

85-231-14279

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,279

04/86

REPORT ON TRENCHING AND
SAMPLING PROGRAM ON
THE TOMMY MINERAL CLAIM

ALBERNI MINING DIVISION
NTS 92F/2W

FILMED

located at

Latitude 49° 10.5' N Longitude 125° 24.3' W

by

T.W. SPILSBURY, M.Sc.
P.G. FOLK, P. Eng.
G. LOVANG, Prospector

of

TECK EXPLORATION LIMITED
1199 W. Hastings Street
Vancouver, B.C. V6E 2K5

for

INTERNATIONAL PHOENIX ENERGY CORPORATION
Suite 200
595 Hornby Street
Vancouver, B.C.

April, 1985

Vancouver, B.C.

14279
btehi

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SUMMARY

The recommended programme of trench sampling and soil geochemical follow-up proposed by T.W. Spilsbury in the report of September, 1984 has been carried out in three short programmes in October/November 1984 and February/March 1985. The trench sampling was completed in November, however, the investigation of geochemical targets could not be completed until March due to snowcover. Based on the data compiled to date, no potential drill targets have been found on the United Tommy Group of Mineral Claims.

Repeated trench sampling in the Adit area, which was considered the most promising for open pittable mineralization, failed to produce significant values. A possible downdip increase in vein widths or gold values is not considered likely. The total width of the explored fracture zone in the Adit area is approximately 70 metres. Veinlets occur both to the east and west of this zone and could best be exposed by bulldozer trenching. However, the chance of finding better grade material in these areas is not supported by the soil geochemistry and from the few exposure seen in the Adit and Walkout Creek areas where the density of the veinlets decreases away from the trenched area. No additional work in this area is therefore recommended at this time.

Elsewhere on the property high grade float and soil anomalies were traced to their various sources. In all cases the veins were gold-bearing but were of insufficient width or strike length to warrant further investigation.

LOCATION AND ACCESS

The Tommy Mineral Claim is located on the east side of Kennedy River about 33 km east of Ucluelet and 54 km west of Port Alberni.

Access to the property is via Highway No. 4 which passes through the claim.

PROPERTY DESCRIPTION

Tommy Mineral Claim is part of the United Tommy Group which also includes the Golden Gate and the Water Fall Mineral Claims. (Fig. 1 and 2)

Owner of the claims is W. Ejtel of Vancouver, B.C.

Claim data:

<u>NAME</u>	<u>RECORD NO.</u>	<u>EXPIRY DATE</u>
Tommy (16)	1029 (9)	Sept. 18, 1987
Golden Gate (6)	1035 (9)	Sept. 30, 1994
Water Fall (2)	1560 (12)	Sept. 07, 1994

GEOLOGY

The group is underlain by Middle or late Triassic Karmutsen volcanic rocks consisting predominantly of andsite flows or tuffaceous brecciated equivalents. These rocks are intruded by Jurassic-age Island Intrusions on the southeastern part of the property.

For more detailed description of the geology the reader is referred to T.W. Spilsbury's report of September 1984.

