</u></u>

July, 15th, 1979

*Paid by cheque  
15/*

INVOICE

PHONE: 433-5141



5791 BERESFORD STREET  
BURNABY, B.C. V5J 1J9

June 14/79

DIAMOND DRILL  
REPAIRS & SERVICE  
CORE BOXES  
WIRE-LINE HOISTS

SOLD TO Lakewood Mining Ltd.,  
2245 West 13th Ave.,  
VANCOUVER, B.C.  
V6K 2S4

SHIP TO Above,

ORDER DATE  
June 7/79

TERMS: NET 15th OF MONTH FOLLOWING

SALES TAX LIC. No.	
EXEMPT	
S.S.M.A. TAX No.	
EXTRA	
CUSTOMER'S ORDER No.	
SHIPPING DATE	same
P.P.D.	COLL.

VIA Call OUR ORDER No. 3490

QTY. ORDERED	BACK O.	DESCRIPTION	UNIT PRICE	QTY. SHIPPED	AMOUNT
16 only		BQ Core Boxes	3.95	16	\$ 63.20
5 "		" " " Covers	1.25	5	6.25
					\$ 69.45
		4% PST			2.78
					\$ 72.23

**PAID**  
36.70/cheque # 148

RECEIVED TERMS: ACCOUNTS DUE & PAYABLE ON OR BEFORE 30 DAYS FROM DATE OF INVOICE. 2% PER MONTH CHARGED ON OVERDUE AMOUNTS.

No 8942

TOTAL \$ 72.23



# Longyear Canada Inc.

721 Aldford Avenue  
 Annacis Island, New Westminster, B.C. V3M 5P5  
 Telephone: 604-524-2511  
 Telex: 43-51280

INVOICE NO. 6890  
 CUST. NO. 6176  
 JOB NO. 6257  
 DEST. 062

Lakewood Mining,  
 2245 West 13th Avenue,  
 Vancouver, British Columbia

Lakewood Squamish  
 Invoice Date: August 23, 1979  
 for August 1979

To: Invoice for diamond drilling performed on Squamish, B.C. mining property, during period August 10 - 17, 1979 per agreement dated July 27, 1979.

<u>Hole No.</u>	<u>Size</u>	<u>From</u>	<u>To</u>	<u>Total</u>	<u>Rate</u>	
S2-79	BQ Wireline	Ø	500	500	11.80	5,900.00
S2-79	BQ Wireline	500	900	400	12.50	5,000.00
				900		10,900.00

Move In and Out

<u>Hole S2-79</u>						
24½ hours @ 48.60					1,190.70	
16 hours @ 20.00					320.00	
6 hours Mack Truck Rental @ 45.00					270.00	
						1,780.70

Clinometer Tests

<u>Hole S2-79</u>	2 hours @ 48.60					97.20
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Reaming Cave

<u>Hole S2-79</u>	5 hours @ 48.60					243.00
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Travel Time

<u>Hole S2-79</u>						
68 man hours @ 20.00					1,360.00	
Less: Longyear portion 7 days x 2 hours @ 20.00					(280.00) CR	
						1,080.00

\$ 14,100.90

Diamond Drilling Equipment Manufacturing  
 Drilling Contractors  
 Member Canadian Diamond Drilling Association



INVOICE



5791 BERESFORD STREET  
BURNABY, B.C. V5J 1J9

DIAMOND DRILL  
REPAIRS & SERVICE  
CORE BOXES  
WIRE-LINE HOISTS

PHONE: 433-5141

Aug. 15/79

SOLD TO Lakewood Mining Co.,  
2245 West 13th Ave.,  
VANCOUVER, B.C.  
V6K 2S4

SHIP TO

ORDER DATE  
July 26/79

TERMS: NET 15th OF MONTH FOLLOWING

SALES TAX LIC. No.

EXEMPT

S.S.M.A. TAX No.

EXTRA

CUSTOMER'S  
ORDER No.

SHIPPING  
DATE Aug. /79

P.P.D.

COLL.

VIA Call

OUR ORDER No. 3590

QTY. ORDERED	BACK O.	DESCRIPTION	UNIT PRICE	QTY. SHIPPED	AMOUNT
40 only		BQ Core Boxes	4.15	40	\$ 166.00
		4% PST			6.64
					\$ 172.64
		PAID by Cheque.			

