

87-488-16183

GEOLOGICAL REPORT
ON
CHUCK CLAIMS
NEW WESTMINSTER MINING DIVISION

92H 4E

Long. $121^{\circ}37'W$
 $36'42''$

Lat. $49^{\circ}04'N$

August 10, 1987

FILMED

Owner: G. Yakimishyn

Operator: Pierce Mountain Resources *Ltd.*

By:

Jonathan W. George
Consulting Geologist

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

16,183

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INTRODUCTION

General

Field work was carried out on the Chuck Claims between March 17th to June 9th by the author and the prospector/owner of the property, Gerald Yakimishyn.

Geological mapping, prospecting, and geochemical sampling was undertaken to assess the gold potential of the claims.

Locations and Access

The Chuck 1 and Chuck 2 claims are located 7 km southeast of Chilliwack, B.C. on the south side of Chilliwack River, (Fig. 1), in the New Westminster Mining Division (94H/4E).

Access is via Highway #1 east, then along the Chilliwack Lake Road for approximately 32 km. The property is bounded on the east by Nesakwatch Creek and on the west by Pierce Lake. Much of the lower elevations are accessible by logging roads, however, upper elevations require helicopter assistance.

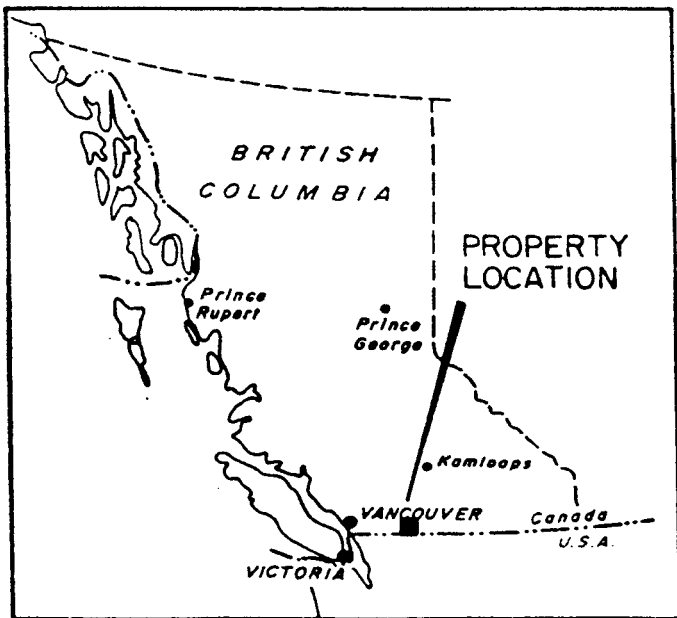
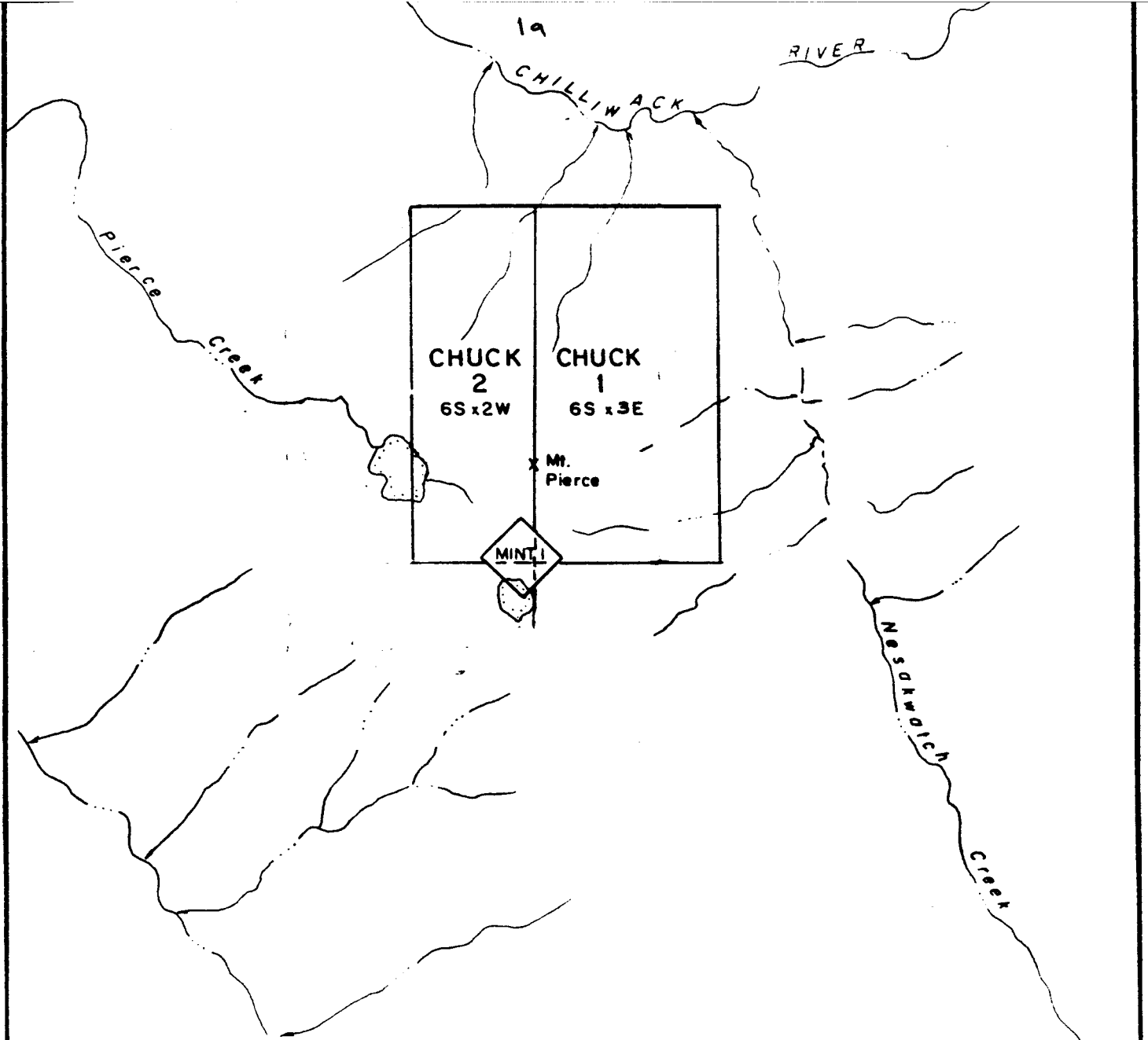
Physiography

