

ARIS SUMMARY SHEET

District Geologist, Victoria

Off Confidential: 92.03.01

ASSESSMENT REPORT 21374

MINING DIVISION: Nanaimo

PROPERTY: Stran 5
LOCATION: LAT 50 41 30 LONG 128 05 00
UTM 09 5615720 564749
NTS 102I09E

CAMP: 031 Island Copper Area

CLAIM(S): Stran 5-9
OPERATOR(S): Cons. Paytel
AUTHOR(S): Pawliuk, D.J.
REPORT YEAR: 1991, 18 Pages
KEYWORDS: Triassic, Jurassic, Karmutsen Formation, Bonanza Group, Andesites
Argillites

WORK
DONE: Geophysical, Geochemical, Physical
LINE 27.0 km
MAGG 14.9 km
Map(s) - 1; Scale(s) - 1:5000
SILT 10 sample(s) ;ME

Daiwan Engineering Ltd.
1030-609 Granville Street, Vancouver, B. C. Canada: V7Y 1G5
Phone: (604) 688-1508

LOG NO: 0530	RD.
ACTION:	
FILE NO:	

GEOCHEMICAL AND GEOPHYSICAL ASSESSMENT REPORT
ON THE
STRAN 5 - 9 MINERAL CLAIM GROUP

NANAIMO MINING DIVISION
BRITISH COLUMBIA

**SUB-RECORDER
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VANCOUVER, B.C.

NTS: 102I/9E

Latitude: 50° 42'N
Longitude: 128° 04'W

For

Consolidated Paytel Ltd.
1030 - 609 Granville Street
Vancouver, B.C.
V7Y 1G5

By

David J. Pawliuk, B.Sc., P.Geol.

February 28, 1991

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21,374

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SUMMARY

This assessment report details the results of ground magnetometer surveying and geochemical stream sediment sampling on the Stran 5 - 9 mineral claims, Holberg, B. C.

A total of 14.85 line-kilometres of ground magnetometer surveying was performed. A magnetic high in the north-central grid area is likely due to the presence of magnetite.

Ten geochemical stream sediment samples were collected. These sediments contain near background level metal concentrations.

The Stran 5 - 9 property is within a strongly mineralized belt of Bonanza Formation rocks north of Holberg Inlet. These rocks are coeval with porphyry copper-gold mineralizing events.

A total of \$10,040.96 was expended on the Stran 5 - 9 property during January and February, 1991.

INTRODUCTION

At the request of Maurice Young, Director of Consolidated Paytel Ltd., Daiwan Engineering Ltd. conducted a mineral exploration program on the Stran 5 - 9 mineral claims near Holberg, British Columbia. This program consisted of hipchain-and-compass grid surveying, linecutting, ground magnetometer surveying and geochemical stream sediment sampling.

Two kilometres of baseline were cut, and 25 line-km of hipchain-and-compass surveyed crosslines were established. Ten geochemical stream sediment samples were collected and 14.85 line-km of ground magnetometer surveying were performed during January and February, 1991. This assessment report is a description of work completed on the property during this period.

LOCATION AND ACCESS

The Stran 5 - 9 property of Consolidated Paytel Ltd. is located approximately 365 km (227 miles) northwest of Vancouver, British Columbia (Figure 1). The property is centred approximately seven kilometres northwest of Holberg, within N.T.S. map-sheet 102 I/9E.

The Stran 5 - 9 property can be reached via gravel roads from Holberg. A gravel road enters the property near the southeastern corner of Stran 5 mineral claim, then turns northwestward to cross the northern property boundary near the northwest corner of Stran 6 mineral claim. A fork of this road provides access to northeastern Stran 7 and to the southwestern Stran 6 mineral claims. The property is accessible year-round by road; however, heavy wet snow during mid-winter can cause difficult driving conditions.

Port Hardy is the local commercial centre, but Holberg has motel accommodation and supports local forestry industry activity.

Regular airline service to Port Hardy is provided by both Air Canada and Canadian Airlines International from Vancouver, each on a daily schedule. Alternately there is good highway access with travel from Vancouver taking eight hours.

TOPOGRAPHY AND VEGETATION

The terrain on the Stran 5 - 9 property is relatively steep-sided hills and ridges which are cut by narrow creek gullies. Elevations range from approximately 60 to 460 m (200 to 1,500 ft).

The mineral claims are located within a logging area. Forest cover varies from mature stands of spruce, hemlock, fir and cedar to extensive dense second growth and thick underbrush.

