

LOG NO:	SEP 0 8 1994	RD.
ACTION:		
FILE NO:		

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**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

23,477



TITLE OF REPORT [type of survey(s)]	TOTAL COST
Report on West Pits Group - Mineral Claims	\$2,746.00

AUTHOR(S) C.B. Newmarch SIGNATURE(S) _____

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S) CBK940600350-0001-M26 YEAR OF WORK 1994

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) Statement of work submitted to Cranbrook on June 8, 1994

PROPERTY NAME 'West Pits' Group - Mineral Claims

CLAIM NAME(S) (on which work was done) Ice Pit #5 - #14, inclusive

COMMODITIES SOUGHT Gold, copper, silver, lead, zinc

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN _____

MINING DIVISION Fort Steele NTS 82G12E

LATITUDE 49 ° 40 ' _____ " LONGITUDE 115 ° 36 ' _____ " (at centre of work)

OWNER(S)
C.B. Newmarch 2) _____

MAILING ADDRESS
24 Maryland Place S.W.
Calgary, Alberta T2V 2E4

RECEIVED
GOVERNMENT AGENT
CRANBROOK
SEP 6 1994
NOT AN OFFICIAL RECEIPT
TRANS # _____

OPERATOR(S) [who paid for the work]
1) C.B. Newmarch 2) E.E. Gilbert

MAILING ADDRESS
24 Maryland Place S.W.
Calgary, Alberta T2V 2E4

3600 First Canadian Place
350 - 7th Avenue S.W.
Calgary, Alberta T2P 3N9

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
The property comprises 10 mineral claims situated on the crest of a ridge on Lakit Mountain and the area is open grassland or brush covered with rare outcrops ^{of} Precambrian dark-grey argillite. One 3' quartz vein with chalcopyrite mineralization was found.
A magnetometer survey was run.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS Minfile report indicates the presence of a quartz vein with free gold.

ILLUSTRATIONS

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Fig. 2	Claims Map, 1/20,000 showing location of "West Pits Group", Topography and Access Roads	In Pocket
Fig. 3	E-W Magnetometer Profile of Line 00	8
Fig. 4	E-W Magnetometer Profile of Line IN	8
Fig. 5	Sketch of Ice Pit #6 Mineral Claim with Location of Quartz Vein at 1:5,000 scale	9
Figs. 6A-6B	ICP Analysis of Chip Samples across 3' Quartz Vein	9

ASSESSMENT REPORT

Concerning Geological, Prospecting and Magnetometer Survey of the Following Mineral Claims:

Owner	Name	Tenure#	Interest	GTD	Map#
C.B. Newmarch	Ice Pit #5	319,815	100%	July 19, 1995	82G12E
C.B. Newmarch	Ice Pit #6	319,816	100%	July 19, 1995	82G12E
C.B. Newmarch	Ice Pit #7	319,817	100%	July 19, 1995	82G12E
C.B. Newmarch	Ice Pit #8	319,818	100%	July 19, 1995	82G12E
C.B. Newmarch	Ice Pit #9	319,819	100%	July 19, 1995	82G12E
C.B. Newmarch	Ice Pit #10	320,205	100%	Aug. 1, 1995	82G12E
C.B. Newmarch	Ice Pit #11	322,622	100%	Oct. 31, 1995	82G12E
C.B. Newmarch	Ice Pit #12	322,623	100%	Oct. 31, 1995	82G12E
C.B. Newmarch	Ice Pit #13	322,624	100%	Oct. 31, 1995	82G12E
C.B. Newmarch	Ice Pit #14	322,625	100%	Oct. 31, 1995	82G12E

Owners:	C.B. Newmarch	20%
	D. Keffer	20%
	E.E. Gilbert	20%
	D.W. Axford	10%
	J. Crawford	10%
	J. Cook	20%

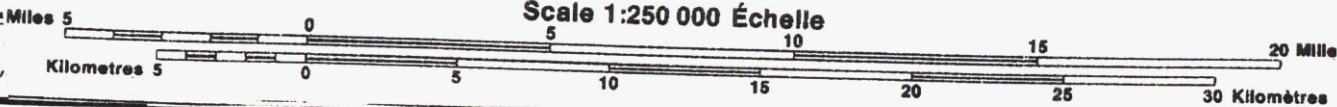
Author: Dr. C.B. Newmarch, P. Eng., P. Geol., Alberta and British Columbia

