

LOG NO:	JUN 0 8 1992	RD.
ACTION:		
FILE NO:		

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**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**22,347**

Subject: Georgina Claim

LCP Number 38910

Access and Location:

Situated in the Sayward Provincial Forest at the southerly main tributary of the North Memekay River. Approximately a twenty minute drive from White River Court on good logging roads. Distance from highway 19 at White River Court/Kelsey Bay Junction about twenty kilometres; via Salmon River Main "C"- branch across the north Memekay River Bridge and up "C-600, C-610, C-620". Other access possible over F branch along the White River until "F" branch joins "C" branch. The Legal Corner Post is situated approximately two and one half kilometres from North Memekay River Bridge.

Physical Features:

The two units are within a U - shaped valley with some remaining moraine rests and glacial till. Elevation changes from river level at around 400 meters up to 700 meters altitude. There are good rock outcrops alongside blasted out portions of logging roads and several small pits (quarries) where material has been taken for road building.

Vegetation: Salal, berry bushes, big timber, second growth, open slashes and alder bottoms.

Previous Work:

Not known to me.

GENERAL GEOLOGY

The claim is within the so called **Harbledown Formation** (Jurassic), variable silt stones, argillites, greywacke. To the south there are **Bonanza Group** rocks, namely Andesites and Dacites ( a flow breccia of andesitic composition with minor sulphide clasts was noted a half kilometre south of the Georgina Claim). To the north some granodiorite intrusive encompassed by Triassic **Karmutsen Basalt**.

### Georgina Claim General Geology:

On the Georgina claim thin to thick bedded mud stones ("interbedded siliceous argillites") striking generally east/west and dipping moderately south (5 to 40 degrees, some folding) cover most of the surface area. These "mudstones" are in parts disrupted by felsic intrusive (often strongly feldspar porphyritic to quartzite-hornfels like). These felsic units (dykes?) are most likely parts of a large dome shaped hornfels outcrop which appears to cut off the bedded mudstones to the south-east of the claim area.

Rusty gossan is evident everywhere and both, mudstones and felsic rocks are mineralized variably throughout the property with fine to coarse grained pyrite and pyrrhotite.

### Mineralization:

**Pyrite** is usual finely disseminated in the matrix and in fractures mainly within the "siliceous argillites" (mudstones); from 5% to 30% and occurs massive in spots.

**Pyrrhotite** is present generally in both units, (mudstones and felsic) from very sparse to strongly disseminated up to 40%

Carbonates were noted only in some fine fractures and within gouge slips.

On some cleavage planes within the mudstones a possible amphibole mineral exists (radial crystal aggregate).

Samples were assayed for Au, Ag and Ni only.

Grab, chip and spot samples indicate pervasive gold and silver values.

### Object Of Present Work:

In order to define this mineralization more clearly a road cut was mapped and samples taken at appropriate intervals. Samples were assayed by courtesy of Westmin Resources at Myra falls assay office. (Fire assaying method for Au and Ag and atomic absorption for Cu, Pb, Zn, Fe). And by Acme Laboratories Vancouver (Au, Ag Fire Assay).

Further from mapping 300 meters of exposed outcrop along logging spur a very strongly mineralized section was recognized in a structural disturbed area: a cross bedded section. (see mapping).

Future Work Recommended:

More sampling and mapping required, geophysical work could be of great help.

Theory:

1.

A not typical skarn type for Vancouver Island. (NO garnet-magnetite mineral association observed presently). This skarn ("replacement skarn") in my opinion falls under the so called **Gold-bearing Hornfels/skarn group**. The thinly bedded and fractured mud stones represent a better "plumbing system" than massive unfractured beds, which means magmatic fluids were able to infiltrate. The large hornfels unit emplaced within volcanoclastics (to the south Bonanza volcanic rocks) probably of reducing character and the siliceous argillites (mud stones) which were possibly previous calc-silicate rich have been replaced by likely Ca-poor silicates. An example of retrograde alteration (apparently necessary to form a skarn).

2. The conspicuous absence of typical skarn minerals, like garnets, diopside, amphiboles or pyroxenes **actually points to another genesis, a hydrothermal type model.**

Conclusion:

The geology and mineralization present at the Georgina Claim and surrounding area, regardless of what kind of theory one applies is a prospect with potential suggesting the possibility of an economic mineral deposit. In all likelihood an Au-skarn type deposit, which although tend to have low tonnage and low grade, is worthwhile to examine further. Especially since the mineralization is wide spread and the conductive sil.-mud stones are several hundred meters thick and cover nearly the entire claim and areas beyond. Also notable in my opinion are the sulphide fragments seen in adjacent volcanic breccia rocks, a "hint" that there might be the possibility of a massive sulphide deposit within or close vicinity of the claim area.

Statement of qualifications:

Twenty six years employed in the mining industry, sixteen years as a miner for various companies and ten years mine geologist for Westmin resources at the Lynx Mine.