The claims are located in the Skagit Range of the Chilliwack mountains. Topography varies from moderately steep hills at lower elevations, covered with dense forests of cedar, hemlock, and fir, to higher elevations where typical alpine vegetation prevails.

Property and Claim Status

The Chuck 1 and Chuck 2 claims consist of 30 units which are held under an option to purchase by Pierce Mountain Resources Ltd. The claims are owned by Mr. Gerald Yakimishyn, prospector.

<u>Claim</u>	<u>Units</u>	<u>Record No.</u>	<u>Expiry Date</u>
Chuck 1	18	2124	June 17, 1988
Chuck 2	12	2125	June 17, 1988



PIERCE MOUNTAIN RESOURCES LTD.		
MT. PIERCE PROPERTY		
LOCATION MAP		
NTS 92H4E	NEW WESTMINSTER M.D., B.C.	
0 1 2 3 KM.		
J. GEORGE GEOLOGICAL		
SCALE 1:50,000	AUG 1987	FIGURE 1

J.S.

History and Previous Work

The claim group was originally known as the Pierce Mountain Group. The group of claims are discussed by Daly in Minister of Mines Report for 1915. The claims were credited with free-milling gold valued at \$40/ton in 1915. The report notes several open cuts and a 90' shaft.

Galloway in B.C. Dept. of Mines Bulletin #1 (1932) notes assays in gold up to \$70 to the ton.

Recent work on the claims consisted of trenching and rock sampling.

The claims are now under option to Pierce Mountain Resources Ltd. of Vancouver, B.C., who also have recently staked 51 other contiguous units in the area.

EXPLORATION PROCEDURE

The 1987 field program consisted of geological mapping, geochemical stream sediment samples, prospecting and sampling of existing workings.

Geological mapping was carried out at a scale of 1:10,000. A total area of 16 sq. km was mapped. Prospecting was carried out over portions of the entire 30 claims and beyond.

Stream sediment samples were carried out on the upper portions of streams and tributaries between 4,500'-5,000' level. These samples were analyzed for copper, arsenic, and +80 mesh and -80 mesh gold, submitted to Acme Analytical Laboratories of Vancouver for assay.

