

LOG NO: 1202	RD.
ACTION:	
FILE NO: 87-825-16492	

8/88

A DIAMOND DRILLING REPORT  
ON  
KEY CLAIM GROUP  
NICOLA MINING DIVISION  
N.T.S. SHEET 921/2W

Latitude 50° 13' N  
12'36"

Longitude 120° 59' 42"  
~~121° 00'~~ W

SUB-RECORDER RECEIVED	
AUG 14 1987	
M.R. #	\$
VANCOUVER, B.C.	

PREPARED BY  
JAMES F. BRISTOW, P.Eng.

*Owner/Operator: Better Resources Limited*

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

RICHMOND, B.C.

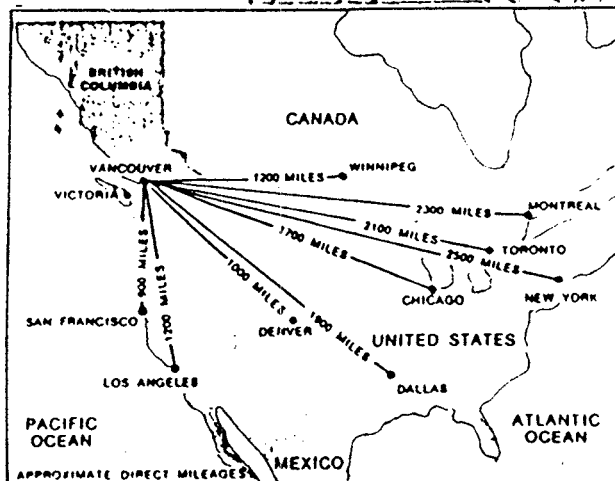
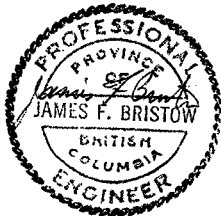
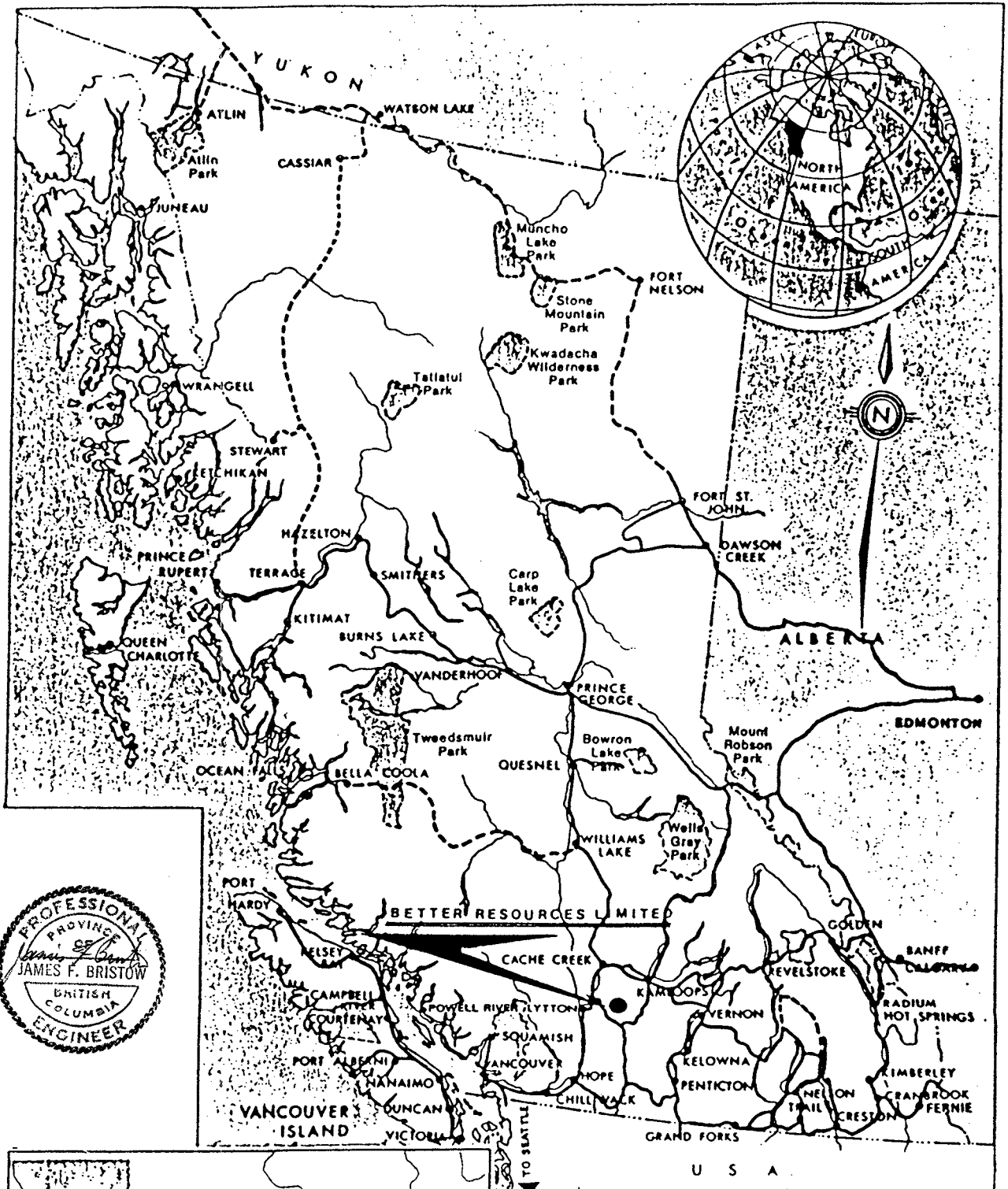
16,492

MAY 1987

FILMED

DIAMOND DRILLING REPORT  
ON  
THE GUS CLAIM

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BETTER RESOURCES LIMITED

INDEX MAP

Fig. No 1

James F. Bristow P. Eng

DIAMOND DRILLING REPORT  
ON  
THE GUS CLAIM

SUMMARY

Three BQ size wireline diamond drill holes totalling 227.1 metres (745 ft.) were drilled on the Key Claim Group. These drill holes indicate that a steeply dipping westerly striking skarnified limestone horizon is located at the south margin of the Guchon Batholith immediately north of Shackelly Creek.