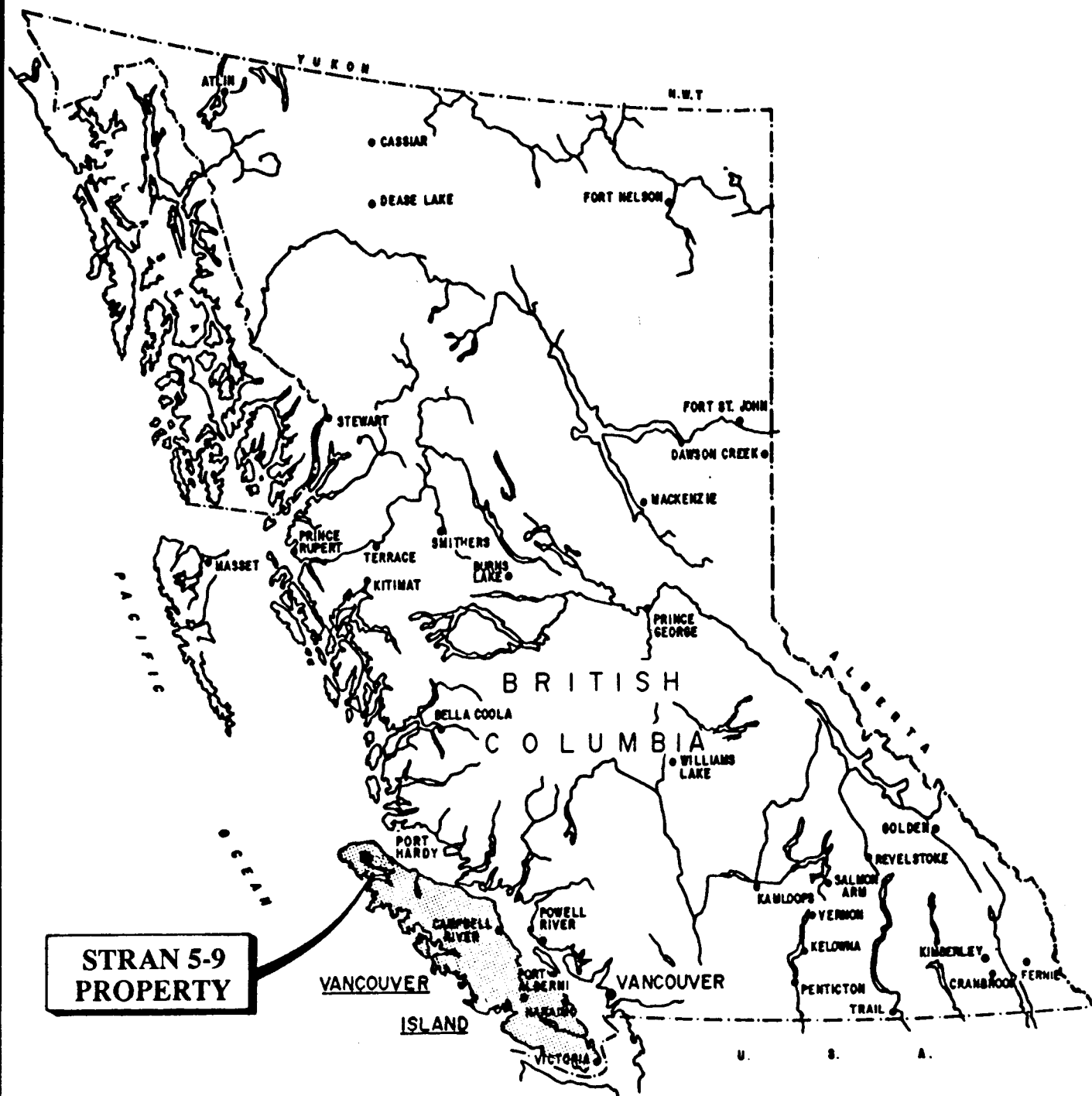
Rock outcrops are exposed in road cuts, along creek gullies and on the steeper slopes.

The area is characterized by warm summers and mild winters. Winter snowfalls are usually significant only at higher elevations; therefore, exploration can normally continue year-round.

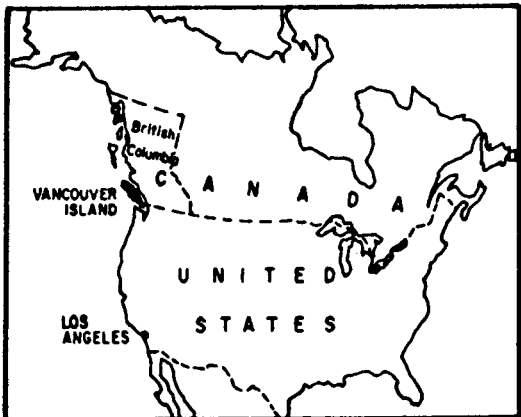
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Phone: (604) 688-1508



**STRAN 5-9
PROPERTY**



CONSOLIDATED PAYTEL LTD.		
STRAN 5-9 CLAIM GROUP NANAIMO MINING DIVISION, B.C.		
LOCATION MAP		
DAIWAN ENGINEERING LTD.		
SCALE 1: 8,000,000	DATE Feb. '91	FIG. 1

