

10/84

DIAMOND DRILLING REPORT

on the

MAC, MAC2, MAC 7, MAC 8, MAC 9, MAC 9Fr, MAC 12Fr,
KAY 10 and ALPHA 2 Claims

CARIBOO MINING DIVISION, BRITISH COLUMBIA

NTS 93A/7E

52°20' North Latitude, 120°37' West Longitude

55 Km due east of Horsefly, B.C.

OWNER OF MAC, MAC 2 and KAY 10 Claims

Eureka Resources Inc.
837 East Cordova Street
Vancouver, British Columbia
V6A 3R2

OWNER OF MAC 7, MAC 8, MAC 9, MAC 9Fr, MAC 12Fr and ALPHA 2

Amoco Canada Petroleum Company Ltd.
Suite 300, 89 Queensway West
Mississauga, Ontario
L5B 2V2

OPERATOR

Amoco Canada Petroleum Company Ltd.
Suite 300, 89 Queensway West
Mississauga, Ontario
L5B 2V2

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

Paul Brown

Report prepared by
Paul Brown
October 5, 1984

12,880

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INTRODUCTION

The MAC 1 - 9, MAC 9Fr - MAC 12Fr, KAY 1 - 12 and ALPHA 2 claims consisting of 163 contiguous units are located in the MacKay River Valley of the Cariboo Mining Division, B.C. For assessment purposes the property has been divided into the EUREKA NORTH and EUREKA SOUTH Claim Groups. This report deals with the EUREKA NORTH Group only.

The property was optioned by Amoco Canada Petroleum Company Ltd. from Eureka Resources Inc. in July 1983. During the summer and fall of 1983 Amoco conducted a detailed evaluation of the property and continued their evaluation during the 1984 field season. The Author spent the period of June 1st to October 10th, 1984 supervising an evaluation of the property.

The area is primarily underlain by a sequence of volcanic and sedimentary rocks of upper Triassic to Lower Jurassic age which were deposited in an island arc-type environment. The claim group is situated along the north limb of a major northwest-trending, overturned syncline. The most widespread unit on the property is a thick sequence of upper Triassic, dark gray to black lusterous phyllite containing up to 30% quartz veins.

The MacKay Valley first received attention in the early

1900's when placer gold was found in Frasergold Creek; however, it proved uneconomic. Apparently very little exploration work was performed after this early work until 1978. Between 1978 - 1981, anomalous gold values in soil and rock chip samples were encountered between Frasergold Creek and Eureka Brook.

Amoco Canada Petroleum Company Ltd. optioned the property in July 1983. Amoco evaluated the property during the 1983 and 1984 field seasons. This report deals with diamond drilling performed on the EUREKA NORTH Group during the 1984 field season.

Two diamond drill holes FBC 84-8 and FBC 84-9 were drilled on the KAY 10 claim during the period of September 9th to September 18th, 1984. A total of 785.4 metres of drilling recovering NQ core were performed.

LOCATION AND ACCESS

The Frasergold property is located in the MacKay River valley on the western flank of the Cariboo Mountains, approximately 55 km. due east of Horsefly, B.C. The Eureka North Claim Group (Northwest portion of the Frasergold property) is located on Claim Map 93A/7E. The Group is centered at $52^{\circ}20'$ North Latitude and $120^{\circ}37'$ West Longitude.

Access to the claim group is by a well maintained, all-weather logging road up the MacKay Valley from the main Horsefly River Road. Amoco constructed additional roads on the property (see Location Map, back folder) to facilitate access for diamond drilling.

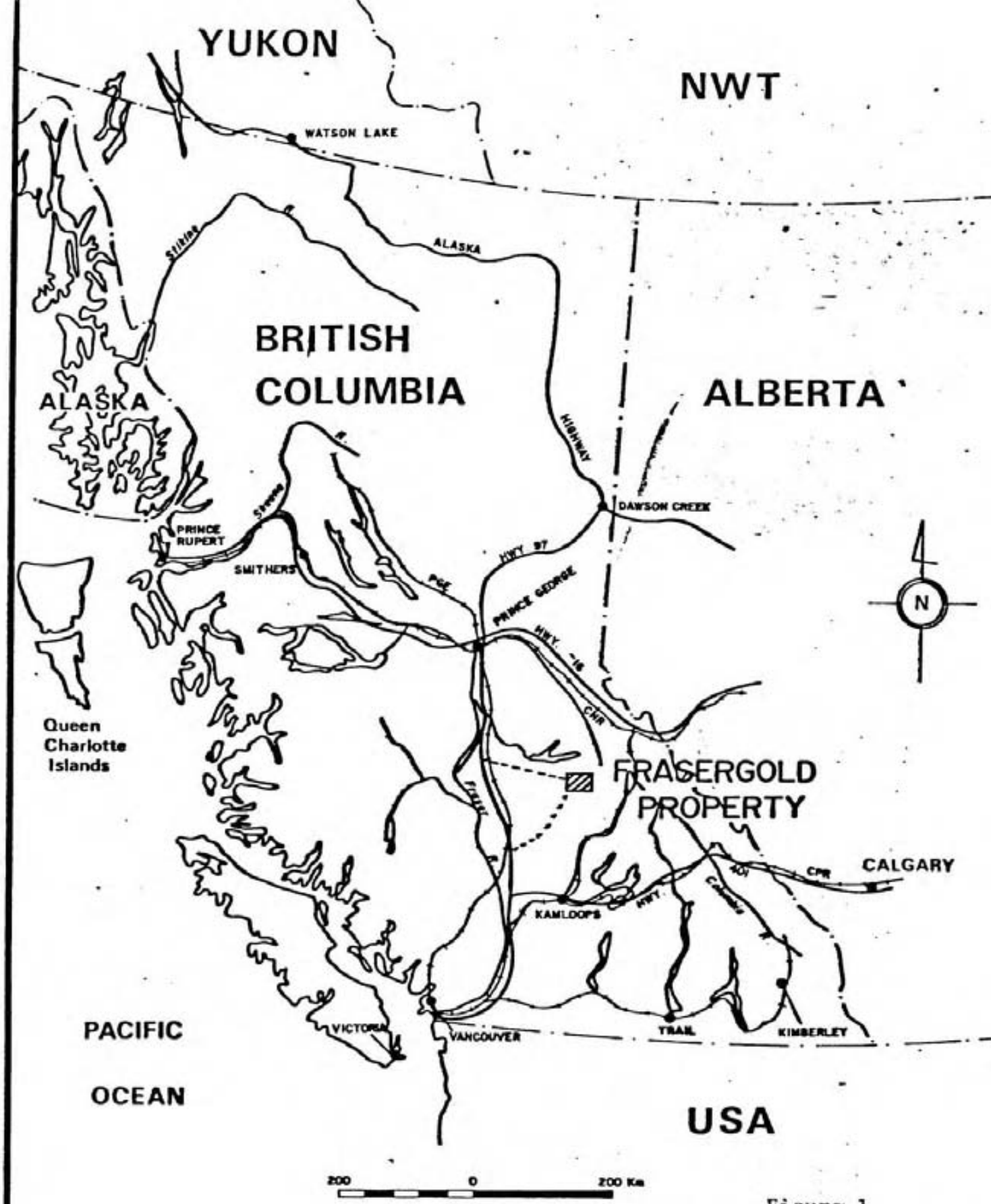


Figure 1

AMOCO CANADA PETROLEUM CO. LTD.			
MINING DIVISION			
FRASERGOLD PROJECT			
LOCATION MAP			
Drawn By:	W. MOBLE	Scale:	1:7,500 E.D.
Date:	APR. 84	Project No.:	

HISTORY

The earliest record of work in the area was in 1901 when gold was discovered in Frasersgold Creek and Eureka Brook. A small-scale placer operation was established in 1902; however it was unprofitable and was discontinued later that year. Subsequently, no further work has been reported to have been done in the property area until work was completed by prospector Cliff Gunn in 1978 and 1979. Gunn optioned the property in the fall of 1979 to Keron Holdings Ltd. Keron Holdings performed extensive soil sampling and limited rock chip sampling and geological mapping on the property in 1980 and 1981. A strong gold anomaly 100 - 400 metres X 3,000 metres was outlined.

Amoco optioned the property from Eureka Resources Inc. (registered owners of the property) in July 1983 and performed soil sampling, road construction and diamond drilling on the property in the summer and fall of that year. In July 1984 Amoco contracted McElhanney Associates of Vancouver, B.C. to survey the LCP for all claims comprising the property. Their results showed Four Fractions on the property. These fractions were staked as the MAC 9Fr, MAC 10Fr, MAC 11Fr and MAC 12Fr by Amoco during the summer of 1984. As a result of these fractions, claims MAC 5, 7, 8, and 9 owned by Eureka had actually lapsed and were restaked by Amoco in August of 1984.

During the later part of August to mid-October Amoco performed diamond drilling on the Frasergold Property.