Cost of the drilling programme was in excess of \$19,000.00.

INTRODUCTION

This report contains the results obtained from 227.1 metres of BQ wireline diamond drilling conducted on the Key Claim Group between April 27, 1987 and May 4, 1987 by Globe Diamond Drilling of Vancouver, British Columbia.

Location and Access

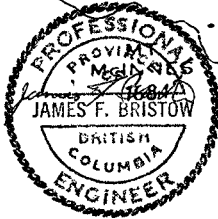
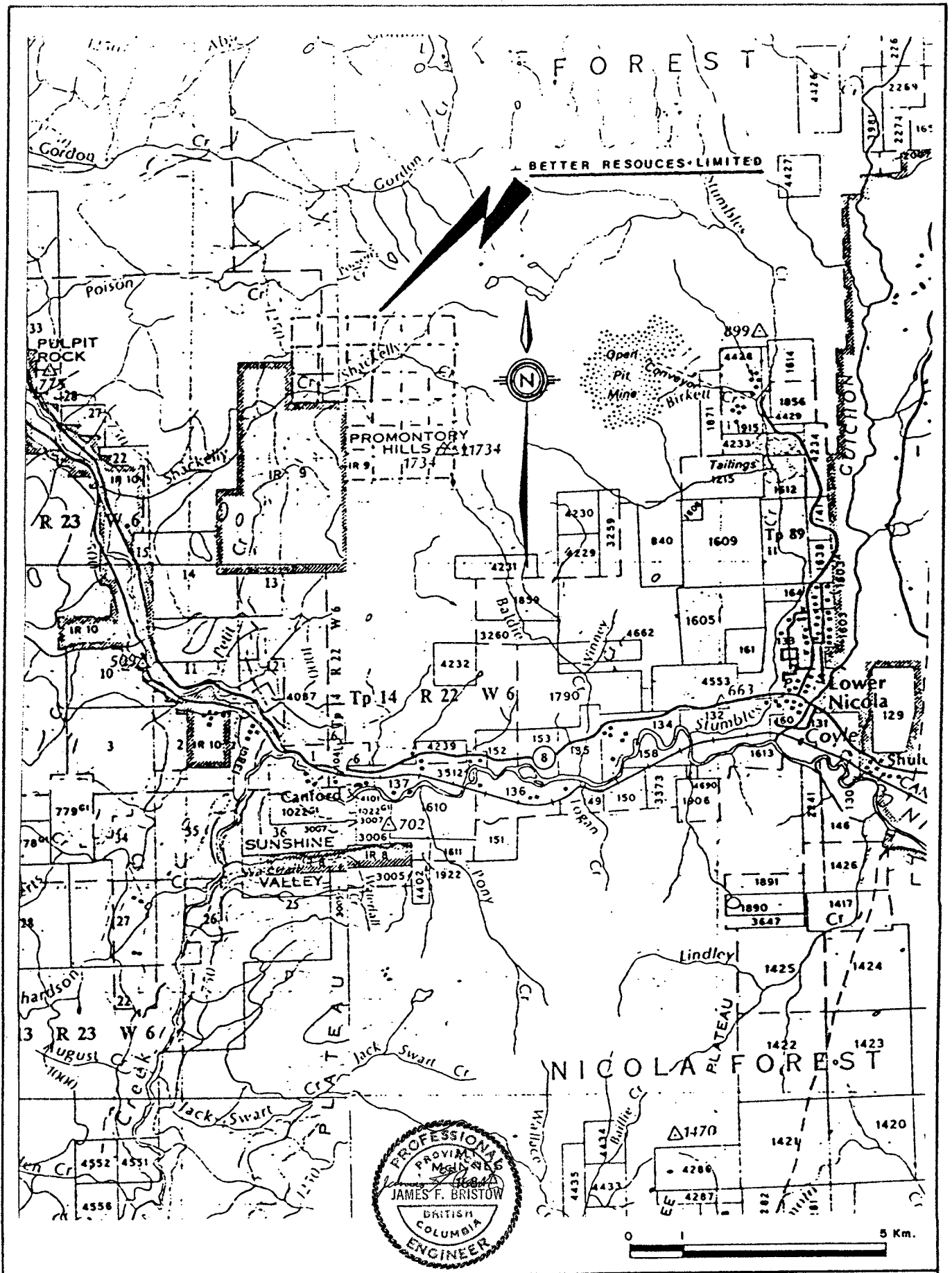
The Key Claim Group is located near the headwaters of Shackelly Creek and lies between the Forestry Lookout on Promontory Hills and Indian Reserve No. 9. The centre of the claim group is approximately 4 kilometres west of the Craigmont open pit.