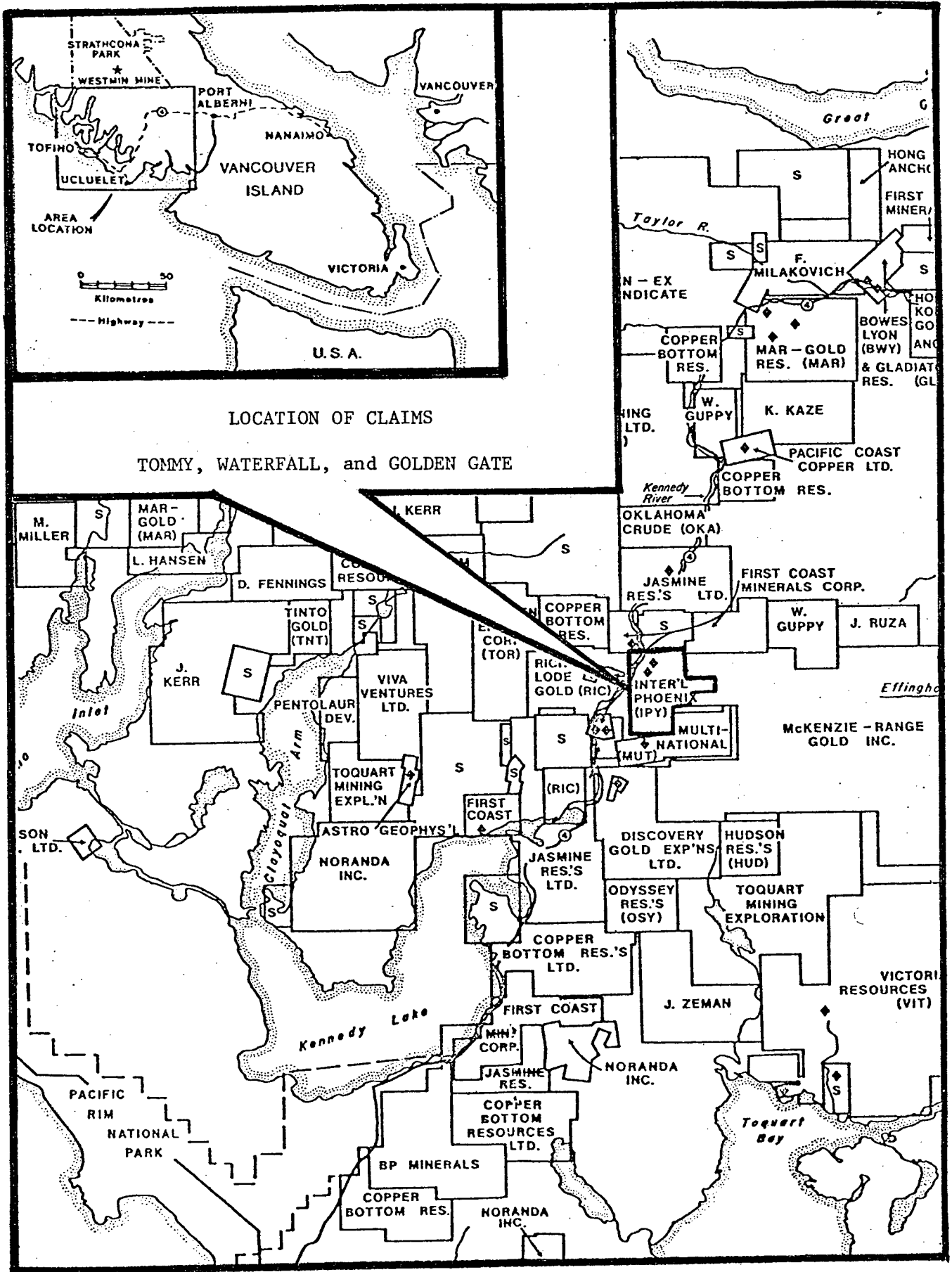
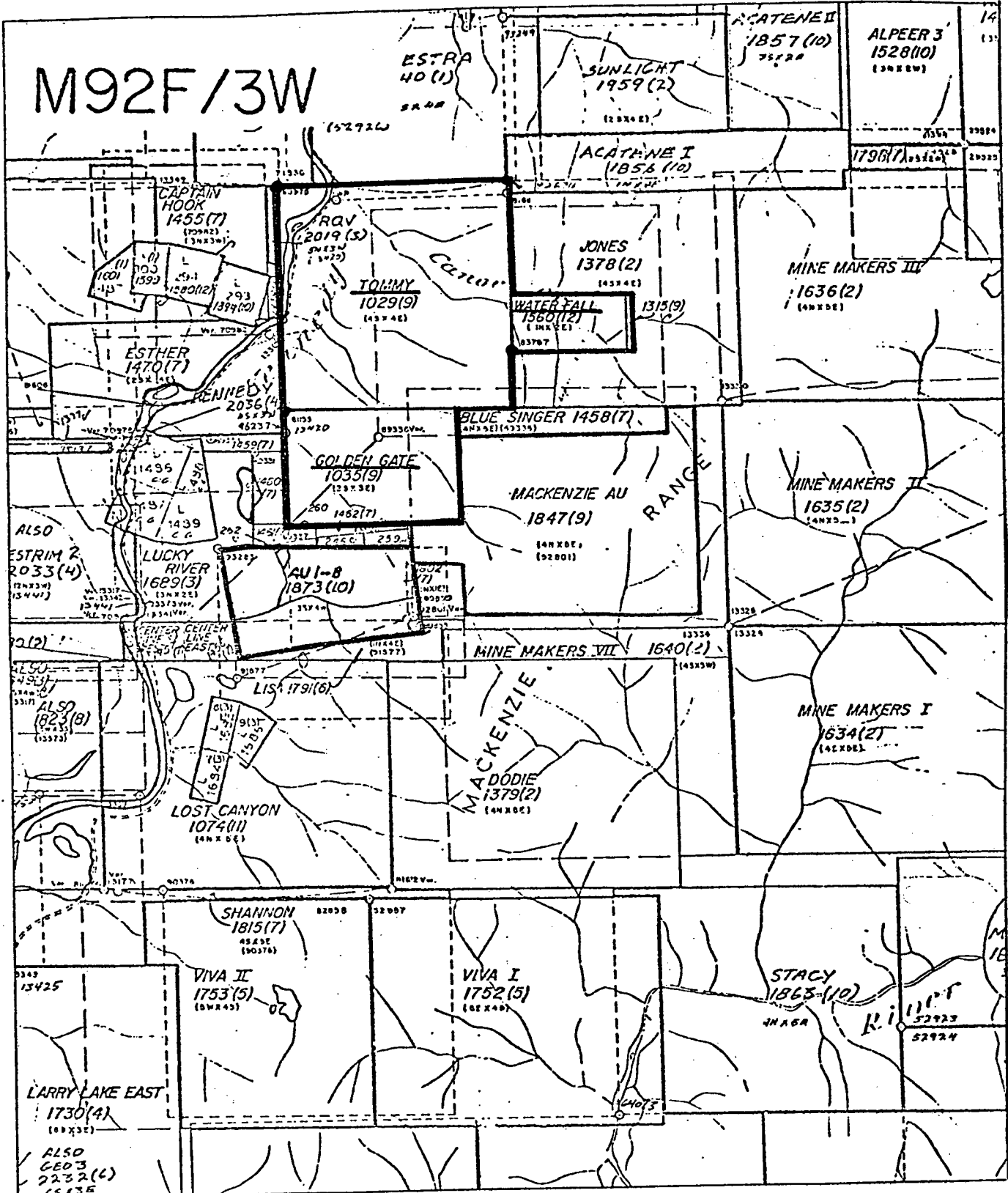