Gold was analyzed by Atomic Absorption using a 10 gram sample.

Copper and arsenic were assayed using a .500 gram sample digested with 3-1-2 HCL-HNO₃-H₂O at 95°C.

A total of 14 stream sediment samples were gathered and analyzed.

A total of 22 rock samples were gathered and analyzed by ICP and Fire Assay for gold.

GEOLOGY

The claim area is located along the Chilliwack Batholith, with highly metamorphosed gabbros, serpentinites, argillites. Granodiorite intrude these metasediments throughout the area, (Fig. 2).

Gabbroic rocks are green to dark green in outcrop with well-defined phenocrysts and a hard crystalline texture and probably correlate with the yellow aster complex (Misch, 1966).

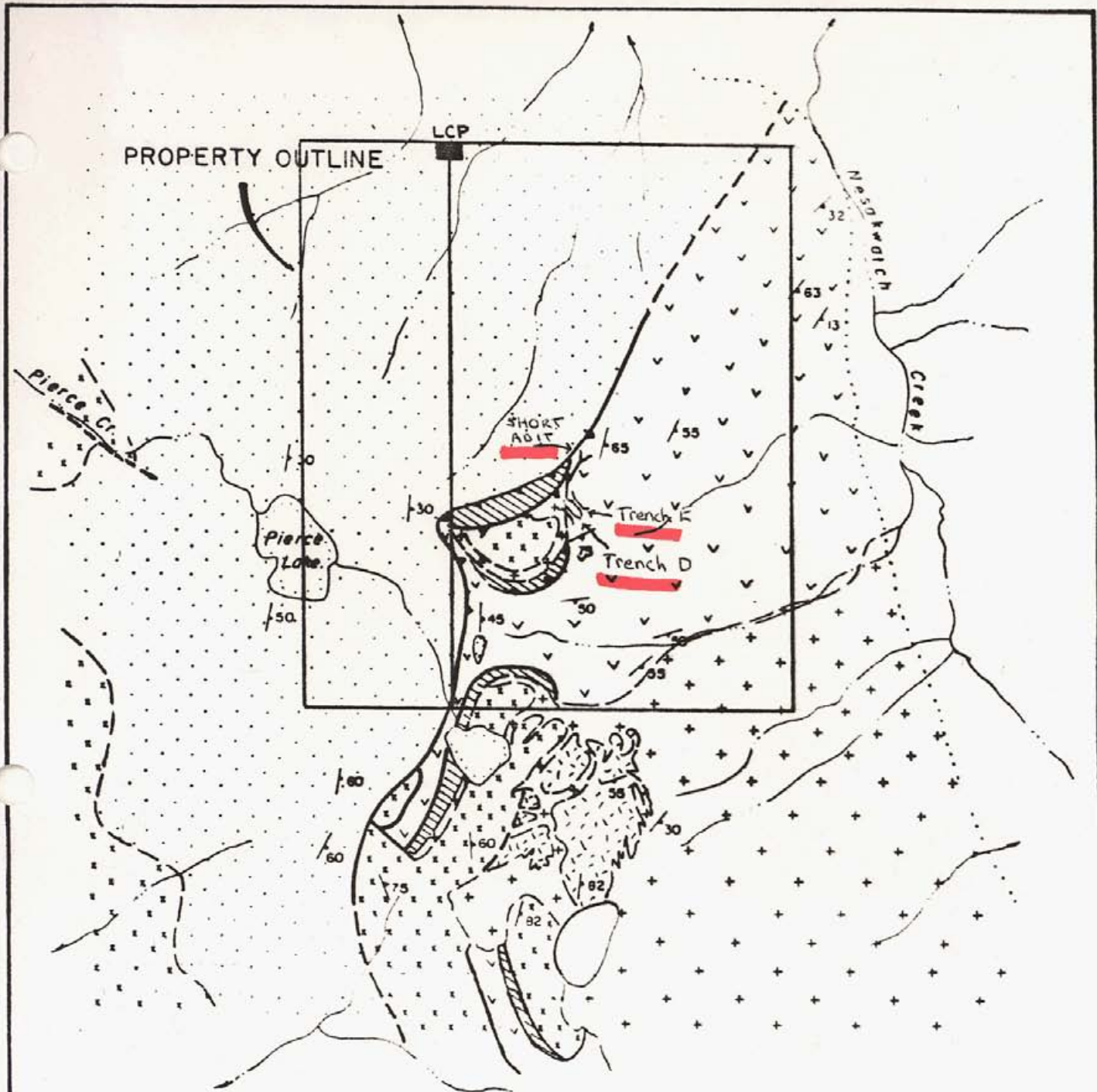
Serpentinites are found in close association with the gabbros. These rocks are orange to rust brown in outcrop and dark green to black where fresh.