Inter-connecting gravel logging roads provide access to the property from No. 8 Highway at Dot (8.5 km) and from Lower Nicola via Promontory Hills Road (18.5 km). On property access is provided by skid roads, cut lines and cattle trails.

## Topography and Climate

Elevations on the property range between 1025 metres and 1700 metres. Local topography is moderate, however, a 50 metre deep channel containing Shackelly Creek cuts southwest through the area. In general, south and west facing slopes are sparsely wooded with ponderosa pine while north facing slopes are heavily wooded with spruce, lodgepole pine and alder.

Climate is typical interior Plateau. Most precipitation occurs as snow during the cold winter months. Snow-free exploration work can usually be conducted from mid-April to mid-November.



DRAWN BY - J.F.B.

DATE - MAY, 1987.

BETTER RESOURCES LIMITED

LOCATION MAP - KEY CLAIM AREA

SCALE - 1:100,000

FIGURE - 3

## History

The area currently covered by the Gus, Number Four and Fox Claims was in part previously held by Torwest Resources (1962) Ltd. (Marb Claims). Early work consisted of geological mapping and widely spaced ground magnetics followed by limited drilling of the magnetic anomalies associated with the basaltic/andesitic volcanic rock units.

The area currently covered by the Betty Claim was originally staked in 1957 by Placer Development Ltd. following the discovery of Craigmont Mines. After extensive magnetometer and I.P. surveys five surface diamond drill holes were completed. Placer relinquished the claims in 1975. Detailed geological mapping and an additional magnetometer survey were completed in 1975 and 1976. The area was restaked as the Betty Claim in 1976 under the modified grid. In 1978 Craigmont Mines Limited optioned the Betty Claim and drilled two surface diamond drill holes totalling 992.7 meters. This option was terminated in May 1981.

In the fall of 1981 under the direction of Better Resources Limited a magnetometer survey and geological mapping program was conducted on the Gus Claim. This work resulted in the discovery of a skarn zone north of Shackelly Creek.

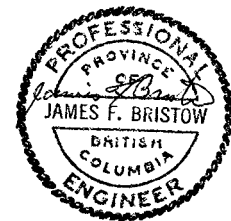
The current diamond drilling programme was conducted to further delineate the margins of this zone.

### Property Description

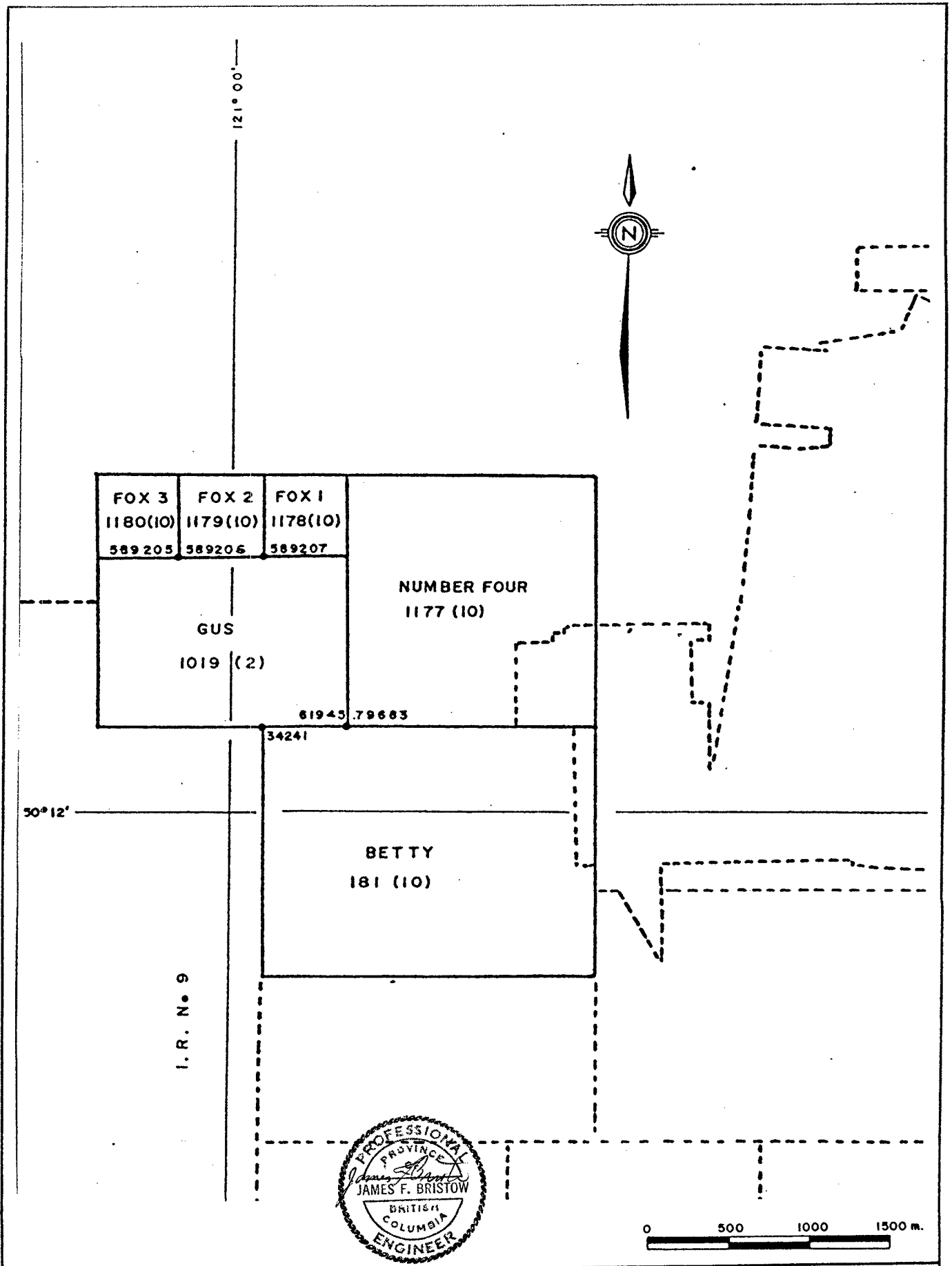
The Key Claim Group owned by Better Resources Limited of Vancouver, British Columbia is composed of the following contiguous two past and modified grid mineral claims as shown in Figure 3.