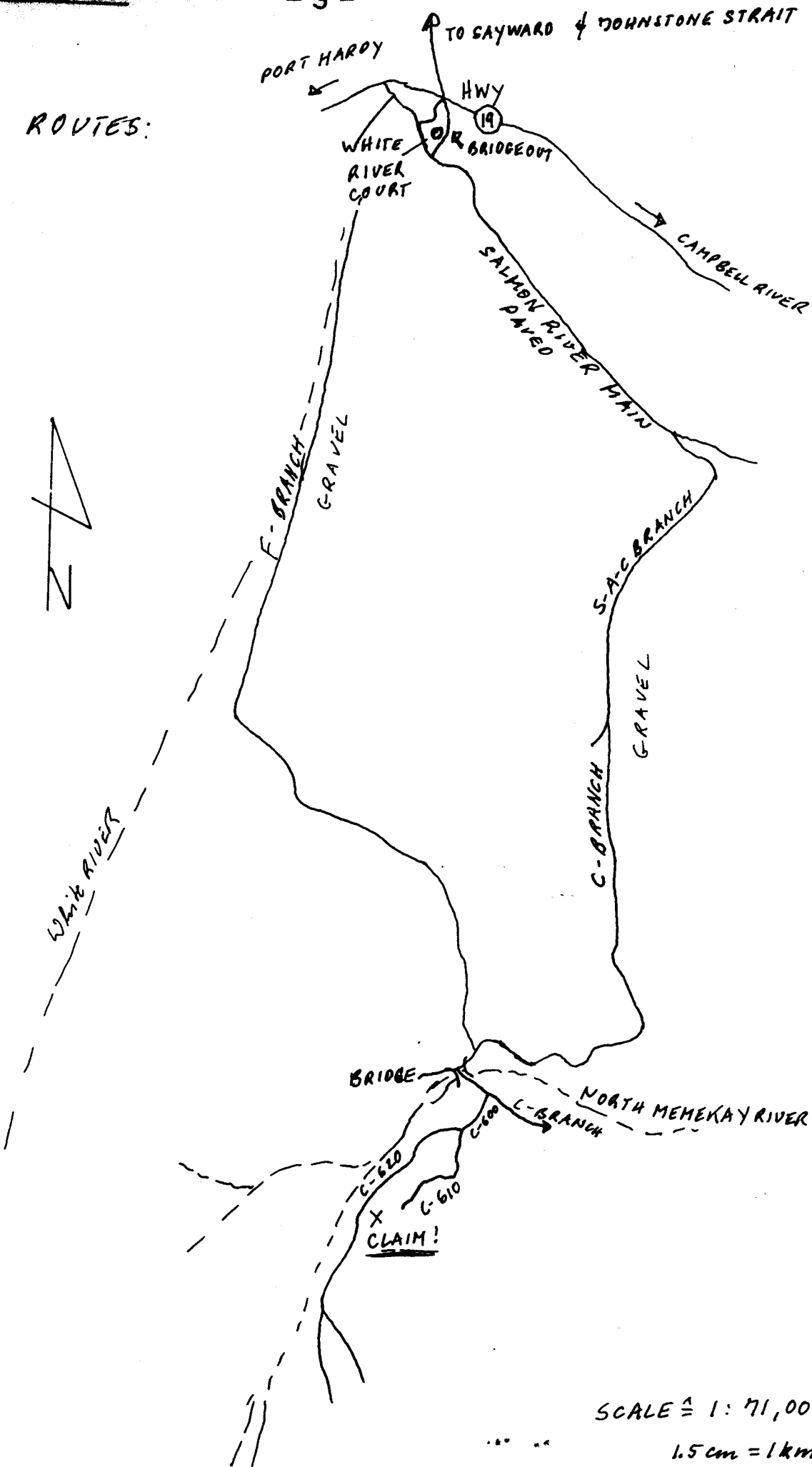
References: Cliff Pearson ,Chief Geologist Westmin Myra Falls  
Rick Walker, Technical Advisor ,Westmin  
Garfield Mac Veigh, Exploration Manager Lac Minerals  
.....etc.

*Note. Registration with the Prof. ENG. & GEOSCIENTISTS  
of B.C. IS PRESENTLY PENDING.*

