

85-903-14071

11/86

GEOPHYSICAL REPORT ON THE GOWAN CREEK PROPERTY
(DEBBIE 1 AND DEBBIE 2 CLAIMS)
NEW WESTMINSTER MINING DIVISION

LOCATION

N.T.S.: 92G/16W
LATITUDE: 49°57'N
LONGITUDE: 122°22'W

PREPARED FOR

Pacific Minesearch Limited
711, 850 West Hastings Street
Vancouver, British Columbia
V6C 1E1

PREPARED BY

Peter A. Christopher, Ph.D., P.Eng.
Peter Christopher & Associates Inc.
3707 West 34th Avenue
Vancouver, British Columbia
V6N 2K9

NOVEMBER 15, 1985



GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,071

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SUMMARY

The Gowan Creek Property, consisting of the Debbie 1 and Debbie 2 claims totaling 28 units, is situated near the junction of Gowan and Livingston Creeks in the New Westminster Mining Division. Easy road access to the property exists from Pemberton, British Columbia. Logging roads provide good local access but some are overgrown.

The property contains Fire Creek group rocks with a pyritic, gossanous sericite schist unit that has geochemically anomalous copper, lead, zinc, silver, and arsenic values (Howell, 1982). The sericite schist unit is about 20 meters wide with a strike of 125° to 140° . Similar rock units have been demonstrated to be favourable for massive sulphide deposits (e.g., Britannia Mine; near Mt. Baker, Washington and Seneca Deposit near Mission, B.C.) and precious metals (e.g., Doctor's Point and Fire Creek gold camps).

This report summarizes the results of initial magnetic and VLF-EM surveys conducted on the property to test the usefulness of these methods in evaluating the favourable schist unit. Moderate magnetic relief of 1010 gammas was detected during the survey but no well defined VLF-EM anomalies were located. A high tension electrical transmission line and steep topography limit the application of both geophysical methods. Selective use of the VLF-EM method may aid evaluation in areas of lower relief in the northern part of the claim area. A detailed magnetic survey should help define geological relationships in covered area and may locate deposits containing magnetic sulphide mineralization.

INTRODUCTION

The Gowan Creek property including the Debbie 1 and Debbie 2 claims totaling 28 units is situated northeast of the Lillooet River in the New Westminster Mining Division. Peter Christopher & Associates Inc. was retained by management of Pacific Minesearch Ltd. to conduct initial magnetic and VLF-EM tests of the altered volcanic assemblage mapped by Price (1982) and to use the results of the geophysical surveys to prepare an assessment report on the Gowan Creek property.

This report is based on fieldwork conducted by the writer and Mr. William Howell on November 7th and 8th, 1985, on a previous examination conducted on May 27, 1984 and on a review of government and company reports on the area.

LOCATION AND ACCESS (Figures 1 and 2)

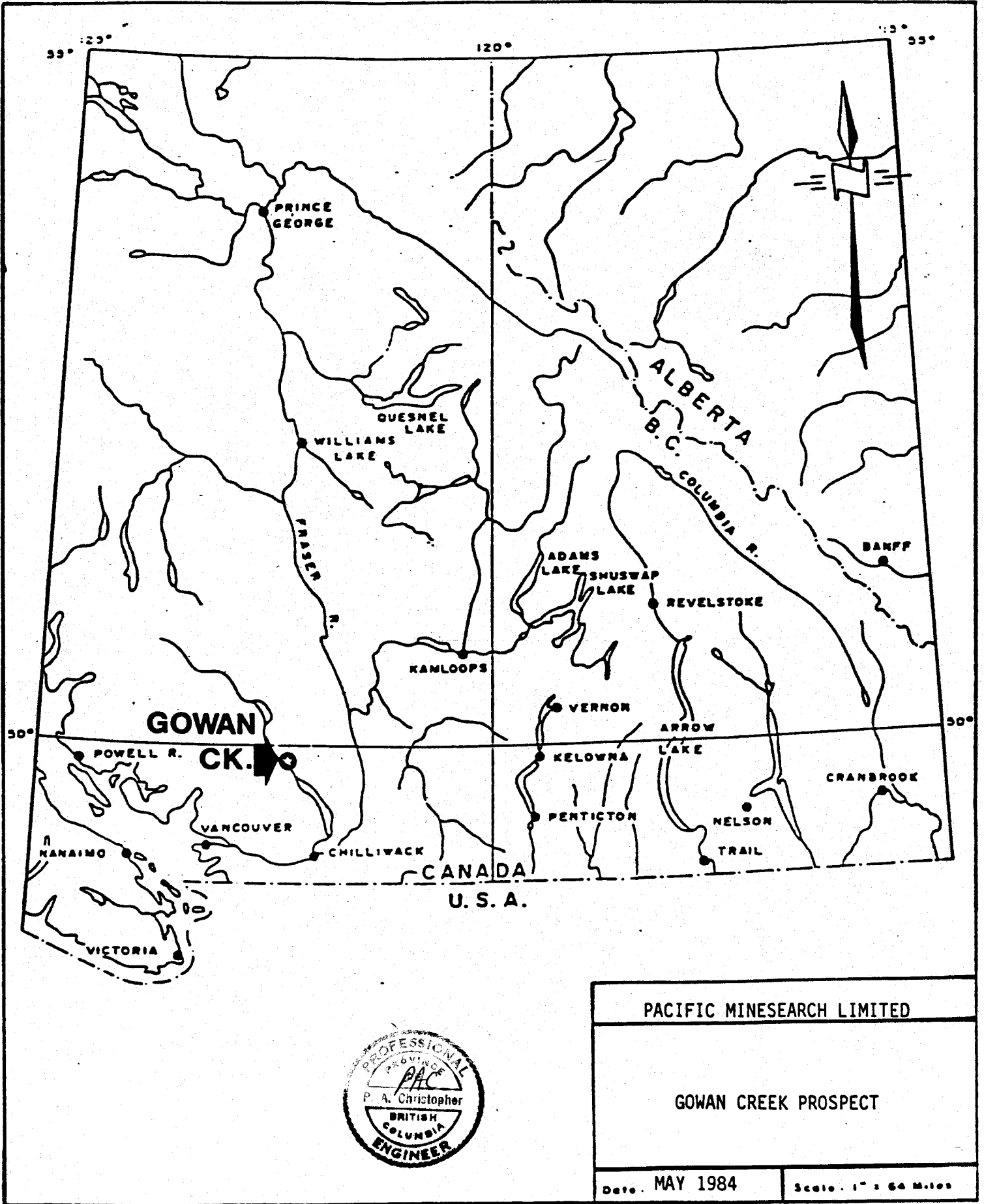
The Gowan Creek property straddles Gowan Creek and Livingston Creek immediately north of the Lillooet River in the New Westminster Mining Division. The property is about 100 kilometers northeast of Vancouver, British Columbia in N.T.S. mapsheet 92G/16 at geographic coordinates 49° 56'N latitude and 122° 22'W longitude.