<u>Claim Name</u>	<u>Units</u>	<u>Record Date</u>	<u>Record No.</u>	<u>Valid to*</u>
Gus	6	27 Feb 1981	1019	27 Feb 1988
Number Four	9	9 Oct 1981	1177	9 Oct 1987
Fox #1	1	9 Oct 1981	1178	9 Oct 1991
Fox #2	1	9 Oct 1981	1179	9 Oct 1991
Fox #3	1	9 Oct 1981	1180	9 Oct 1991
Betty	12	5 Oct 1976	181	5 Oct 1988
Total	30 units			

- \* Expire dates were verified by checking valid "G" Forms at Government office Merritt, British Columbia May 1, 1987.







DRAWN BY - J.F.B.  
 DATE - MAY, 1987.

BETTER RESOURCES LIMITED  
 CLAIM MAP

SCALE - 1: 31,680  
 FIGURE - 4

## DISCUSSION

The Promontory Hill area is underlain by a complex suite of westerly trending, steeply dipping upper Triassic Nicola series rocks. The Nicola is composed of predominantly basaltic/andesitic fragmental and volcanic flows, feldspathic greywache, hornfels, rhyolitic volcanics and several relatively persistent calcareous bands.

The Nicola series lies to the south of and semi-concordant with parts of the multistage upper Triassic Guichon batholith. On Promontory Hill the Nicola series is intruded in both the southeast and southwest by quartz feldspar porphyry.

Cretaceous Kingsvale group agglomerate and flow rocks form a capping of as much as 200+ meters thick over Nicola rocks between Craigmont Mine plant site and Promontory Hill, and also west of the Betty Claim. Heavy overburden in much of the area make locating the boundaries of major rock units very difficult.

It is generally agreed that the orebodies at Craigmont are hosted by limy sedimentary rocks near a volcanic-sedimentary contact lying within the alteration aureole of the Guichon batholith.

Mapping of the Gus Claim suggests that the area is underlain by a complex assemblage of plutonic-volcanic/sedimentary rocks which are contained in a contact environment. Unfortunately, much of the claim is covered by extensive glacial overburden which makes interpretation of the limited geological data difficult. The only calcareous rocks mapped on the Gus Claim occur as a marble/skarn outcropping at approximately 3350 N, 2470 W.

This outcrop, although only approximately 425 m<sup>2</sup> in area is significant as it is both megascopically and microscopically similar to the skarn host rock at Craigmont. Much of the outcrop has a brecciated appearance. It contains haematite, epidote, garnet, actinolite, chlorite with minor magnetite chalcopyrite and malachite. A weak coincident magnetic anomaly suggests that the skarn zone trends to the southwest paralleling the indicated batholith contact.

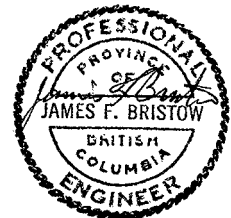
Diamond Drill holes G-87-1 and G-87-2 were drilled beneath the skarn outcrop. Diamond Drill hole G-87-3 was collared approximately 65 metres west of Diamond Drill hole G-87-2. This step out hole confirmed the westerly extension of this zone. (See accompanying Plan & Section.)

DRILL HOLE SUMMARY

Drill Hole #	Azimuth	Inclination	Depth		Coordinates*	Date	
			ft.	m		Start	Finish
G-87-1	0°	-45° N	137	41.76		Apr 28/87	Apr 29/87
G-87-2	0°	-70° N	257	78.33		Apr 29/87	May 2/87
G-87-3	03°	-45° N	351	107.0		May 2/87	May 3/87

\* See Drill Hole Plan for approximate coordinates.

*Drill core is stored at Les Curnow's Farm in Merritt, B.C.*



COST STATEMENT

KEY CLAIM GROUP

Diamond Drill Holes G-87-1, G-87-2 & G-87-3  
Supervision, core logging & core storage

James F. Bristow, P.Eng.

April 27 to 30, May 1, 2, 3(1/2), 4, 5(1/2) & 6(1/2)  
8-1/2 days @ \$250.00/day

\$ 2,125.00

Diamond Drilling

Globe Drilling as per invoice

15,645.00

Transportation

Truck rental 4x4

8-1/2 days @ \$25.00/day

\$212.50

Gas & Toll

111.80

324.30

Accommodation (Nicola Inn)

310.18

Food

160.81

470.99

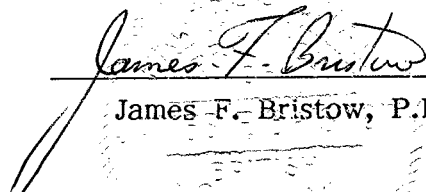
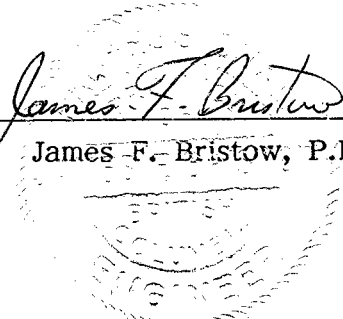
Report Preparation (including drafting & typing)

550.00

TOTAL

\$19,115.29

CERTIFIED CORRECT

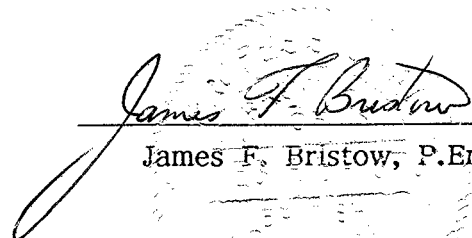
  
\_\_\_\_\_  
James F. Bristow, P.Eng.  