*BUT ANY WORK PREVIOUS DONE BEFORE  
April 19<sup>th</sup> /92 = EXEMPTED FROM ~~ANY~~ THE  
NEW LEGISLATION.*

*Michael Tuley*

# MAP I ACCESS ROUTES:



SCALE ≈ 1:71,000  
1.5 cm = 1 km

-6-

IB

M192K/4W

River

Whit

Memckay

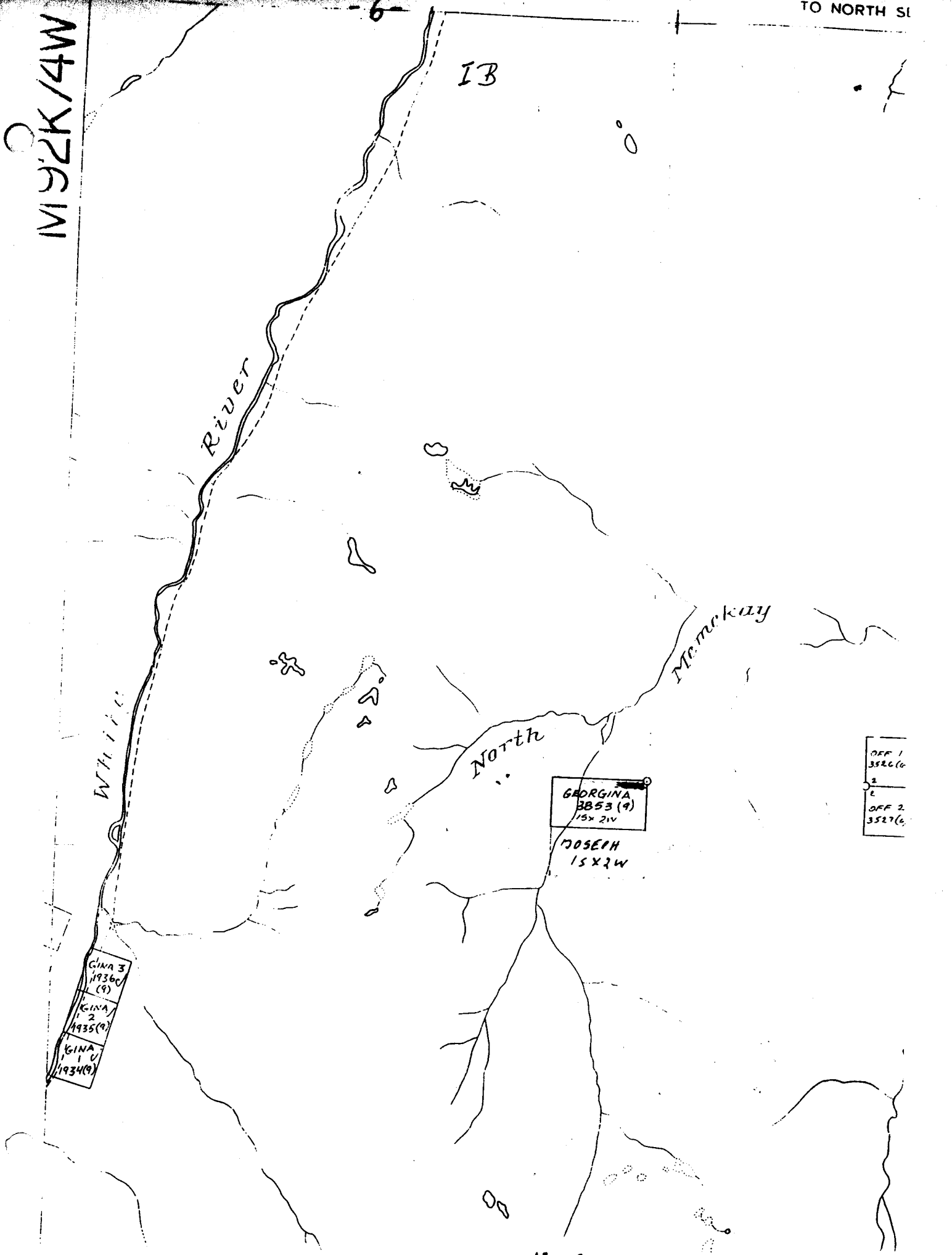
North

GEORGINA  
3853 (9)  
15x21W

JOSEPH  
15x2W

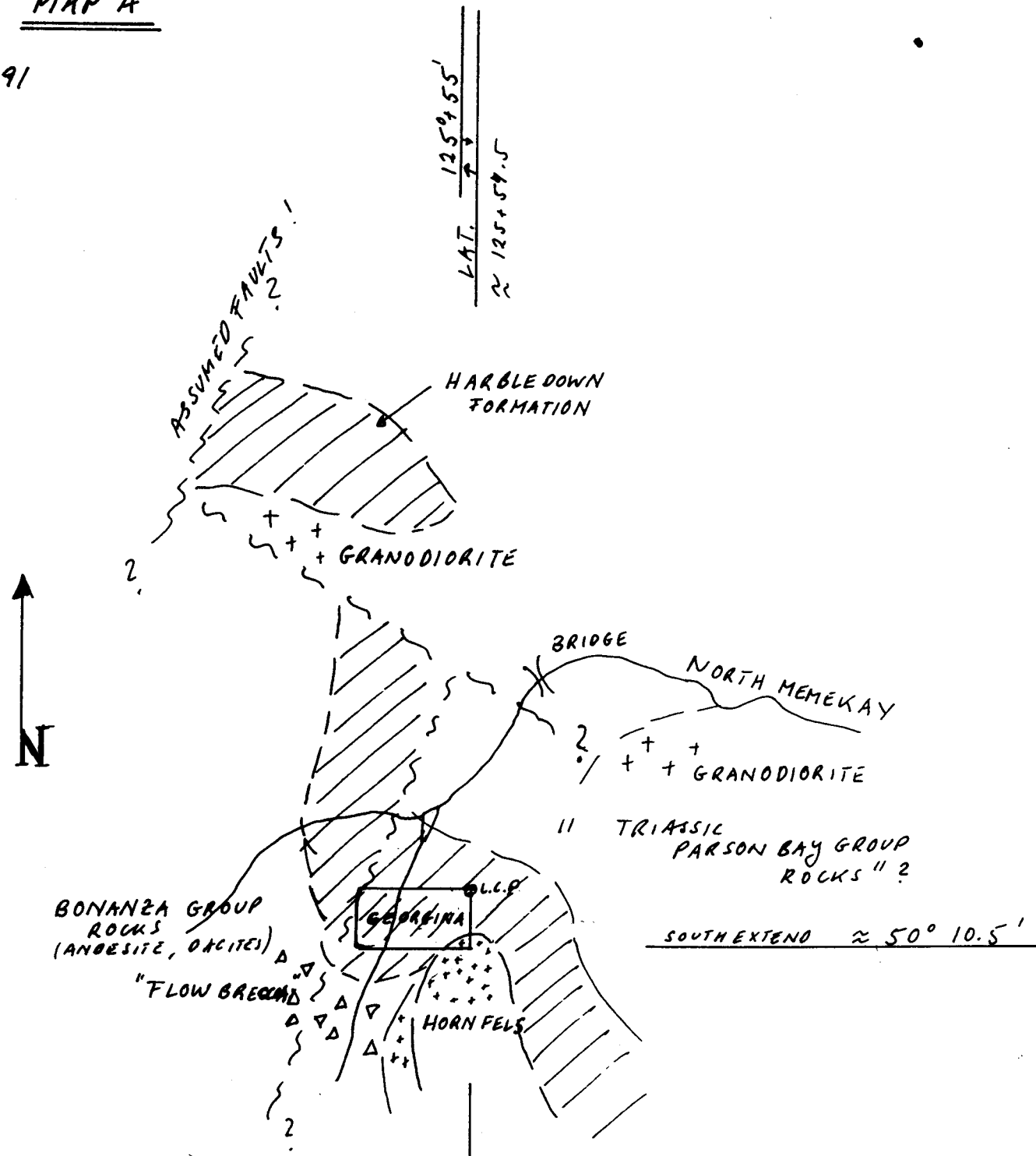
OFF 1
3526 (6)
2
OFF 2
3527 (6)

GINA 3
1936 (9)
GINA 2
1935 (9)
GINA 1
1934 (9)