Fig. 1



CLAIM MAP

Fig. 2

TRENCH SAMPLING

A ten day programme of blasting and chip sampling was conducted in October, 1984 in the Adit area on the Tommy Mineral Claim by Peter Folk of Teck Explorations assisted by two helpers. In addition to previously sampled trenches, seven new cuts were made, namely trenches #5 to #11. This brings the total trench distance sampled to date to 140 metres.

A one week programme of check sampling by G. Lovang and R. Schneider of Teck Explorations was conducted in early November. All results of the trench sampling are shown on Figure 1 including the initial work performed in August/September 1984.

Although the zone of fracture controlled gold-bearing quartz veinlets extends for 2 km or more it was decided to concentrate work on the Adit area because of the more intense alteration and sulphide mineralization in the wall rocks and the greater density of veinlets. The initial programme involved drilling and blasting trenches to expose fresh rock prior to chip sampling. Forty-six samples totalling approximately 360 kilograms were taken at intervals of 2 to 3 metres. The samples were fire assayed by Min-En Laboratories and some reassayed by Acme Analytical Laboratories. Results were disappointing with the best value being 0.058 oz./ton gold over 2 metre and 0.081 oz./ton gold on reassay (Table I) in trench #4. Because the gold values are confined to narrow quartz veinlets it was decided to resample the better trenches (Nos. 3, 4 and 7) taking only the veinlet material and minimal wallrock. Sample widths were carefully measured and assay results were diluted to match the previous sample widths assuming the wallrock contains nil gold values. See Appendix II for calculation. The results (Figure 4 and Table I) are slightly lower than the original sampling. Therefore it was concluded that the original sampling was an accurate estimation of gold grades for the fracture zone and as such would not be economically viable at current gold prices.

TABLE I

Comparison of Trench Sample Assays

Trench # 3

	<u>Peter Folk</u> Oct., 1984 <u>oz/ton</u>	(re assays)	<u>G. Lovang</u> Nov., 1984 <u>oz/ton</u> (vein material only)
0-3M			0.001
3-6M	0.001		0.001
6-9M	0.001		0.001
9-12M	0.010	(0.001)	0.031
12-15M	0.001		0.001
15-18M	0.001		0.001
18-21M	0.001		0.001
21-24M	0.001	(0.001)	0.001

Trench #4

0-2M	0.001		0.001
2-4M	0.001		0.001
4-6M	0.004	(0.005)	0.003
6-8M	0.002	(0.008)	0.004
8-10M	0.010	(0.001) (0.003)	0.002
10-12M	0.004		0.001
12-14M	0.058	(0.081) (0.070)	0.029
14-16M	0.001		0.001
16-18M	0.026	(0.018)	0.017
18-20M	0.004		0.001
20-22M	0.034	(0.001) (0.012)	0.007
22-24M	0.001		0.031
26-28M	0.013	(0.018)	0.007

Trench #7

0-2M	0.009	(0.009)	0.028
2-4M	0.001		0.001
4-6M	0.001		0.020
6-8M	0.006	(0.021) (0.008)	0.002

SOIL GEOCHEMISTRY

Due to a heavy snowfall in early November, 1984, the detailed investigation of the Canoe Creek gold soil anomalies had to be postponed to March of 1985.

A zone of north easterly striking quartz veinlets similar in character to those of the Adit area was discovered in the area of L-7-E, L-8-E and L-9-E around 4+00 N to 5+00 N. The country rock is predominantly the same volcanic breccia observed in the Adit area. The few samples collected for assay shows the veinlets to be auriferous with the highest value at L-8+10-E, 4+25 N returning 0.741 oz/ton Au.

The anomaly on L-9-E at 1+50 N and 1 +75 N is also related to quartz veinlets. At this location the veinlets occur in a small quartz - feldspar porphyry plug. Weak gold soil anomalies on adjoining lines shows a north-easterly trend. Only one sample was collected, from the widest veinlet seen (4 cm) which returned 0.014 oz/ton Au.

These veinlets were also observed in the volcanic country rocks to the north. A sample collected at station 2+10 N assayed 0.066 oz/ton Au (width 1.3 cm).