Access to the property from Vancouver is via Highway 99 to Pemberton and Mount Currie and an all weather logging road along the Lillooet River and Lillooet Lake. The driving distance from Vancouver, British Columbia is about 250 kilometers. Local logging roads extend through most of the property and a main electrical transmission line sub-parallel the main access road. Local logging roads west of Gowan Creek are overgrown and in need of clearing.

PROPERTY DEFINITION

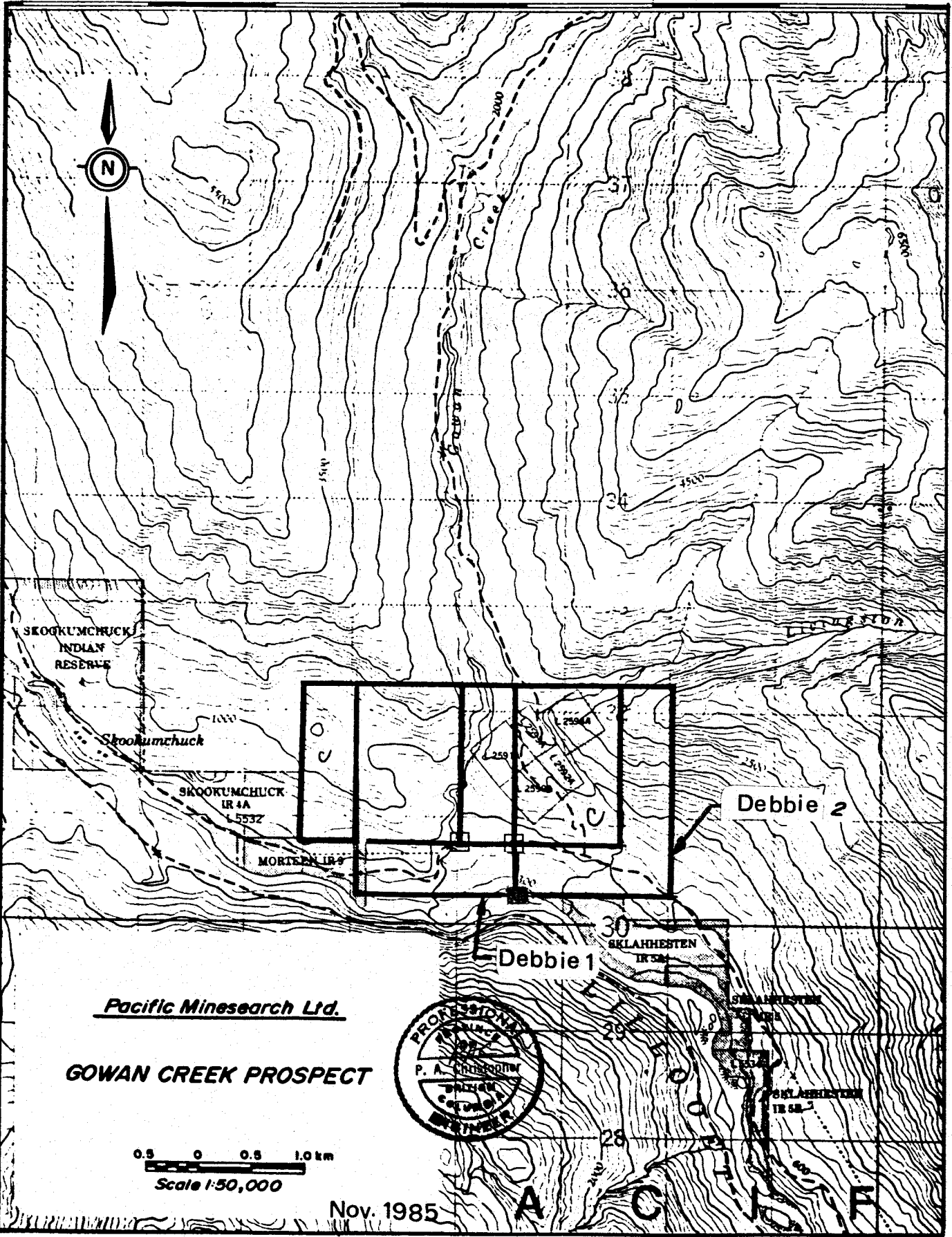
The Gowan Creek property consisting of two claims totaling 28 units was staked by using the modified grid system. The Debbie 1 and Debbie 2 claims have a common legal corner post that is reported on the form G to be 500 meters south of the Gowan Creek bridge on the Lillooet Lake Road. The Debbie 2 claim was staked on November 10, 1984 by Wayne Lillies and the Debbie 1 claim was started on November 10, 1984 and completed on November 11, 1984 by Wayne Lillies. The Debbie 1 is a relocation of the abandoned Chuck 1 and Skookum 1 claims and the Debbie 2 is a relocation of the abandoned Gowan and Skookum 2 claims. The claim area was abandoned on November 8, 1984 and the relocations filed in New Westminster on November 15, 1984.