# MAP A

MMS. 25.6.91



SCALE: 1:50,000

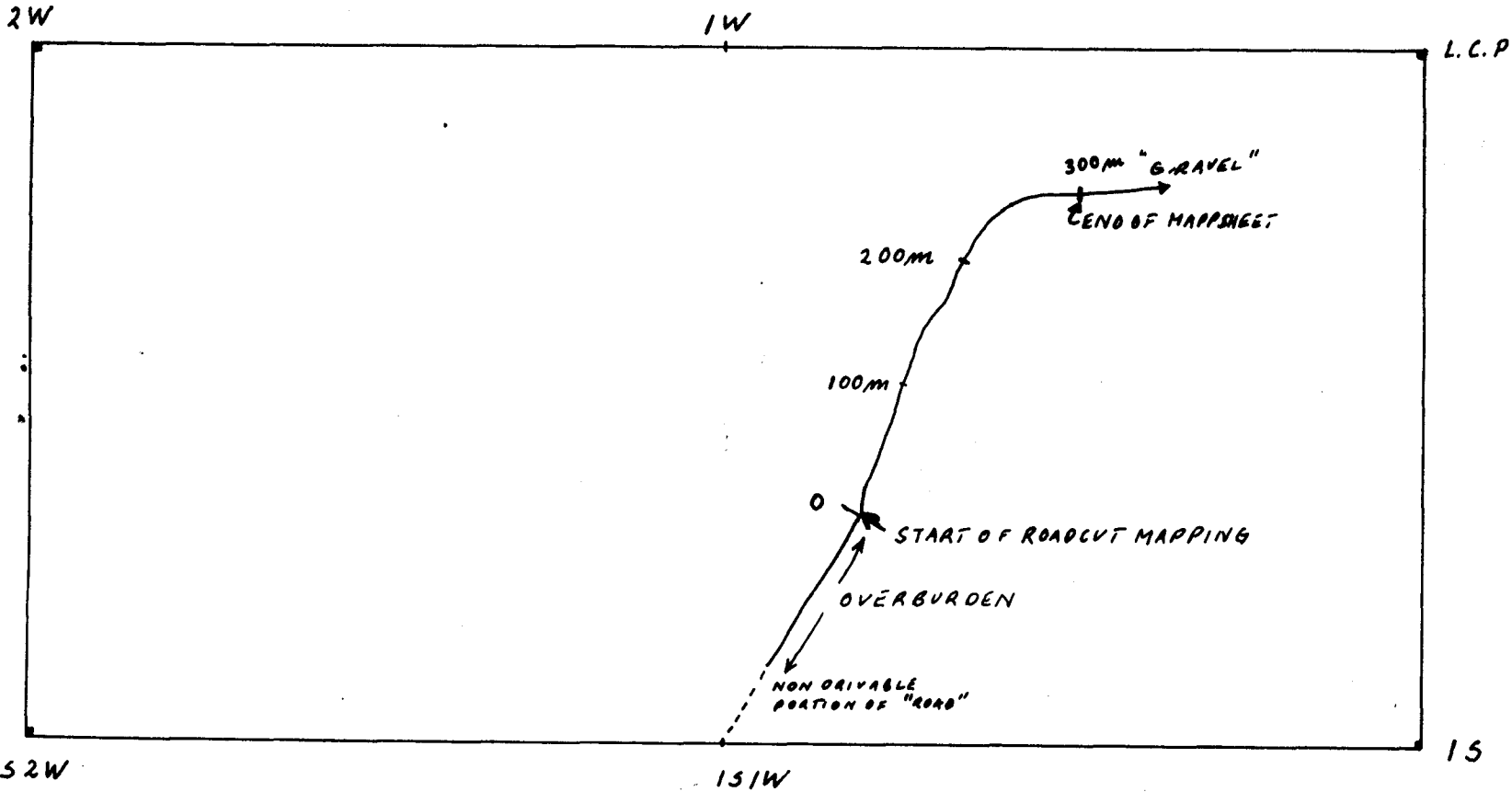
- LEGEND:
- ~ ~ ~ FAULT STRUCTURES!
  - - - - - APPROX. CONTACT
  - + + + G-DIORITE
  - ////// "MUONESTONES" ("SIL-ARG")
  - △ △ △ FLOW BRECCIA
  - • • HORN FELS



"C"

LOCATION OF ROADCUT MAPPING: PLAN, SCALE 1:50 (2cm = 100m)  
GEORGINA CLAIM.

27.7.91 MS



# ABBREVIATIONS USED FOR MAPPING (SHEETS 1 to 6)

MMS  
30.7.91

- OVB = OVERBURDEN
- FP = FELDSPAR PORPHYRY <sup>to</sup> "feldspar-porphyrific"
- VFT = VERY FINE TUFF
- SIL = SILICA / SILICEOUS
- alt/ = ALTERED
- arg = Argillitic / argillaceous
- T = Tuff
- CT = CONTACT
- gy = grey
- wh = white
- gn = green
- dk = dark
  
- diss = disseminated
- mod. = moderate (lg)
- sp = sparse (lg)
- str. = strong (lg)
- med. = medium
  
- lg = large
- f = fine
- gr = grained
  
- INTR. = INTRUSIVE
- avg. = average
- maf. = mafic
- pheno(s) = phenocryst(s)
- msv = massive
- go = gouge
- CARB = CARBONATE
  
- po = pyrrhotite
- py = pyrite
- bed'd = bedded
- bed'ing = bedding

**Assay Results ,Georgina Claim 1991**

Sample location :Upper logging road -spur, at random.

Sample type: Grab and spot samples.

Assayed by courtesy of Westmin Resources,method Fire assay.

Sample No.	Au oz/t	Ag oz/t
10361	T	T
10364	T	.03
10445	T	.16
10446	.166	.81
10447	.02	.14
10448	.015	.04
10449	.061	2.68



## GEOCHEMICAL ANALYSIS CERTIFICATE



Mike Becherer FILE # 91-1610

C-14 Site 91 R.R. #1, Black Creek BC VOR 1C0

SAMPLE#	Ni ppm
2803	5
2805	2
2806	1
2808	4
2809	20
2810	1

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO<sub>3</sub>-H<sub>2</sub>O 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: ROCK

DATE RECEIVED: JUN 6 1991

DATE REPORT MAILED: June 19/91.

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



**ASSAY CERTIFICATE**



Mike Becherer FILE # 91-1610  
 C-14 Site 91 R.R. #1, Black Creek BC V0R 1C0

SAMPLE#	Ag** oz/t	Au** oz/t
2801	.05	.001
2802	.01	.001
2803	.02	.001
2804	.05	.001
2805	.03	.001
2806	.01	.001
2807	.03	.001
2808	.01	.001
2809	.02	.001
2810	.01	.001
2811	.01	.001
2812	.02	.001
2813	.41	.001
2814	.01	.001
STANDARD Ag-1\Au-1	.98	.095

AG\*\* & AU\*\* BY FIRE ASSAY FROM 1 A.T.  
 - SAMPLE TYPE: ROCK

DATE RECEIVED: JUN 6 1991

DATE REPORT MAILED: June 19/91.