QUALIFICATIONS AND CERTIFICATIONS

I, James Bristow, of 3431 Bowen Drive, in the municipality of Richmond, Province of British Columbia, hereby certify as follows:

1. I am a graduate of the University of British Columbia with a B.A. Degree (Geology and Physics).
2. I am a member of the Canadian Institute of Mining and Metallurgy, the Geological Society of South Africa and the Association of Exploration Geochemists.
3. I am a Professional Engineer registered in the Province of British Columbia.
4. I have actively practiced my profession in mineral exploration and mining since my graduation in 1957.
5. That this report is based on data either gathered by myself or by persons working under my direct supervision.
6. That I am a Director of Better Resources Limited and hold a direct interest in the securities of this company.

Dated at Richmond, British Columbia this 19<sup>th</sup> day of May, 1987.

  
James F. Bristow, P.Eng.



APPENDIX I

INVOICES

INVOICE

SOLD TO BETTER RESOURCES LTD.

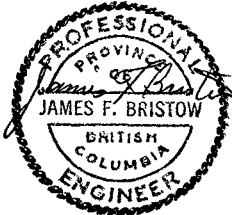
SHIPPED TO \_\_\_\_\_

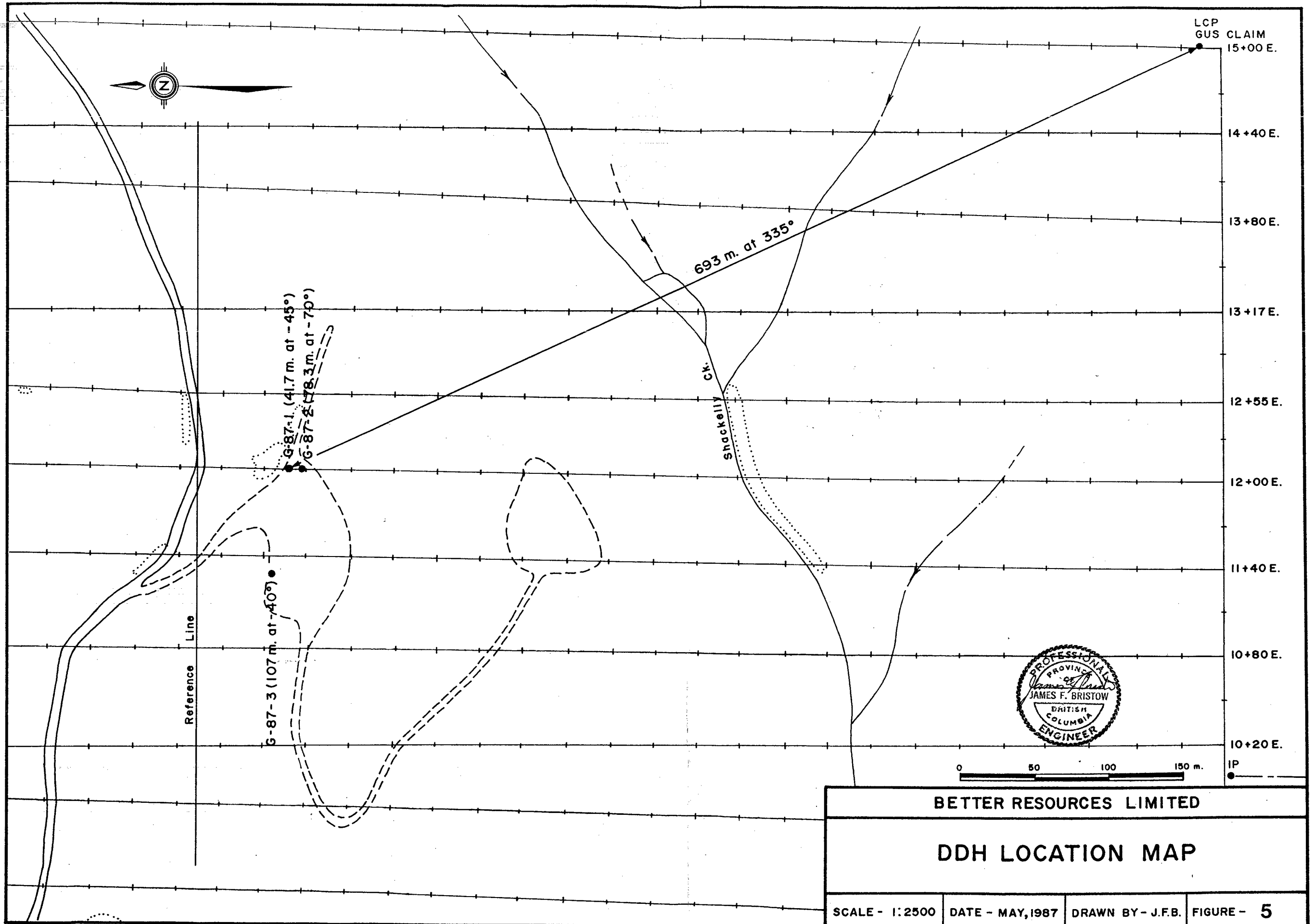
ADDRESS \_\_\_\_\_ VIA \_\_\_\_\_

OUCH NUMBER	076664
DATE	MAY 5 1987
CUSTOMER'S ORDER	# 137
SALESMAN	
TERMS	
F.O.B.	