Argillites are found structurally below the gabbros and serpentinites and are correlated with the shaksan suite. Many of these argillites have been altered to dark green-grey hornfelses or sehists with abundant biotite and sericite.

Tertiary granodiorites have intruded the entire area and presumably give rise to the ore-bearing quartz veins which transverse the property.

STRUCTURE

The lithologic units have been juxtaposed by a high-angle, eastward dipping fault. This structure has brought older crystalline gabbros and serpentinites over younger metasedimentary argillites. Faulting appears to have taken place prior to the intrusion of the batholith.



LEGEND

- Tertiary intrusive
- Cultus Fm.
- Shuksan suite
- Chilliwack Group
- Yellow Aster Complex
- Serpentinite
- Geological contact
- Fault
- Thrust fault
- Bedding



PIERCE MOUNTAIN RESOURCES LTD.		
MT. PIERCE PROPERTY		
PROPERTY GEOLOGY		
N.T.S. 92H-4E		NEW WESTMINSTER M.D.
		2 KM.
J. GEORGE GEOLOGICAL		
SCALE 1:31,680	AUG. 1987	FIGURE 2

MINERALIZATION

Mineralization consists of quartz veins and stringers along the contact between serpentinites and gabbros. Presumably pre-instrusive faulting allowed a zone of least resistance for quartz to form with associated mineralization. The veins strike in a northeasterly direction and dip 65° to 80° to the northwest.

In the short adit (Fig. 3) a quartz vein is exposed, varying in width from 8 cm to 20 cm. Pyrrhotite, chalcopyrite and small amounts of arsenopyrite are evident.

Four rock chip samples were taken and sent for assay for gold by Atomic Absorptions.

Results are as follows: (values have been converted to ounces per ton using 34 ppb = 0.001 oz/ton).

<u>Sample No.</u>	<u>Width(m)</u>	<u>Au PPb (oz/ton)</u>	<u>Description</u>
RSP-001	.17	23200 (.682)	Vein
RSP-002	.06	3680 (.108)	"
RSP-003	.09	12 -	Wallrock
RSP-004	.20	18400 (.541)	Vein

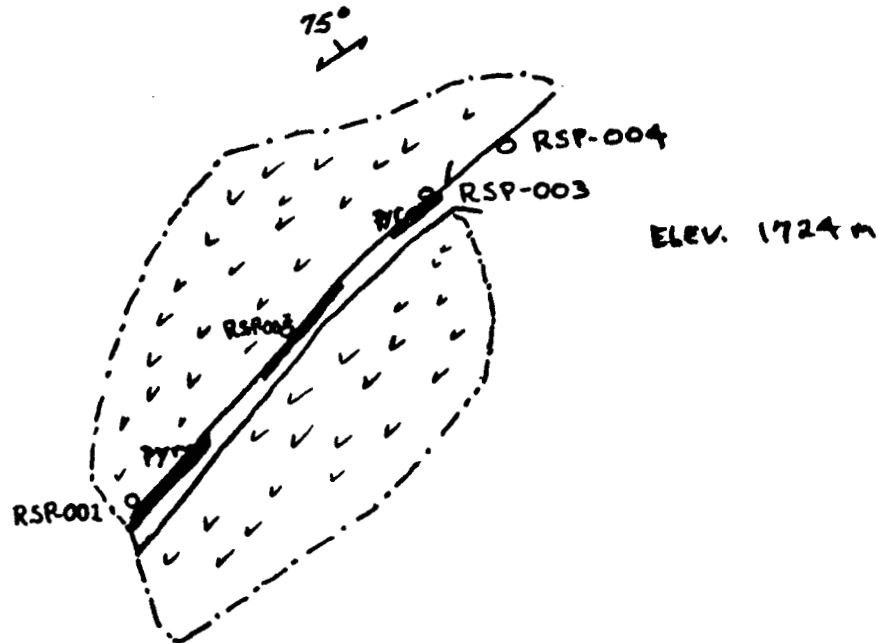
Between the time of working and this report a rich sample taken from the quartz vein in the adit assayed 2.72 oz/ton gold.