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

Statement of Cost:

**Mobilization:** 81 Dodge V-8 Truck, lic. 6341-MF., max. 20 miles/gallon  
nine round trips Black Creek to claim area = 1350 miles  
total or 150 miles/trip = 7.5 gallons gas = \$15.-/trip.

**Total cost**

Gas cost total.....	\$ 135.-
Sampling cost total.....	\$ 266.-
Geological mapping total.....	\$ 300.-
Other costs maps, food, paper material,.....	\$ 60.-
=====	
Total cost .....	\$ 760.-

**Detail**

Trip 1. accompanied by prospector J.Fic (reconnaissance, minor sampling) additinal cost	nil
Trip 2. accompanied by prospector W. Bernhard line cleaning, general reconaissance, add. cost...	nil
Trip 3. alone, sampling add. cost.....	nil
Trip 4. sampling accompanied by sons, add. cost Food (White River Esso) .....	\$ 22.-
Trip 5. alone , checking geological contacts....	nil
Trip 6. alone , sampling.....	nil
Trip 7. Geological mapping , day rate.....	\$ 150.-
Trip 8. Geological mapping , day rate.....	\$ 150.-
Trip 9. accOmpanied by J.Fic.....	nil
drafting material etc.....	\$ 23.-
sample shipping (Island Coach Lines).....	\$ 7.-

**ACME ANALYTICAL LABORATORIES LTD.**

852 E. Hastings St., Vancouver, B.C., CANADA V6A 1R6

Phone: (604) 253-3158 Fax: (604) 253-1716

Our GST tax number: R100035377



**MIKE BECHERER**  
 C-14 Site 91 R.R. #1  
 Black Creek, BC  
 V0R 1C0

File: **91-1610**  
 Date: Jun 18 1991

QTY	ASSAY	PRICE	AMOUNT
6	GEOCHEM Ni ANALYSIS BY ICP @	2.50	15.00
14	AG & AU BY FIRE ASSAY FROM 1 A.T. SAMPLE @	13.00	182.00
14	ROCK SAMPLE PREPARATION @	3.25	45.50
			-----
			242.50
	7% GST		16.97
	RECEIVED CHEQUE# 244 - THANK YOU		-259.47
			-----
	TOTAL		<b>0.00</b>

COPIES 1

- 11 -

TERMS: Net two weeks. 1.5 % per month charged on overdue accounts.

[ COPY 2 ]

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**22,347**

GOSSAN  
v. strongly  
oxidized  
"ochre-rich"

50 ft.

SIL. MUDSTONES  
dk gy-gn-wk.  
with str. ly disseminated py

BLEACHED wh. - MUDSTONES  
mod. - rusted  
& "Feldsp. - WACKE" MIXTURE

> f. gr. feldspa - porphyritic  
felsic ROCK dk-gy  
& in spots str. ly diss. po, 10-20%

numerous f. joint  
sets.

BOTTOM ("EAST" VIEW)

F.P. - dk gy f. gr. matrix  
with abundant altered (white)  
lg. feldspar - phenocrysts (2-4 mm avg. size)  
feldsp. - phenos % = 40%  
DYKE? - INTRUSIVE.

dk. gy - gn'ish (amphibole?)  
feldsp. - rich (1-3 mm size x't's)  
(BAREN of mineralization)

CHIP SAMPLE!  
2' ACROSS  
# 28146

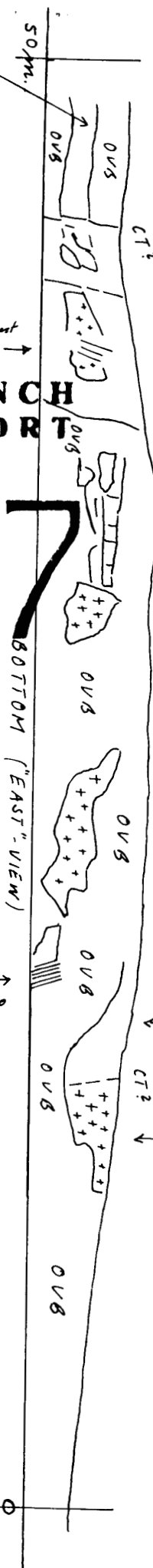
bed'd sil.  
dk gy mudstone  
with str. diss. po  
& sparse py.