The Gowan Creek property surrounds five reverted crown-granted claims that are not part of the Gowan Creek Property. Table I summarizes pertinent claim data for the Gowan Creek property and Figure 2 shows the approximate claim locations. The maximum possible area of 700 hectares for the twenty-eight unit property is reduced by overlap of reverted crown grants (about 50 hectares) and possibly minor overlap of the Morteen Indian Reserve 9 and Skookumchuck Indian Reserve 4A.



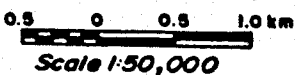
25'

20'



Pacific Minesearch Ltd.

GOWAN CREEK PROSPECT



Nov. 1985

A B C D E F

TABLE I. Pertinent Claim Data For Gowan Creek Property

<u>Name</u>	<u>Record Number</u>	<u>Record Date</u>	<u>Expiry</u>	<u>Units/ Distribution</u>	<u>Staker</u>
Debbie 1	2573(11)	Nov. 15/85	1985	16/4N x 4W	Wayne Lillies
Debbie 2	2574(11)	Nov. 15/85	1985	12/4N x 3E	Wayne Lillies

HISTORY

The area was first explored in 1897 by a prospecting group headed by Mr. John S. Grant of New Westminster. He staked a five claim group known as the Sunshine, Mayflower, Yellow Copper, Deep Creek and Joe Dank. The claims were eventually crown granted and are presently reverted crown grants held under lease by H. and D. Larson and Ernest E. Jackson. The claims are reported to contain quartz veins carrying, in places, high values in silver, both in native and sulphide form, and also, though less commonly, good values in gold (Cairnes, 1927).

The Deep Creek claim staked by A. Issak on September 15, 1980 was the last claim prior to the Gowan Creek property to be staked adjacent to the reverted crown grants. Extensions of the pyritic sericite schist unit on the Deep Creek claim were recognized by JMT Services Corp. geologists in 1980 and staked in March 1981. The Gowan claim was staked in September 1981 to cover open ground resulting from expiry of the Deep Creek claim.

During 1981 through 1983 geologists employed by JMT Services Corp. conducted rock, silt and soil geochemical surveys and geological mapping at a scale 1:5,000. Carr and Christie (1984) concluded that, "Geological mapping and geochemical sampling on the Gowan Creek prospect has delineated the probable extent of a horizon which has high potential for hosting massive sulphide mineralization. The favourable horizon is a pyritic muscovite/chlorite phyllite which carries anomalous Cu, Pb, Zn, Ag, and As values."

Jerico Gold Ltd. acquired the property in March 1983 and subsequently underwent a change of name to Pacific Minesearch Ltd. In order to eliminate overlapping claims the initial Gowan Creek property claims were abandoned on November 8, 1984 and restaked as the Debbie 1 and Debbie 2 on November 10 and 11, 1984. Peter Christopher & Associates was retained in November 1985 to conduct initial magnetic and VLF-EM surveys on the Gowan Creek property.

1985 FIELD PROGRAM

The 1981 field program was conducted by the writer and Mr. William A. Howell on November 7 and 8, 1985. Mobilization for the program was from Vancouver, British Columbia. A total of 2.6 line kilometers of magnetic survey was completed with 1.1 kilometers also surveyed by VLF-EM. Lines were chained and flagged with stations at 25 meter intervals. Traverses were along logging roads but west of Gowan Creek the roads are badly overgrown. A total of about 104 stations were surveyed. A fly camp was established on Gowan Creek.