PHYSIOGRAPHY AND VEGETATION

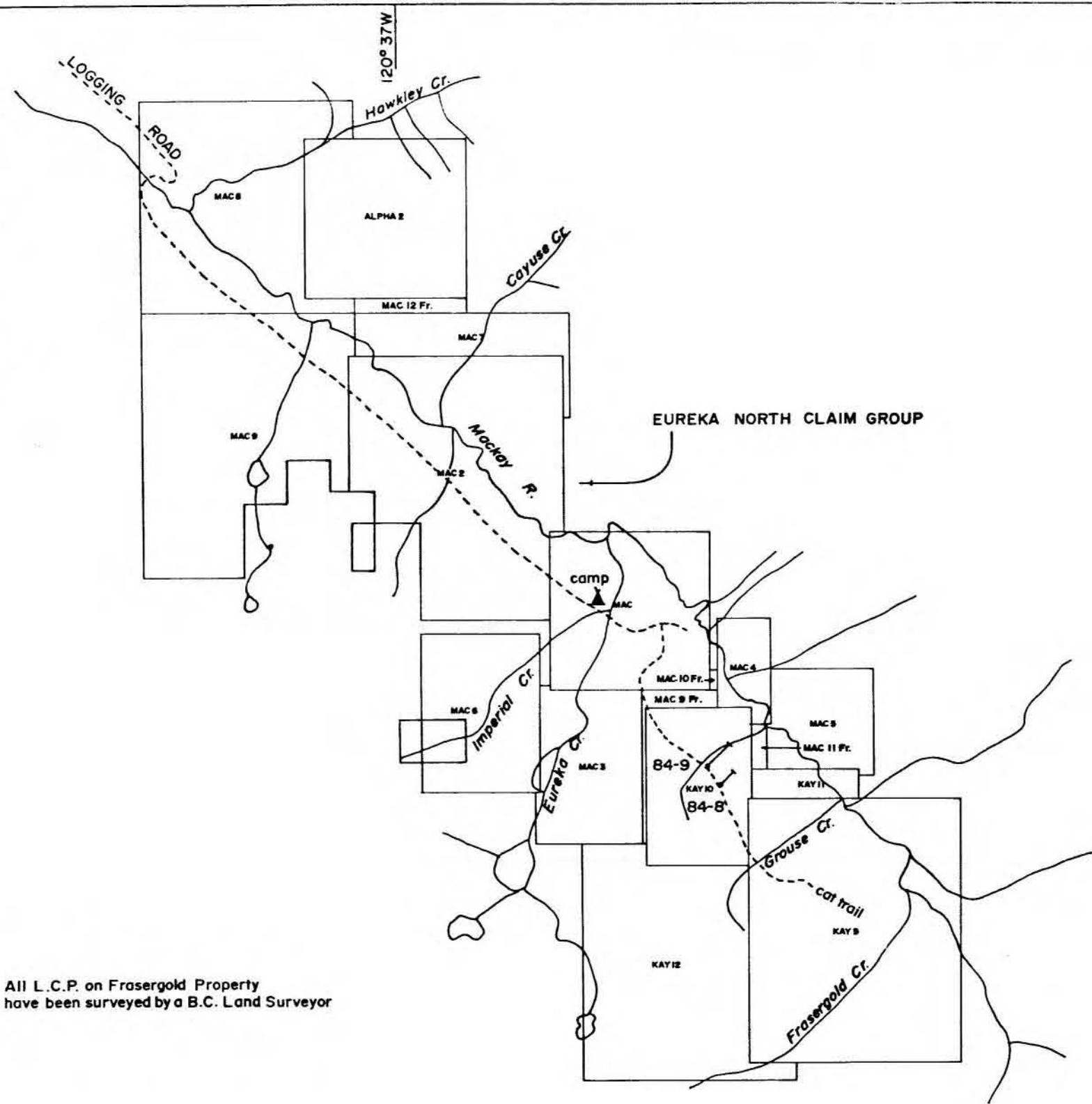
The Frasergold property is located on the west flank of the Cariboo Mountains. The Claim Group lies along the MacKay River Valley, principally on its south west side. Relief is moderate to steep with occasional precipitous bluffs at higher elevations. Topographical relief is approximately 800 metres.

Vegetation along the lower reaches of the MacKay River Valley consist primarily of good commercial stands of spruce and balsam with thick underbrush. Forest cover is lighter above 1,600 metres ASL and alpine style vegetation prevails above 1,800 metres. The majority of the western two-thirds of the property has been logged, with logging activity still being conducted in the area.

CLAIMSTABLE I

EUREKA NORTH CLAIM GROUP

Claim Name	Units	Tag No.	Date Staked	Anniversary Date	Record No.
MAC	9	23411	Sept. 21/79	Oct. 19	1286
MAC 2	20	22726	Sept. 24/80	Oct. 22	2078
MAC 7	8	80450	July 9/84	July 27	6249
MAC 8	16	80448	July 4/84	July 27	6250
MAC 9	20	80449	July 7/84	July 27	6251
MAC 9Fr	1	04447	June 15/84	July 16	6204
MAC 12Fr	1	04449	July 14/84	July 27	6253
KAY 10	6	61638	Sept. 25/80	Sept. 25	1961
ALPHA 2	9	80121	Sept. 22/83	Sept. 23	5159



NOTE: All L.C.P. on Frasergold Property have been surveyed by a B.C. Land Surveyor

FIGURE 2
REDUCED FROM 1:20,000

NTS. 93A / 7E

AMOCO CANADA PETROLEUM CO. LTD.			
MINING DIVISION			
FRASERGOLD PROJECT			
CLAIM MAP			
Drawn By	DATE	Scale	1:20,000
	AUG/84	Project NO	83C-004

TABLE II

EUREKA SOUTH CLAIM GROUP

Claim Name	Units	Tag No.	Date Staked	Anniversary Date	Record No.
KAY 1	1	390472	Aug. 11/79	Sept. 4	1182
KAY 2	1	390473	Aug. 11/79	Sept. 4	1183
KAY 3	1	390474	Aug. 11/79	Sept. 4	1184
KAY 4	1	390475	Aug. 11/79	Sept. 4	1185
KAY 5	1	390476	Aug. 11/79	Sept. 4	1186
KAY 6	1	390477	Aug. 11/79	Sept. 4	1187
KAY 7	1	390478	Aug. 11/79	Sept. 4	1188
KAY 8	1	390479	Aug. 11/79	Sept. 4	1189
KAY 9	20	61637	July 12/80	Aug. 11	1810
KAY 11	2	61639	Sept. 21/80	Sept. 25	1962
KAY 12	20	78773	Jan. 12/83	Feb. 3	4631
MAC 3	6	68002	Dec. 17/80	Dec. 23	3074
MAC 4	2	68003	Dec. 18/80	Dec. 23	3075
MAC 5	4	80451	July 19/84	July 27	6248
MAC 6	9	68005	Dec. 18/80	Dec. 23	3077
MAC 10Fr	1	80120	June 21/84	July 19	6231
MAC 11Fr	1	04448	July 13/84	July 27	6252

GEOLOGY

The Frasergold property is situated along the eastern edge of the Quesnellia Tectonostratigraphic Terrane in the Quesnel Lake map area. The boundary between the Quesnellia Terrane and the western edge of the North American Craton is marked by a thin slice of Slide Mountain Terrane. The Quesnellia Terrane is an island arc assemblage which has been developed on Oceanic Slide Mountain Terrane. Because of sea-floor spreading processes, Quesnellia has been swept eastwards and has collided with the western margin of the North American Craton. This collision has resulted in the obduction of the Slide Mountain Terrane and the eastern portion of the Quesnellia Terrane onto the Omineca Crystalline Belt.

The Quesnellia Terrane is primarily composed of a sequence of volcanic and sedimentary rocks of Upper Triassic to Lower Jurassic age. Within the general area of the Frasergold property these volcanics grade easterly into black fine-grained phyllite with lesser siliceous sediments. These rocks overlie upper paleozoic volcanic rocks of the Slide Mountain Terrane.

The Frasergold claims are situated along the north limb of a major northwest trending, overturned syncline (R.B. Camp-

bell, 1978). The axis of this syncline trends along the southern boundary of the claim group and parallel to the MacKay River Valley.

The most widespread unit on the property is a thick section of Upper Triassic, dark gray to black, lustrous phyllite. The phyllite displays a penetrative crenulation foliation which trends 130° and dips at 60° to the south west. Compositional layering (bedding) trends 130° - 140° and dips up to 45° to the south west. Small scale parasitic folds are noted axial planar to the foliation. The phyllite contains up to 30% translucent to milky white quartz veins which are concentrated in these parasitic folds. The veins have been boudinaged into lenses and pods. One to ten percent Py and Po with one to fifteen percent ankerite are associated with the quartz, often in the selvages of the veins. Fine-grained disseminated graphite is associated with this phyllite and appears to have been recrystallized adjacent to many of the quartz veins, producing a graphite rich phyllitic selvage. Less than one to five percent disseminated and stringer Po, and Py are found in the phyllite.

Geological information obtained from diamond drilling has shown that the black phyllite contains 1% to 20% siliceous sediment. This siliceous sediment appears to be finely laminated and occurs in layers varying in thickness

from 1 cm. to 500 cm. The siliceous sediment appears to have the composition of a quartz-rich siltstone.

Within the area drilled, several zones of quartz veins have been identified. One prominent zone can be traced along strike in drill holes for 1,000 metres. Veins in this zone contain up to 5 - 10% Po, Py and up to 15% ankerite. In addition, trace amounts of sphalerite, chalcopyrite and (stibnite?) have been noted in a few of the veins. Coarse-grained gold is also a constituent in some of the veins. Visible gold confirmed by fire assay was identified in both DDH FBC 84-8 and FBC 84-9.

DIAMOND DRILLING

During the period of September 9th to September 18th, Amoco contracted J.T. Thomas Diamond Drilling (1980) Ltd. of Smithers, B.C. to perform 785.4 metres of diamond drilling in 2 holes recovering NQ (1-7/8") core on the KAY 10 mineral claim. A Longyear Super 38 drill rig was utilized. A Location Map (back pocket) at a scale of 1:10,000 shows each diamond drill hole collar location, azimuth, dip, elevation, horizontal projection and their relationship to the KAY 10 claim boundaries.

TABLE III

DDH Designation	Dates Drilled	Collar Co-ordinates	Azimuth	Inclination	Elevation	Depth
FBC 84-8	Sept 9-12	L56+60E 2+85S	045°	-50°	1563m	300.8m
FBC 84-9	Sept 12-18	L54+14E 2+50S	045°	-50°	1560m	484.6m

All the core was diamond sawed lengthways and fire assayed for gold in 1.5 metre intervals. Where visible gold was noted, whole core was sent for analysis. The remainder of the core is stored in core trays on the property. The core storage location is indicated on the Location Map in the back pocket, at a scale of 1:10,000.

Discussion of Results

Both diamond drill holes intersected gold mineralization that may have economic potential. Visible gold was also noted in both holes.

The lithology in DDH FBC 84-8 and FBC 84-9 was consistent with the lithology outlined by the 1983 drilling. As in the 1983 drilling, the lithology is dominated by fine-grained black graphitic knotted phyllite. The phyllite is well foliated at 70° - 90° to C.A., while bedding is usually 15° shallower than foliation. It appears that the distinctive lenticular, 1 - 8 mm. knots were formed during deformation of the phyllite. The material forming the knots was more competent and formed tiny boudins. The only other major unit encountered was black phyllite interlayered with thin (usually less than 1 cm.) layers of light gray siliceous sediment. This mixed unit has been termed black banded phyllite in drill logs. Lesser amounts of black carbonaceous phyllite, siliceous siltstone and calcareous phyllite were also intersected. These sediments contain 0.1% to locally 5 - 7% Po/Py as disseminations and bands parallel to foliation. Associated with the sediment is 1% to 30% quartz in boudinaged veins. These veins contained up to 10 - 20% Po/Py, up to 15% ankerite and trace to 5%

sericite. Trace amounts of chalcopyrite, sphalerite, galena, (stibnite?) calcite (locally up to 30% in quartz veins) and dolomite were noted in some of the quartz veins. The quartz vein zones appear to be subparallel to compositional layering.

Visible gold was noted in both FBC 84-8 and FBC 84-9. The gold is in quartz veining. The section of stratigraphy containing visible gold in FBC 84-8 and FBC 84-9 coincides with the stratigraphic horizon with visible gold in FBC 83-1 and FBC 83-2. No economic gold mineralization has been encountered over width in excess of 3.0 metres. There appears to be a zone approximately 30 metres wide and can be traced for 1,000 metres along strike where scattered anomalous (greater 0.05 oz./ton) gold values can be encountered. Whether an economic gold deposit exists within this zone has yet to be determined.