TERMS: ACCOUNTS DUE & PAYABLE ON OR BEFORE  
30 DAYS FROM DATE OF INVOICE. 2% PER MONTH  
CHARGED ON OVERDUE AMOUNTS.

No 9088

TOTAL \$ 172.64



General Testing Laboratories Division  
 Superintendence Company (Canada) Ltd.

1001 East Pender St.  
 Vancouver, B.C. V6A 1W2  
 Ph (604) 254-1647

INVOICE <b>V35800</b>
DATE <b>July 11, 1979</b>
JOB NO.
LAB NO. <b>7906-2573/2853</b>

TO: **LAKEWOOD MINING CO. LTD.**  
 2245 West 13th Avenue  
 Vancouver, B.C.  
 V6K 2S4

JC	JOB#	CM	G.L.	BR	RE

Attn: Mr. Charles Boitard

To: Submitted 7 samples of Rock for geochem and spectro. analyses:

6 Au	x	4.00	=	\$ 24.00
6 AgCuMo	x	2.50	=	15.00
1 W			=	2.75
1 spectro			=	22.50
7 sample preparation @ 0.50			=	3.50

*(Paid July 15/79  
 Cheque # 156)*

\$ 67.75

DUE AND PAYABLE ON RECEIPT OF INVOICE. 1½% PER MONTH (18%) PER ANNUM CHARGED ON OVERDUE ACCOUNTS.



VANGEOCHEM LAB LTD.

(604) 986 - 5211

1521 PEMBERTON AVE., NORTH VANCOUVER, B. C.  
CANADA V7P 2S3

IN ACCOUNT WITH:

INVOICE: **5291**

Lakewood mining Company  
2245 West 13th Ave.  
Vancouver, B.C. V6K 2S4

DATE: Sept. 24, 1979

TERMS: NET 14 DAYS

FOR REPORT 79 52 010

PROJECT: Santa

ORDER NO. # 79 270

4	Rock samples for preparation	@ \$ 1.75	\$ 7.00
4	Trace analyses for MO, Cu,	@ \$ 2.15	\$ 8.60
2	Trace analyses for Pb	@ \$ 1.50	\$ 3.00
3	Trace analyses for Zn	@ \$ 1.50	\$ 4.50
3	Trace analyses for Ag	@ \$ 1.50	\$ 4.50
3	Ag background corrected	@ \$ 0.25	\$ .75
1	Trace analyses for Au	@ \$ 3.75	\$ 3.75
Total this invoice			<u>\$ 32.10</u>

*Paid out 29/79  
Cheque # 179*

**Garibaldi Lodge**  
Garibaldi, B.C.  
VON 300

NAME: *Lakewood Mining Co. Ltd.* DATE: *Aug 20* 1979  
ADDRESS: *2245 W. 13th Ave. Vancouver, B.C.*

SOLD BY	C.O.D.	CHARGE	ON ACCT.	ACCT. FWD.
1		<i>Room and Board</i>		
2		<i>for 4 persons</i>		
3		<i>7 days @ \$25.</i>		
4		<i>Daily Cash</i>		
5		<i>2/100. Drydock</i>		<i>\$700.00</i>
6		<i>Spitta 55 lunch</i>		<i>20.00</i>
7		<i>Spitta</i>		<i>720.00</i>
8		<i>Spitta on Rooming</i>		<i>16.80</i>
9		<i>Spitta</i>		<i>736.80</i>
10		<i>Received Account</i>		
11		<i>Change</i>		<i>400.00</i>
12		<i>Balance</i>		<i>\$396.80</i>

803999 SIGNATURE: *[Signature]*  
DATE: *29/79* cheque # 164-167

PAN-AMERICAN CONSULTANTS LTD.

SUITE 2602 - THE ROYAL CENTRE  
P.O. BOX 11122, VANCOUVER, B.C. V6E 3P3  
PHONE: (604) 685-1251

INVOICE NO: 197

DATE: January 31, 1980

Lakewood Mining Co. Ltd.  
2245 West 13th Avenue  
Vancouver, B.C., V6K 2S4

Re: Santa Property

Logging core of D.D.H. 1 and D.D.H. 2  
(August 20, 1980 and January 19, 1980);

Assessment Report - Diamond Drilling on the  
Santa Property dated February 12, 1980; and  
associated expenses

\$800.00

*Price Feb. 21, 1980*  
*\$800.00 Chg. N° 209*  
*[Signature]*