REGIONAL GEOLOGY

The Gowan Creek property is situated in a northeasterly trending pendant of Fire Creek group volcanic and sedimentary rock. The pendant is partly bounded on the west by the Harrison Lake-Lillooet River fault system and biotite quartz diorite. Hornblende quartz diorite and diorite bound the pendant on the east. Fire Creek Group rocks show contact metamorphic effects.

The Fire Lake group in the vicinity of Livingston Creek is described by Roddick (1956) as follows: "The rocks resemble parts of the middle and upper units of the Fire Lake body (shales and quartz-feldspathic tuffs, lapilli and minor breccias). The lower beds outcropping near the river consist of grey and grey green argillite. In places, it is sandy (arkosic) and partly recrystallized.

The upper part (probably more than half) of the body in the Livingston Creek area consists of partly altered feldspar porphyry of andesitic composition The internal structure of the Livingston Creek body is probably complicated by faulting as it is difficult to follow the beds for a long strike. Where clearly defined, the beds are approximately parallel with the Lillooet River Valley and dip steeply to the northeast."

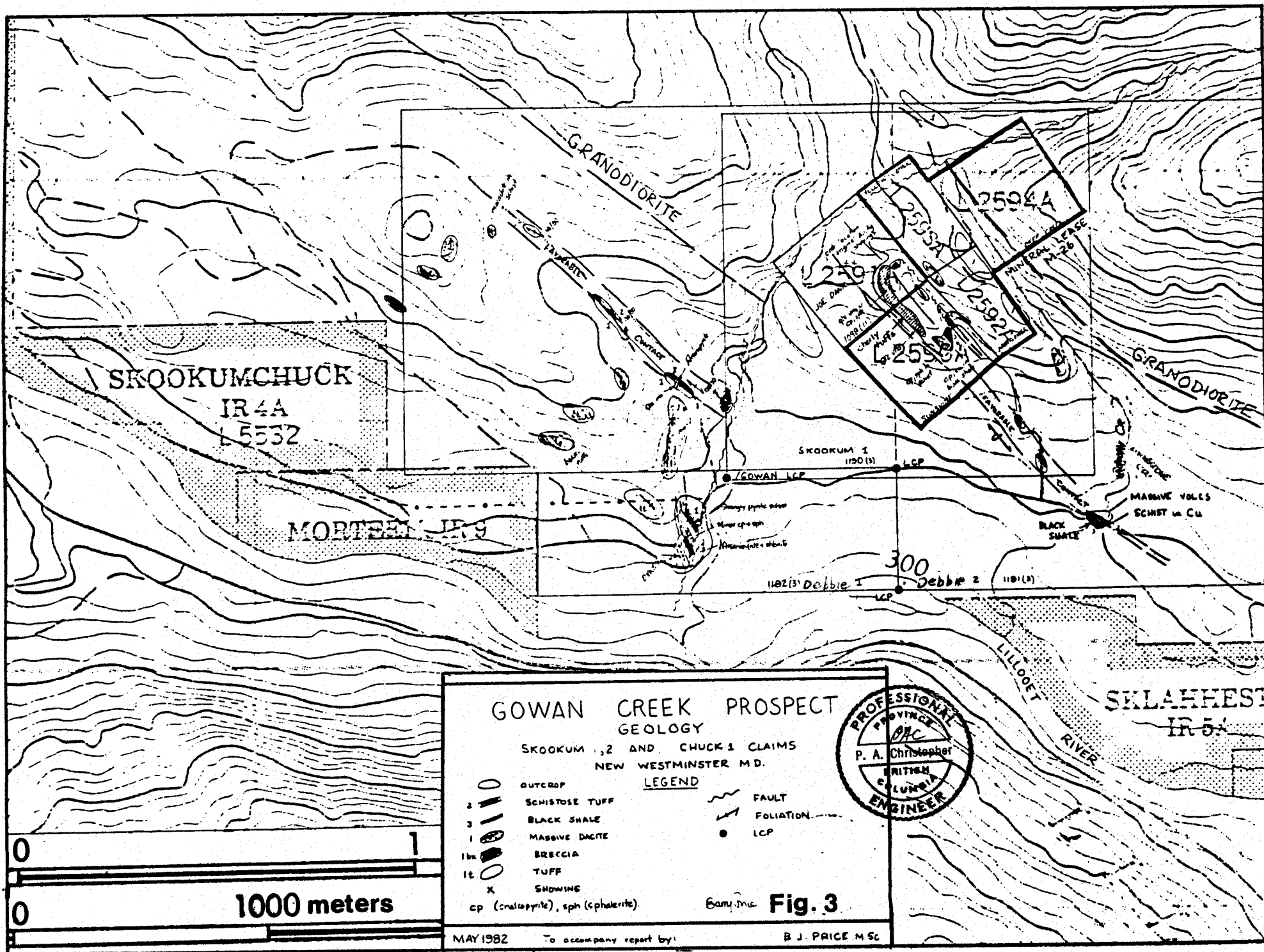
PROPERTY GEOLOGY (Figure 3)

The geology of the Gowan Creek property has been mapped by Price (1982), Howell (1982) and Carr and Christie (1984). A 50% reduction of Price's map is presented as Figure 3. Price's mapping defined five units of the Fire Creek group that include pyritic schistose tuff (quartz-sericite schist), black shale, massive dacite, breccia and tuff. Mapping by Carr and Christie (1984) has defined felsic dykes (hornblende/feldspar porphyry) that are orientated roughly perpendicular to bedding (036/52SE) in the road cut west of Gowan Creek. Map units of the Fire Creek group have strikes between 125° and 140° with near vertical bedding. Although no fault zone is seen on surface, the quartz-sericite schist unit may be offset 300 meters by right lateral fault movement (see Figure 3)

MINERALIZATION

Arsenic and antimony mineralization as small needles and grains of stibnite and arsenopyrite has been described by Price (1982). The writer has examined the pyritic tuff unit which is reflected in a strong surface rusty gossanous zone.