No bedrock source was located for the high value on L-9-E and 1+00 S. The initial soil sample produced 3950 ppb Au. The repeat sample collected showed only 29 ppb Au.

A piece of quartz float found on L-11-E and 4+50 N assayed 0.653 oz/ton Au and is likely related to the soil anomaly of 4600 ppb also at this station. Two additional pieces of quartz float were found within a radius of 25 m of this station, the larger one measured 20 cm across and assayed 5.120 oz/ton Au. The source was traced to an 8 to 12 cm wide quartz vein striking N-60°-E and dipping 70° to the NW which outcrops uphill from the

float area. Two samples collected from the vein returned 0.288 and 0.378 oz Au/T.

The area of L-10-E and 5+25 N which returned a soil value of 450 ppb gold was checked, but not explained. A repeat soil sample was collected and returned 3100 ppb gold.

Locations and a brief description of samples collected are tabulated in Appendix III.

REPEAT SAMPLING

Several of the stations showing high gold values were resampled. The same excavations were used to collect the repeat sample. The original samples were analyzed by MIN-EN Laboratories while the repeat samples were run by Acme Analytical Laboratories (Table II). As can be expected in the geochemical environment on Vancouver Island the gold values show considerable variance, but do not affect the overall interpretation.

TABLE II
Repeat Soil Sampling

			Ag	As	Cu	Pb	Zn	Au (ppb)
L-8-E, 4+25N	M		1.2	0	23	0	11	20
	A		0.1	3	23	15	28	75
L-8-E, 4+50N	M		1.8	12	101	74	115	500
	A		17.4	5	113	334	146	2200
L-9-E, 1+00S	M		.0	0	4	5	15	3950
	A		.1	4	13	14	56	29
L-9-E, 0+50N	M		1.1	0	10	0	8	60
	A		0.1	6	10	27	93	12
L-9-E, 1+75N 1+80N	M		1.2	136	66	0	24	550
	A		0.4	2	38	3	57	2000
L-9-E, 4+00N	A		.1	2	8	11	15	10
L-9-E, 4+25N	M		.8	0	5	0	.1	1200
	A		.1	2	10	1	8	560
L-10-E, 5+25N	M		.0	31	25	7	23	450
	A		.4	6	41	15	47	3100
L-11-E, 4+50N	M		1.6	19	114	0	133	4600
	A		.3	4	16	22	24	920

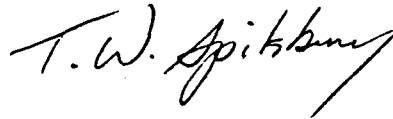
A = Acme Analytical Laboratories
M = MIN-EN Laboratories

CONCLUSIONS

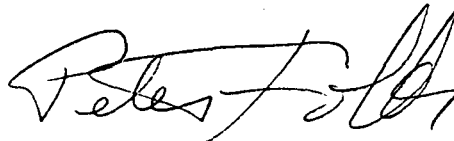
Repeated sampling of the trenches in the Adit area has not outlined any potentially economic values over mining widths.

The narrow veins, such as the one found near L-11-E and L-12-E between 4N and 5N and the vein system on the Water Fall claim, do not offer significant tonnage potential.

Respectfully submitted,



T. Wayne Spilsbury, M.Sc.



Peter G. Folk, P.Eng.



Gudmund Lovang, Prospector

Itemized Cost Statement

Period: September 26 to October 6, 1984

P. Folk, P.Eng.	
Sept. 26 to Oct. 6, 11 days @ \$190./day	\$2,090.00
Y. Bacon, Assistant	
Sept. 26 to Oct. 6, 11 days @ \$128./day	1,408.00
D. Nikirk, Assistant	
Sept. 26 to Oct. 6, 11 days @ \$88./day	968.00
Accommodation/Food	
Motel, total for 3 persons	302.47
Meals, \$25/day/person x 33 days	825.00
Travel expenses	89.51
Truck Rental/Ferry	348.50
Gasoline	346.56
Supplies	45.30
Explosives	142.08
Rental of Rock drill and steels	668.80
Communication (incl. Radio Rental)	215.18
Laboratory Cost	
46 Sample prep. @ \$3.03	139.38
61 assays (Au-Ag) @ \$7.43	<u>453.23</u>
	8,042.01

Itemized Cost Statement

Period: October 28 to November 6, 1984

T.W. Spilsbury, M. Sc.