Trench "D" is 10 m in length and cuts through crystalline argillite, and a quartz vein which varies in width from 20-51 cm. Three rock chip samples were taken with negligible results when assayed for gold (Fig. 4).

Trench E, located 5 metres northeast of Trench D, is 8 metres in length and again cuts through argillite and coarse crystalline milky white quartz. Three rock chip samples of the quartz vein were taken, and assayed for gold and icp with negligible results.

SAMPLE PLAN

Sample No	Width(m)	Au PPb (GR/TON)	Description
RSP-001	.17	23,200 (.682)	VEIN
RSP-002	.06	3,680 (.180)	"
RSP-003	.09	12 -	Wallrock
RSP-004	.20	18,400 (.571)	VEIN



LEGEND

- GABBRO (Yellow Aster Complex)
- Quartz Vein
- Adit
- o/c boundary
- Pyrrhotite
- Sample Location

PIERCE MOUNTAIN RESOURCES
 GEOLOGY & SAMPLE PLAN
 SHORT ADIT

0 10 20 30 m
 SCALE 1:500

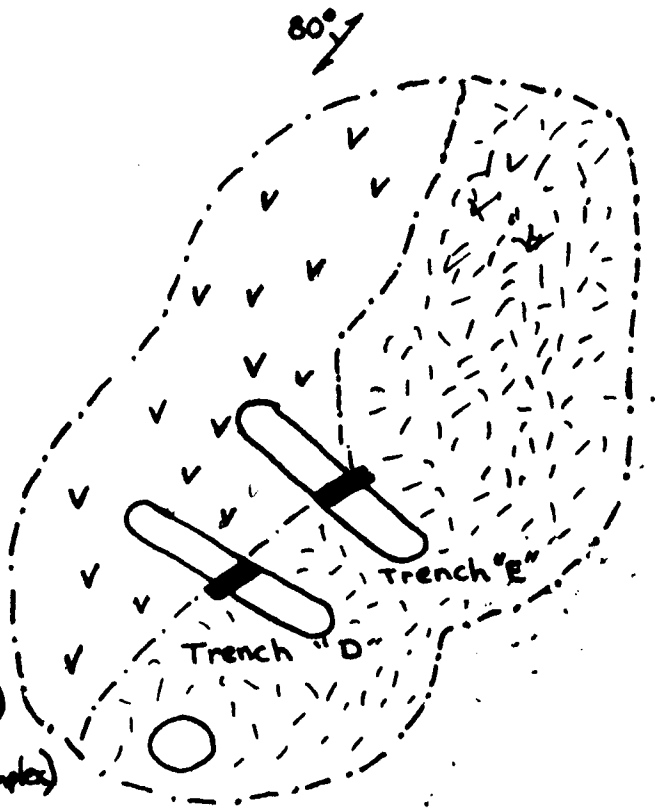
AUG 87 J. GEORGE NTS 92H4E

FIG. 3

J. J.

SAMPLE PLAN

N/A (SEE TEXT)



ELEV. 1696 m.

LEGEND

- Argillite (shukSan Suite)
- Gabbro (Yellow Aster Complex)
- Quartz Vein
- Trench
- Pit
- o/c boundary
- Geological Contact

D.J.

PIERCE MOUNTAIN RESOURCES

GEOLOGY & SAMPLE PLAN
TRENCH D & E

0 10 20 30 m.
SCALE 1:500

AUG 87. S. GEORGE NTS 92H/4E

FIG 4

STREAM SEDIMENT SAMPLING

A total of 14 stream sediment samples were gathered and analyzed for copper, arsenic, and +80 mesh, -80 mesh gold, (see Fig. 5).

Results of this sampling are as follows:

<u>Sample #</u>	<u>Location</u>	<u>Cu</u> <u>PPm</u>	<u>As</u> <u>PPm</u>	<u>Au</u> <u>PPb</u>
(-80 mesh)				
SSP-001		88	26	5
SSP-002		33	26	107
SSP-003A		64	821	12
SSP-003B		52	761	9
SSP-004A		64	108	4
SSP-004B		60	97	1
SSP-005		93	88	13
SSP-006A		70	108	9
SSP-006B		71	121	3
SSP-007		51	32	105
SSP-008		63	46	17
SSP-009A		59	93	30
SSP-009B		76	125	
SSP-010		49	6	2

Assays for gold using +80 mesh gave negligible results.