For detailed rock descriptions and complete assay results, see diamond drill logs for FBC 84-8 and FBC 84-9 in Appendix IV.

EVALUATION OF WORK

Work Conducted Diamond Drilling
 Claim KAY 10
 Dates Work Conducted September 9 - 12, 1984

COST PER HOLE: FBC 84-8 (NQ Core 1-7/8")

(1) Drilling Cost

<u>Date</u>	<u>Depth</u>	<u>Length</u>	<u>Cost/ Metre</u>	<u>Cost</u>
Sept. 9	0 - 6.1 m.	6.1 m.	\$52.46	\$ 320.00
Sept. 9 - 12	6.1 - 152.4 m.	146.3 m.	\$51.84	\$7,584.00
Sept. 9 - 12	152.4 - 300.8 m.	148.4 m.	\$55.12	<u>\$8,181.00</u>
TOTAL:				\$16,085.00

(2) Man Hours and CAT Hours Cost

<u>Date</u>	<u>Shift</u>	<u>Man Hours</u>	<u>CAT Hours</u>	<u>Remarks</u>
Sept. 9	night	6	4	move & set-up
Total Man Hours:		6 hours @ \$23.00/hour		\$ 138.00
Total CAT Hours		4 hours @ \$55.00/hour		<u>\$ 220.00</u>
TOTAL:				\$ 358.00

(3) Materials used, damaged, acid test, etc.

5 Acid Tests @ \$40.00/test	\$ 200.00
Drilling Additives	284.00
Casing Shoe	250.00
Casing, 20 feet	<u>280.00</u>
TOTAL:	\$ 1,014.00

TOTAL DRILLING COST FOR FBC 84-8: \$17,457.00

EVALUATION OF WORK

Work Conducted	Diamond Drilling
Claim	KAY 10
Dates Wrok Conducted	September 12 - 18, 1984

COST PER HOLE: FBC 84-9 (NQ Core 1-7/8")

(1) Drilling Cost

<u>Date</u>	<u>Depth</u>	<u>Length</u>	<u>Cost/ Metre</u>	<u>Cost</u>
Sept. 12	0 - 3.05 m.	3.05 m.	\$52.46	\$ 160.00
Sept. 12 - 18	3.05 - 152.4 m.	149.35 m.	\$51.84	\$ 7,742.00
Sept. 12 - 18	152.4 - 304.8 m.	152.4 m.	\$55.12	\$ 8,400.00
Sept. 12 - 18	304.8 - 484.6 m.	179.8 m.	\$59.72	<u>\$10,738.00</u>
TOTAL:				\$27,040.00

(2) Man Hours and CAT Hours Cost

<u>Date</u>	<u>Shift</u>	<u>Man Hours</u>	<u>CAT Hours</u>	<u>Remarks</u>	
Sept. 12	Day	6	2	move & set-up	
Sept. 14	Day	4			
Total Man Hours: 10 @ \$23.00/hour					\$230.00
Total CAT Hours: 2 @ \$55.00/hour					<u>\$110.00</u>
TOTAL:					<u>\$340.00</u>

(3) Materials used, damaged, acid test, etc.

8 Acid Tests @ \$40.00/test	\$320.00
Drilling Additives	\$426.00
Casing Shoe	\$250.00
Casing	<u>\$140.00</u>
TOTAL:	\$ 1,136.00

TOTAL DRILLING COST FOR FBC 84-9: \$28,516.00

OTHER INDIRECT DRILLING COSTS

(1) Assay Charges

518 X \$7.50 Fire Assay	\$ 3,885.00
518 X \$3.00 Sample Preparation	\$ 1,554.00

(2) Diamond Saw Cutting of 785.4 metres of Core	
Barry Vessal, 12 man days @ \$57.69/day	\$ 692.28
Herb Mertens, 12 man days @ \$57.69/day	\$ 692.28
(3) Groceries: 70 man days @ \$15.00/man day	\$1,050.00
(4) Camp Cost: 70 man days @ \$35.00/man day	\$2,450.00
(5) Truck Rental: 10 days @ \$984.40/month	\$ 328.13
(6) Salary, Paul Brown: 10 days @ \$120.83/day	\$1,208.30
(7) Cook, Pat Harris: 10 days @ \$2,500.00/month	<u>\$ 833.33</u>
TOTAL:	\$12,693.32

TOTAL DIRECT AND INDIRECT DRILLING COST

FOR FBC 84-8 AND FBC 84-9:

\$58,666.32

APPORTIONMENT OF EXPENSES

From evaluation of work (pages 15 to 18) a total of \$58,666.32 was incurred in drilling diamond drill holes FBC 84-8 and FBC 84-9.

Both holes were drilled on KAY 10. See Figure 3, back folder, for horizontal projection of holes.

For the purpose of filing assessment work on the Frasergold property, consisting of MAC 1 - 9, MAC 9, 10, 11, 12 Fr, and KAY 1 - 12 claims, the property has been grouped into the EUREKA NORTH and EUREKA SOUTH Groups. Tables IV and V (pages 20 and 21) indicate the claims that have been assigned to each group.

This report deals with assessment credits being requested for the EUREKA NORTH Group only. A total of 3 years assessment credits is being requested of each unit of each claim in the EUREKA NORTH Group.

TABLE IV

EUREKA NORTH GROUP

Name of Claim	No. of Units	Record No.	Date Staked	Anniversary Date
MAC	9	1286	Sept. 21/79	Oct. 19
MAC 2	20	2078	Sept. 24/80	Oct. 22
MAC 7	8	6249	July 9/84	July 27
MAC 8	16	6250	July 4/84	July 27
MAC 9	20	6251	July 7/84	July 27
MAC 9 Fr	1	6204	June 15/84	July 16
MAC 12 Fr	1	6253	July 14/84	July 27
KAY 10	6	1961	Sept. 25/80	Sept. 25
ALPHA 2	9	5159	Sept. 22/83	Sept. 23
	90			

TABLE V

EUREKA SOUTH GROUP

Name of Claim	No. of Units	Record No.	Date Staked	Anniversary Date
KAY 1	1	1182	Aug. 11/79	Sept. 4
KAY 2	1	1183	Aug. 11/79	Sept. 4
KAY 3	1	1184	Aug. 11/79	Sept. 4
KAY 4	1	1185	Aug. 11/79	Sept. 4
KAY 5	1	1186	Aug. 11/79	Sept. 4
KAY 6	1	1187	Aug. 11/79	Sept. 4
KAY 7	1	1188	Aug. 11/79	Sept. 4
KAY 8	1	1189	Aug. 11/79	Sept. 4
KAY 9	20	1810	July 12/80	Aug. 11
KAY 11	2	1962	Sept. 21/80	Sept. 25
KAY 12	20	4631	Jan. 12/83	Feb. 3
MAC 3	6	3074	Dec. 17/80	Dec. 23
MAC 4	2	3075	Dec. 18/80	Dec. 23
MAC 5	4		July 19/84	July 27
MAC 6	9	3077	Dec. 18/80	Dec. 23
MAC 10 Fr	1		June 21/84	July 19
MAC 11 Fr	1		July 13/84	July 27
	73			

FEE SCHEDULE

Fire Assaying was performed by:

Min-En Laboratories Ltd.
705 West 15th Street
North Vancouver, B.C.
V7M 1T2

Fire Assay:

Au	\$7.50
Sample Preparation	<u>3.00</u>
	<u>\$10.50</u>

APPENDIX II

COST PER DAY FOR TRUCK

1982 GMC 4 X 4 leased from Airways Ltd.

2782 Grandview Hwy., Vancouver, B.C.

Contract Rate: \$984.40/month = \$32.813/day

NAMES AND ADDRESSES OF PERSONS CONDUCTING WORK

J.T. THOMAS
Diamond Drilling (1980) Ltd.
P.O. Box 394
Smithers, B.C.
V0J 2N0

BARRY VESSAL
#11 - 2242 Folkestone Way
West Vancouver, B.C.
V7S 2X7

HERBERT MERTENS
24787 - 50 Ave.
R.R. #3
Aldergrove, B.C.
V0X 1A0

PAUL BROWN
7031 Estoril Rd.
Mississauga, Ontario
L5N 1N3

APPENDIX IV

AMOCO CANADA PETROLEUM COMPANY LTD. - MINING DIVISION - DIAMOND DRILL HOLE RECORD

Page 1

PROPERTY Frazergold			LATITUDE 156 + 00E		STARTED September 9th, 1984		DIP TEST					
MOLE NO. FBC-84-B			DEPARTURE 2 + 85S		FINISHED September 12th, 1984		Footage	Corrected	Footage	Corrected	Footage	Corrected
BEARING Az. 045°			ELEVATION 1,563 m.		LENGTH 300.8 m. (987 ft.)		61 m.	-50.5°	244 m.	-52°		
DIP-COLLAR -50°			SECTION 156E		LOGGED BY P. Brown		122 m.	-52.5°	300.8 m.	test didn't work		
							183 m.	-50°				
FOOTAGE		DESCRIPTION	LOGGED BY <i>P. Brown</i>	% Mineralization	SAMPLE NO.	FOOTAGE			Au (oz/t)	ASSAYS		RQD
From	To					From	To	Length				
0.0	6.1 m	Casing			W4378	6.1	7.5	1.4	0.001			
6.1	62.7 m	Fine-Grained Black Knotted Phyllite (10 - 30% knots)			79	7.5	9.0	1.5	0.001			0
					W4380	9.0	10.5	1.5	0.001			
					81	10.5	12.0	1.5	0.001			4
		Knots are oxidized to 25.7 m. below which there is little oxidation of knots. Down to 24 m. the core is strongly broken with strong limonite on fractures.			82	12.0	13.5	1.5	0.001			
					83	13.5	15.0	1.5	0.001			12
		Knots are generally 5 - 8 mm. in size.			84	15.0	16.5	1.5	0.001			
		6.1 - 12.2 m. 70% recovery		6.1 - 62.7 m.	85	16.5	18.0	1.5	0.001			11
		15.4 - 16.2 m. 70% recovery		< 1% Py	86	18.0	19.5	1.5	0.002			
		21.9 - 22.9 m. 70% recovery			87	19.5	21.0	1.5	0.001			18
		Elsewhere in the interval 6.1 - 24m. there is 95 - 100% recovery.			88	21.0	22.5	1.5	0.001			
					89	22.5	24.0	1.5	0.001			4
					W4390	24.0	25.5	1.5	0.001			
					91	25.5	27.0	1.5	0.001			48
		6.1 - 18.15 m. very minor quartz.			92	27.0	28.5	1.5	0.001			
		18.15 - 22.9 m. quartz vein zone with 22% of quartz.			93	28.5	30.0	1.5	0.001			73
					94	30.0	31.5	1.5	0.001			
		22.9 - 33 m. < 3% quartz veining.			95	31.5	33.0	1.5	0.001			60
					96	33.0	34.5	1.5	0.001			
		Most of the quartz veins to 24 m. have strong limonite development in them. This limonite is most likely formed from alteration of quartz-carbonate sulphides.			97	34.5	36.0	1.5	0.001			72
					98	36.0	37.5	1.5	0.001			
					99	37.5	39.0	1.5	0.001			68
					W4400	39.0	40.5	1.5	0.001			
		Foliation is well developed throughout with 70° - 80° to C.A. being predominant.			01	40.5	42.0	1.5	0.001			30
		From 17 m. to 22.9 m. moderate minor folding is noted. There is also moderate to strong carbonaceous development adjacent to many of the quartz veins. Some of the quartz veins are folded.			02	42.0	43.5	1.5	0.001			
					03	43.5	45.0	1.5	0.001			38
					04	45.0	46.5	1.5	0.001			
					05	46.5	48.0	1.5	0.001			60
					06	48.0	49.5	1.5	0.001			
		19.35 m. 15 cm. quartz vein, 50° - 70° to C.A. moderate quartz-carbonate and good limonite in vein.			07	49.5	51.0	1.5	0.015			78
					08	51.0	52.5	1.5	0.001			
					09	52.5	54.0	1.5	0.024			73
		19.70 m. 37 cm. quartz vein 50° - 70° to C.A. moderate quartz-carbonate and limonite in vein.			W4410	54.0	55.5	1.5	0.001			
					11	55.5	57.0	1.5	0.001			94
					12	57.0	58.5	1.5	0.001			
		22.6 m. 30 cm. quartz vein broken. Trace quartz-carbonate and moderate limonite in vein.			13	58.5	60.0	1.5	0.001			84
					14	60.0	61.5	1.5	0.001			
					15	61.5	63.0	1.5	0.001			83