Date: August 27, 1994

3. INTRODUCTION

This report describes field work and the results of a magnetometer survey conducted during the period May 5 to June 7, 1994. The project area includes ten mineral claims, Ice Pit #5 to Ice Pit #14 inclusive, of the West Pits Group which are situated along the crest of a ridge on the lower slopes of Lakit Mountain (See Figure 1) and in more detail on Figure 2 (In Pocket). The claims were staked based on a Minfile report indicating the presence of a quartz vein carrying free gold in this area (Daugherty Prospect), which lies just west of a formerly productive gold placer mining area in Wild Horse Creek.

The area of the claims has been clear cut, is largely an open grassy meadow on which cattle from the Top of the World Ranch often graze, and is generally devoid of rock outcrop. Because previous traverses in the area through Ice Pits #8 and #10 had found neither outcrop nor quartz veins, it was decided that a magnetic survey might localize an area of interest. In carrying out the magnetometer survey, the operators observed a possible quartz vein - which information led to a subsequent series of traverses that located a quartz vein on Ice Pit #6, which was sampled and assayed.



116°00'

55°00'

55 300000m.N.

2

45'

Meachen 20 km

9

30'



FIGURE 1 - INDEX MAP



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

NEWMARCH, C.B.

24 MARYLAND PLACE SW
CALGARY, ALBERTA
T2V 2E4

Page Number : 1-A
Total Pages : 1
Certificate Date: 30-JUN-94
Invoice No. : 19418336
P.O. Number :
Account : DAU

Project :

Comments: ATTN: CHARLES B. NEWMARCH

CERTIFICATE OF ANALYSIS

A9418336

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
519204	205 226	10	12.0	0.75	240	< 0.5	100	0.32	< 0.5	55	133	445	>25.0	0.35	0.07

CERTIFICATION:

Hart Bechler

FIG. 6A



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

Project: NEWMARCH, C.B.
24 MARYLAND PLACE SW
CALGARY, ALBERTA
T2V 2E4

Page Number : 1-B
Total Pages : 1
Certificate Date: 30-JUN-94
Invoice No. : I9418336
P.O. Number :
Account : DAU

Project :
Comments: ATTN: CHARLES B. NEWMARCH

CERTIFICATE OF ANALYSIS A9418336

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
519204	205 226	85	45	0.42	17	750	930	750	0.10	187	800	40			

CERTIFICATION: Hart Beckler

FIG.- 6B

7. EXPENDITURES

Work carried out to date on the "West Pits" Group is as follows:

7.1 Geophysical (Magnetometer Survey)

John Kruszewski and son Jonathan

7.11	Line cutting and flagging stations 1 day, Salaries \$250.00 and \$100.00	\$ 350.00	
7.12	Magnetometer rental - 1 day @ \$30.00	30.00	
7.13	Truck rental - 2 days @ \$30.00	60.00	
7.14	Hotel - 2 nights @ \$40.00	80.00	
7.15	Meals - 2 men x 2 days @ \$60.00	<u>120.00</u>	
		\$ <u>990.00</u>	Sub

7.2 Geological Reconnaissance

J. Cook, P. Eng., D. Keffer, P. Eng., C.B. Newmarch, P. Eng.

7.21	Salaries - 2 days, June 4 & 5; 3 x \$400.00	\$ 1,200.00	
7.22	Jeep Rental, 2 days @ \$30.00	30.00	
7.23	Hotel - 3 men @ \$40.00	40.00	
7.24	Meals - 3 men x 2 days @ \$90.00	270.00	
7.25	Assaying sample	25.68	
7.26	Jeep milage charge - 400 kms @ 20¢	<u>80.00</u>	
		\$ <u>1,755.68</u>	Sub

Total - 7.1 = \$ 990.00

Total - 7.2 = 1,756.00

Grand Total = \$ 2,746.00

8. REFERENCES

Geology of the Fernie W $\frac{1}{2}$ Map Sheet, Open File Map No. 1988-14, by Trygve Hoy and Ginette Carter, at 1:100,000, British Columbia Ministry of Energy Mines and Petroleum Resources