Placer sands and gravel along the Lillooet River have been reported to contain fine grained gold, silver and platinum group metals. Several gold or gold-copper prospects occur near Fire Lake, about 10 to 12 kilometers south of the Gowan Creek property. The Fire Creek gold camp in the Fire Creek group consists of several vein gold showings with associated arsenopyrite and pyrite mineralization. Arsenic and iron sulphide are also indicators of gold at Rhyolite Resources Doctor's Point prospect near Harrison Lake about 40 kilometers southeast of Gowan Creek.



Barry Inc. **Fig. 3**

MAY 1982 To accompany report by:

B. J. PRICE M.Sc.

GEOPHYSICAL SURVEY

Magnetometer and VLF-EM readings were collected along both Livingston Creek and Gowan Creek with flagged and chained stations at 25 meter intervals. Geophysical survey stations are shown on Figure 4 with a total of 104 stations or 2.6 kilometers surveyed. A Scintrex model MP2 magnetometer was employed with the detector in the pack mount. Machine readings less 56,000 gammas are plotted on Figure 4. A Geonics Ltd. EM 16 was used for the VLF-EM survey. Readings were taken at two frequencies with Hawaii and Annapolis or Cutler used. VLF-EM sections are presented in Appendix B with anomalous results shown on Figure 4.

Results

Magnetometer readings varied from 56,575 gammas to 57,685 gammas with a total magnetic relief of 1,010 gammas. The strong magnetic relief results from different magnetic characteristic of the rock units and may also result from magnetic sulphide mineralization. A detailed magnetic survey would aid with geological mapping of rock units and alteration patterns. The VLF-EM survey produced a single distinct crossover at 14+00 and a possible second anomaly at 16+00 on line 2. Lines 1 and 3 did not cross the altered tuff horizon and had no anomalous results. Steep terrain and proximity of the electrical transmission line limit the utility of the VLF-EM method.

CONCLUSIONS AND RECOMMENDATIONS

An test magnetic and VLF-EM survey conducted on the Gowan Property has detected moderately strong magnetic relief of 1,010 gammas and VLF-EM anomalies. Steep topography and the proximity of an electrical transmission line limit the utility of the geophysical methods. A more detailed magnetic surveys should help with geological interpretation and may locate magnetic sulphide bodies. Use of the VLF-EM should be restricted to areas of the property that have moderate relief and are away from the electrical transmission lines.

Geological, geochemical and limited geophysical surveys conducted on the Gowan Property have been successful in locating an extensive altered and mineralized horizon. Geochemical results have not indicated strong base or precious metal response from the horizon. Further exploration of the horizon will require at depth testing of the mineralized horizon with geophysical methods or drilling. Therefore further exploration of the property requires a search for blind ore bodies with the consequent increase in risk and expense.

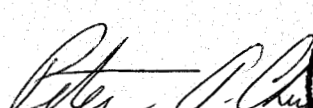
BIBLIOGRAPHY

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- Cairnes, C.E., 1922. Observations on Lillooet Valley, B.C., Canadian Mining Journal, Volume 47, Nos. 7 and 8.
- Carr, M.S. and Christie, J.S., 1984. Geological Report on the Gowan Creek Prospect, for JMT Services Corp. January 5, 1984. Filed as Assessment Report.
- Christopher, Peter A., 1984. Report on the Gowan Creek Property (Skookum 1 and 2; Chuck 1 and Gowan Claims), New Westminster Mining Division. private report for Pacific Minesearch Ltd. dated June 4, 1984.
- Howell, W.A., 1982. Geochemical Report on the Gowan Creek Prospect, for JMT Services Corp. December 24, 1982. Assessment Report No. 11005.
- Price, B.J., 1982. Geological and Geochemical Report Skookum 1 and 2, Chuck 1 and Gowan Claims, Gowan Creek, New Westminster M.D. Report prepared for JMT Services Corp. March 31, 1982. B.C. Government Assessment Report No. 10464.
- Roddick, J.A., 1985. Vancouver North, Coquitlam, Pitt Lake map areas, B.C. G.S.C. Memoir 335.