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			Au(oz/t)	ASSAYS		R/DQ
From	To				From	To	Length				
6.1	62.7 m.	Continued		W4416	63.0	64.5	1.5	0.001			
		Within the quartz vein zone there is stronger carbonaceous development in the knotted phyllite than in the knotted phyllite away from the quartz vein zone.		17	64.5	66.0	1.5	0.001		50	
				18	66.0	67.5	1.5	0.001			
				19	67.5	69.0	1.5	0.002		67	
				W4420	69.0	70.5	1.5	0.001			
		There is also weak sericite within and adjacent to the quartz veining.		21	70.5	72.0	1.5	0.001		51	
				22	72.0	73.5	1.5	0.001			
				23	73.5	75.0	1.5	0.001		33	
		26.4 m. folded 10 - 25 cm. quartz vein moderate quartz carbonate and trace sulphides.		24	75.0	76.5	1.5	0.001			
		26.75 m. - 30.7 m. No quartz veining		25	76.5	78.0	1.5	0.001		34	
				26	78.0	79.5	1.5	0.001			
				27	79.5	81.0	1.5	0.001		42	
		30.7 m. 10 cm. quartz vein 70° to C.A. good quartz carbonate on uphole side of vein and minor Po,Py.		28	81.0	82.5	1.5	0.001			
				29	82.5	84.0	1.5	0.034		37	
				W4430	84.0	85.5	1.5	0.001			
		There is only trace siliceous sediment in the knotted phyllite <<1%	The knotted phyllite has trace to 1% Py	31	85.5	87.0	1.5	0.001		77	
				32	87.0	88.5	1.5	0.001			
				33	88.5	90.0	1.5	0.001		93	
		At 25.4 m. a 2 cm. band of siliceous sediment at 25° to C.A. and parallel to foliation. A weaker foliation is at 65° - 70° to C.A. at this location.		34	90.0	91.5	1.5	0.001			
				35	91.5	93.0	1.5	0.001		72	
				36	93.0	94.5	1.5	0.001			
				37	94.5	96.0	1.5	0.001		75	
		From 33 - 62.7 m. there is occasional trace calcareous phyllite interbedded with the knotted phyllite.		38	96.0	97.5	1.5	0.001			
				39	97.5	99.0	1.5	0.001		73	
				W4440	99.0	100.5	1.5	0.001			
		39.1 - 54.2 m. quartz vein zone with 16% of quartz. There are a few minor folds associated with the quartz vein zone, however there is not any zone of folding.		41	100.5	102.0	1.5	0.001		71	
				42	102.0	103.5	1.5	0.001			
				43	103.5	105.0	1.5	0.001		78	
				44	105.0	106.5	1.5	0.001			
		Foliation is strong at 70° - 90° to C.A. throughout and is subparallel to compositional layering. The phyllite adjacent to the quartz veining has moderate to good carbonaceous development. Many of the quartz veins have sericite development. The quartz veins have moderate quartz carbonate and weak to moderate Po,Py.		45	106.5	108.0	1.5	0.140		57	
				46	108.0	109.5	1.5	0.001			
				47	109.5	111.0	1.5	0.001		83	
				48	111.0	112.5	1.5	0.001			
				49	112.5	114.0	1.5	0.001		93	
				W4450	114.0	115.5	1.5	0.001			
				51	115.5	117.0	1.5	0.001		68	
		From 30.7 - 39.1 m. there is only trace quartz veining.		52	117.0	118.5	1.5	0.001			
				53	118.5	120.0	1.5	0.001		98	
		41.0 - 41.6 m. 80% quartz veining with moderate quartz carbonate and Po,Py.		54	120.0	121.5	1.5	0.001			
				55	121.5	123.0	1.5	0.001		100	
				56	123.0	124.5	1.5	0.001			
		33.85 m. 37 cm. of black knotted phyllite.		57	124.5	126.0	1.5	0.001		100	
				58	126.0	127.5	1.5	0.017			
				59	127.5	129.0	1.5	0.074		69	

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			Au (oz/t)	ASSAYS	ROI
From	To				From	To	Length			
6.1	62.7 m	Continued		W4460	129.0	130.5	1.5	0.017		
		52.53 - 53.4 m. Fine grained light gray siliceous sediment bedding $\approx 70^\circ - 80^\circ$ to C.A. Upper and lower contacts in quartz veins.		61	130.5	132.0	1.5	0.041	98	
				62	132.0	133.5	1.5	0.012		
				63	133.5	135.0	1.5	0.012	97	
				64	135.0	136.5	1.5	0.011		
		At 42.5 m. compositional layering - foliation indicates tops uphole and dipping to south west as usual.		65	136.5	138.0	1.5	0.001	98	
				66	138.0	139.5	1.5	0.001		
				67	139.5	141.0	1.5	0.001	54	
		46.6 - 47.6 m. 1 metre with 70% quartz. Good quartz-carbonate and Po,Py with trace sphalerite and Cpy in vein.		68	141.0	142.5	1.5	0.001		
				69	142.5	144.0	1.5	0.001	78	
				W4470	144.0	145.5	1.5	0.001		
		49.75 m. folded quartz vein 44 cm. Vein has 10 - 20% phyllite inclusions. Good quartz-carbonate and Po,Py in vein.		71	145.5	147.0	1.5	0.006	100	
				72	147.0	148.5	1.5	0.029		
				73	148.5	150.0	1.5	0.054	100	
		51.45 m. 27cm. quartz vein 80° to C.A. Weak quartz-carbonate and sulphides in vein.		74	150.0	151.5	1.5	0.001		
				75	151.5	153.0	1.5	0.001	54	
				76	153.0	154.5	1.5	0.001		
		53.6 m. 37 cm. quartz vein at 50° to C.A. Good quartz-carbonate in vein with minor Po,Py and 1 speck of visible gold.	53.6 m. visible gold	77	154.5	156.0	1.5	0.001	95	
				78	156.0	157.5	1.5	0.047		
				79	157.5	159.0	1.5	0.031	100	
		From 54.2 - 62.7 m. weak quartz veining with <10 cm. of quartz veins.		W4480	159.0	160.5	1.5	0.033		
				81	160.5	162.0	1.5	0.013	49	
				82	162.0	163.5	1.5	0.010		
		Below 46.6 m. there is an increase in siliceous sediment content to 5 - 7%.		83	163.5	165.0	1.5	0.001	69	
				84	165.0	166.5	1.5	0.001		
				85	166.5	168.0	1.5	0.001	77	
		The K.P. has <1% Py as disseminations and stringers.		86	168.0	169.5	1.5	0.001		
				87	169.5	171.0	1.5	0.001	89	
62.7	66.65 m	Fine Grained Light Gray Siliceous Sediment		88	171.0	172.5	1.5	0.001		
		Upper contact sharp at 70° to C.A. Lower contact sharp at 60° to C.A. The siliceous sediment has weak sericite alteration. The siliceous sediment has only moderate foliation at $70^\circ - 90^\circ$ to C.A. There is minor black banded phyllite interbedded. The black banded phyllite occur as <10 cm. units. Total content is <10%. There is minor quartz veining with 33 cm. of quartz. Veins are at various angles to C.A. They contain only trace quartz-carbonate and Po,Py. There is trace disseminated Py in the siliceous sediment.		89	172.5	174.0	1.5	0.001	83	
				W4490	174.0	175.5	1.5	0.001		
				91	175.5	177.0	1.5	0.042	78	
			62.7 - 66.65 m. Trace Py	92	177.0	178.5	1.5	0.009		
				93	178.5	180.0	1.5	0.001	79	
				94	180.0	181.5	1.5	0.001		
				95	181.5	183.0	1.5	0.001	61	
				96	183.0	184.5	1.5	0.001		
				97	184.5	186.0	1.5	0.001	98	
				98	186.0	187.5	1.5	0.018		
				99	187.5	189.0	1.5	0.004	56	
		64.4 m. 10 cm. quartz vein 60° to C.A. minor quartz-carbonate and Po,Py in vein.		W4500	189.0	190.5	1.5	0.001		
				01	190.5	192.0	1.5	0.023	80	
				02	192.0	193.5	1.5	0.001		
				03	193.5	195.0	1.5	0.003	90	