Oct. 29 and Nov. 6, 2 days @ \$190./day \$ 380.00

G. Lovang, Prospector

Oct. 28 to Nov. 6, 10 days @ \$165.day 1,650.00

R. Schneider, Prospector

Oct. 28 to Nov. 6, 10 days @ \$110./day 1,100.00

Accommodation/Food

Motel, total for 2 persons 205.97

Meals, \$25/day/person x 20 days 500.00

Truck Rental/Ferry 281.00

Gasoline 107.07

Laboratory Cost

38 assays (Au-Ag) @ \$10.46 397.48

9 x 2 soil analyses (Au, Ag, As, Pb, Zn, Cu) @ \$11.60 208.80

4,830.32

Itemized Cost Statement

Period: February 25 to March 9, 1985

T.W. Spilsbury, M. Sc.
Feb. 25, 1 day @ \$190./day \$ 190.00

G. Lovang, Prospector
Feb. 25 to March 9, 13 days @ \$165./day 2,145.00

K. Pettersen, Prospector
Feb. 25 to March 9, 13 days @ \$110./day 1,430.00

Accommodation/Food

Motel, total for 2 persons 275.00
Meals, \$15/day/person x 26 days 390.00

Truck Rental/Ferry 327.00
Gasoline 190.00

Laboratory Cost

10 assays (Au,Ag) @ \$10.46 104.60

Drafting/Report Prep. 605.07

5,731.67

Sept./Oct. 1984 \$ 8,042.01

Oct./Nov. 1984 4,830.32

Feb./Mar. 1985 5,731.67

Total \$18,604.00

=====

CERTIFICATE OF QUALIFICATIONS


T. WAYNE SPILSBURY, M.Sc.

I, hereby certify that:

1. I am a graduate of the University of British Columbia (B.Sc. (Honors) Geology - 1973) and Queens University (M.Sc. Geology - 1982).
2. I have worked since graduation as an exploration geologist in Canada and the United States.
3. The work described within was done under my direct supervision.

April 4, 1985

Vancouver


T. Wayne Spilsbury, M.Sc.

CERTIFICATE OF QUALIFICATIONS


PETER G. FOLK, P.ENG.

I hereby certify that:

1. I am a graduate of the University of British Columbia in 1971 with a B.A.S.C. degree in geological engineering.
2. I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.
3. I have worked since graduation as an exploration geologist and mine geologist in Canada and the United States.
4. The work described herein from September 26 to October 6, 1984 was done under my direct supervision.

April 4, 1985

Vancouver



Peter G. Folk, P.Eng.

STATEMENT OF QUALIFICATIONS

Gudmund Lovang
1132 Semlin Drive
Vancouver, B.C. V5L 4K2

1970-1985: Mineral Exploration and Prospecting in British Columbia, Yukon, North West Territories, Ontario and Western United States for Teck Corporation and associated companies.

1984-1985: Geochemistry Course, University of British Columbia, "EXPLORATION GEOCHEMISTRY".

1974: Geophysical Course, British Columbia Institute of Technology.

1973-1974: Geology Course, British Columbia Institute of Technology, "General Interest Geology"

1973: Prospecting Course, British Columbia Institute of Technology, "Introduction to Geology and Prospecting".



Gudmund Lovang, Prospector

APPENDIX I

ASSAY CERTIFICATES FOR OCTOBER/NOVEMBER AND MARCH
SAMPLING PROGRAMS

ACME ANALYTICAL LABORATORIES LTD.
352 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 TELEX 04-53124

DATE RECEIVED: OCT 9 1984

DATE REPORT MAILED: *Oct 11/84*

ASSAY CERTIFICATE

- SAMPLE TYPE: ROCK CHIPS AU** AND AG** BY FIRE ASSAY

ASSAYER: *D. J. [Signature]* DEAN TOYE. CERTIFIED B.C. ASSAYER

TECK EXPLORATION PROJECT # 1329 FILE # 84-2938 PAGE 1

SAMPLE#	Ag** oz/t	Au** oz/t
22001	.02	.001
22002	.03	.001
22003	.05	.010
22004	.01	.001
22005	.02	.001
22006	.01	.001
22007	.03	.001
22008	.01	.001
22009	.01	.001
22010	.01	.001
22011	.02	.001
22012	.01	.010
22013	.02	.001
22014	.50	.108
22015	.03	.001
22016	.03	.001
22017	.03	.001
22018	.04	.003
22019	.06	.001
22020	.02	.001
22021	.02	.006
22022	.03	.001
22023	.03	.001
22024	.14	.009
22025	.01	.011
22026	.03	.009
22027	.02	.001
22028	.05	.058
22029	.04	.004
22030	.01	.010
22031	.05	.026
22032	.04	.013
22033	.01	.001
22034	.02	.001
22035	.03	.034
22036	.04	.004

SAMPLE#	Ag** oz/t	Au** oz/t
22051	.07	.001
22052	.02	.001
22053	.01	.004
22054	.02	.022
22055	.01	.004
22056	.24	.260
22057	.01	.001
22058	.01	.004
22059	3.48	6.200
22060	1.00	1.250
22007A	.02	.001
22014A	.39	.210
22021A	.01	.021
22028A	.04	.081
22035A	.01	.001
22057A	.01	.001

A - Resample from Rejects.