Leech, G.B. (1985) Fernie Map Area W $\frac{1}{2}$, British Columbia 82GW $\frac{1}{2}$, Geol. Survey of Canada Paper 58-10

Leech, G.B. (1960) Geology of Fernie W $\frac{1}{2}$, Kootenay District, British Columbia Survey of Canada, Map 11, 1960

4. QUALIFICATIONS OF PERSONNEL AND CERTIFICATION

Dr. C.B. Newmarch, P. Eng., P. Geol., (Alberta) holds a B.A.Sc. degree in Geological Engineering (1941) from U.B.C. and a Ph.D. in Geological Engineering from Princeton University (1951). He has spent nine field seasons in British Columbia employed by the British Columbia Department of Mines in surveys concerned with coal in the Elk Valley and with industrial and metallic minerals. In 1985 he completed the B.C.E.M.R. prospecting course on Vancouver Island. From 1942 to 1972 he was employed primarily as an Exploration Manger for Oil and Gas in Alberta. From 1972 to retirement in 1983 he was Manager of Coal and Industrial Minerals for Westmin Resources. He hold F.M.C. No. 119627 expiring December 31, 1998.

John M. Kruszewski is a practising full time prospector who maintains an office at 708A, 805 - 8th Avenue S.W., Calgary, Alberta T2P 3T3. He attended two years of University at the University of Toronto and two years at Mount Royal College in Calgary. He has worked in mineral exploration since 1962 primarily in British Columbia, the Yukon and Northwest Territories.

John was involved for two years in the initial staking and early exploration of the property now know as Baymag Mines, as well as the staking and appraisal of the Aurun Mines perlite property. He did the staking and early testing of a diatomite mine near Kamloops. He served as a field supervisor for Gulf Minerals in their British Columbia Coal operations. He maintains a membership in the Mineral Exploration Group in Calgary.

Jonathan Kruszewski (John's son) is age 27 and has spent 2½ years at Mount Royal College where his courses included two semesters of Geology. During the last seven years, he has been involved in field work and for the last three years in placer exploration and placer mining near Quesnel, British Columbia. In the field he has worked with Emmet Haun, P. Geol., Eugene Meyer, P. Geol., and his father. He assisted his father in carrying out the magnetometer survey.

D.C. Keffer graduated in Chemical Engineering in 1954 from the University of Washington in Seattle, Washington. From 1954 to 1960 he worked as a drilling and production engineer in both the U.S.A. and Canada. From 1960 to 1969 he served as a gas process engineer for Pan American in Calgary. From 1969 to 1975 he worked on several projects for Hudson's Bay Oil and Gas Co. Ltd. In 1975 and until 1983 he was General Manger of Petroleum Royalties Ltd., responsible for all activities in Alberta, Ontario, Ohio and Australia. From 1983 and currently he is President of Ran Developments (1977) Ltd., a privately owned oil and gas company and also President of Sutherland Developments Ltd., which holds a 50% interest in Vernon Kiln and Millwork Ltd., a producer of finished wood products.

John T. Cook, B.Sc. is a graduate in geology from the University of Alberta (1949) and undertook one year of graduate study (1950) in geophysics. He was employed from 1950 to 1955 by Union Oil of California to carry out surface and subsurface studies in the foothills and front ranges of Northeast British Columbia and Alberta. From 1955 to 1962 he worked for Petrobras doing surface and subsurface appraisals in the Amazon and Northeast Brazil. From 1962 to the present he has served as a freelance explorationist in Ontario and Western Canada. He is the owner and manager of Fleet Resources and has financed numerous mining exploration endeavors in British Columbia.

E.E. Gilbert, P. Eng., P. Geol., P. Land CPL graduated in 1947 with a B.A. in Geology from the University of Wisconsin. He attended the Northwestern School of Management in 1967 and completed a short course in New Exploration Concepts at the University of Oklahoma in 1969. He was employed in senior roles at Sun Oil Company from 1945 to 1972 and by various companies as an employee or consultant from 1972 to 1986. He was the first co-director, industry, of a new program, Petroleum Land Management in the Management Faculty of the University of Calgary from 1981 to 1986 and has continued in part-time duties at the University until the present. He is president of Burning Rock Oil Company Ltd. and Gilbert Management Ltd.