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			Au(oz/t)	ASSAYS		
From	To				From	To	Length				
66.65	175.4 m.	Mainly Fine Grain Black Knotted Phyllite with 5 - 10% Siliceous Sediment		W4504	195.0	196.5	1.5	0.001			
		A few sections up to 6 metres in length may have up to 50% siliceous sediment. These sections are rated below.		05	196.5	198.0	1.5	0.001			73.
		Short sections are also carbonaceous.		06	198.0	199.5	1.5	0.001			
		80.8 - 84.5 m. quartz vein zone with 13% quartz.		07	199.5	201.0	1.5	0.001			18
				08	201.0	202.5	1.5	0.002			
		154.2 - 162.2 m. quartz vein zone with 12% quartz.		09	202.5	204.0	1.5	0.001			30
				W4510	204.0	205.5	1.5	0.001			
				11	205.5	207.0	1.5	0.001			25
		65.65 m. 15 cm. quartz vein 70° to C.A. Trace quartz-carbonate and Po,Py and a few specks of Cpy in vein.		12	207.0	208.5	1.5	0.001			
				13	208.5	210.0	1.5	0.001			51
				14	210.0	211.5	1.5	0.002			
		69.8 m. 8 cm. quartz vein 70° to C.A. Good quartz-carbonate and trace Po,Py in vein at selvage.		15	211.5	213.0	1.5	0.001			71
				16	213.0	214.5	1.5	0.001			
		69.9 m. 5 - 7 cm. quartz vein 50° to C.A. Trace quartz-carbonate and Po,Py in vein.		17	214.5	216.0	1.5	0.004			75
				18	216.0	217.5	1.5	0.108			
		70.6 m. 10 cm. quartz vein 70° to C.A. Minor quartz-carbonate and sulphides in vein.		19	217.5	219.0	1.5	0.061			80
				W4520	219.0	220.5	1.5	0.001			
		72.25 m. 8 cm. quartz vein 60° to C.A. Moderate quartz-carbonate and trace Po,Py in vein.		21	220.5	222.0	1.5	0.001			32
				22	222.0	223.5	1.5	0.001			
		66.65 - 80.8 m. 45 cm. of quartz veining.		23	223.5	225.0	1.5	0.001			79
		72.3 m. 30 cm. of siliceous sediment 80° to C.A.		24	225.0	226.5	1.5	0.001			
		80.8 m. broken 20 cm. quartz vein 45° to C.A. Moderate quartz-carbonate and Po,Py in vein.		25	226.5	228.0	1.5	0.001			77
				26	228.0	229.5	1.5	0.001			
				27	229.5	231.0	1.5	0.001			55
		81.1 m. 18 cm. quartz vein 60° to C.A. Weak quartz-carbonate and trace Po,Py in vein.		28	231.0	232.5	1.5	0.001			
				29	232.5	234.0	1.5	0.001			24
		81.75 m. 12 cm. quartz vein 70° to C.A. Moderate quartz-carbonate and minor Po,Py in vein.		W4530	234.0	235.5	1.5	0.001			
				31	235.5	237.0	1.5	0.001			55
				32	237.0	238.5	1.5	0.001			
		82.8 - 83.2 m. 60% quartz in 4 veins. Veins have moderate quartz-carbonate and Po,Py. Veins are 45° - 70° to C.A.		33	238.5	240.0	1.5	0.001			66
				34	240.0	241.5	1.5	0.001			
		84.3 m. 11 cm. quartz vein 70° to C.A. Strong Po,Py and moderate quartz-carbonate in vein.		35	241.5	243.0	1.5	0.001			56
				36	243.0	244.5	1.5	0.001			
				37	244.5	246.0	1.5	0.001			33
		83.4 m. 5 - 7 cm. quartz vein 60° to C.A. Strong Po,Py and moderate quartz-carbonate in vein.		38	246.0	247.5	1.5	0.001			
				39	247.5	249.0	1.5	0.001			76
				W4540	249.0	250.5	1.5	0.002			
		In the quartz vein zone above there is strong carbonaceous development adjacent to the quartz veining. The quartz veins have trace Cpy and at one location sphalerite.		41	250.5	252.0	1.5	0.001			53
				42	252.0	253.5	1.5	0.001			
		Foliation is well developed at 70° - 90° to C.A.		43	253.5	255.0	1.5	0.001			62
				44	255.0	256.5	1.5	0.001			
				45	256.5	258.0	1.5	0.001			93
		91 m. minor folding for 37 cm.		46	258.0	259.5	1.5	0.001			
		Compositional layering - foliation at 90.5 m. indicates tops uphole and dipping 45° to south west.		47	259.5	261.0	1.5	0.001			73

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			Au (oz/t)	ASSAYS	
From	To				From	To	Length			ROD
66.65	175.4 m	Continued		W4548	261.0	262.5	1.5	0.001		
		78 m. 40 cm. of calcareous phyllite		49	262.5	264.0	1.5	0.001	61	
		78.7 m. 30 cm. of calcareous phyllite		50	264.0	265.5	1.5	0.001		
		Contacts of both units $\approx 70^\circ - 80^\circ$ to C.A.		W4551	265.5	267.0	1.5	0.001	95	
				52	267.0	268.5	1.5	0.001		
		76.5 m. 10 - 15 cm. of siliceous sediment 50° to C.A.		53	268.5	270.0	1.5	0.001	100	
				54	270.0	271.5	1.5	0.001		
		From 84.1 - 154.2 m. 2.5% quartz veining. Most of the veins are large, 10 - 20 cm. with a few up to 45 cm. Veins are isolated. At best there may be isolated 1.5 m. intervals with 10 - 20% quartz veining, with 6 - 10 metres with only trace quartz.		55	271.5	273.0	1.5	0.001	94	
				56	273.0	274.5	1.5	0.001		
				57	274.5	276.0	1.5	0.001	85	
				58	276.0	277.5	1.5	0.001		
				59	277.5	279.0	1.5	0.001	74	
				W4560	279.0	280.5	1.5	0.001		
		From 84.5 - 92.65 m. trace quartz veining.		61	280.5	282.0	1.5	0.001	34	
				62	282.0	283.5	1.5	0.001		
		92.65 m. 20 cm. quartz vein 60° to C.A. Good quartz-carbonate and minor Po,Py in vein.		63	283.5	285.0	1.5	0.001	41	
				64	285.0	286.5	1.5	0.001		
		92.9 m. - 100.6 m. 9 cm. of quartz veining in 3 veins.		65	286.5	288.0	1.5	0.001	52	
				66	288.0	289.5	1.5	0.001		
		100.6 m. 17 cm. quartz vein 75° to C.A. Moderate quartz-carbonate and minor Po,Py in vein.		67	289.5	291.0	1.5	0.001	42	
				68	291.0	292.5	1.5	0.001		
		100.77 m. - 106.5 m. 7 cm. of quartz veining.		69	292.5	294.0	1.5	0.001	25	
				W4570	294.0	295.5	1.5	0.001		
		106.5 m. 11 cm. quartz vein, minor quartz carbonate and trace Po,Py. Vein is at 70° to C.A.		71	295.5	297.0	1.5	0.001	56	
				72	297.0	298.5	1.5	0.001		
				73	298.5	300.0	1.5	0.001	11	
				W4574	300.0	300.8	0.8 m	0.001	0	
		106.77 m. 46 cm. quartz vein 70° to C.A. Vein has good quartz-carbonate in upper selvage and minor to moderate Po,Py in vein.								
		107.6 m. minor folding for 20 cm.								
		107.23 - 124.95 m. 12cm. of quartz in 3 veins. Veins have moderate quartz-carbonate and minor sulphides and trace sphalerite.								
		124.95 - 126.15 m. 35 cm. of quartz veining. Veins have moderate to good quartz-carbonate and Po,Py and trace sphalerite. Veins have strong carbonaceous development in selvages. Veins have moderate sericite development.								
		Compositional layering - foliation at 122 m. indicates tops as usual. Bedding dips to south west.								
		126.15 - 138.5 m. 15 cm. of quartz veining. Veins have weak quartz-carbonate and trace Po,Py.								

PROPERTY	Frasergold	LATITUDE	L54 + 14E	STARTED	DIP TEST						
					Footage	Corrected	Footage	Corrected	Footage	Corrected	
HOLE NO.	FBC-84-9	DEPARTURE	2 + 50N	FINISHED	September 12th, 1984	61 m	-48°	244 m	-47°	427 m	-45.5°
BEARING	Az. 045°	ELEVATION	1,560 m	LENGTH	484.6 m (1,590')	122 m	-48°	305 m	-47.5°	484.6 m	-45.5°
DIP-COLLAR	-50°	SECTION	L54 + 00E	LOGGED BY	P. Brown	183 m	-47°	366 m	-45.5°		
FOOTAGE		DESCRIPTION	SAMPLE NO.	FOOTAGE			Au (oz/t)	ASSAYS		ROD	
From	To			From	To	Length					
0.0	3.1 m	Casing.	W4575	3.1	4.5	1.4	0.001				
			W4576	4.5	6.0	1.5	0.001			21	
3.1 m	133.3 m	Fine-Grained Black Knotted Phyllite (10-30% Knots) With Up To 10% Fine-Grained Light Gray Siliceous Sediment Interbedded	W4577	6.0	7.5	1.5	0.001				
			W4578	7.5	9.0	1.5	0.001			31	
			W4579	9.0	10.5	1.5	0.001				
		Foliation is strong throughout at 70°-90° to C.A. In the upper portion of this hole there is 2-3% interbedded siliceous sediment. This siliceous sediment occurs as < 1 to 5 cm bands.	W4580	10.5	12.0	1.5	0.001			0	
			W4581	12.0	13.5	1.5	0.001				
		At 19.5m, compositional layering and foliation indicates tops uphole and bedding is dipping at 50° to S.W.	W4582	13.5	15.0	1.5	0.001			7	
			W4583	15.0	16.5	1.5	0.001				
			W4584	16.5	18.0	1.5	0.001			4	
			W4585	18.0	19.5	1.5	0.001				
		The core is broken to 23.5 m below which there is good recovery. In the broken section, there is ≈ 80% recovery.	W4586	19.5	21.0	1.5	0.001			26	
			W4587	21.0	22.5	1.5	0.001				
			W4588	22.5	24.0	1.5	0.001			9	
		There is no minor folding noted in this section.	W4589	24.0	25.5	1.5	0.001				
			W4590	25.5	27.0	1.5	0.001			86	
		16.8 m 5 cm. gouge at 70° to C.A.	W4591	27.0	28.5	1.5	0.001				
			W4592	28.5	30.0	1.5	0.001			59	
		From 3.1 - 20 m there is moderate to strong oxidation of the Knotted Phyllite. The majority of the knots and all fractures have a limonite coating. Any quartz carbonate and sulphides in this section to 20 m is now limonite.	W4593	30.0	31.5	1.5	0.001				
			W4594	31.5	33.0	1.5	0.001			31	
			W4595	33.0	34.5	1.5	0.001				
			W4596	34.5	36.0	1.5	0.001			46	
			W4597	36.0	37.5	1.5	0.001				
		9.5 - 13.9 Quartz vein zone with 16% quartz veining.	W4598	37.5	39.0	1.5	0.001			48	
			W4599	39.0	40.5	1.5	0.001				
		11.8 m 20 cm quartz vein, broken, strong to moderate limonite in vein.	W4600	40.5	42.0	1.5	0.001			77	
			W4601	42.0	43.5	1.5	0.001				
		13.6 m 25 cm quartz vein, broken, strong limonite in vein.	W4602	43.5	45.0	1.5	0.001			72	
			W4603	45.0	46.5	1.5	0.001				
		25.6 - 32.85 m Quartz vein zone with 22% quartz veining. In this quartz vein zone, the veins have moderate to strong quartz-carbonate (Ankerite) in the veins, mainly adjacent to vein selvages, however, there is very little Po,Py in the veins.	W4604	46.5	48.0	1.5	0.001			22	
			W4605	48.0	49.5	1.5	0.001				
			W4606	49.5	51.0	1.5	0.001			49	
			W4607	51.0	52.5	1.5	0.001				
		These veins have strong sericite developed within the veins.	W4608	52.5	54.0	1.5	0.001			89	
		The sericite usually occurs as clusters and varies in colour from pale to transparent to bright green. The sericite is fine-grained to medium-grained.	W4609	54.0	55.5	1.5	0.001				
			W4610	55.5	57.0	1.5	0.001			76	
			W4611	57.0	58.5	1.5	0.001				
			W4612	58.5	60.0	1.5	0.001			98	