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: (604)253-3158 COMPUTER LINE:251-1011

DATE RECEIVED OCT 15 1984

DATE REPORTS MAILED

Oct 19/84

ASSAY CERTIFICATE

SAMPLE TYPE : REJECT

Special "50 gram" Au Assay

ASSAYER *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

TECK EXPLORATION PROJECT# 1329 FILE# 84-2938B R

PAGE# 1

SAMPLE	Au oz/t
22003	.001
22012	.002
22014	.055
22015	.005
22018	.280
22021	.008
22024	.009
22025	.013
22026	.008
22030	.001
22031	.018
22032	.018
22035	.012
22053	.005
22054	.008
22055	.003
22056	.219
22058	.001

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: 04-352828

GEOCHEMICAL ANALYSIS CERTIFICATE

COMPANY: TECK EXPLORATIONS
PROJECT: 1329
ATTENTION: B. LOVANG

FILE: 4-1540
DATE: NOV. 29/84
TYPE: PULP GEOCHEM

We hereby certify that the following are the results of the geochemical analysis made on 9 samples submitted.

SAMPLE NUMBER	AS PPM	AU-FIRE PPB
L9E0+50N	2	43
1+80N	<1	2850
4+00N	<1	5
4+25N	<1	36
L11E-4+50N	<1	4500
L10E5+50N	1	475
L9E0+50S	1	4
L8E4+25N	<1	25
L8W4+50N	<1	650

Certified by



COMPANY: TECK EXPLORATIONS

MIN-EN LABS ICP REPORT

(ACT:GEO38) PAGE 1 OF 1

PROJECT No: 1329

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE No: 4-1540

ATTENTION: B. LOVANG

(604)980-5814 OR (604)988-4524 *TYPE FULP SEDCHEN*

DATE: NOVEMBER 29, 1984

REPORT VALUES IN PPM	AG	AS	CU	PB	ZN
L9E 0+50N	.0	12	15	14	25
L9E 1+50N	1.3	0	31	8	37
L9E 4+50N	.1	0	12	2	16
L9E 4+25N	2.0	0	9	0	2
L11E 4+50N	2.2	0	16	16	9
L10E 5+50N	.9	0	40	17	40
L9E 0+50S	.0	14	17	13	58
L8E 4+25N	1.5	0	20	2	12
L8W 4+50N	36.3	0	110	283	131

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: (604)253-3158 COMPUTER LINE:251-1011

DATE RECEIVED NOV 6 1984

DATE REPORTS MAILED Nov 13/84

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE TYPE : ROCK - CRUSHED AND PULVERIZED TO -100 MESH. P.2 - SOIL
Au**, Pd, Pt - 10 GM FIRE ASSAY CONCENTRATION, HNO3 LEACHED,
AQUA REGIA DIGESTION, GRAPHITE FURNACE AA ANALYSIS.

ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

TECK EXPLORATION PROJECT# 1329 FILE# 84-3261 PAGE# 1

SAMPLE	Ag ppm	Au** ppb	Au** oz/t	Au** gm/t
001	--	935	--	--
002	--	30	--	--
003	--	1250	.035	1.20
004	--	145000	5.120	175.30
005	--	22400	.741	25.40
006	--	74	--	--
007	2	18	--	--
008	--	140	--	--
009	--	1300	.037	1.25
010	--	1810	.051	1.75
011	--	3220	.098	3.35
012	--	1400	.043	1.50
013	--	360	--	--
014	--	12100	.325	11.15
015	--	515	--	--
016	--	21500	.692	23.70
017	--	380	--	--
018	--	4050	.114	3.980
020	--	37700	1.150	39.45
021	--	7500	.220	7.55
022	--	1550	.046	1.60
023	--	20500	.615	21.10
024	--	8900	.273	9.35
025	--	1600	.045	1.55
026	--	17800	.544	18.65
027	--	2100	.063	2.15
028	--	810	--	--
029	--	480	--	--
030	--	2150	.066	2.25
031	--	15	--	--
032	--	81	--	--
033	--	210	--	--
034	--	1450	.046	1.60
035	--	330	--	--
036	--	64	--	--
037	--	28	--	--
038	--	76	--	--

TECK EXPLORATION

PROJECT # 1329

FILE # 84-3261

PAGE 2

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au** ppb	Ph
L-9-E 0+50N	10	27	93	.1	6	12	4.2
L-9-E 1+80N	38	3	57	.4	2	2000	4.3
L-9-E 4+00N	8	11	15	.1	2	10	3.9
L-9-E 4+25N	10	1	8	.1	2	560	4.3
L-11-E 4+50N	16	22	24	.3	4	920	4.2
L-10-E 5+50N	41	15	47	.4	6	3100	4.0
L-9-E 0+50S	13	14	56	.1	4	29	3.6
L-8-E 4+25N	23	15	28	.1	3	75	4.3
L-8-W 4+50N	113	334	146	17.4	5	2200	4.5
STD C	58	40	127	6.8	40	-	-

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 TELEX 04-53124

DATE RECEIVED: MAR 11 1985

DATE REPORT MAILED: *March 18 1985*

ASSAY CERTIFICATE

SAMPLE TYPE: ROCK CHIPS AU** AND AG** BY FIRE ASSAY

ASSAYER: *T. Saundry* DEAN TOYE OR TOM SAUNDY. CERTIFIED B.C. ASSAYER

TECK EXPLORATION PROJECT # 1329 FILE # 85-0236 PAGE 1

SAMPLE#	Ag** oz/t	Au** oz/t	As %
12020	.02	.001	-
12021	.01	.001	-
12022	.03	.084	-
12023	.01	.001	-
12024	.01	.001	.01
12025	.01	.001	.01
12026	.01	.009	-
12027	.24	.216	.01