"blocky"  
siliceous - arjillite-rich MUDSTONES  
dk. gy str. disseminated po - minor py

felsic (intrusive) Rock  
WITH SPARSELY DISS. PO

Elevation  
= 585m

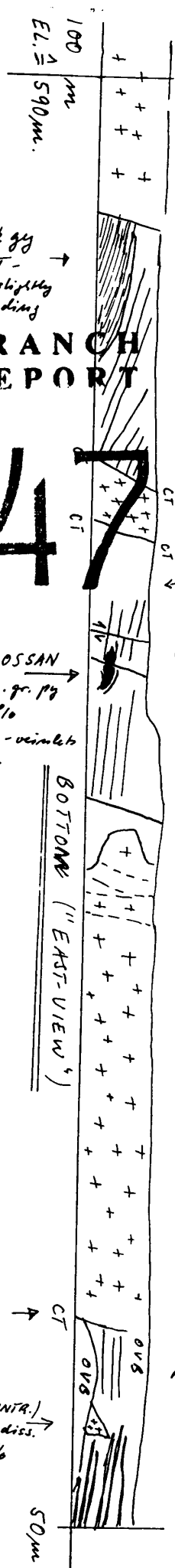
SHEET ①  
ROADCUT - GEORGINA CLIFF  
SCALE: 1cm = 1m  
MMS. 27.7.





**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**22,347**



dk gy, feldsp.-porphyritic (DYKE-SILL?)  
blocky, barren, FP's ~~to~~ 30%  
> maf. → "HORNBLENDE" - component towards  
of UNIT.

f. gr. dk gy  
mil-alt. T-  
barren, slightly  
shaly bedding

v. rusty VFT  
bedding  $\approx 20^\circ$

felsic - FP - DYKE?  
feldsp.-phenocr. ~~to~~  
← IRON-RICH (strongly magnetic) GOSSAN

SAMPLE # 28136  
OVER 3' (1m).

Sulf. GOSSAN  
f. gr. to c. gr. py  
to 40%  
with min py-veinlets  
to 2cm.

go to 1cm, filling rust

VFT (thin bed. v. f. MUDSTONES) dk, gy.  
dip =  $5^\circ - 10^\circ$  S  
SOME MINOR SMALL SCALE FOLDS  
WITH sp. to str. by diss. f. gr. py in matrix & fractures.

PROMINENT JOINT  
numerous joints  
slightly oxidized  
with f. gr. py in fractures.

felsic-UNIT ("INTRUSIVE")  
feldsp.-porphyritic  
dk gy-gg matrix  
with f. gr. phenocr.

CONTACT PYRITIC  
SAMPLE # 2812 G  
OVER 2' (60cm)

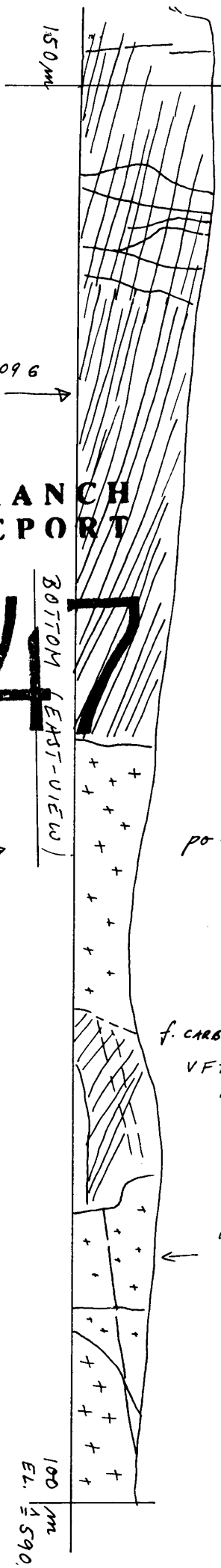
felsic (INTR.)  
with sp. diss.  
po, 1%

RUSTY, siliceous MUDSTONES ("CHERT-LIKE")  
thinly bed'd. dipping gently  $5-10^\circ$  SOUTH  
with strongly diss. v. f. gr. py, 5%-20%

SHEET (2)

ROADCUT - GEORGINA CLH  
SCALE: 1cm = 1m

MMB. 27.7.9



fractures

numerous f. go-slips to 1cm  
filling material = carb & oxidized

sil. - arg. - MUDSTONE  
wh-to dk gy. thin to thick bed'd  
bedding 20-30° S,  
med. RUSTED, IN SPOTS diss. po. 1-10%

sample # 2809 G  
po, spot →

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**22,347**

BOTTOM (EAST-VIEW)

SAMPLE 2810 G  
po, spot. →

po to 10% in f. gr. MATRIX RICH "FP" QUARTZITE"

f. CARB. VEINLETS WITH PY ALONG CLEAVAGE PLANES  
VFT (wh-yy-sil.-arg. MUDSTONE)  
RUSTY WITH v. f. gr. po 5%-10% avg.  
dip 40° S

← "QUARTZITE" f. gr. felsic UNIT  
WITH up to med. diss. po 5%

100 m  
EL. 1590

SHEET ③

ROADCUT - GEORGINA CLAIM

SCALE: 1 cm = 1 m

MMS 28.7.91



CONTORTED BEDDING  
str. 'ly. dissem. po to 20%  
py to 5%

X-bedding  
strongly dissem. py to 30%

MINOR FOLDING  
thin 'ly bed'd. MUDSTONE

dk gy feldsp-porphyratic (INTRUSIVE) ROCK

dk gy, sil. rusty VFT, some argillite blobs  
WITH v. sp. dissem. py & po. v.f.gr.

felsic, "QUARZITE?",  
po to 20%

rusty VFT, bed'ing 20° S

strongly OXIDIZED  
f. gr. po to 20% IN MATRIX WITH MINOR PY  
IN FRACTURES f. to c. gr. py.