4.1 CERTIFICATION

This report sets out the result of field work and office studies carried out in late May, 1994 in partial appraisal of the "West Pits" Group of mineral claims. I believe that the expenditures claimed for the work described are correct and appropriate.



Charles B. Newmarch, P. Eng., P. Geol.

5. GEOLOGY/PROSPECTING

The general geology of the area is given on British Columbia Energy Mines & Petroleum Resources Open File Map 1988-14 where the area of the claims group is shown as being in Precambrian Lower Aldridge beds. From fragments at the surface, the bedrock appeared to be grey to dark-grey silty argillite - but there was insufficient outcrop to determine a reliable attitude.

5.1 MAGNETOMETER SURVEY

The magnetometer survey was supervised by E.E. Gilbert, P. Eng., who rented a Scintrex MP-2 portable proton magnetometer from Taiga Consultants Ltd. of Calgary at a day rate of \$33.65 per day for the five day period May 15 to May 20, inclusive. After checking out the meter in another area, he arranged for John Kruszewski and son Jonathan to carry out a survey at the north end of the West Pits group. Over a 2½ day period, Mr. Kruszewski and son flagged two east-west profiles on fifty meter centers along and near to the south boundary of Ice Pit #13 and Ice Pit #14 claims, as shown on Figure 3 and Figure 4. Line 00 lies along the south boundary of the two claims while line IN is situated parallel to but 50 meters north of Line 00.

The data shows increasing values toward the south, but without a known mineralized zone in the area surveyed, the results are inconclusive. A long N-S line needs to be added which would traverse the mineralized quartz vein, which was discovered after the magnetometer survey was completed on Ice Pit #6 claim.