	705 FEET 'A.Q.' @ 21.00/foot		\$ 14 805.00
	40 FEET 'B.W.' @ 21.00/foot		\$ 840.00
			<del>15 645.00</del>
	<i>Mike Rennie</i>		
	GLOBE Drilling (1981) LTD.		

6 D32





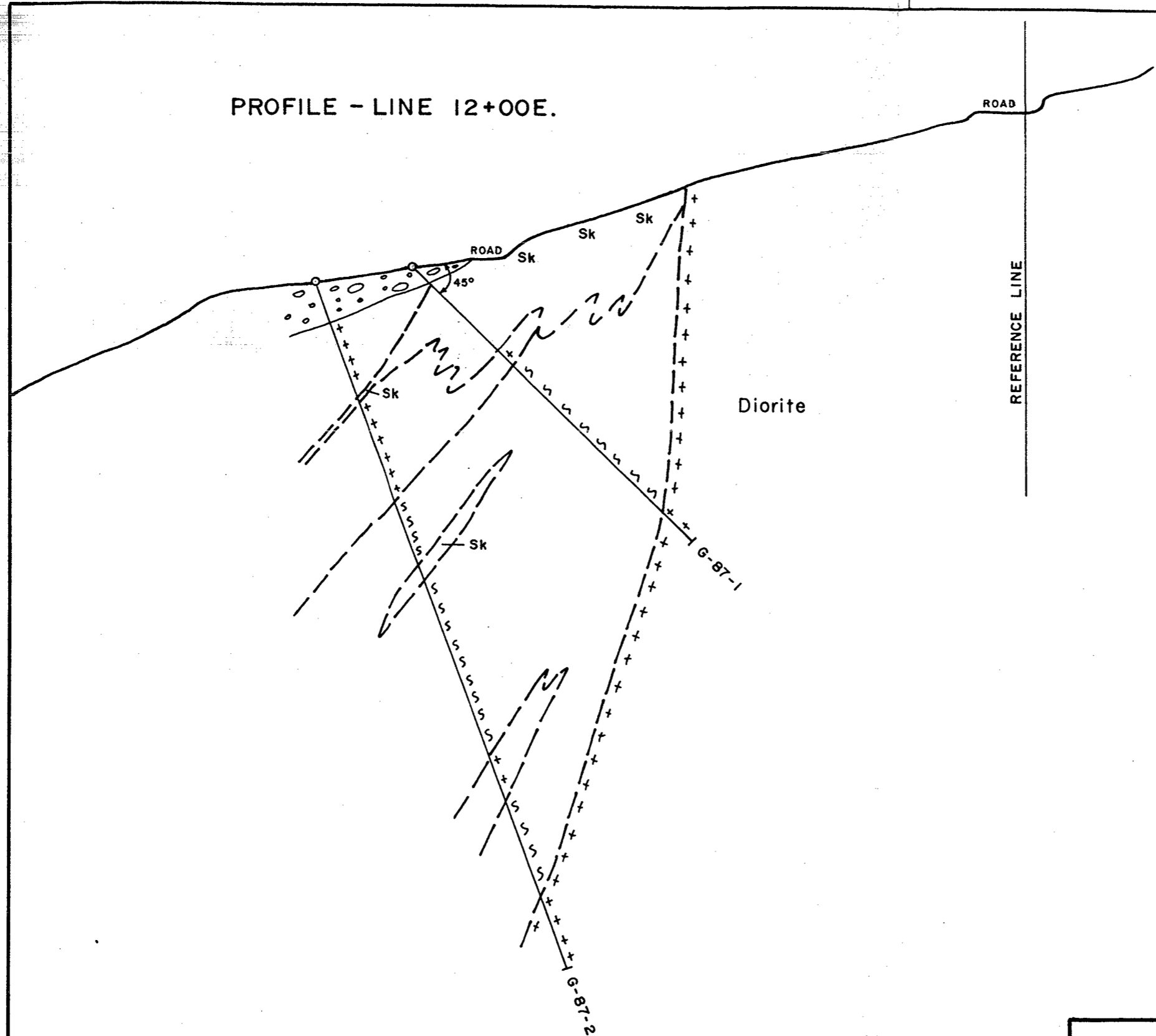
BETTER RESOURCES LIMITED

DDH LOCATION MAP

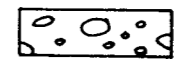
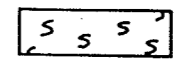
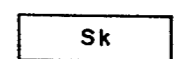
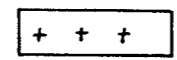
SCALE - 1:2500 | DATE - MAY, 1987 | DRAWN BY - J.F.B. | FIGURE - 5



PROFILE - LINE 12+00E.



LEGEND

-  Overburden.
-  Hornfels.
-  Skarn.
-  Dioritic Rock.