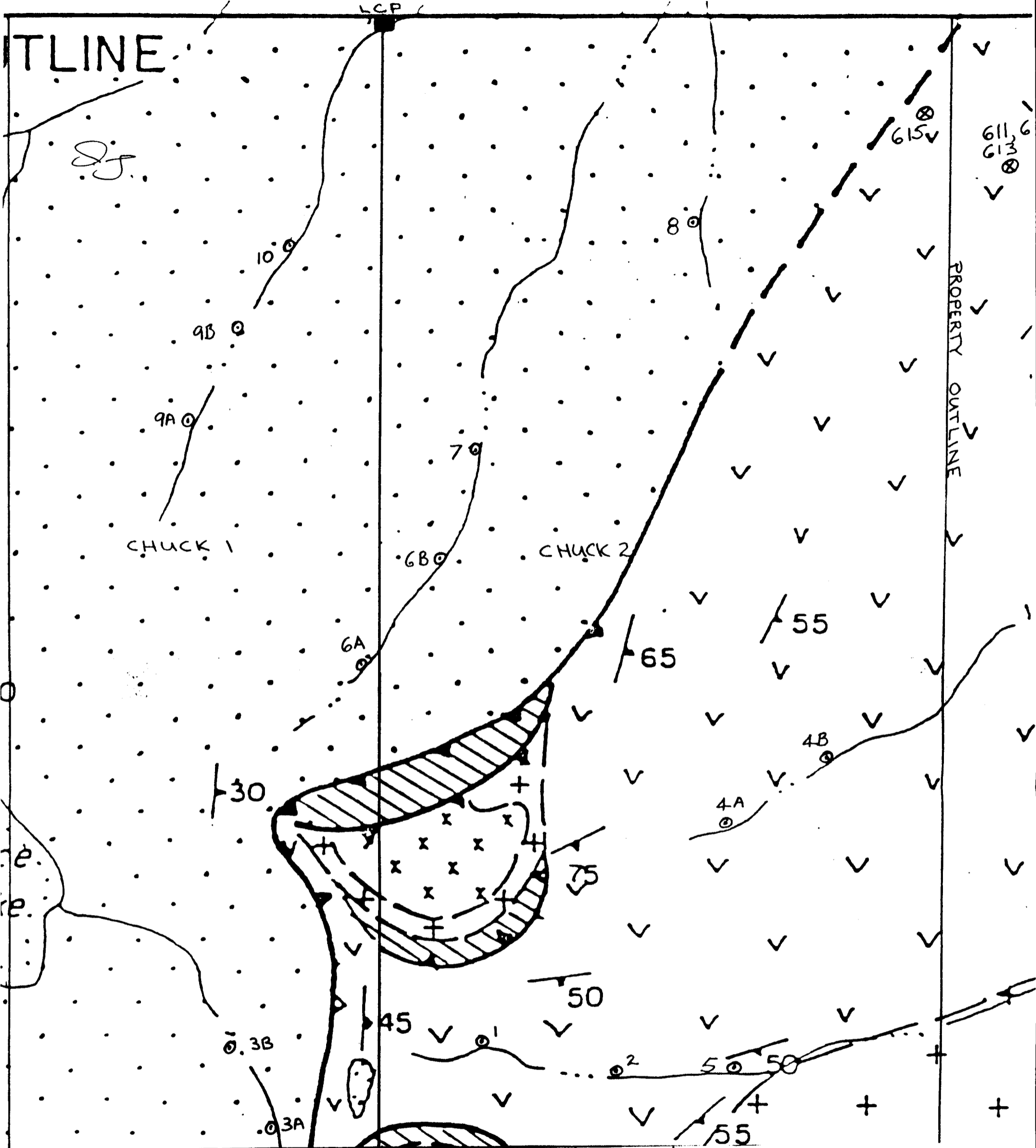
PROSPECTING

The east boundary of the Chuck 1 claims was prospected at lower elevations, (Fig. 5).

The most promising sign of mineralization was located near the northeast corner of Chuck 1 at an elevation of 680 m.

Here, a large rusty, silicified angular boulder measuring approximately 1 meter in diameter was located.