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			Au (oz/t)	ASSAYS	
From	To				From	To	Length			RQD
3.1	133.3m	Cont'd.		W4657	126.0	127.5	1.5	0.264		
				W4658	127.5	129.0	1.5	0.028	86	
		width) than in the quartz vein zone above. Veins have weak to moderate quartz carbonate and trace to minor Po,Py. There is weak minor folding in the phyllite adjacent to and in a few of the veins. However, the phyllite a few 10's of cm's away from the vein is not folded.		W4659	129.0	130.5	1.5	0.003		
		45.3 m 3 cm. quartz vein 50° to C.A. Moderate quartz carbonate and trace Py in the vein.		W4660	130.5	132.0	1.5	0.043	79	
				W4661	132.0	133.5	1.5	0.087		
				W4662	133.5	135.0	1.5	0.002	49	
				W4663	135.0	136.5	1.5	0.001		
				W4664	136.5	138.0	1.5	0.001	37	
				W4665	138.0	139.5	1.5	0.001		
				W4666	139.5	141.0	1.5	0.001	32	
		47.45 m 3-5 cm. quartz vein 30° to C.A. Moderate quartz carbonate and weak pyrite in vein.		W4667	141.0	142.5	1.5	0.001		
				W4668	142.5	144.0	1.5	0.001	100	
				W4669	144.0	145.5	1.5	0.001		
		49.22 m 15 cm. quartz vein 60° to C.A. Moderate quartz carbonate and trace Py, Po in vein.		W4670	145.5	147.0	1.5	0.004	68	
				W4671	147.0	148.5	1.5	0.001		
		50.8 m 5 cm. quartz vein 80° to C.A. Minor quartz carbonate in vein.		W4672	148.5	150.0	1.5	0.002	12	
				W4673	150.0	151.5	1.5	0.001		
			3.1-133.3 m	W4674	151.5	153.0	1.5	0.001	72	
		51.8 m 6 cm. quartz vein 50° to C.A. Weak quartz carbonate and trace sulphides in vein.	1% - 3% Py + Po	W4675	153.0	154.5	1.5	0.001		
			with increasing Po	W4676	154.5	156.0	1.5	0.001	74	
			content down 1 hole.	W4677	156.0	157.5	1.5	0.001		
		55.25 m 10 cm. quartz vein 70° to C.A. Trace quartz carbonate in vein.		W4678	157.5	159.0	1.5	0.001	50	
				W4679	159.0	160.5	1.5	0.001		
				W4680	160.5	162.0	1.5	0.001	93	
		From 52.0 - 65.85 m 14 cm. of quartz in two veins.		W4681	162.0	163.5	1.5	0.019		
				W4682	163.5	165.0	1.5	0.006	16	
		Quartz vein zone 65.85-85.5 m, 15% quartz veining. Within this quartz vein zone, there appears to be more sulphides in the veins. These quartz veins have strong carbonaceous selvages. The knots in the Knotted Phyllite appear to be destroyed by the carbonaceous development. Minor folding is noted adjacent to a number of the quartz veins, however, the phyllite above the quartz vein zone is not folded. Noted in several of the quartz veins in this quartz vein zone is trace Cpy and sphalerite. The majority of the veins are 5-10 cm. in width. Veins are generally 45° to C.A. There is 5-20% quartz carbonate and up to 15% Po,Py in the veins.		W4683	165.0	166.5	1.5	0.001		
				W4684	166.5	168.0	1.5	0.001	73	
				W4685	168.0	169.5	1.5	0.001		
				W4686	169.5	171.0	1.5	0.001	39	
				W4687	171.0	172.5	1.5	0.001		
				W4688	172.5	174.0	1.5	0.001	38	
				W4689	174.0	175.5	1.5	0.001		
				W4690	175.5	177.0	1.5	0.001	54	
				W4691	177.0	178.5	1.5	0.023		
				W4692	178.5	180.0	1.5	0.001	46	
				W4693	180.0	181.5	1.5	0.017		
				W4694	181.5	183.0	1.5	0.002	57	
		66.1 m, 11 cm. quartz vein 70° to C.A., moderate quartz carbonate and sulphides in vein.		W4695	183.0	184.5	1.5	0.029		
				W4696	184.5	186.0	1.5	0.006	93	
				W4697	186.0	187.5	1.5	0.020		
		65.85 m 5-7 cm. quartz vein 70° to C.A. Moderate quartz carbonate and good Po,Py and trace sphalerite in the vein.		W4698	187.5	189.0	1.5	0.001	60	
				W4699	189.0	190.5	1.5	0.001		
				W4700	190.5	192.0	1.5	0.001	93	
		68.5 m 9 cm. quartz vein 80° to C.A. Weak quartz carbonate and sulphides in vein.								

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			Au (gr/t)	ASSAYS	
From	To				From	To	Length			RQD
3.1	133.3m	Cont'd.		W4701	192.0	193.5	1.5	0.001		
				W4702	193.5	195.0	1.5	0.001		74
		70.1 m 10 cm. quartz vein, folded, moderate to weak quartz carbonate and trace sulphides.		W4703	195.0	196.5	1.5	0.001		
				W4704	196.5	198.0	1.5	0.001		66
				W4705	198.0	199.5	1.5	0.001		
		70.7 m Folded 25 cm quartz vein. Good quartz carbonate and Po,Py in vein at selvage.		W4706	199.5	201.0	1.5	0.001		31
				W4707	201.0	202.5	1.5	0.001		
				W4708	202.5	204.0	1.5	0.001		69
		72.1 m 10 cm. quartz vein 60° to C.A. 30% quartz carbonate and 20-30% Po,Py in vein.		W4709	204.0	205.5	1.5	0.001		
				W4710	205.5	207.0	1.5	0.001		80
				W4711	207.0	208.5	1.5	0.001		
		72.9 m 8 cm. quartz vein 45° to C.A. strong quartz carbonate and Po,Py in vein.		W4712	208.5	210.0	1.5	0.001		72
				W4713	210.0	211.5	1.5	0.001		
		73.4 m Folded 5-10 cm. quartz vein. Good quartz carbonate and Po,Py in vein at selvage.		W4714	211.5	213.0	1.5	0.001		83
				W4715	213.0	214.5	1.5	0.001		
		At 59 m, compositional layering - foliation indicates tops up-hole and bedding dips 10°-20° to southwest.		W4716	214.5	216.0	1.5	0.001		93
				W4717	216.0	217.5	1.5	0.001		
				W4718	217.5	219.0	1.5	0.001		97
		The interval 81.65-84.7 m is void of quartz veining.		W4719	219.0	220.5	1.5	0.001		
				W4720	220.5	222.0	1.5	0.001		97
		74.0 m Folded 20-30 cm quartz vein 30°-70° to C.A. Minor quartz carbonate and sulphides in vein.		W4721	222.0	223.5	1.5	0.001		
				W4722	223.5	225.0	1.5	0.001		100
				W4723	225.0	226.5	1.5	0.027		
		78.7 m Folded 5-7 cm. quartz vein with moderate quartz carbonate and sulphides.		W4724	226.5	228.0	1.5	0.004		88
				W4725	228.0	229.5	1.5	0.001		
				W4726	229.5	231.0	1.5	0.001		75
		81.05 m 5 cm. quartz vein 50° to C.A. minor quartz carbonate and sulphides in vein.		W4727	231.0	232.5	1.5	0.001		
				W4728	232.5	234.0	1.5	0.001		72
				W4729	234.0	235.5	1.5	0.001		
		84.7 m 38 cm. quartz vein at 40°-70° to C.A. Vein has moderate quartz carbonate and Po,Py. Vein also has V.G. Four locations in vein near upper selvages >10 specks of visible gold.	84.7m V.G.	W4730	235.5	237.0	1.5	0.001		67
				W4731	237.0	238.5	1.5	0.001		
				W4732	238.5	240.0	1.5	0.001		68
				W4733	240.0	241.5	1.5	0.007		
				W4734	241.5	243.0	1.5	0.010		81
		85.5 - 93.6 m only trace quartz veining in 1-2 mm bands. Veinlets cut foliation.		W4735	243.0	244.5	1.5	0.001		
				W4736	244.5	246.0	1.5	0.001		97
				W4737	246.0	247.5	1.5	0.001		
		Folding is noted associated with the quartz vein zone above, however folding does not extend into the phyllite above or below the quartz vein zone. The quartz veins have strong carbonaceous selvages. There is also sericite in some of the quartz veins.		W4738	247.5	249.0	1.5	0.001		92
				W4739	249.0	250.5	1.5	0.001		
				W4740	250.5	252.0	1.5	0.042		96
				W4741	252.0	253.5	1.5	0.001		
				W4742	253.5	255.0	1.5	0.024		94
				W4743	255.0	256.5	1.5	0.001		
		93.6 - 109.1 m Quartz vein zone with 11% quartz. Many of the quartz veins are folded. There are quite variable amounts of quartz carbonate and Po,Py in these veins. Many of the veins		W4744	256.5	258.0	1.5	0.001		98