PROPERTY

The Stran 5 - 9 property of Consolidated Paytel Ltd. consists of five contiguous mineral claims totalling 92 units (Figure 2). These claims are recorded in the Nanaimo Mining Division. Daiwan Engineering Ltd. holds the mineral claims in trust for Consolidated Paytel Ltd. The particulars are as follows:

<u>Claim</u>	<u>Record No.</u>	<u>Units</u>	<u>Current Expiry Date</u>
STRAN 5	3750	12	March 16, 1992
STRAN 6	3751	20	March 13, 1992
STRAN 7	3752	20	March 12, 1992
STRAN 8	3753	20	March 11, 1992
STRAN 9	3754	<u>20</u>	March 11, 1992
	TOTAL	92	

HISTORY

A large copper-molybdenum deposit discovered at the eastern end of Rupert Inlet during the 1960s was developed into Island Copper Mine. This discovery generated a great deal of interest in the area by individuals and companies searching for copper.

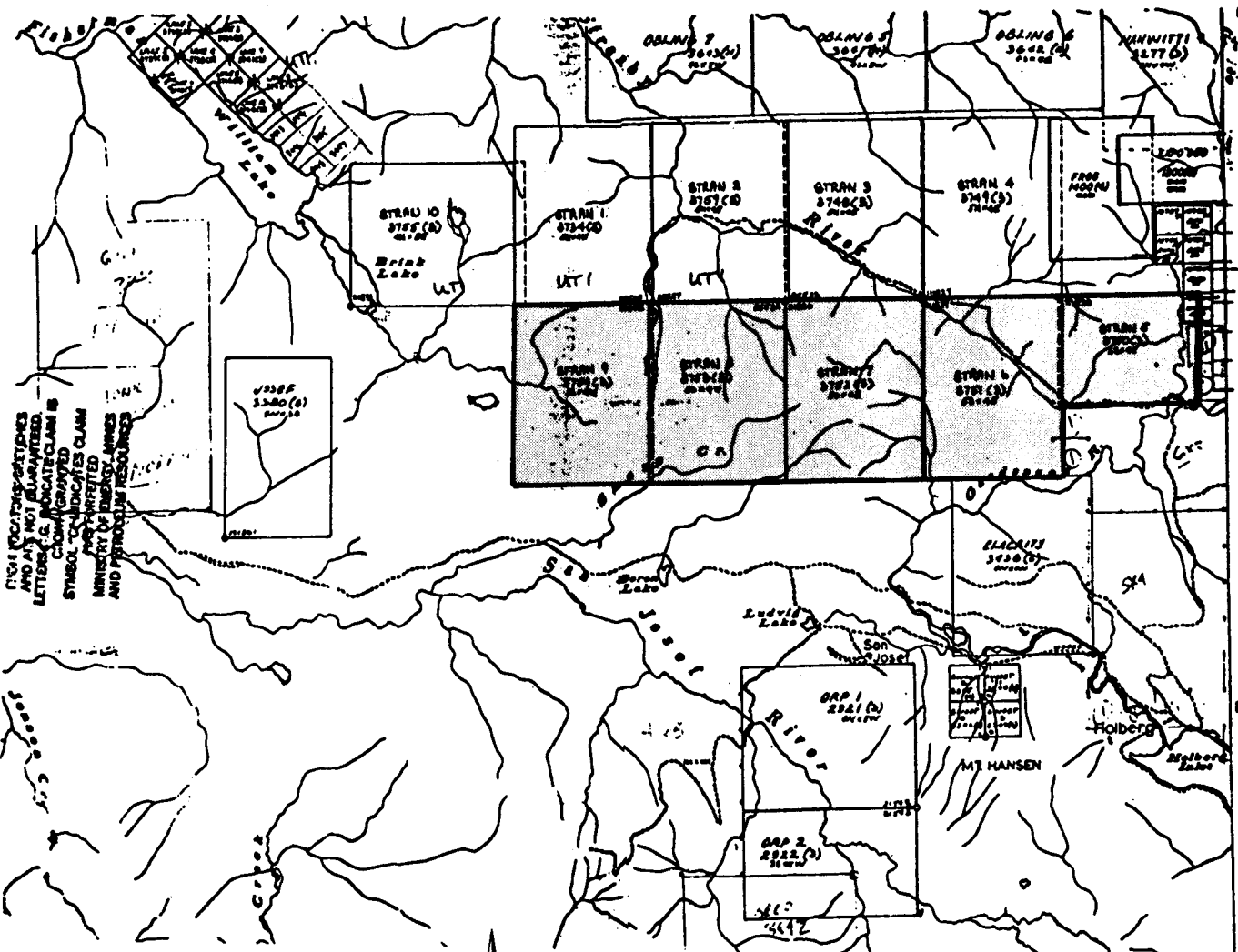
Many copper occurrences were located along Holberg Inlet during this exploration activity. One of these copper occurrences is the Hushamu copper-gold deposit, estimated to contain 107,000,000 mineable tons grading 0.29% copper, 0.010% molybdenum, and 0.010 opt gold with a stripping ratio of 0.7:1¹. The Hushamu copper-gold deposit is within the Expo mineral claim group. The Stran 5 - 9 property adjoins the Expo mineral claim group, and is centred approximately 16 km west-northwest of the Hushamu deposit.