SAMPLE # 28076  
CHIP  
30' (9m)

SAMPLE 2808  
2' (60cm) CHIP.

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

22,347

SHEET (14)  
ROAD CUT - GEORGINA CLAIM  
SCALE: 1cm = 1m  
MMS 28.7.

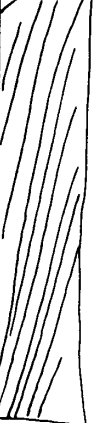
250 m



mod. rusted  
felsic UNIT  
3% po

strongly RUSTED  
sil-arg. gy VFT  
f to med. gr. py  
locally TO 30% py

SAMPLE NO. 28046  
CHIP, 5' (1.5m) →



po 5%



py 5-10%

BOTT



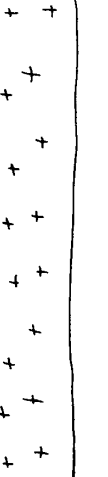
po - 5-20%

SAMPLE # 28056  
CHIP 6' (2m) →



bleached  
RUSTY  
AT CONTACT 5% po

SAMPLE  
# 28066 CHIP  
3' (1m) →



felsic intrusive  
barren

200 m

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

22,347

SHEET ⑤  
ROAD CUT - GEORGINA CLAIM  
SCALE : 1 cm = 1 m  
MMS 28791

OVB  
THE  
1.100/M

SAMPLE# 2802G  
SPOT (1')

SAMPLE# 2803G  
CHIP 3' (1m)

BOOTH

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**22,347**

OVB

CT

250  
M  
EL = 615

sparse to strongly disseminated  
f. gr. py throughout, in matrix & fract.-cleavage  
avg. 1% to 5% py  
& locally to 20% py

RUSTY thin bed'd VFI  
(mil. - arg. - MUDSTONE)  
dk. gg 1-5% py  
& to 3% po

SHEET 6

ROADCUT - GEORGINA CLAYM

SCALE : 1cm = 1m

MMS 28.7.4.

JUN 1 1992



Province of  
British Columbia

Ministry of  
Energy, Mines and  
Petroleum Resources

M.R. \_\_\_\_\_  
NANAIMO, B.C.

ASSESSMENT REPORT  
PAGE AND COUNTY

TYPE OF REPORT/SURVEY(S) <b>ASSESSMENT</b>	TOTAL COST <b>\$ 160.-</b>
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AUTHOR(S) **MICHAEL BECHERER** SIGNATURE(S) *Michael Becherer*

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED **1<sup>st</sup> June 92** YEAR OF WORK **91/92**

PROPERTY NAME(S) **GEORGINA (15x24), 2 UNITS**  
**L.C.P. # 38910, MAP. NO. 92 K/4W**

COMMODITIES PRESENT **Al, Ag**

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN

MINING DIVISION **NANAIMO** NTS

LATITUDE **~~N 48° 55'~~** LONGITUDE **~~W 120° 10.5'~~**

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property. (Examples: TAX 1-4, FIRE 2 (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified Mining Lease ML 12 (claims involved).)

OWNER(S)  
(1) **MICHAEL BECHERER** (2)

MAILING ADDRESS  
**C-14, SITE 91, RRI, BLACK CREEK, BC. VOR 1C0**  
**TEL. 337-8933**

OPERATOR(S) (that is, Company paying for the work)  
(1) **MICHAEL BECHERER** (2)

MAILING ADDRESS  
**C-14, SITE 91, RRI, BLACK CREEK, BC. VOR 1C0**

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude)  
**HARBLE DOWN FORMATION (JURASSIC) "SKARN?"**  
**LOW GRADE AL + AG VALUES, PYRITE & PYRRHOTITE**  
**MINERALIZATION THROUGHOUT CLAIM AREA.**  
**"GOLDBEARING HORN FELSKARN"**  
**GENTLY SOUTH DIPPING MUONSTONES (sil.-aqillites)**  
**FELSIC + FELSPAR PORPHYRITIC & QUARTZITIC INTRUSIVES**  
**& CONTACT TO BONANZA GROUP ANDESITE BRECCIA**

REFERENCES TO PREVIOUS WORK  
**NONE**