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 TELEX 04-53124

DATE RECEIVED: MAR 19 1985

DATE REPORT MAILED: *Mar. 26/85..*

ASSAY CERTIFICATE

SAMPLE TYPE: ROCK CHIPS AU** AND AG** BY FIRE ASSAY

ASSAYER: *A. Lopez* DEAN TOYE OR TOM SAUNDY. CERTIFIED B.C. ASSAYER

TECK EXPLORATION

FILE # 85-0271

PAGE

SAMPLE#	Cu %	Pb %	Ag** oz/t	Au** oz/t
12028	.12	.32	.63	.288
12029	.03	.16	.67	.378

APPENDIX II

Table of November Trench Sampling

Sample No.	Location in trench, (meter)	Width of Veins (meter)	Cumulative Sample Width	Wall Rock Not Sampled	Assay Value oz/ton	W x A	Average Value oz/ton Au	Number of Veinlets
TRENCH #1								
022	0-2	0.072	0.127	1.873	.046	.00584	.003	7
TRENCH #3								
032	-0.3-3	0.085	0.135	2.865	.002	-	.001 over 3.3m	4
033	3-6	0.071	0.130	2.870	.006	-	.001 over 3m	4
034	6-9	0.035	0.055	2.945	.046	.00253	.001 over 3m	3
023	9-12	0.060	0.151	2.849	.615	.092865	.031 over 3m	3
035	12-15	0.060	0.075	2.925	.009	-	.001 over 3m	4
036	15-18	0.022	0.065	2.935	.001	-	.001 over 3m	3
037	18-21	0.009	0.070	2.930	.001	-	.001 over 3m	3
038	21-24	0.022	0.063	2.937	.001	-	.001 over 3m	3
TRENCH #4								
008	0-2	0.016	0.035	1.965	.027		.001 over 2m	2
009	2-4	0.019	0.032	1.968	.037	.001184	.001 over 2m	3
010	4-6	0.049	0.113	1.887	.051	.005763	.003 over 2m	4
011	6-8	0.025	0.086	1.914	.098	.008428	.004 over 2m	3
012	8-10	0.008	0.090	1.910	.043	.00387	.002 over 2m	2
013	10-12	0.038	0.075	1.925	.101	-	.004 over 2m	2
014	12-14	0.085	0.179	1.821	.325	.05875	.029 over 2m	5
015	14-16	0.005	0.010	1.990	.015	-	.001 over 2m	1
016	16-18	0.040	0.050	1.950	.692	.0346	.017 over 2m	2
017	18-20	0.070	0.050	1.950	.011	-	.001 over 2m	4
018	20-22	0.043	0.120	1.880	.114	.01368	.007 over 2m	3
019	22-24			No Veins			.001 over 2m	0
020	24-26	0.040	0.060	1.940	1.150	.069	.034 over 2m	1
021	26-28	0.032	0.060	1.940	.220	.0132	.007 over 2m	2
TRENCH #7								
024	0-2	0.200	0.205	1.795	.273	.0559	.028 over 2m	2
025	2-4	0.018	0.045	1.955	.045	.0020	.001 over 2m	3
026	4-6	0.041	0.075	1.925	.544	.0408	.020 over 2m	3
207	6-8	0.045	0.050	1.950	.063	.00315	.002 over 2m	2

APPENDIX III

Rock Sample Description and Assays

<u>Sample No.</u>	<u>Location and Description</u>	<u>Assay</u>
001	L-8+10-E, 4+50 N Float, 2.5 cm quartz vein, gn - py - cpy	0.027
002	L-8+20-E, 4+25N 1.2 cm wide shearzone with several quartz stringers in volcanic breccia. Sample from 5 cm wide quartz vein. Strike north easterly, dip vertical	0.001
003	L-9+00-E, 4+25N, volcanic breccia Sample from 2 rusty stringers 2 cm and 2.5 cm, no visible sulphides	0.035
004	L-10+00-E, 4+25 N Float, 20 cm wide piece of quartz with minor pn - cpy	5.12
005	L-8+10-E, 4+25 N. Volcanic breccia with 5 cm quartz vein. Rusty ruggy quartz. No visible sulphides	0.741
006	L-10+25-E, 5+50 N. Andesite with 2.5 cm wide non-mineralized quartz vein	0.002
007	L-9-E, 100 m east of Canoe up the sidestream. Disseminated po in breccia (No quartz)	0.001
028	L-8-E, 4+25 N. Sheared andesite breccia in sub-outcrop breccia, several quartz stringers mineralized, also stringer of py 5 mm grab	0.023
029	L-9-E, 1+50N Feldspar porphyry plug with quartz veins striking north easterly, no visible sulphides. Maximum size of quartz veins 4 cm (sample)	0.014
030	L-9-E, 2+10 N. Andesite with 1.3 cm quartz vein, rusty, strike north easterly	0.066
031	L-8+50-E, 3+50 N. Andesite with 15 cm wide shear with 2 cm quartz vein, py	0.000