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			Au (oz/t)	ASSAYS	
From	To				From	To	Length			RQD
3.1	133.3 m	however they are fewer in number.		W4789	324.0	325.5	1.5	0.001		
				W4790	325.5	327.0	1.5	0.001	43	
		Away from the quartz vein zone, there are 20-30% knots, while in this quartz vein zone, there is < 20% knots.		W4791	327.0	328.5	1.5	0.001		
				W4792	328.5	330.0	1.5	0.001	36	
				W4793	330.0	331.5	1.5	0.001		
		108.5m 8 cm. quartz vein 30° to C.A. moderate quartz carbonate and sulphides in vein.		W4794	331.5	333.0	1.5	0.001	56	
				W4795	333.0	334.5	1.5	0.001		
		109.0 m 10 cm. quartz vein 60° to C.A. Trace quartz-carbonate and Po,Py in vein.		W4796	334.5	336.0	1.5	0.001	29	
				W4797	336.0	337.5	1.5	0.001		
				W4798	337.5	339.0	1.5	0.001	61	
		From 109.1-131.9 m, only 40 cm. of quartz veins in ten veins. Three of the veins are in the interval 113.65 - 114.1 m. These three veins are 40° - 70° to C.A. and have moderate to good quartz carbonate and moderate Po,Py.		W4799	339.0	340.5	1.5	0.001		
				W4800	340.5	342.0	1.5	0.001	36	
				W4801	342.0	343.5	1.5	0.001		
				W4802	343.5	345.0	1.5	0.001	66	
				W4803	345.0	346.5	1.5	0.001		
		In the knotted phyllite, there is up to 3-5% siliceous sediment. There is 2-4% Po,Py in the Knotted Phyllite with greater concentration of sulphides adjacent to the quartz vein zone above.		W4804	346.5	348.0	1.5	0.001	82	
				W4805	348.0	349.5	1.5	0.001		
				W4806	349.5	351.0	1.5	0.001	65	
				W4807	351.0	352.5	1.5	0.001		
				W4808	352.5	354.0	1.5	0.001	77	
		128.55m Isolated 6 cm. quartz vein 70° to C.A. Vein has good quartz carbonate and Po,Py and two specks of visible gold.	128.55 m V.G.	W4809	354.0	355.5	1.5	0.001		
				W4810	355.5	357.0	1.5	0.001	60	
				W4811	357.0	358.5	1.5	0.001		
		132.0 - 135.95 m Quartz vein zone with 29% of quartz veining.		W4812	358.5	360.0	1.5	0.003	59	
				W4813	360.0	361.5	1.5	0.001		
		132.0 m 48 cm. quartz vein 50-80° to C.A. Strong quartz carbonate and Po,Py in vein as well as spectacular visible gold. Gold is associated with the sulphides. Several 1-3 mm long stringers.	132.0 m V.G.	W4814	361.5	363.0	1.5	0.001	67	
				W4815	363.0	364.5	1.5	0.001		
				W4816	364.5	366.0	1.5	0.001	49	
				W4817	366.0	367.5	1.5	0.001		
				W4818	367.5	369.0	1.5	0.001	64	
133.3 m	141.0 m	Black Banded Phyllite Fine-Grained BBP		W4819	369.0	370.5	1.5	0.002		
				W4820	370.5	372.0	1.5	0.002	73	
		Foliation is moderate to weak at 40°-90° to C.A. Moderate minor folding is noted from 136.0 - 141.0 m. Folding is on a 30 cm scale. From 136.0 - 137 m, minor C.P. (calcareous phyllite) as 1-3 cm. units. The Black Banded Phyllite has < 1 mm white fragments of quartz disseminated throughout. This section has weak quartz veining except for the quartz vein zone which ends at 135.95 m.	3-5% stringer Po,Py	W4821	372.0	373.5	1.5	0.002		
				W4822	373.5	375.0	1.5	0.001	86	
				W4823	375.0	376.5	1.5	0.006		
				W4824	376.5	378.0	1.5	0.001	69	
				W4825	378.0	379.5	1.5	0.002		
				W4826	379.5	381.0	1.5	0.001	62	
				W4827	381.0	382.5	1.5	0.001		
				W4828	382.5	384.0	1.5	0.001	99	
		134.67 m 35 cm. quartz vein 45° to C.A. moderate quartz carbonate and Po,Py in vein.		W4829	384.0	385.5	1.5	0.001		
				W4830	385.5	387.0	1.5	0.001	75	
		135.85 m 10 cm. quartz vein 30° to C.A. strong quartz-carbonate and Po,Py in vein at lower selvage.		W4831	387.0	388.5	1.5	0.001		
				W4832	388.5	390.0	1.5	0.001	97	
		138.5 m Folded 3-6 cm. quartz vein void of quartz-carbonate and Po,Py. Vein has 20% white CaCO ₃ . A similar vein occurs at 138.65 m.								

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			Au (oz/t)	ASSAYS	
From	To				From	To	Length			RQD
146.1	270.65 m	Cont'd.		W4877	456.0	457.5	1.5	0.001		
		169.6 m 10 cm. quartz vein 80° to C.A. Trace quartz carbonate and Po, Py in vein.		W4878	457.5	459.0	1.5	0.001	63	
				W4879	459.0	460.5	1.5	0.001		
				W4880	460.5	462.0	1.5	0.001	47	
				W4881	462.0	463.5	1.5	0.001		
		160.3 - 161.0 m minor folding.		W4882	463.5	465.0	1.5	0.001	75	
				W4883	465.0	466.5	1.5	0.001		
		161.3 - 162.0 m CP		W4884	466.5	468.0	1.5	0.001	64	
		164.3 - 165.0 m CP		W4885	468.0	469.5	1.5	0.001		
		170.5 m 20 cm of CP with minor folding.		W4886	469.5	471.0	1.5	0.001	51	
				W4887	471.0	472.5	1.5	0.001		
		170.8 m - 174.8 m No quartz veining.		W4888	472.5	474.0	1.5	0.001	39	
		174.8 m Folded 40 cm. quartz vein with moderate quartz-carbonate and Po, Py.		W4889	474.0	475.5	1.5	0.001		
				W4890	475.5	477.0	1.5	0.001	26	
				W4891	477.0	478.5	1.5	0.001		
		169.0 m 20 cm. of broken core.		W4892	478.5	480.0	1.5	0.001	36	
				W4893	480.0	481.5	1.5	0.001		
		178.9 m 100 cm. quartz vein 40° to C.A. Minor quartz-carbonate and Po in vein.		W4894	481.5	483.0	1.5	0.001	36	
				W4895	483.0	484.6	1.6	0.001	54	
		179.9 m 20 cm. of gouge at 70° to C.A.								
		176 m 40 cm. of folded core.								
		182.8 m 30 cm. of folded core.								
		183.3 m 10 cm. of folded core.								
		187.0 - 187.8 m 36 cm. of quartz veins at 60°-90° to C.A. There is good quartz carbonate and PoPy in veins.								
		188.7 m Folded 2-3 cm. quartz vein. Vein has 20% Po and 5-10% Py and 10-20% quartz carbonate.								
		190-191.0 m Minor folding on a 30 cm. scale.								
		From 190m, foliation is strong at 70°-90° to C.A. There is also weak minor folding noted throughout.								
		Compositional layering - foliation at 197 m indicates tops uphole and dipping 45° to S.W.								
		From 192-229 m, there is no well developed quartz vein zone. A few short 3-4 m sections have greater than average quartz veining. Many of the quartz veins are 5 cm in width, however there are a few wide veins.								
		192 - 199.9 m 20 cm. of quartz veining.								
		199.9 - 203.6 m 30 cm. of quartz veining.								
		203.6 - 209.25 m 15 cm. of quartz veining.								
		209.25 m 60 cm. of quartz vein.								

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS		
From	To				From	To	Length			
146.1	270.65m	Cont'd								
		195.8 m Several stringers of Po,Py in the phyllite. 20% Po,Py for 10 cm.								
		197.95 m Folded quartz vein with moderate quartz carbonate and Po,Py. Vein is 7-20 cm. in width.								
		203.45 m 2-3 cm. quartz vein. Folded. Strong quartz carbonate and sulphides in vein.								
		209.25 m 60 cm. quartz vein 40° to C.A. Weak quartz carbonate and trace sulphides in vein.								
		209.85 - 229.5 m Slightly stronger quartz veining with 6% quartz. A number of veins are folded. Veins generally have weak to moderate quartz carbonate and good Po,Py. Fine-grained pale green sericite is noted in a number of the veins. Trace Cpy is noted in several veins.								
		211.2 m 20 cm. quartz vein 70° to C.A. Weak quartz carbonate and sulphides in vein.								
		213.5 m Minor folding for 50 cm. with quartz veining.								
		214.9 - 219.0 m Minor folding throughout.								
		220.4 - 226.0 m Minor folding throughout.								
		218.5 - 219.0 m 45% quartz veining as 8 veins, veins are 70° - 80° to C.A. Veins have moderate to weak quartz carbonate and 5-25% Po,Py.								
		222.4 m 50 cm. of folded quartz veining with weak quartz carbonate and good Po,Py.								
		224.3 - 225.6 m Folded quartz veining occurring as several quartz veins down C.A. and folded into and out of the core.								
		Veins occupy 40% of interval. These veins have weak to moderate quartz carbonate and good Po,Py (5-15%).								
		228.1 m Folded quartz vein 10-20 cm. and down C.A. for 40 cm. Vein has good quartz carbonate and Po,Py.								
		228.8 m 18 cm. quartz vein 80° to C.A. Minor quartz carbonate and Po,Py.								
		From 229.5 - 237.25 m Only minor quartz veining.								

The RSP has 2-5% Po,Py with less in the K.P. to 228 m. There is only trace Po,Py in the sil. sed.

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS	
From	To				From	To	Length		
146.1	270.65m	266.1m Folded 5-10 cm. quartz vein with minor CaCO ₃ . No quartz carbonate or Po,Py noted.							
		From 267m to 270.65m, the Black Banded Phyllite has only minor carbonaceous phyllite. Bedding is parallel to foliation and is 70°-80° to C.A. The lower contact is gradational. There is an increasing percentage of siliceous sediments in the black banded phyllite towards the contact with the siliceous sediments below.							
		From 267-270.65m, 30 cm. of quartz veining. Veins have trace quartz carbonate and sulphides at best. Several veins have CaCO ₃ .							
		269.75m 18 cm. quartz vein 40° to C.A. Vein is folded. There is minor quartz-carbonate and Py in the vein. The phyllite has decreasing pyrite content with increasing siliceous sediment content. The last four meters has only 1-3% pyrite and minor Po.							
		From 267-270.65m, only trace minor folding.							
270.65	284.75m	Fine-Grained Medium to Dark Gray Siliceous Sediment With Minor Interbedded Black Banded Phyllite							
		Upper and lower contacts of unit are gradational. Bedding is parallel to foliation which is 70°-90° to C.A. However, moderate minor folding is noted throughout. Minor folding is on a 10-20 cm. scale. Short sections upto 1m are not folded.			270.65-284.75m				
		The Black Banded Phyllite occur as < 1 to 10 cm. bands, with a few bands upto 30 cm. in width. Total Black Banded Phyllite content is 5-10%.			1-3% Py in the sil. sed. with 2-5% PoPy in the Black Banded Phyllite.				
		The siliceous sediment has 1-3% disseminated Py. There is 2-5% Po,Py in the black banded phyllite.							
		The siliceous sediment has very weak quartz veining with 30 cm. of quartz veining.							
		274.3-275.7m No minor folding.							
		279.6-283.4m Weak minor folding.							
		Most of the quartz veins are folded. Veins have only trace quartz carbonate and Py,Po. An exception is at 274.5m 8 cm. quartz vein 60° to C.A. 5-10% quartz carbonate and 20% Po,Py in vein. Most veins are less than 5 cm. in width. Veins are in the black banded phyllite and not the siliceous sediment.							