During 1968 and 1969 Continental Cinch Mines Limited (NPL) conducted geological mapping and geochemical soil sampling on the BERG group of mineral claims⁵. The easternmost three-quarters of the present Stran 5 mineral claim was covered by the 1968/69 work. Soils were collected at a 60.96 m (200 ft) intervals along lines 121.92 m (400 ft) apart. Eight soils with anomalous (96 to 267 ppm) copper concentrations were taken along the eastern margin of Stran 5 mineral claim, in an area underlain by Bonanza Formation andesite (Figure 4).

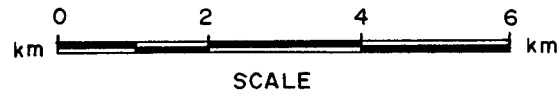
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HIGH LOCATIONS/SPICES
 AND ARE NOT GUARANTEED
 LETTERS C INDICATE CLAIM IS
 CLAIM GRANTED
 SYMBOL C INDICATES CLAIM
 NOT GRANTED
 MINISTRY OF ENERGY, MINES
 AND PETROLEUM RESOURCES



CONSOLIDATED PAYTEL LTD.		
STRAN 5-9 CLAIM GROUP NANAIMO MINING DIVISION, B.C.		
CLAIM MAP		
DAIWAN ENGINEERING LTD.		
SCALE 1:100,000	DATE Feb. '91	FIG. 2

A regional geochemical stream sediment completed by the British Columbia government in 1988 covered the Stran 5-9 property area; significant gold values were obtained from samples collected near both the northeastern and the southeastern corners of the property².

REGIONAL GEOLOGY

Vancouver Island north of Holberg and Rupert inlets is underlain by Upper Triassic to Lower Jurassic rocks of the Vancouver Group. The Vancouver Group rocks are intruded by rocks of Jurassic and Tertiary age, and disconformably overlain by Cretaceous sedimentary rocks. Figure 3 shows a 1:500,000 scale geological map of the northern part of the island.

Faulting is prevalent in the area. Large-scale block faults with hundreds to thousands of metres of displacement are offset by younger strike-slip faults with displacements of up to 750 metres (2,500 feet).

Sedimentary and Volcanic Rocks

The Vancouver Group includes a basal sediment-sill unit of shales and siltstones invaded by diabase sills, Karmutsen Formation volcanic flows and pyroclastics, Quatsino Formation limestone, Parson's Bay Formation argillite, Harbledown Formation argillite-greywacke and Bonanza Formation tuffs and breccias⁴.

The Vancouver Group is unconformably overlain by the non-marine Cretaceous Longarm Formation sediments which occupy local basins. Early coal mining in the district was from several of these basins.

Intrusive Rocks

The Vancouver Group rocks are intruded by Jurassic stocks and batholiths. A northwest-trending belt of stocks extends from the east end of Rupert Inlet to the mouth of Stranby River on the north coast of Vancouver Island³. Dykes and irregular bodies of quartz-feldspar porphyry occur along the south edge of this belt of stocks. The porphyries are characterized by coarse, subhedral quartz and plagioclase phenocrysts set in a pink, very fine grained, quartz and feldspar matrix. They are commonly extensively altered and pyritized. At Island Copper Mine, these porphyries are enveloped by altered, brecciated and mineralized Bonanza Formation wallrocks. The porphyries are also cut by siliceous veins, pyritized, extensively altered, and are mineralized where they have been brecciated. The quartz-feldspar porphyries are thought to be differentiates of middle Jurassic felsic intrusive rocks.

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Other intrusive rocks of lesser significance include felsic dykes and sills around the margins of some intrusive stocks; andesitic dykes which cut the Karmutsen, Quatsino and Parson's Bay formations, and represent feeders for Bonanza volcanism; and Tertiary basalt-dacite dykes intruding Cretaceous sediments.

Structure

The rocks north of Holberg and Rupert inlets are folded into shallow synclines along northwesterly fold axes. The steeper southwesterly limbs of these folds have apparently been truncated by faults roughly parallel to the fold axes. Failure of limestone during folding may have influenced the location of some of the faults, as indicated by the proximity of the Dawson and Stranby River faults to Quatsino Formation limestone. Transverse faulting is pronounced and manifested by numerous north and northeasterly trending faults and topographic lineaments (Figure 3).

Northeasterly trending faults comprise a subordinate fault system. In some cases, apparent lateral displacement in the order of several hundred metres can be measured on certain horizons. Movement, however, could be entirely vertical with the apparent lateral offset resulting from the regional dip of the beds.