BETTER RESOURCES LIMITED			
SIMPLIFIED SECTION LOOKING WEST			
SCALE - 1:500	DATE - MAY, 1987	DRAWN BY - J.F.B.	FIGURE - 6

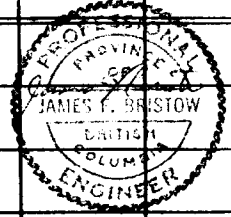
# DIAMOND DRILL CORE LOG — SAMPLE RECORD

DEPTH	DIP	BEARING AST.
COLLAR	-45°N	0° PRIMUM

PROPERTY KEY CLAIM GROUP CLAIM Gus  
 LATITUDE ..... STARTED 17 April 28 1987  
 DEPARTURE ..... FINISHED 17 April 29 1987  
 ELEVATION ..... TOTAL LENGTH 137 ft (41.76 M)

LOGGED BY J.F.B.  
 CORE SIZE B9  
 SECTION .....  
 HOLE NO. G-87-1

Footage ft (M)	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Mo %	Gold Oz.	Silver Oz.
(2.74) 9	Overburden									
(12.80) 42	Limestone - highly altered - silicified over short sections - Skarn									
	9'-16' Garnet Skarn, 5% epidote, 14'-15' banding 40° to C.A.; 15% patchy bladed mag/haematite	25 1/2 - 26 massive								
	16'-17' Siliceous sediment (?) 17'-28' mainly fine grained partially recrystallized grey limestone	mag/haematite								
	23'-25' - 15% fish egg brown garnet									
	28'-30', 10% chlorite, 20% epidote 15% garnet									
	30'-32 1/2' Vaguely banded cream white ls 5% chlorite, 10% garnet									
	32 1/2' - 37'; 25% epidote, 15% chlorite 5% mag/haematite - occasional section									



# DIAMOND DRILL CORE LOG -- SAMPLE RECORD

PROPERTY Key CLAIM GROUP

HOLE No. G-87-1 Page No. 2 of 3

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Mo %	Gold Oz.	Silver Oz.
	with intrusive texture									
	37'-42' Gray-green fine grained ls									
42 (12.80)	5% garnet, 10% epidote, 15% chlorite									
(14.63) 48	Diorite - medium grained - well fractured and healed c̄ chlorite - 5%									
	Vaguely outlined K-feldspar, 15% chlorite									
48 (14.63)	Meta "Sediment" - hornfelsed - short brownish cast due to biotite development, cut by numerous pinkish green medium grained diorite stringers, some bleaching adjacent to intrusive, 62'-71', 92½'-93½'; 106'-107'.									
	Pink Zeolite on fractures plus K-feldspar 110½'-112'	occasional green chalc in								
	118'-122' badly fractured	Intensive								
	maximum core length - 2'									
122 (37.14)	Diorite - Mainly medium to coarse									
(41.76) 137										

## DIAMOND DRILL CORE LOG -- SAMPLE RECORD

 PROPERTY KEY CLAIM GROUP

 HOLE No. G-87-1 Page No. 3 / 3

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Mo %	Gold Oz.	Silver Oz.
	<i>gauged highly altered contains numerous vaguely outlined Meta Sediment / Volcanic fragments up to 1' in dia (5 to 10% of core 122' - 124' fractured filling up to 1/3" c Zedite Overall core recovery +98% Diamond Drill Hole ends @ 137ft (41.76 m)</i>									

# DIAMOND DRILL CORE LOG - SAMPLE RECORD

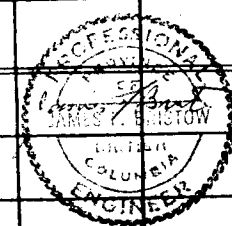
104

DEPTH	DIP	BEARING AST.
COLLAR	-70°N	0° Azimuth

PROPERTY KEY CLAIM GROUP CLAIM JFB  
 LATITUDE ..... STARTED April 29 1987  
 DEPARTURE ..... FINISHED May 2 1987  
 ELEVATION ..... TOTAL LENGTH 257 ft (78.33 meters)

LOGGED BY JFB  
 CORE SIZE B9  
 SECTION .....  
 HOLE NO. G-87-2

(ft)	Footage (M)	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Mo %	Gold Oz.	Silver Oz.
0	0	Overburden									
(5.03)	16.5	Diacritic Intrusive - highly altered medium grained - contains numerous clots digested material - contact zone overall 5 to 10% epidote, 10-15% chlorite 1 to 2% garnet 21' to 22' calcite/zeolite filled shear zones may/kammatite 21 1/2 to 42' abundant small zeolite filled fractures. 44'-46' 20% Garnet, 15% epidote 7-10% May/kammatite 52 1/2 - 61' patchy K-feldspar 57-63 1/2' epidote Skarn 15 to 20% epidote 58 1/2 - 59' 61-62 1/2' 10 to 15% garnet c bladed May/kammatite.									
16.5	(5.03)										
(25.30)	83										



# DIAMOND DRILL CORE LOG — SAMPLE RECORD

PROPERTY KEY CLAIM GROUP

HOLE No. G-87-2 Page No. 2 of 4

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Mo %	Gold Oz.	Silver Oz.
	62.5-83 fine to Medium grained altered diorite - xenolith fragments angular fine grained with vague boundaries.									
83 (25.30) (32.17) 105.5	Hornfels - mainly fine grained short sections have dioritic intrusive appearance brownish cast due to biotite alteration - badly fractured maximum core length 3" Some pink Zeolite in fractures up to 1/4"									
105.5 (32.17) (33.22) 109	Original rock "limy", crushed highly altered. 10% calcite, 5% epidote. 107-108.5 patchy calcite 108.5-109. silicified & K-feldspar flooding.									
109 (33.22) (51.25) 178	Hornfels - fine to aphanitic - siliceous rock.									