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS	
From	To				From	To	Length		
336.0	484.6m	Cont'd.							
		In the first five meters of this section, there is \approx 70% siliceous sediment.							
		341.0-341.6m Strong minor folding.							
		341.6-343.7m Weak minor folding.							
		343.7-354.5m Strong minor folding.							
		354.5-362.3m Weak minor folding.							
		362.3-365.1m Strong minor folding.							
		365.1-370.0m Weak minor folding.							
		370.0-403.0m Moderate to strong minor folding.							
		339.05m 5-10 cm. quartz vein 30° to C.A. Moderate quartz-carbonate and Po,Py and trace Cpy in vein.							
		339.25m 5 cm. quartz vein 40° to C.A. Moderate quartz-carbonate and Po,Py in vein.							
		340.2-349.0m There is only trace quartz veining.							
		349.0-362.6m Quartz vein zone with 9% quartz. Veins vary in size from 1-23 cm, and from not folded to strongly folded. Many of the quartz veins have good quartz-carbonate and Po,Py. Veins also have trace Cpy and sphalerite and trace pale pinkish brown dolomite. Pale green sericite is noted in many of the quartz veins.							
		349.0m 18 cm. quartz vein 70° to C.A. Moderate Po,Py and minor quartz-carbonate in vein.							
		349.6m Folded 3 cm quartz vein 25° to C.A. Vein has strong quartz carbonate and Po,Py.							
		354.45m 25 cm. quartz vein 80° to C.A. Minor quartz-carbonate and Po,Py in vein.							
		362.2m 8 cm. quartz vein 50° to C.A. Good quartz-carbonate and Po,Py in vein.							
		362.4m 23 cm. quartz vein 60° to C.A. Strong quartz-carbonate and Po,Py in vein.							
		362.63m 402.0m Very weak quartz veining with only 30 cm. of quartz. Veins are generally 2-3 cm. wide and 70-80° to C.A. Veins have minor Po,Py and quartz-carbonate at best.							

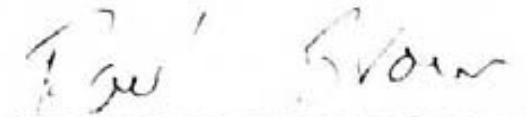
APPENDIX V

QUALIFICATIONS OF PAUL BROWN

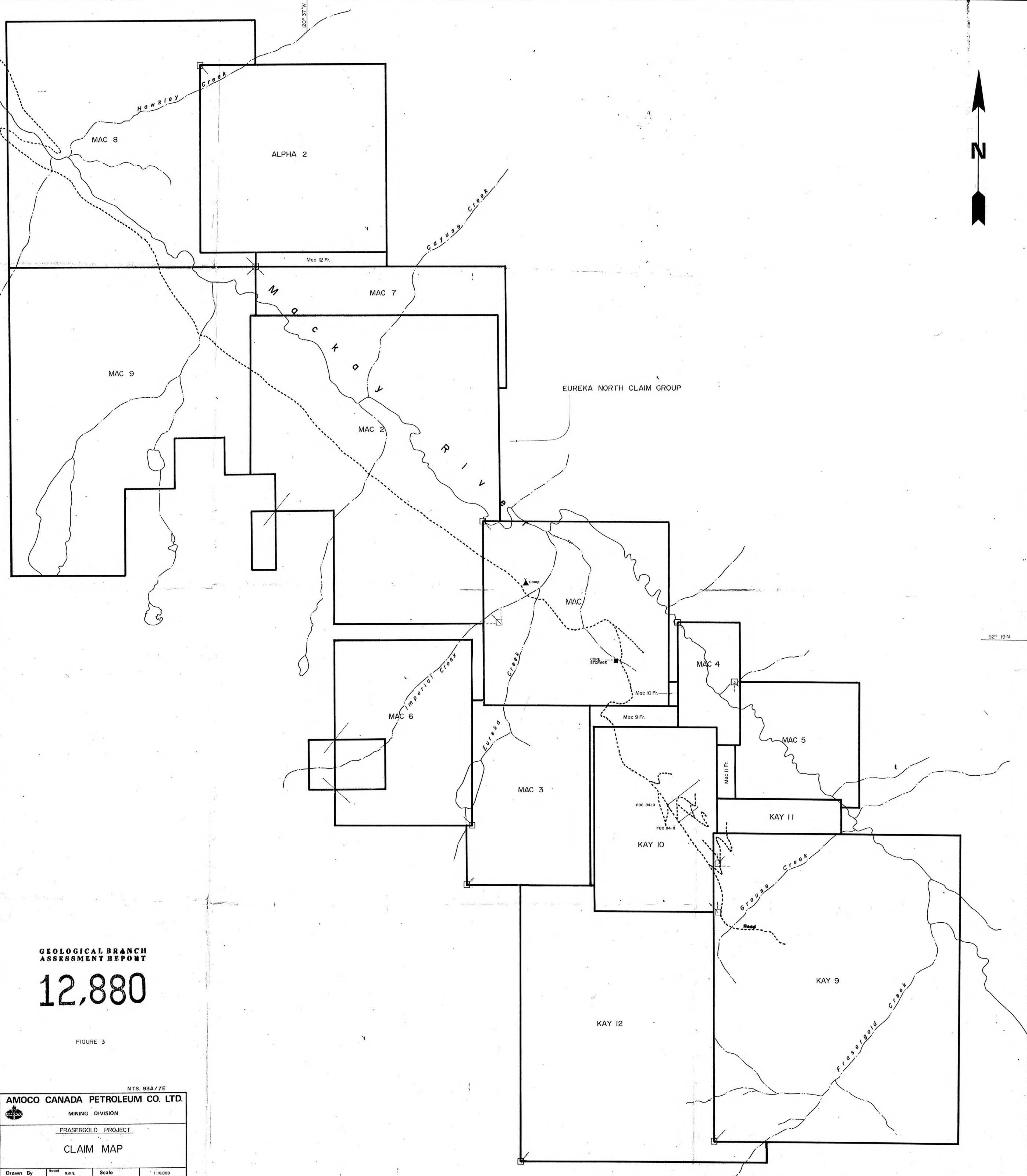
B.Sc. Geology, Memorial University of Newfoundland, 1974

Continuously employed in the mineral exploration industry since graduation and with Amoco Canada Petroleum, Company Ltd. since April 1975.

Member of the Geological Association of Canada and the Canadian Institute of Mining and Metallurgy.

A handwritten signature in cursive script that reads "Paul Brown". The signature is written in dark ink and is positioned above a horizontal line.

Paul Brown, B.Sc.



GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,880

FIGURE 3

NTS. 93A/7E

AMOCO CANADA PETROLEUM CO. LTD.

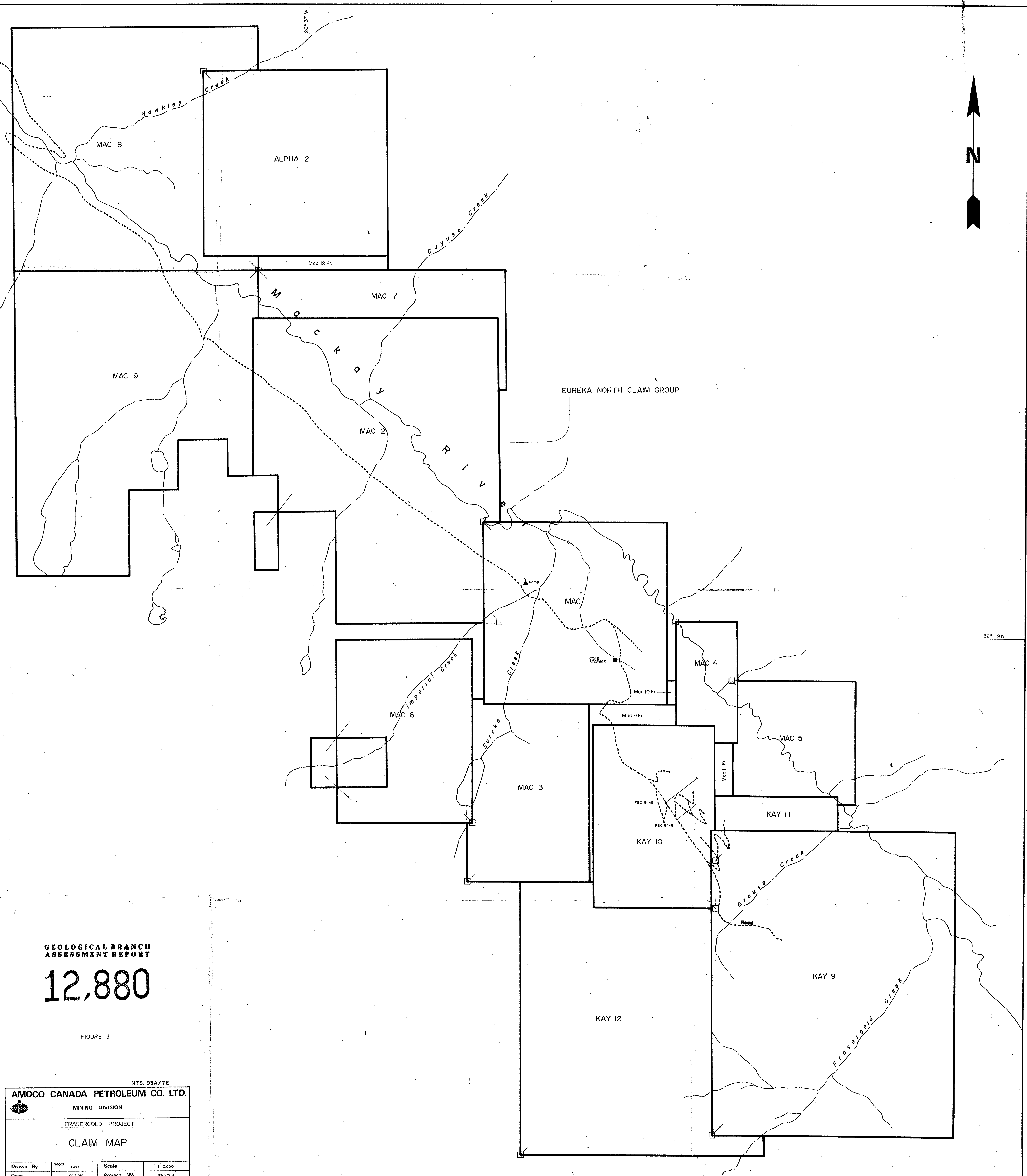


MINING DIVISION

FRASERGOLD PROJECT

CLAIM MAP

Drawn By	Revised	RWN	Scale	1:10,000
Date		OCT/84	Project No.	83C-004



GEOLOGICAL BRANCH
ASSESSMENT REPORT

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FIGURE 3

NTS. 93A/7E

AMOCO CANADA PETROLEUM CO. LTD.



MINING DIVISION

FRASERGOLD PROJECT

CLAIM MAP

Drawn By	Revised	RWN	Scale	1:10,000
Date		OCT/84	Project No	83C-004