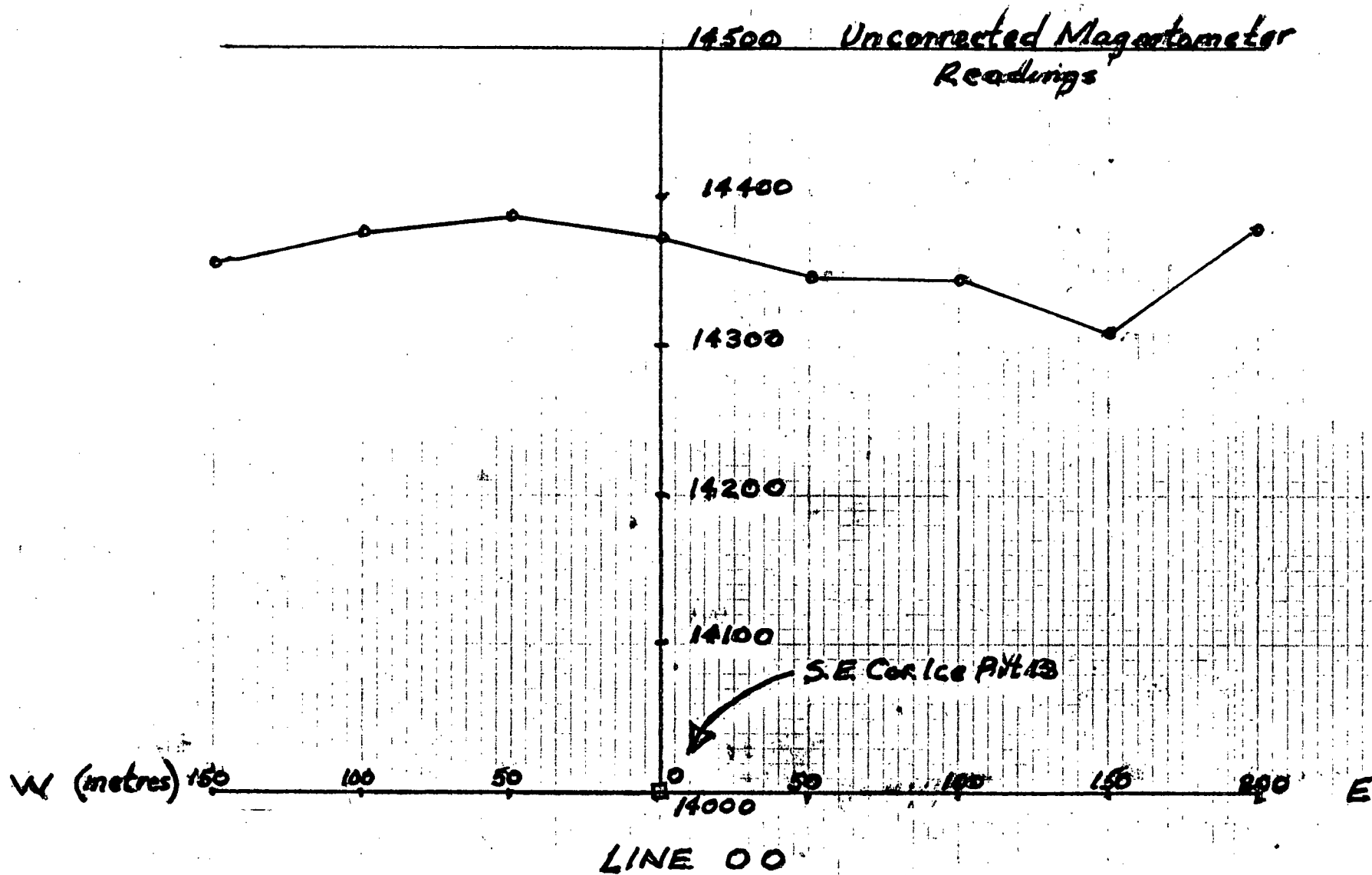


FIG. 3 E-W Magnetometer Profile Along S. Boundary of Ice Pit 13 and 14 Mineral Claims