CERTIFICATE

I, Peter A. Christopher, with business address at 3707 West 34th Avenue, Vancouver, British Columbia, do hereby certify that:

- 1) I am a consulting geological engineer registered with the Association of Professional Engineers of British Columbia since 1976.
- 2) I am a Fellow of the Geological Association of Canada and a member of the Society of Economic Geologists.
- 3) I hold a B.Sc. (1966) from the State University of New York at Fredonia, a M.A. (1968) from Dartmouth College and a Ph.D. (1973) from the University of British Columbia.
- 4) I have been practising my profession as a Geologist for over 15 years.
- 5) I have no direct or indirect interest, nor do I expect to receive any interest directly or indirectly in the property or securities of Pacific Minesearch Limited.
- 6) I have based this report on field work conducted under my supervision on November 7th and 8th, 1985, a review of available geological data on the area, and a review of company exploration reports.
- 7) I consent to the use of this report by Pacific Minesearch Limited in any Filing Statement, Statement of Material Facts, Prospectus or for assessment work.


PETER A. CHRISTOPHER, P. ENG.
November 15, 1985



APPENDIX A

COST STATEMENT

PERSONNEL

Peter A. Christopher P.Eng.	Nov. 7,8/85 @ \$300ea.	\$ 600
William Howell B.Sc.	Nov. 7,8/85 @ \$225ea.	450

MOBILIZATION

150

ROOM & BOARD

4 MAN DAYS @ \$40ea 160

TRANSPORTATION

4 X 4 TRUCK	2 DAYS @ \$35ea.	70
MILEAGE	510 KM @ 0.10ea.	51
GAS		31

EXPENDABLES

HIP CHAIN	\$5	
FLAGGING	6	
OFFICE	6	
CAMP FUEL	<u>20</u>	
		37

RENTALS MAGNETOMETER & VLF-EM ETC. @ \$50/DAY 100

DRAFTING, WORD PROCESSING, PRINTING 200

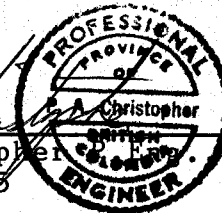
REPORT PREPARATION 800

TOTAL \$ 2549

PACIFIC MINESEARCH MANAGEMENT @ 10% 255

TOTAL COST \$ 2804

Peter A. Christopher
Peter A. Christopher Ph.D.
November 12, 1985



APPENDIX B

VLF-EM PROFILES

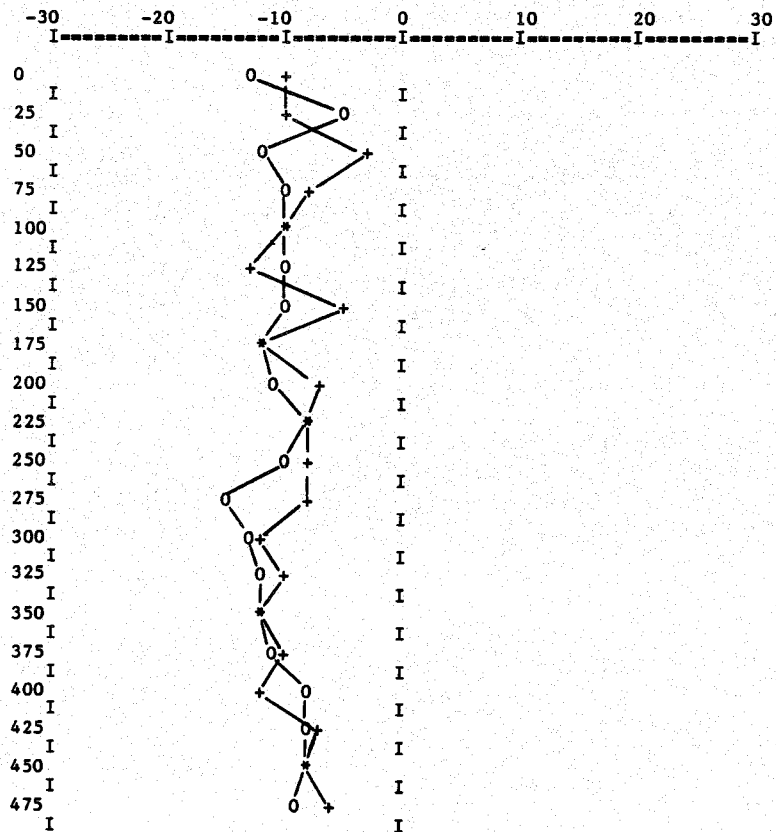
LINE 1 0+00 TO 5+00
LINE 2 0+00 TO 18+00N
LINE 3 0+00 TO 3+00E

300 REM ENTER DATA: DATA Y1,Y2
 301 REM GOWAN PROPERTY LI NOV. 7/85 STAI ANNAPOLIS STA 2 CUTLER
 302 REM LINE 1 0+00 TO 5N
 310 DATA -13,-10
 320 DATA -5,-10
 330 DATA -12,-3
 340 DATA -10,-8
 350 DATA -10,-10
 360 DATA -10,-13
 370 DATA -10,-5
 380 DATA -12,-12
 390 DATA -11,-7
 400 DATA -8,-8
 410 DATA -10,-8
 420 DATA -15,-8
 430 DATA -13,-12
 440 DATA -12,-10
 450 DATA -12,-12
 460 DATA -11,-10
 470 DATA -8,-12
 480 DATA -8,-7
 490 DATA -8,-8
 500 DATA -9,-6

