Province of British Columbia

Ministry of Energy, Mines and Petroleum Resources
GEOLOGICAL SURVEY BRANCH

FILMED

ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT [type of survey(s)]: Assessment Report on North Fisher Group - Placer Claims

TOTAL COST: $10,560

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

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): FER93-0600416-P27 YEAR OF WORK: 1993

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S): Submitted to Cranbrook May 19, 1994

PROPERTY NAME: North Fisher Group

CLAIM NAME(S) (on which work was done): Chuck One

COMMODITIES SOUGHT: Gold, Indicator Minerals, Diamonds

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:

MINING DIVISION: Fort Steele NTS: 82G12E

LATITUDE: 49 ° 39 ' 49 " LONGITUDE: 115 ° 33 ' 40 " (at centre of work)

OWNER(S)

1) C.B. Newmarch
24 Maryland Place S.W.
Calgary, Alberta T2V 2E4

2) E.E. Gilbert
3600 First Canadian Centre
350 - 7th Avenue S.W.
Calgary, Alberta T2P 3N9

OPERATOR(S) [who paid for the work]

1) C.B. Newmarch
MAILING ADDRESS: As above

2) E.E. Gilbert
MAILING ADDRESS: As above

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

The North Fisher Group comprises five Placer Claims occupying a topographic depression just east of Lone Peak - a possible"Old Channel" of Wildhorse Creek. Surface gravels are anamalously - high in gold; indicator minerals include red-purple (G-10?) garnet and diopside.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: Assessment Report 18795 on Peak 3 - 4 Mineral Claims by D.M. Gore for Cathedral Gold, 1989 - includes sixty soil samples.

(OVER)

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
Surface gravel sampling	One kilometre Six cubic metres	Chuck One; Gil 3	
GEOLOGICAL (scale, area)			
Ground, mapping	1/20,000		
Photo interpretation	1" = 1/2 mile		
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for ...)			
Soil			
Silt			
Rock			
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			9,000
Petrographic			
Mineralographic			1,200
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY/PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other	PAC Account		360
		TOTAL COST	10,560

TABLE OF CONTENTS

ILLUSTRATIONS

ASSESSMENT REPORT

Concerning Geological and Prospecting Programs

Relating to the following Placer Claims

Owner	Name	Tenure#	Interest	GTD	MB	Tag#	Map#
C.B. Newmarch	Chuck #3	319006	100%	1995/June 13	5	P61521	082G12E-H
C.B. Newmarch	Chuck Two	318554	100%	1995/June 9	5	P82524	082F12E-H
E.E. Gilbert	Gil One	318522	100%	1995/June 6	5	P61519	082G12E-H
C.B. Newmarch	Chuck One	318523	100%	1995/June 6	5	P61518	082G12E-H
E.E. Gilbert	Gil #3	318555	100%	1995/June 9	5	P61520	082G12E-H

Owners:

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

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

Date: June 28, 1994

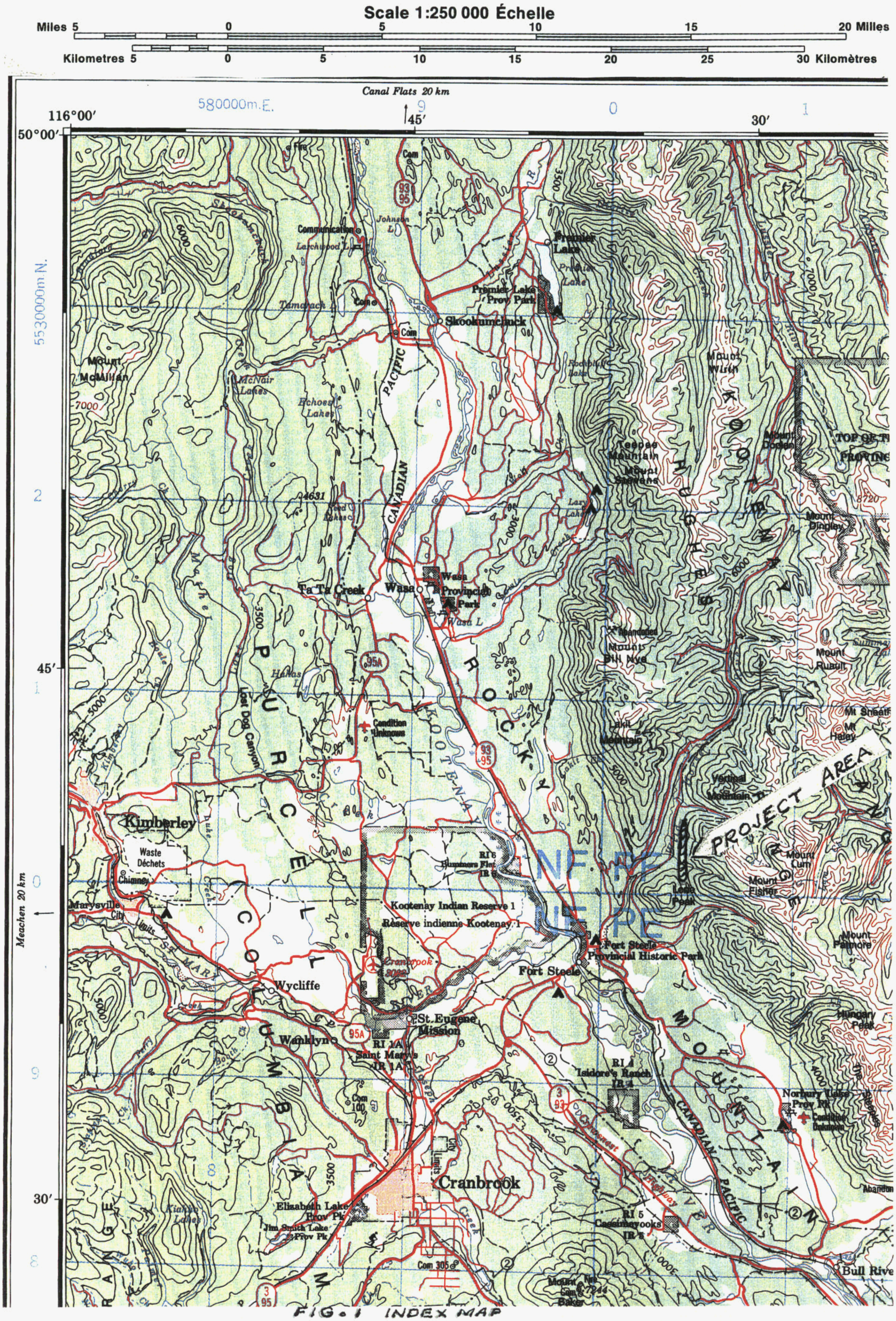


FIG. 1 INDEX MAP

1. INTRODUCTION

This report describes field work undertaken by J. Kruszewski, J. Cook, N. Gilbert and C.B. Newmarch on Chuck One and Gil 3 Placer Claims during the interval August 25 to September 18, 1993. We were assisted in completing a vibrating sluice sampling program by the volunteer services of four men provided by Mr. Moe Merrick - who holds nearby mineral claims and was interested in knowing our sampling results.