OUTLINE



LEGEND

- ⊙ STREAM SEDIMENT sample location
- ⊗ Rock sample location

Sample Plat				ROCK			
#	STREAM	Cu ppm	As ppm	Au ppb	#	Ca (ppm)	Ag (ppb)
1	SSP-001	87	26	5	611	10,145	.02
2	SSP-002	87	26	5	612	15,865	.01
3	SSP-003A	87	107	127	613	5,652	.01
4	SSP-004A	87	107	127	615	1,319	.01
5	SSP-005	87	70	93			
6	SSP-006A	87	108	133			
7	SSP-006B	87	121	153			
8	SSP-007	87	51	105			
9	SSP-008	87	42	74			
10	SSP-009A	87	93	120			
11	SSP-009B	87	12	20			
12	SSP-010	87	76	9			
13	SSP-013B	87	76	9			
14	SSP-04A	60	97	1			

PIERCE MOUNTAIN RESOURCE

MT. PIERCE PROPERTY

SAMPLE LOCATIONS

Stream Sediments + Prospecting

0 km 0.5 km

NTS 92 H-4E NEW WESTMINSTER M. SCALE 1:10,000 FIG. 5

J. GEORGE GEOLOGICAL AUG 8

Massive chalcopyrite in quartz was sampled with the following results:

<u>Sample #</u>	<u>Gold (oz/t)</u>	<u>Copper (PPm)</u>	<u>Material</u>
0611	.022	10145	Qtz float
0612	.001	15865	"
0613	.001	5652	"

At an elevation 50 m higher and due west from the above float, a smaller boulder measuring approximately 50 cm in diameter was located and sampled (Fig. 5). It again was rusty quartz, angular, but with smaller amounts of chalcopyrite.

The sample was submitted for assay for copper and gold and gave the following result:

<u>Sample #</u>	<u>Gold (oz/t)</u>	<u>Copper (PPm)</u>	<u>Material</u>
0615	.007	1319	Qtz float

Three other samples were taken along the traverse and submitted for analysis for gold and ICP with negligible results.

CONCLUSIONS AND RECOMMENDATIONS

A program of geological mapping, stream sediment sampling and prospecting was conducted on the Chuck 1 and Chuck 2 claims.

Sampling of quartz veins and associated wall rocks gave sporadic though enticing results in gold values, ranging from trace to .682 oz/ton gold.

Stream sediment sampling indicates anomalous values in gold, corresponding to low arsenic and copper values.

Highly anomalous arsenic values (821 PPm and 761 PPm) hve correspondingly low gold values.

Prospecting on the eastern boundary of Chuck 1, uncovered float, believed to originate at higher elevations on Chuck 7, with highly anomalous copper values associated with low grade gold values (.022 oz/ton and .007 oz/ton).

The program carried out suggests that an intensified effort could bring about the discovery of new gold bearing zones.

The existence of coarse crystalline quartz found in trench ("D"), (Fig. 4), suggests the possibility that the quartz veining represents the top of a gold-bearing system, possibly epithermal in nature.

It is recommended that:

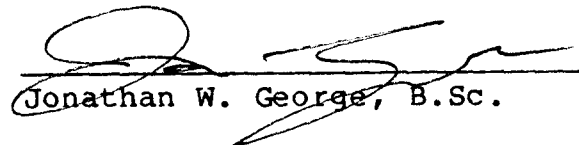
1. A grid be established along the entire length of the north-east extension of the vein system.
2. A geophysical program, using VLF-EM and magnetometer being undertaken with readings at 25 m intervals.
3. A geochemical program with 25 m sample intervals and 50 m line spacing be undertaken.
4. A more detailed program of geological mapping be done.

CERTIFICATE OF QUALIFICATIONS

I, Jonathan W. George, of 5044 Dennison Drive, Delta, B.C., state as follows.

1. That I graduated from Western Washington University in 1981 with a Bachelor of Science degree in Geology.
2. That I have actively been engaged in my profession since 1979.
3. That I am the President of Pierce Mountain Resources Ltd., a private corporation registered in the Province of British Columbia having its address at 626 - 890 West Pender Street, Vancouver, British Columbia.

Dated at Vancouver, B.C. this 10th day of August, 1987.


Jonathan W. George, B.Sc.