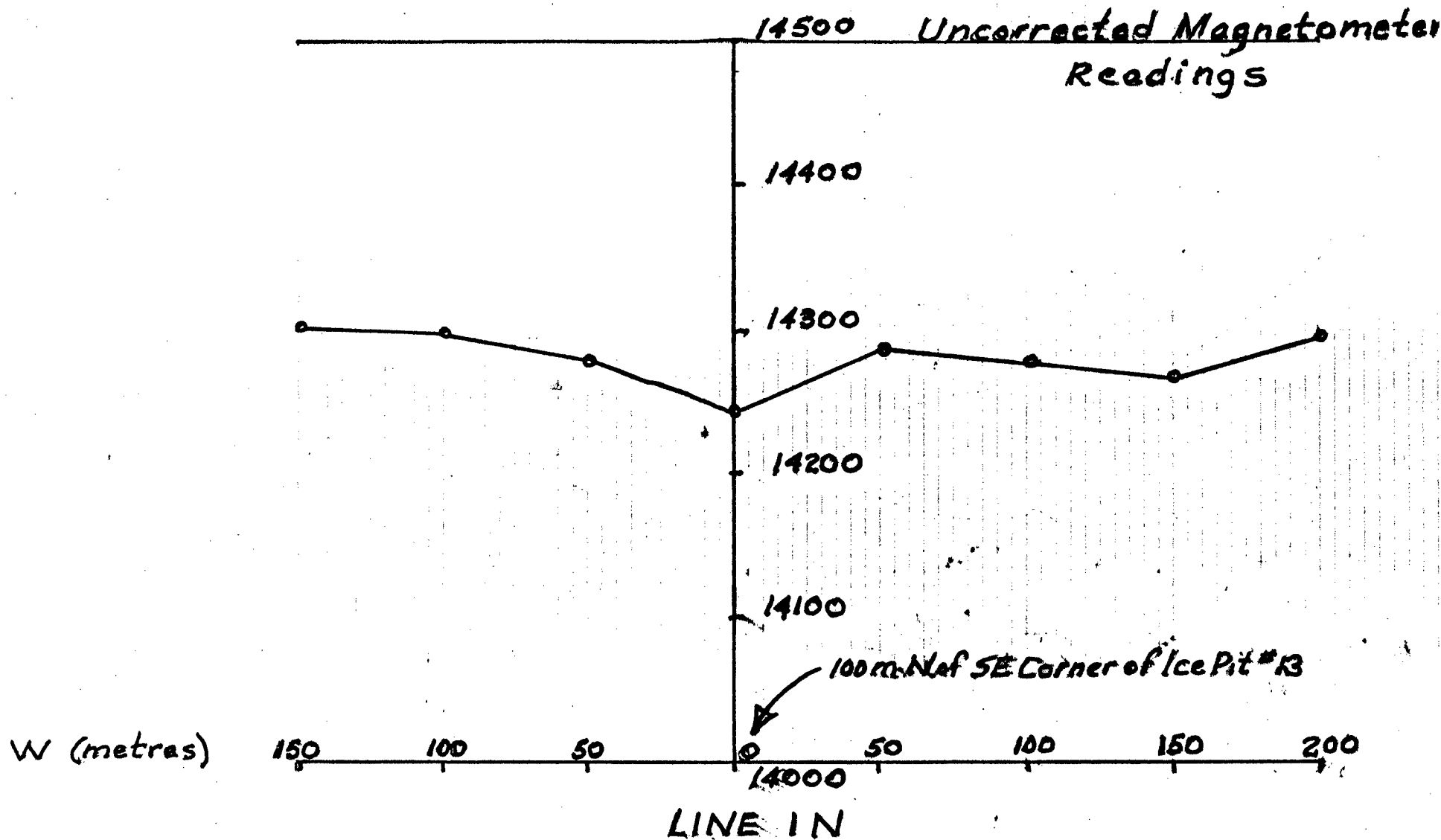


FIG. 4 E-W Magnetometer Profile 100m. N. of S. Boundary of Ice Pit 13 and 14 Mineral Claims.

5.2 GEOLOGICAL RECONNAISSANCE

On June 4 and June 5, 1994, Messrs J. Cook, P. Eng., D. Keffer, P. Eng., and C.B. Newmarch, P. Eng. travelled to the near vicinity of the "West Pits" Group of Claims, travelling from Calgary by jeep and utilizing the logging roads shown on Figure 2 (In Pocket). By traversing separately over the grassy slopes and watching for rusty-colored soil, a quartz vein was discovered on Ice Pit #6 claim at an elevation (barometric) of 1,200 metres. The vein had a maximum thickness of one metre, near vertical dip and trended along a due south bearing for two hundred metres, as shown in Figure 5. Mineralization of the vein was irregular, generally poor with chalcopyrite being plainly visible, with traces of galena. Chip samples of the best mineralization taken at the highest vein outcrop were sent to Chemex Labs Ltd. in Vancouver, British Columbia for I.C.P. analysis. The results of this testing are given in Figure 6A and 6B which are disappointing because of the lack of gold.

6. CONCLUSIONS AND RECOMMENDATIONS

The magnetometer profiling, because of the steep slopes, and rough ground, was slow and costly and yielded inconclusive results.

Geological reconnaissance, by contrast, and even in an area that initially seemed devoid of outcrop, produced better results. A second quartz vein was observed at the northwest corner of Ice Pit #13 claim - leading to an additional staking of Ice Pit #21 and Ice Pit #22 claims which have not yet been sampled.

ICE PIT #6 M.C.