The beds generally dip gently to moderately to the southwest. West of Holberg dips are locally much steeper where measured in close proximity to major faults. There is little folding or flexuring of bedding visible, except along loci of major faults where it is particularly conspicuous in thinly bedded sediments of lower Bonanza Formation. Bedding is generally inconspicuous in massive beds of Karmutsen, Quatsino and Bonanza Formation rocks, particularly inland where outcrops are widely scattered.

REGIONAL MINERALIZATION

A number of types of mineral occurrences are known on northern Vancouver Island. These include:

1. Skarn deposits: copper-iron and lead-zinc skarns.
2. Copper in mafic volcanic rocks (Karmutsen Formation): in amygdules, fractures, small shears and quartz-carbonate veins, with no apparent relationship to intrusive activity.
3. Veins: with gold and/or base metal sulphides, related to intrusive rocks.

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4. Porphyry copper deposits: largely in the country rock surrounding or enveloping granitic rocks and their porphyritic phases.

PROPERTY GEOLOGY

There has been little geological information recorded for the Stran 5 - 9 mineral claim group area.

Continental Cinch Mines Limited (NPL) geologically mapped the eastern and southern margins of Stran 5 mineral claim during 1968/69. They mapped moderately to intensely altered andesites and argillite of the Bonanza Formation in fault contact with Karmutsen Formation andesite (Figure 4). Faults strike both northerly and easterly in this area⁵.

MAGNETOMETER SURVEY

A total of 14.85 line-km of ground magnetometer surveying was performed on the Stran 5-9 property to attempt to delineate magnetite-bearing rock units. Magnetite is associated with chalcopyrite at porphyry copper-gold occurrences within the region. The work was done using a Scintrex MP-2 total field proton magnetometer along a hipchain-and-compass surveyed grid. Survey results are presented in Figure 5.

Magnetometer readings ranged from 48,643 to 59,550 gammas within the surveyed area. Survey results indicate an easterly magnetic trend, parallel the regional strike of the rock units. The highest magnetometer reading, in the north-central grid area, is likely due to the presence of magnetite. There are a few areas of higher magnetometer readings in the west-central part of the grid; these possibly may be due to the presence of disseminated magnetite within the underlying bedrock.

STREAM SEDIMENT GEOCHEMICAL SURVEY

Ten geochemical stream sediment samples were collected from drainages on the Stran 5-9 property during January 1991. The panned stream sediment concentrates were shipped to Acme Analytical Laboratories Ltd., Vancouver, British Columbia. The sediments were analyzed for 30 elements by I.C.P. technique which involves the digestion of 0.5 g of the sample with 3-2-1 HCl-HNO₃-H₂O acid at 95°C

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for one hour. This solution is then diluted to 10 ml with water and analyzed. Acme Analytical Laboratories Ltd. also analyzed a 30 g sample of each stream sediment for gold by the fire assay/I.C.P. technique.

The ten stream sediments contain up to 163 parts per million (ppm) copper, 126 ppm zinc, 2 ppm molybdenum, and 7 parts per billion (ppb) gold (Appendix 1). These are near background levels of concentration for these metals within the property region².