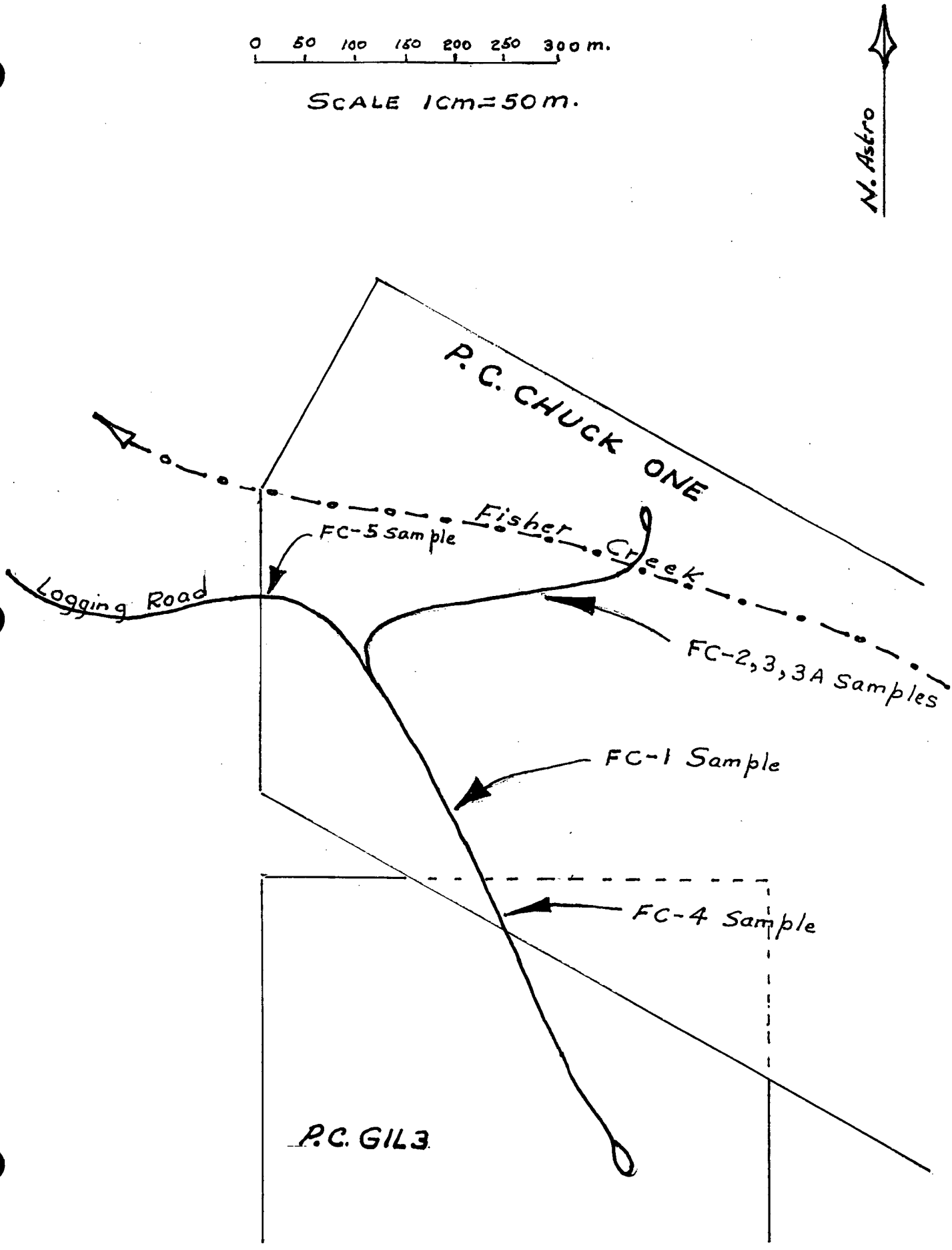
The area to be sampled by vibrating sluice was selected subsequent to air photo studies in a region where nearby bedrock hills confined the presence of an original "Old Channel" that provided a setting similar to, but at a higher elevation, than the present Wildhorse Creek. It is theorized that this "Old Channel" was dammed by ice during glacial times and thus the original Wildhorse Creek was directed to it's present course, a portion of which proved to be a prolific placer gold producer during the period 1864 - 1898. It is thought that some 200 million dollars worth of placer gold was recovered from Wildhorse Creek prior to 1898 when interest in further exploration moved to other areas such as the Yukon.

2. SAMPLING

Access to the area to be sampled was obtained by following the Forestry and Logging roads shown in Figure 1. The vibrating sluice was provided by Mr. Kruszewski, along with a hose and gasoline driven pump so that water could be delivered to a site close to Fisher Creek. A sump area was prepared some fifteen feet from Fisher Creek so that discarded material could be kept out of the creek.

Surface samples were taken by driving J. Kruszewski's truck to the sites shown on Figure 2, and loading six or seven tubs of gravel from roadcuts or from holes dug in the surface gravels. These samples were trucked to the wash site near Fisher Creek, processed through the vibrating sluice, (See Figure 5), and then panned to a concentrate. The concentrates were subsequently examined under a binocular microscope with the objective of identifying gold, metallic minerals, indicator minerals or diamonds. Because one micro-diamond had been obtained from panning one panful of gravel in an old pit area of the present Wildhorse Creek, then it was felt necessary to go through the tedious process of microscopic examination of the several concentrates collected. The results of this work are given in Section 4 "Sample Descriptions", most of which were done on return to Calgary. Diamond identification was made with a jeweller's tool, a "Diamond Star" diamond tester. The vibrating sluice was equipped with a replaceable board so that it could be used as a "grease table" for the recovery of diamonds, but the very cold rainy weather made this procedure impractical.

FIG.-3


0 50 100 150 200 250 300 m.
SCALE 1cm=50m.
N. Astro
P.C. CHUCK ONE
Fisher Creek
FC-5 sample
Logging Road
FC-2, 3, 3A Samples
FC-1 Sample
FC-4 Sample
P.C. GIL3

3. 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.

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 form 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 manger of Fleet Resources and has financed numerous mining exploration endeavors in British Columbia.