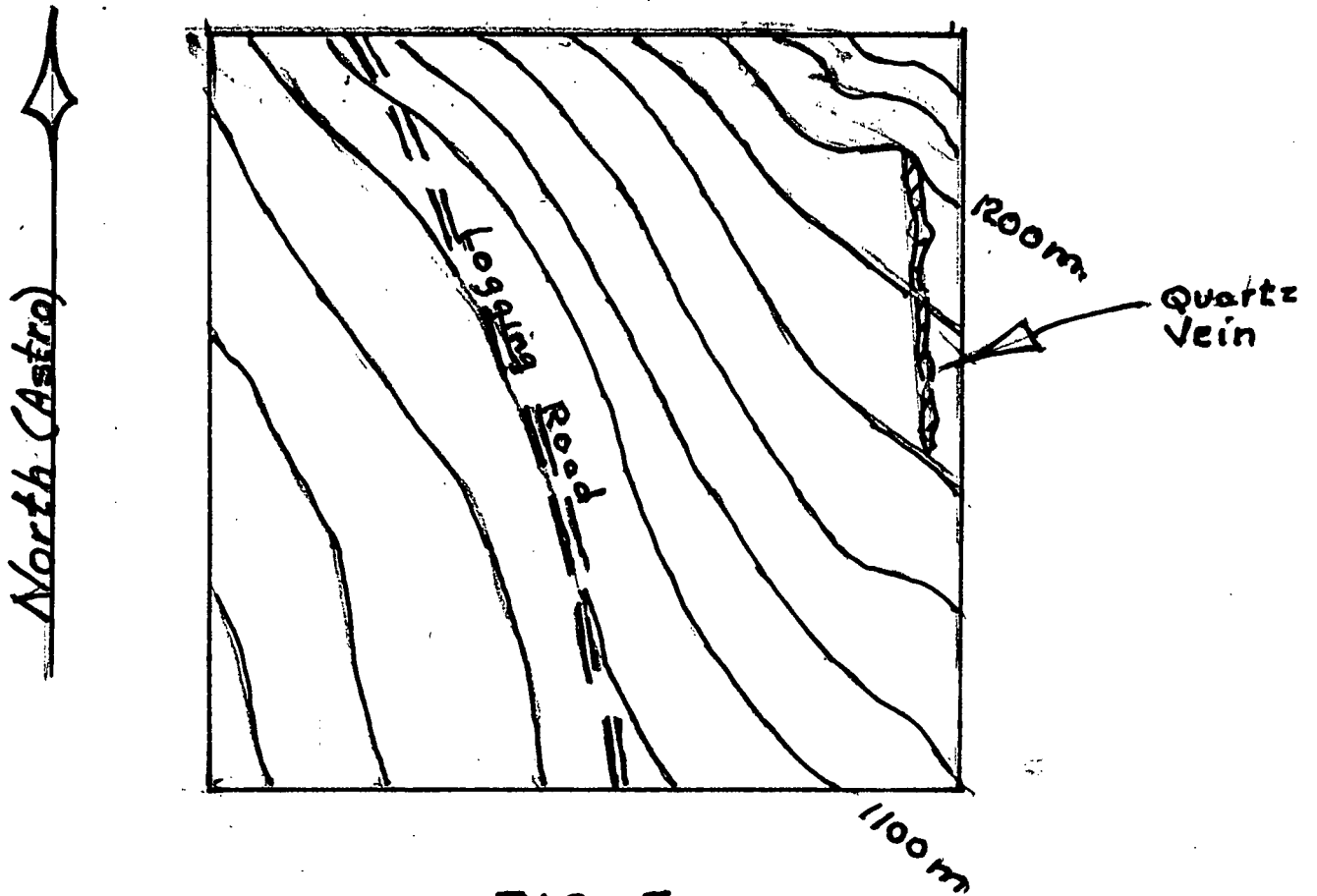
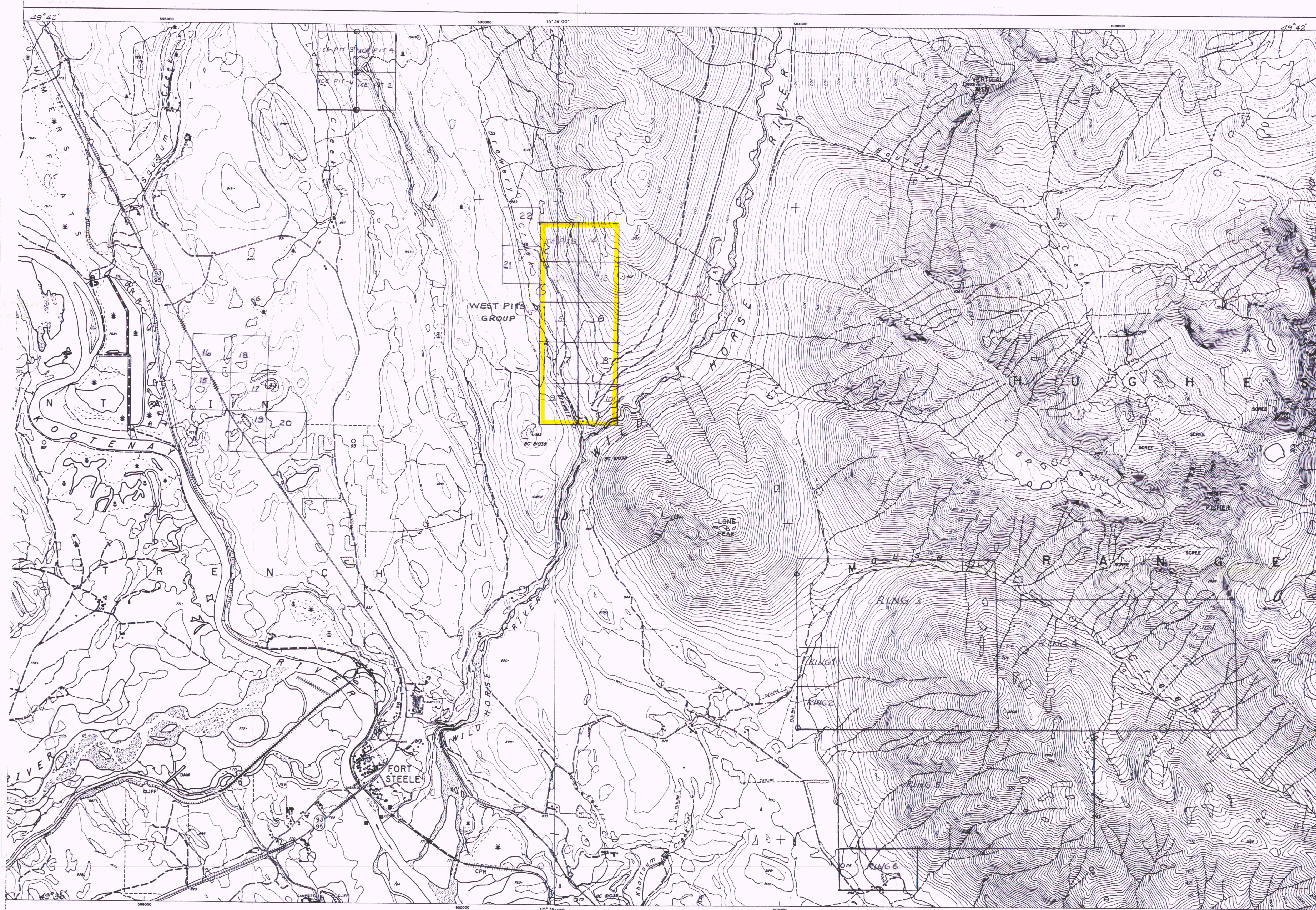