PROPERTY NAME :GOWAN PROPERTY
 FOR CLIENT:PACIFIC MINESEARCH LTD.
 DATE :NOV. 7/85
 LINE NUMBER :LINE 1 0+00 TO 5+00
 RAPITAN VLF - EM PROFILE: DIP ANGLES IN DEGREES

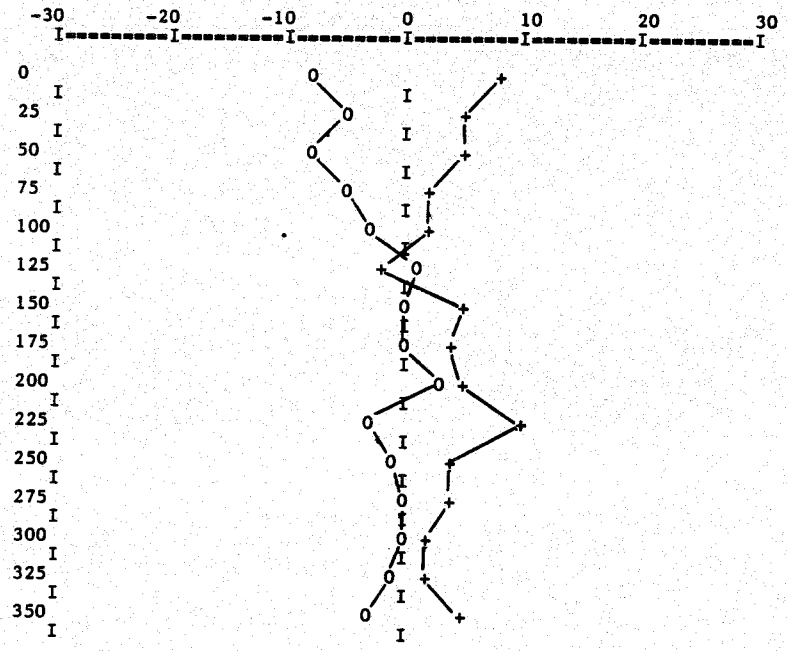
STN 1 IS ANNAPOLIS

STN 2 IS CUTLER



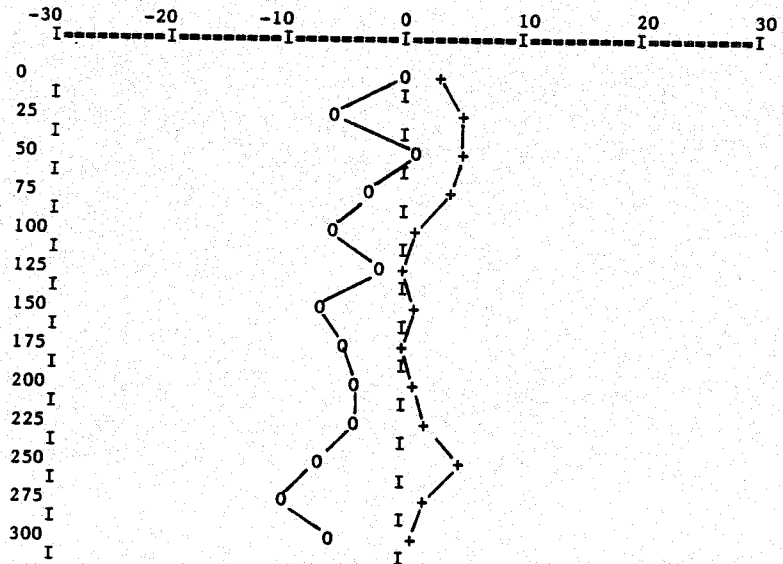
300 REM ENTER DATA: DATA Y1,Y2
 301 REM GOWAN PROPERTY NOV.8/85 STA 1 HAWAII STA 2 ANNAPOLIS
 302 REM LINE 2 13+00 TO 16N
 310 DATA -8, 8
 320 DATA -5,5
 330 DATA -8,5
 340 DATA -5,2
 350 DATA -3,2
 360 DATA 1,-2
 370 DATA 0,5
 380 DATA 0,4
 390 DATA 3,5
 400 DATA -3,10
 410 DATA -1,4
 420 DATA 0,4
 430 DATA 0,2
 440 DATA -1,2
 450 DATA -3,5