<u>Sample No.</u>	<u>Location and Description</u>	<u>Assay (oz Au/ton)</u>
12020	L-5+80-E, 8+50 N. In Canoe Creek on North side. Four cm wide quartz-carbonate vein in small shear in andesite breccia. Strike N-19°-W, dip vertical vein is barren	0.001
12021	L-7+60-E, 7+100 N. In Canoe Creek immediately below large waterfall on south canyon wall. Composite sample from three parallel quartz veinlets up to 2.5 cm in width. Strike N-45°-E, dip 85° NW. Veins have rust appearance. Minor cpy-po.	0.001
12022	4 m NW of sample #12021 Veins is 7.5 cm wide, strikes N-14°-E and dip 85° E. Sample is from South Canyon wall. Vein contains minor cpy-po In all, ten veinlets occur over a width of 7 metres including sample 12021 on the South Wall. The North Side of the stream displays secondary alteration as discontinuous hairline quartz veinlets and secondary chlorite in brecciated andesite.	0.084
12023	8 m NW of sample 12022. 1-3 cm wide barren quartz vein. Strike N-32°-E, dip 75° NW.	0.001
12024	L-7-E, Z-60 S. Silicified volcanic rock from east-west fault zone in adit creek. Chip sample over 3.3 m; minor Po-Py	0.001
12025	L-8-E, 6+70 N. In Canoe Creek above waterfall on North Canyon wall. 10 cm wide rusty seam with massive po. Some hairline quartz in sulphide. Strike N-32°-E, dip vertical	0.001

12026	L-7+90-E, 6+75 N 10 m NW of sample 12025. 2.5 cm wide rusty quartz vein. Strike N-48°-E, dip 80° NW. Minor cpy-py	0.009			
12027	5m NW of sample 12026 on north bank of Creek. 1.3 cm wide quartz vein with heavy cpy. Strike N-56°-E, dip vertical	0.216			
12028	L-12+25-E, 5+25 N, 8 cm Rusty quartz vein with gn-cpy. Strike N-60°-E, dip 70° NW	<table border="0"> <thead> <tr> <th style="text-align: left;">Au - Ag - Cu - Pb</th> </tr> <tr> <th style="text-align: left;">oz/t oz/t % %</th> </tr> </thead> <tbody> <tr> <td style="text-align: right;">0.288-0.63-0.12-0.32</td> </tr> </tbody> </table>	Au - Ag - Cu - Pb	oz/t oz/t % %	0.288-0.63-0.12-0.32
Au - Ag - Cu - Pb					
oz/t oz/t % %					
0.288-0.63-0.12-0.32					
12029	L-11+50-E, 4 + 85 N Subcrop of vein exposed at sample site 12028. Width of vein is 10 cm gn-cpy	0.378-0.67-0.03-0.16			

LEGEND

JURASSIC

ISLAND INTRUSIONS

- 5 FELSITE - fine grained quartz feldspar dykes and irregular bodies.
- 4 QUARTZ FELDSPAR PORPHYRY - milky anhedral feldspar phenocrysts and glassy quartz in light green siliceous matrix.
- 3 BIOTITE GRANITE - equigranular to porphyritic.

MID TO LATE TRIASSIC

KARMUTSEN FORMATION

- 2 ANDESITE - mottled light to dark green massive locally porphyritic with milky anhedral feldspar crystals. a) Hornfelsed andesite.
- 1 VOLCANIC BRECCIA - angular to sub-rounded olive to dark green fragments in a chloritic matrix.

GEOLOGICAL SYMBOLS

- Limit of geologically mapped outcrop.
- Geological Boundary (definite, approximate, assumed)
- Fault (definite, approximate, assumed)
- Joints (inclined, vertical)
- VEINS**
- Au (oz. per ton) / width (metres)
- Veins - quartz, carbonate, and/or sulphide healed (inclined, vertical)
- Isolated vein at least .5 metre thick.
- Area of parallel quartz, carbonate, sulphide vein development. Number of quartz veinlets per metre.
- Area of secondary alteration - as discontinuous fine quartz veinlets and secondary chlorite.
- Adit
- Open cut

ABBREVIATIONS

- cpy Chalcopyrite
- dis Disseminated
- ga Galena
- LCP Legal Corner Post
- py Pyrite
- po Pyrrhotite
- sph Sphalerite
- qtz Quartz
- gf Graphite

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,279

FIGURE 3

**TECK EXPLORATIONS LIMITED
INTERNATIONAL PHOENIX ENERGY CORP.**

GEOLOGY MAP

0 100 200 300 400 500
METRES

SCALE: 1:5000 DATA BY: R. DURFELD DRAWN BY: D.SANTOS DATE: SEPT 1984 REVISION: MAR. '85/G.L.