CONCLUSIONS

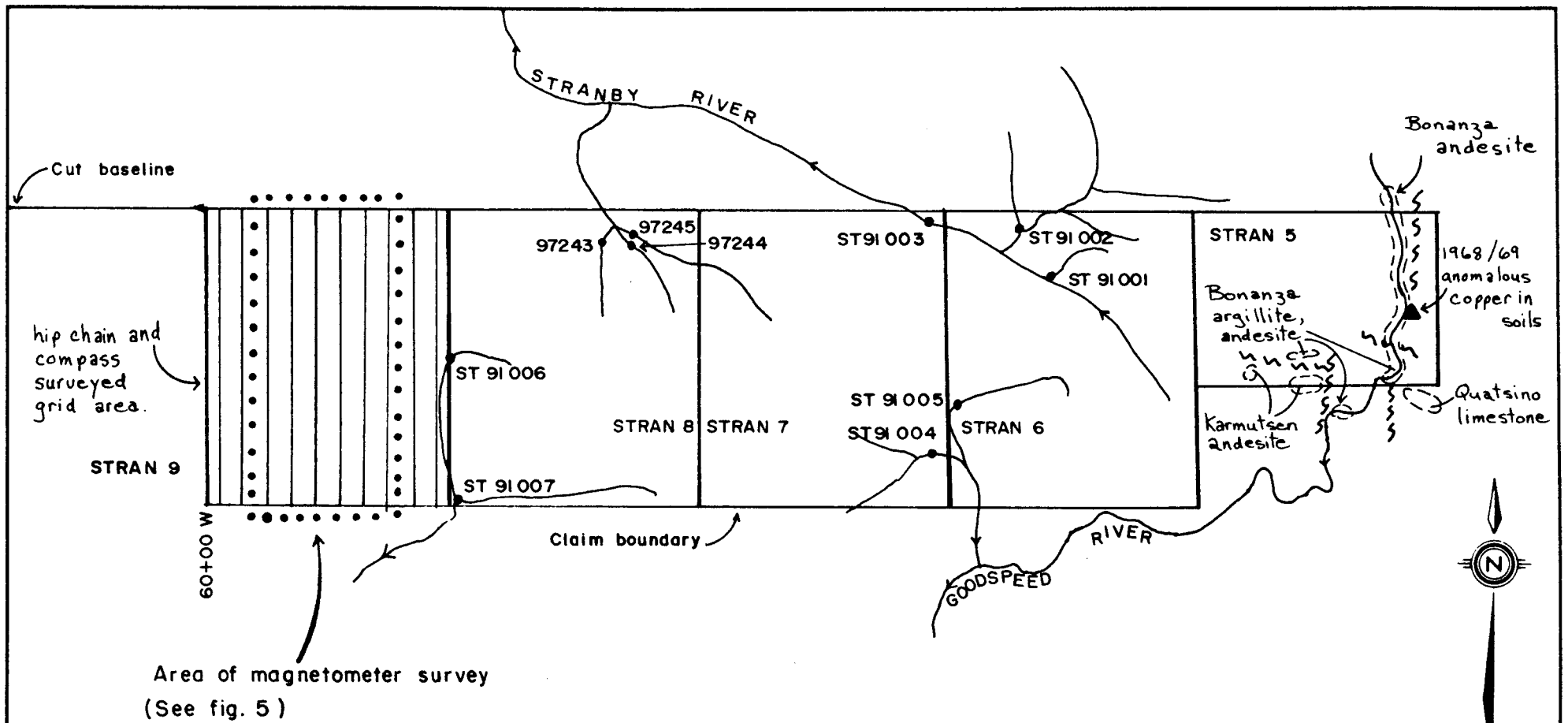
Knowledge of the geology of Stran 5 - 9 mineral claim group is limited. The property is within a strongly mineralized belt of Bonanza Formation volcanic rocks north of Holberg Inlet. These rock units are coeval with porphyry copper-gold mineralizing events.

A magnetic high in the north-central grid area is likely due to the presence of magnetite. Magnetite is associated with chalcopyrite at porphyry copper-gold occurrences within the region. A few areas of high magnetometer readings in the west-central portion of the grid may possibly be due to the presence of disseminated magnetite within the underlying bedrock.

Results of limited geochemical stream sediment sampling show that near background levels of metal concentrations exist within the area sampled.

The source of the significant gold values in stream sediments collected by the B. C. government near the northeastern and the southeastern corners of the property has not yet been determined.

Anomalous concentrations of copper were found in soils overlying Bonanza Formation andesite at eastern Stran 5 mineral claim during 1968/69 work.



LEGEND

●
ST 91 001

Geochemical stream sediment sample site,
number



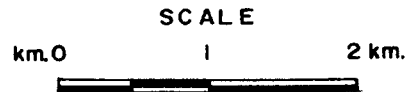
Rock outcrop



Fault



Stream



Geology from Holcapek and Philp (1970)

CONSOLIDATED PAYTEL LTD.		
STRAN 5-9 CLAIM GROUP		
NANAIMO MINING DIVISION, B.C.		
SAMPLING, GEOLOGY		
DAIWAN ENGINEERING LTD.		
SCALE 1:50,000	DATE Feb. '91	FIG. 4

CERTIFICATE OF EXPENDITURES

Personnel

1 Project Manager - P. Dasler		
- 1.35 days @ \$380/day	513.00	
1 Project Geologist - D. Pawliuk		
- 1.2 days @ \$340/day	408.00	
1 Geologist - S. Robertson		
- 4.0 days @ \$250/day	1,000.00	
1 Field Technician - L. Allen		
- 12.5 days @ \$265.20/day	3,315.00	
1 Field Technician - S. Oakley		
- 12.5 days @ \$250/day	3,125.00	
1 Office Assistant - T. Sheridan		
- 3.0 days @ \$220/day	<u>660.00</u>	\$ 9,021.00

Disbursements

Food and Accommodation		
- 30 man days @ \$25.55	766.51	
Field Supplies	394.09	
Magnetometer Rental	60.00	
Transportation	1,132.99	
Office/Secretary	150.00	
Assays	160.44	
Disbursement Fee	504.43	
Other	8.17	
GST	<u>843.33</u>	<u>4,019.96</u>

TOTAL StranBY PROJECT COSTS 13,040.96

Less Costs incurred on LAKE 1-10, WILL 11-16,
Stran 1, 2, 10 Mineral Claims < 3,000.00>

TOTAL Stran 5 - 9 COSTS \$ 10,040.96

Daiwan Engineering Ltd.