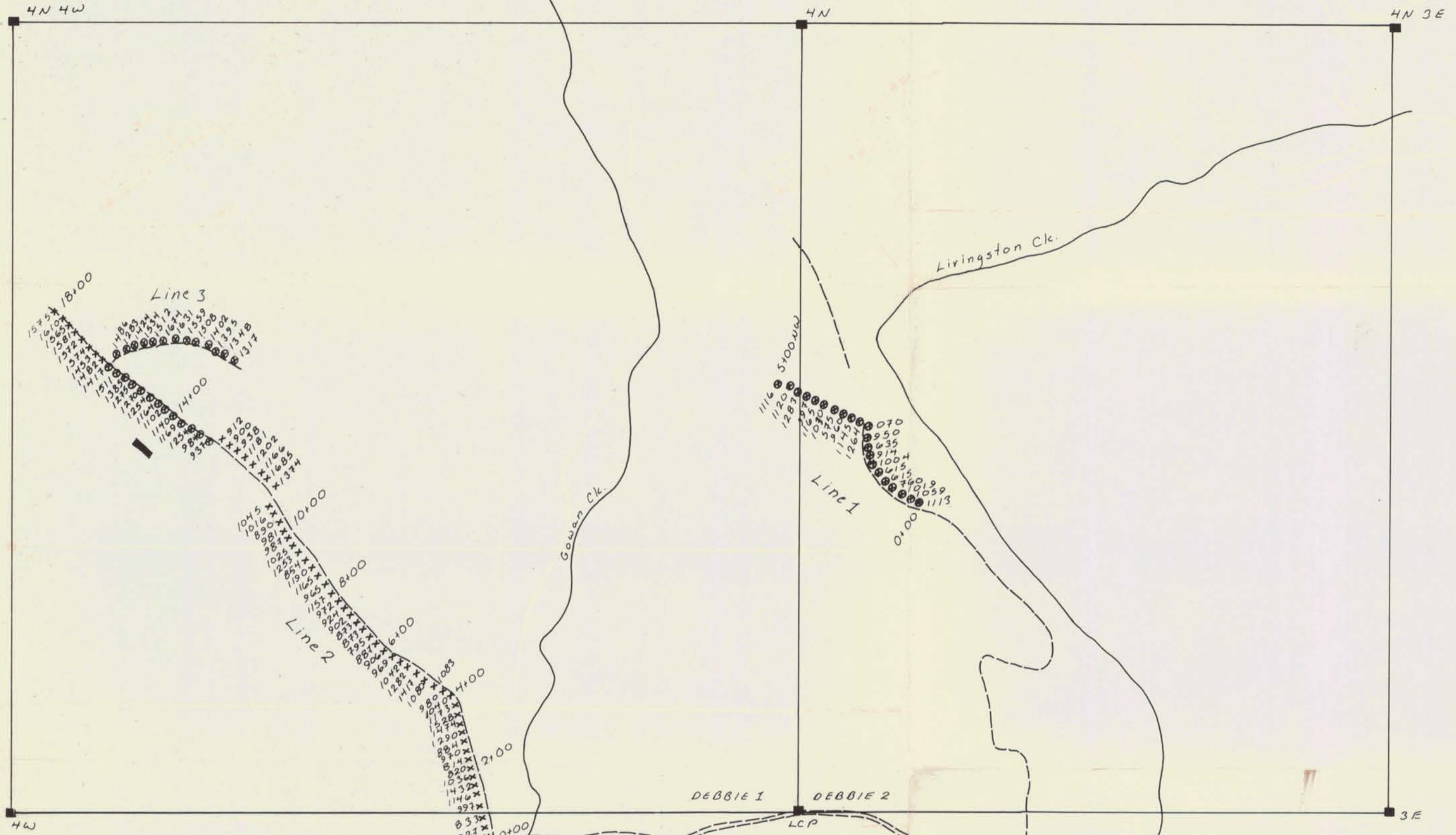
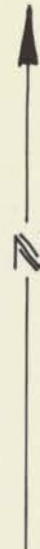
PROPERTY NAME :GOWAN CREEK
 FOR CLIENT:PACIFIC MINESEARCH LTD. STN 1 IS HAWAII
 DATE :NOV.8/85
 LINE NUMBER :LINE 2 13+00 TO 16+50N STN 2 IS ANNAPOLIS
 RAPITAN VLF - EM PROFILE: DIP ANGLES IN DEGREES



300 REM ENTER DATA: DATA Y1,Y2
 301 REM GOWAN PROPERTY NOV.8/85 STA 1 HAWAII STA 2 ANNAPOLIS
 302 REM LINE 3 0+00 TO 3+00E
 310 DATA 0,3
 320 DATA -6,5
 330 DATA 1,5
 340 DATA -3,4
 350 DATA -6,1
 360 DATA -2,0
 370 DATA -7,1
 380 DATA -5,0
 390 DATA -4,1
 400 DATA -4,2
 410 DATA -7,5
 420 DATA -10,2
 430 DATA -6,1

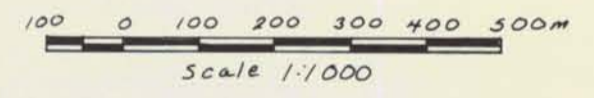
PROPERTY NAME :GOWAN PROPERTY
 FOR CLIENT:PACIFIC MINESEARCH LTD.
 DATE :NOV 8/85 STN 1 IS HAWAII
 LINE NUMBER :LINE 3 0+00 TO 3+00E STN 2 IS ANNAPOLIS
 RAPITAN VLF - EM PROFILE: DIP ANGLES IN DEGREES





LEGEND

- x Magnetometer station
(machine reading less
58,000 gammas)
- o Magnetometer & VLF-EM
station
- Main & side road
- ~ Creek / river
- Legal corner post /
corner post
- ▬ VLF-EM anomaly



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,071



PACIFIC MINESEARCH

GEOPHYSICAL PLAN

GOWAN CREEK PROPERTY
New Westminster Mining Division

NTS: 92 G/16 W

Nov., 1985

P.A. Christopher & Associates Ltd.