# DIAMOND DRILL CORE LOG -- SAMPLE RECORD

PROPERTY KEY CLAIM GROUP

HOLE No. G-87-2 Page No. 3 of 4

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Mo %	Gold Oz.	Silver Oz.
	111.5' - 112.5' Crushed & healed									
	112.5' - 118' partially crushed.									
	over much of the interval brownish cast - biotite alteration - minor epidote & zeolite along fractures.									
	123.5' - 124' & 146' patchy almost red K-feldspar associated w/ varieties of epidote									
	153' - 154.5' crushed & healed.									
178 (58.25) (58.22) 191	Much of this section has good ductile texture. eg 178-179, 186-188									
	patchy epidote alteration siliceous									
	190' - 191' Xenoliths(?) fine grained mafic clots of Biotite(?)									
191 (58.22) (62.19) 227	Hornfels - fine grained siliceous brownish cast over much of a grey meta sediment(?) vaguely outlined feldspar grains - occasionally vague banding @ 50° to C.A.									





# DIAMOND DRILL CORE LOG - SAMPLE RECORD

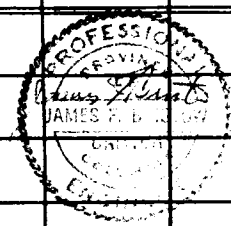
1 of 5

DEPTH	DIP	BEARING AST.
COLLAR	-45°N	03° Azimuth

PROPERTY KEY CLAIM GROUP CLAIM GUS  
 LATITUDE ..... STARTED May 2 1987  
 DEPARTURE ..... FINISHED May 3 1987  
 ELEVATION ..... TOTAL LENGTH 351 ft (107 meters)

LOGGED BY JFB  
 CORE SIZE B9  
 SECTION .....  
 HOLE NO. G-87-3

ft	Footage (M)	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Mo %	Gold Oz.	Silver Oz.
0	(0)	Overburden									
(4.88)	16	Hornfels - Meta sediment fine to medium grained - Brownish cast due to Biotite development - badly broken core, Maximum core length 4" - 95% core Recovery 33.5' - 0.5' aplite dyke 50° to CA.									
16	(4.88)										
(12.65)	41.5										
41.5	(12.65)	Diorite - Biotite / quartz medium grained - 30% mafic									
(15.39)	50.5	Mainly Hornfels - Greywacke fine to medium grained - silicified over short sections. Well developed Brown Biotite over sections up to 1.5'									
50.5	(15.39)										
(16.76)	55.0										
55.0	(16.76)	Diorite same as 41.5 to 50.5'									
(17.37)	57	Lower contact 35° to CA.									
57	(17.37)	Hornfels - Meta sediment (Greywacke)									
(33.53)	110										



## DIAMOND DRILL CORE LOG -- SAMPLE RECORD

PROPERTY KEY CLAIM GROUP

HOLE No. G-87-3 Page No. 2/5

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Mo %	Gold Oz.	Silver Oz.
	fine to medium Grained.									
	numerous vaguely outlined feldspar grains									
	Brown Biotitic alteration throughout well silicified over short sections.									
	99% Core Recovery									
	99.5 to 103 diorite dyke.									
110 (33.53) (45.87) 150.5	Granite - K-feldspar-altered medium grained Diorite.									
	Badly crushed 110 to 111.5', 131 to 133 & 136 to 137.5									
	112 to 138 - 40% K feldspar									
	Tapering off to 10% @ 150.5'									
	badly broken core throughout									
	maximum core length 0.5'									
150.5 (45.87) (52.73) 173	Horfels - Meta sediment									
	Very fine to medium grained									
	well developed biotite alteration									
	164 - 0.1' Venet of calcite/zeolite f									



# DIAMOND DRILL CORE LOG -- SAMPLE RECORD

PROPERTY KEY CLIFF GROUP

HOLE No. G-87-3 Page No. 4 of 5

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Mo %	Gold Oz.	Silver Oz.
237 (72.34)	maximum core length 0.2'									
(73.76) 242	Shear Zone - Crushed muddy hematitic mud very low angle to core 5° to 10° to C.P.									
242 (73.76)	Hornfels - Crushed contorted & healed 248-252'									
(76.81) 252	becomes mottled and dioritic looking by end of Section - 5% epidote									
252 (76.81)	Mottled Dioritic looking rock. Blotchy mafic development - mainly Biotite									
(81.90) 268.7	Fractured - fractures filled with calcite and lined with pink Zedite									
268.7 (81.90)	Mainly highly altered Limestone									
(84.89) 278.5	268.7 - 275.5 15 to 20% garnet									
278.5 (84.89)	275.5 - 278.5 20% epidote									
(107) 351	Mainly fine to medium grained mottled Dioritic Rock.									

## DIAMOND DRILL CORE LOG -- SAMPLE RECORD

PROPERTY KEY CLAIM GROUP

HOLE No. G-87-3 Page No. 5 of 5

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Mo %	Gold Oz.	Silver Oz.		
	fine grained sections up to											
	40% Mg <sub>2</sub> Si											
	310 to 324' sediment (?) Hornfels											
	- siliceous Graywacke 1% epidote											
	Partly crushed											
	334-336' fine grained hornfels											
	- brownish cast - bleached sections											
	Good Core Recovery + 98%											
	Diamond Drill Hole Ends											
	(u)											
	351 ft 107 metres											