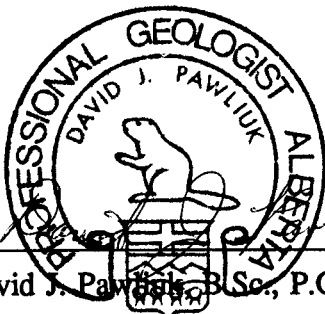
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CERTIFICATE OF QUALIFICATIONS

I, David J. Pawliuk, do hereby certify that:

1. I am a geologist for Daiwan Engineering Ltd. with offices at 1030 - 609 Granville Street, Vancouver, British Columbia.
2. I am a graduate of the University of Alberta, Edmonton, Alberta with a degree of B.Sc., Geology.
3. I am a member, in good standing, of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.
4. I have practised my profession continuously since 1975.
5. This report is based on fieldwork carried out by L. Allen, S. Robertson and S. Oakley, and on reports of others working in the area.
6. I have not visited the Stran 5-9 property.
7. I have performed field work in the region since April 1990.
8. I have no interest, either direct or indirect, nor do I expect to receive any such interest, in the properties or securities of Consolidated Paytel Ltd.
9. This report has been prepared for British Columbia Ministry of Energy, Mines and Petroleum Resources assessment purposes only.



David J. Pawliuk, B.Sc., P.Geol.
February 28, 1991

Daiwan Engineering Ltd.

1030 - 609 Granville Street, Vancouver, B.C. V7Y 1G5

Phone: (604) 688-1508

REFERENCES

1. Young, M. (1991) Hushamu Zone Copper Reserves of 107,000,000 tons now classified as Possible/Probable; News Release for Moraga Resources Ltd.
2. Matysek, P. et al (1989) B.C.G.S. Open File 2040 1988 B.C. Regional Geochemical Survey N.T.S. 92L/102I Alert Bay-Cape Scott.
3. Carson, D.J.T. (1972) The plutonic rocks of Vancouver Island, British Columbia; Geol. Surv. Canada Paper 72-44.
4. Muller, J.E., Northcote, K.E. and Carlisle, D. (1974) Geology and Mineral Deposits of Alert Bay-Cape Scott Map - Area (92L/102I) Vancouver Island, British Columbia; Geol. Surv. Canada Paper 74-8.
5. Holcapek, F. and Philp, R.H.D. (1970) Summary report on exploration during 1968 and 1969 on the BERG group, northern Vancouver Island, B. C.; private report for Continental Cinch Mines Limited (NPL).

APPENDIX 1

GEOCHEMICAL ANALYSIS CERTIFICATE

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GEOCHEMICAL ANALYSIS CERTIFICATE

Daiwan Engineering Ltd. PROJECT STRANBY File # 91-0318

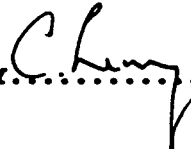
1030 - 609 Granville St., Vancouver BC V7Y 1G5 Submitted by: S. ROBERTSON

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
B 97243	1	116	4	107	.3	60	31	996	8.40	9	5	ND	1	27	.2	2	2	233	2.16	.029	5	65	1.84	40	.71	17	3.57	.04	.05	2	4
B 97244	1	163	4	94	.5	59	33	1093	8.29	8	5	ND	1	27	.5	8	2	210	1.92	.035	6	76	2.58	32	.65	18	3.58	.04	.06	1	3
B 97245	1	161	9	93	.3	55	29	954	8.13	5	5	ND	1	30	.2	3	2	217	2.00	.032	5	61	1.97	37	.70	14	3.51	.04	.04	1	4
ST 91001	2	47	4	126	.1	29	20	967	5.39	8	5	ND	1	43	.3	2	2	116	.64	.039	7	30	1.25	131	.15	3	3.16	.03	.10	1	2
ST 91002	1	38	3	88	.1	14	20	1207	5.54	9	5	ND	1	59	.2	2	2	106	.77	.033	8	23	1.22	107	.19	3	3.27	.04	.12	1	4
ST 91003	2	39	4	93	.1	21	19	824	4.70	7	5	ND	1	48	.2	2	2	102	.61	.033	7	28	1.22	97	.19	4	3.16	.04	.10	1	3
ST 91004	1	121	7	75	.1	44	24	783	6.80	3	5	ND	1	51	.2	3	2	177	2.90	.041	8	52	1.82	28	.64	12	3.62	.03	.05	1	7
ST 91005	1	105	4	95	.3	56	25	1340	6.72	8	5	ND	1	38	.2	2	2	170	.92	.028	5	60	1.65	57	.51	6	3.23	.03	.04	1	4
ST 91006	1	151	2	105	.2	64	35	893	9.61	8	5	ND	1	23	.2	5	2	251	1.11	.016	5	59	1.85	24	.54	6	3.78	.04	.05	1	5
ST 91007	1	144	2	108	.3	49	29	959	8.80	5	5	ND	1	32	.2	3	2	254	2.21	.032	6	45	1.74	24	.84	15	3.37	.06	.05	1	6
STANDARD C/AU-R	19	60	38	141	7.3	69	31	1092	3.96	43	18	7	40	52	18.6	18	19	57	.49	.097	40	59	.89	184	.09	32	1.89	.07	.15	13	482

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: STREAM CONC. AU** ANALYSIS BY FA\ICP FROM 30 GM SAMPLE.