FIG. 5



SCALE: 1 cm = 50m



LEGEND

Transportation

- Road, paved
- Road, loose surface
- Road, rough
- Trail/cut line
- Railway, single track
- Railway, double track
- Railway, multi track
- Railway, abandoned
- Retaining wall
- Cut/fill
- Bridge, to scale, not to scale
- Tunnel, to scale, not to scale

Landmark features

- Building, to scale, symbolised
- Built up area
- Fence
- Transmission line
- Tower/pylon

Drainage and related features

- High water mark, water course definite
- High water mark, water course indefinite
- Stream, intermittent
- Stream, spill
- Dyke
- Flooded land
- Swamp/marsh
- Beaver dam
- Pier
- Rock/island less than 20m
- Water level

Relief features

- Contour, index
- Contour, intermediate
- Contour, indefinite
- Contour, depression
- Spot elevation

Vegetation

- Wooded area

Control data

- Monumented horizontal control point
- Monumented vertical control point

Cadastral

- Surveys of Federal and Provincial Crown Land
- Sub-division of Provincial Crown Land
- Rights of way
- Township boundary
- District lot, Township section line
- Indian reserve, Foreshore lot
- Mineral claim, Coal lease, Coal licence
- 1/4 section line in a Township, Legal or Crown subdivision, Rights of way
- Surveyed Cadastral Tie Point

For complete reference to symbols, see "Specifications and Guidelines for Digital Topographic and Cadastral Mapping of 1:20 000" published by the Ministry of Environment and Parks.

Notes

Digital data and additional copies of this map are available through MAPS-BC, Ministry of Environment and Parks, Victoria.

Errors and omissions should be brought to the attention of the Director, Surveys and Resource Mapping Branch, Ministry of Environment and Parks, Parliament Buildings, Victoria B.C. V8V 1X5

GEOLOGICAL BRANCH ASSESSMENT REPORT

23,477

Approximate Mean Declination 1989
for Centre of Map
Decreasing 7.9" Annually

FIG. 2

82G.072	82G.073	82G.074
82G.062	82G.063	82G.064
82G.052	82G.053	82G.054

Adjoining Sheet Index in the British Columbia Geographic System.