E.E. Gilbert, P. Eng., P. Geol. (Alberta) is a graduate in geology from the University of Wisconsin (B.A. in 1947) and conducted several years of field work during and after graduation. He was a long term employee of Sun Oil Company but for the past several years and currently is Professor and Co-Director of Petroleum Land Management, Faculty of Management, The University of Calgary. He holds F.M.C. No. 294621 expiring in 1994.

3.1 CERTIFICATION

This report conveys the results of field work and office studies carried out in the summer of 1994 in appraisal of the North Fisher Group of Placer Claims. I believe that the expenditures claimed for the work described is correct and appropriate.

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

4. GEOLOGY

The Geology of the area is portrayed in Province of British Columbia Energy Mines and Petroleum Resources Open File Map 1988-14. To the west of the "Old Channel" and the Placer Claims the Precambrian Creston and Aldridge beds are well exposed in Lone Peak, strike easterly and dip gently (25° - 45°) northerly. The "Channel" itself follows a northerly trending fault zone that extends north to Fisher Creek where it is terminated by an east to northeast trending fault - the Boulder Creek fault. East of the "Channel" the Aldridge and Creston sediments are much more disturbed and often overturned. The "Channel" direction is thus controlled by a zone of structural weakness.

The concept of an earlier and also gold-bearing channel lying west of the present Wildhorse River was established by the writer in "Report on Drilling Project on Placer Mining Lease #922 compiled by Veczay Minerals Exploration in June 1964 (Unpublished). This project, involving seventeen churn-drilled holes demonstrated the presence of and "Old Channel" close to the west side of Lone Peak that carried gold values of one to three cents per cubic yard (when gold was valued at $35.00 per ounce) and that a concentration at a depth of 120' obtained on top of a clay "false bedrock". This same area was further tested in 1990 by Ole Placers who drilled six holes on Placer Claims 21, 20, 66 and 97, providing data reported by Michael Henrick in Assessment Report 21575. Only modest amounts of gold were recovered, estimated on occasion to be .01 to .02 ounces per cubic yard. The stream gradient was thought to be about four to five degrees.

In the area of the current study the probable "Old Channel" alignment is established by a prominent topographical depression (See Figure 2). The presence of gold values in the area was noted and reported in Assessment Report #18795 which describes the results of a surface geochemical soil survey in the Fisher Creek - Mause Creek area. From the sixty samples, some six samples returned greater than 20 ppb gold, with a high of 40 ppb close to Fisher Creek and just northwest of our Chuck One Place Claim. Our own vibrating sluice study also found unusually high gold values (See Section 5 - Sample Description) in the surface gravels tested at several locations. On Mavs Creek a new road cut adjacent to a new Forestry bridge exposes a gravel section of interest. In it, recent Mause Creek gravels overlie a short section of gravel carrying rusty coloured sand lumps, from which one coarse grain of gold was panned. Nearby, the presence of several old shafts to bedrock at about 90' in depth are reported to have encountered near to bedrock significant gold values.

FIGURE 4

Vibrating Sluice at Fisher Creek

5.1 SAMPLE DESCRIPTION

FC-1 Host rock - 56% - Silvery micaceous schist, grey to white quartz, some magnetite in octagons and cube, some of it fine. A few small glassy objects. Minor galena (in quartz), some dark red-brown garnet. Entire sample fine grained.

FC-2 Host rock is micaceous schist, lots of quartz with rusty weathered pyrite - one dark red garnet or zircon, sizeable. Some galena, several pink almandites, grains, lots of rusty particles, grey to white quartz, magnetite.

FC-3 Fine grained sample from coarse fraction on screen (gold colours noted in pan), many pink or orange-pink garnets. Quartz is gray to white, some small glassy quartz, grains, magnetite, black chert?. Host rock is grey micaceous schist, minor green schist. Numerous pin-point shiny spots (galena). Two flakes of gold, small, same color (copper) as that in the main pit on Wildhorse River.

FC-3A Similar to FC-3, but coarser. Three flakes gold. A number of orange-pink garnets. Several glassy quartz particles.

FC-4 Salt and pepper, fine grained sample. Usual host rock of gray or greenish micaceous schist, two pieces of bornite, magnetite sometimes cubic, one flake of native copper (or Gold?), some rusty quartz.

FC-5 Black and white, salt and pepper sand, several pink garnets, lots of cubic small and large magnetite, large bits of galena. One flake of silvery phlogopite (mica), more metal than the other samples, some bornite.