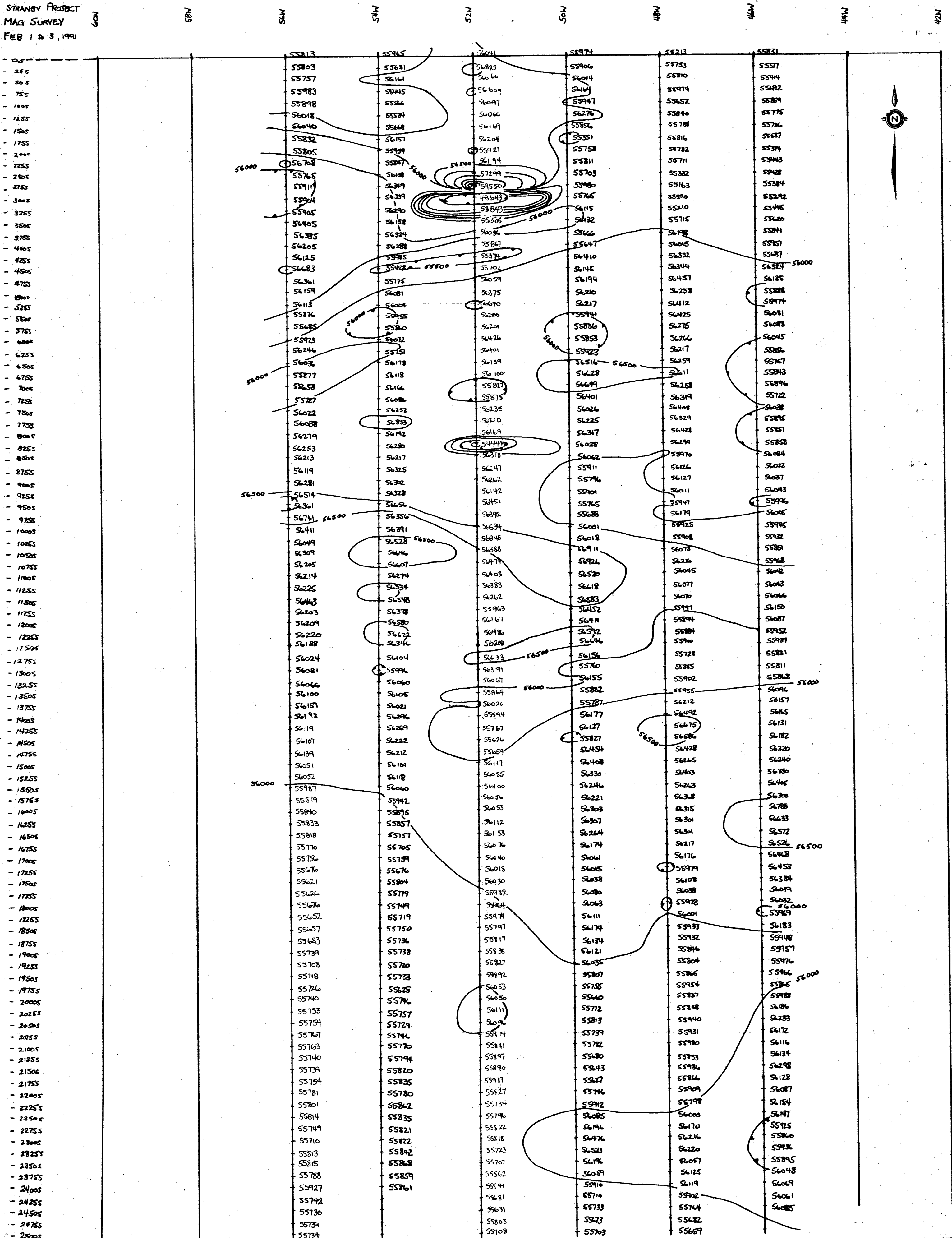
DATE RECEIVED: FEB 6 1991

DATE REPORT MAILED: Feb 13/91.

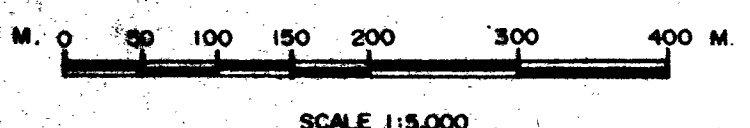
SIGNED BY:  D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

STRANBY PROJECT
MAG SURVEY
FEB 1 to 3, 1991

61.



SCALE 1:5000
DRAWN BY S. OAKLEY



CONSOLIDATED PAYTEL LTD.	
STRAN 5-9 CLAIM GROUP	
NANAIMO MINING DIVISION, B.C.	
MAGNETOMETER SURVEY	
DAWAN ENGINEERING LTD.	
SCALE 1:5,000	DATE FEB. 91
	PAGE 5

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