6. CONCLUSIONS AND RECOMMENDATIONS

Because of the encouraging near surface gold values noted in the surface gravel testing program and assuming that improving values may be expected with depth and proximity to bedrock, then it is suggested that a drilling program be initiated with the first few holes being located on Chuck One Place Claim where a modest depth to bedrock is expected.

7. EXPENDITURES, VIBRATING SLUICE PROJECT

August 25

Meals		
C.B. Newmarch	$ 30.00	
J. Kruszewski	30.00	
J. Cook	30.00	
N. Gilbert	30.00	
Hotels		
Cranbrook - 4 @ $46.00	184.00	
Auto Expense		
4 x 400 kilometres @ 20¢	320.00	
Salaries		
3 @ $400.00	1,200.00	
1 @ $250.00	250.00	
	$ 2,074.00	Sub

August 26

Meals		
4 men @ $30.00	120.00	
Hotels		
4 @ $46.00	184.00	
Auto Expense		
4 x 30 kilometres @ 20¢	24.00	
Salaries		
3 @ $400.00	1,200.00	
1 @ $250.00	250.00	
	$ 1,778.00	Sub

(Assisted by Moe Merrick's Staking Crew - 4 men at no charge)

August 27

Meals		
4 men @ $30.00	$ 120.00	
Hotels		
4 @ $46.00	184.00	
Auto Expense		
4 x 30 kilometres @ 20¢	24.00	
Salaries		
3 @ $400.00	1,200.00	
1 @ $250.00	250.00	
	$ 1,778.00	Sub

August 28

Meals		
4 men @ $30.00	120.00	
Auto Expense		
4 x 400 kilometres @ 20¢	320.00	
Salaries		
3 @ $400.00	1,200.00	
1 @ $250.00	250.00	
	$ 1,920.00	Sub

August 29

C.B. Newmarch - Plotting data - One day	$ 400.00	Sub
Total through August 29	$ 9,400.00	Sub

SAMPLE EXAMINATIONS			
DATE	SAMPLE NO.	TIME	CHARGE
September 1	FC-1	One hour	$ 100.00
September 2	FC-2	One hour	$ 100.00
September 5	FC-3	One hour	$ 100.00
September 15	WHP-1	One hour	$ 100.00
September 16	FC-3, 3A	One hour	$ 100.00
September 17	FC-5	One hour	$ 100.00
September 18	FC-5	One hour	$ 100.00
TOTALS		Eight hours	$ 800.00

To August 29	$ 9,400.00
Plus Sample Examinations	800.00
GRAND TOTAL	$10,200.00

8. LIST OF REFERENCES

Geology of the Fernie W½ 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. (1085) Fernie Map Area W½, British Columbia 82GW½, Geol. Survey of Canada Paper 58-10

Leech, G.B. (1960) Geology of Fernie W½, Kootenay District, British Columbia Survey of Canada, Map 11, 1960

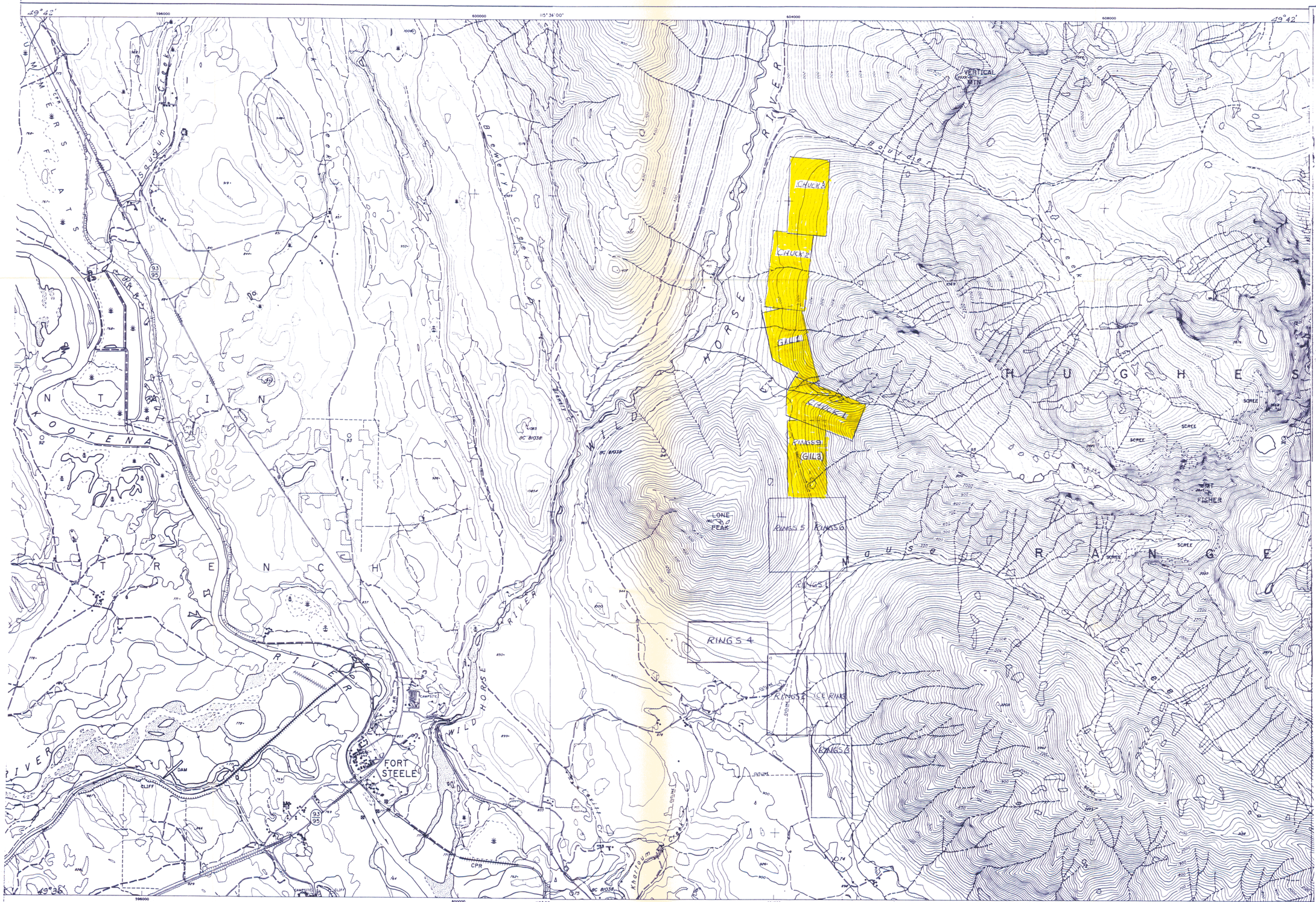
Proceedings of the Fourth International Kimberlite Conference, Perth, 1986, "Kimberlite and Related Rocks, Volume 1, Volume 2, G.S.A. Special Publication No. 14

Pell, J. "Alkaline Ultrabasic Rocks in British Columbia", Province of British Columbia Ministry of Energy Mines and Petroleum Resources, Open File 1987-17

Pell, J. "Carbonatites, Nepheline Syenites, Kimberlites and Related Rocks in British Columbia, Province of British Columbia, Ministry of Energy Mines and Petroleum Resources, Bulletin 88, 1944, pp 35 - 39, p 48.

Assessment Report #21575, Boulder Creek Exploration Project, Cranbrook, British Columbia by Michael P. Henrick, November 1990.

Assessment Report #18795, Soil Geochemical Survey of the Peak Property by D.M. Gore, 1989



NORTH FISHER GROUP IN YELLOW

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, split
- Dyke
- Flooded land
- Swamp/marsh
- Beaver dam
- Pier
- Rock/Island less than 20m
- Water level — ± 706

Relief features

- Contour, index — 700
- Contour, intermediate
- Contour, indefinite
- Contour, depression
- Spot elevation — 692+

Vegetation

- Wooded area

Control data

- Monumented horizontal control point — 86H1234
- Monumented vertical control point — 86HA456

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 at 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

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.

This map was produced in 1989, for the B.C. Ministry of Environment and Parks, under its Terrain Resource Information Management (TRIM) initiative, by Digital Mapping Group Ltd., from 1:43 000 scale aerial photography flown in July, 1981.

0 200 400 600 800 1000 1200 1400
METRES

Contours generated from Digital Elevation Model.
Contour interval 20 metres.
Elevations in metres above Mean Sea Level.

DIGITAL DATA AVAILABLE			
PLANIMETRY	☒	CONTOUR	☒
CADASTRAL	☐	DEM	☒

82G.062 OF BRITISH COLUMBIA
Crown Lands
Resource Mapping Branch

Universal Transverse Mercator Projection
North American Datum - NAD83
UTM Zone 11

82G.063 DIGITAL

SCALE 1:20 000

Contours
Contour i
Elevation

23,399

GEOLOGICAL BRANCH
ASSESSMENT REPORT