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: Rock Chips AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: MAY 27 1987

DATE REPORT MAILED:

June 1/87

ASSAYER:

D. Toye

DEAN TOYE, CERTIFIED B.C. ASSAYER

PIERCE MTN. RESOURCES

File # 87-1437

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU# PPM
0601	5	20	3	90	.1	7	5	467	2.51	3	5	ND	1	42	1	2	2	22	1.43	.041	2	5	.41	341	.15	5	.91	.03	.04	1	3
0602	4	21	4	121	.1	12	5	315	2.14	5	5	ND	1	19	1	2	2	44	.49	.044	2	8	.29	72	.12	4	.90	.07	.04	1	3
0603	3	40	4	154	.2	14	8	510	5.69	2	5	ND	1	9	1	2	2	27	.23	.025	2	11	.68	55	.19	3	1.68	.02	.06	1	1
0604	10	74	4	131	.5	9	16	787	6.63	11	5	ND	1	22	1	2	2	47	.50	.112	2	4	1.22	113	.13	7	2.26	.08	.11	2	1
0605	14	59	5	154	.3	13	12	826	5.23	16	5	ND	1	27	1	2	2	52	.69	.087	2	11	.90	92	.13	4	1.98	.07	.08	1	8
0606	5	55	3	165	.3	16	5	319	3.03	5	5	ND	1	21	2	2	2	23	.27	.043	2	14	.59	261	.17	3	1.44	.05	.06	1	1
0609	1	306	2	35	.1	20	29	380	4.28	2	5	ND	1	13	1	2	2	60	.59	.095	2	17	1.84	11	.07	2	1.90	.07	.02	1	1
STD C/AU-R	19	58	35	132	6.8	68	27	991	3.99	42	17	7	34	47	17	16	19	63	.47	.098	36	57	.91	179	.08	36	1.72	.07	.12	12	480

ACME ANALYTICAL LABORATORIES

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE 253-3158

DATA LINE 251-1011

GEOCHEMICAL/ASSAY CERTIFICATE

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE CA P CR NG BA TI B AL NA K W SI ZR CE SN Y, ND AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: Rock Chips AU** BY FIRE ASSAY

DATE RECEIVED: MAR 18 1987

DATE REPORT MAILED:

Mar 24/87

ASSAYER... *D. J. J.*

DEAN TOYE, CERTIFIED B.C. ASSAYER

PIERCE MOUNTAIN File # 87-0730

SAMPLE#	ND	CU	PB	ZN	AG	NI	CD	MN	FE	AS	U	AU	TH	SR	CO	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	W	AU**	
	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	OZ/T
0608	9	116	6	176	.5	17	17	1273	7.63	2	5	ND	1	24	1	2	2	94	.44	.074	2	15	1.39	114	.22	11	3.04	.12	.13	2	.001	
0609	5	12	4	94	.2	7	3	410	5.63	5	5	ND	2	5	1	2	2	10	.05	.025	4	5	.18	70	.10	4	.65	.07	.07	1	.001	
0610	2	7	9	68	.1	8	2	258	1.81	5	5	ND	1	9	1	2	2	10	.14	.037	7	13	.32	54	.07	2	.66	.05	.05	1	.001	
0611	1	10145	2	138	1.0	46	38	191	4.44	2	5	ND	1	14	5	2	2	51	.63	.078	3	1	.32	24	.10	2	.62	.13	.02	1	.022	
0612	1	15865	2	172	1.8	34	31	165	3.99	2	5	ND	2	10	6	3	2	39	.85	.082	3	2	.23	21	.12	2	.58	.10	.01	1	.001	
0613	1	5652	3	78	.7	42	42	209	4.04	2	5	ND	1	11	3	3	2	52	.60	.075	3	1	.38	21	.11	2	.60	.15	.03	1	.001	
0614	2	54	7	57	.1	5	7	630	3.41	2	5	ND	1	36	1	2	2	28	1.25	.060	2	6	1.13	42	.22	3	1.99	.02	.08	3	.001	
0615	1	1319	19	33	2.3	7	32	155	14.06	670	5	ND	2	2	1	4	13	12	.09	.030	2	2	.11	12	.01	11	.19	.02	.10	2	.007	
STD C	22	60	41	140	7.0	72	29	1052	4.00	43	15	7.7	36	50	18	15	20	66	.48	.105	37	57	.89	185	.09	33	1.72	.07	.14	14	-	

✓ ASSAY REQUIRED FOR CORRECT RESULT -

PIERCE MTN. FILE# 37-2507

SAMPLE	AJ*
	ppb
RSP-001	23200
RSP-002	3680
RSP-003	12
RSP-004	18400
RSP-005A	5
RSP-005B	16
RSP-006	6

PIERCE MOUNTAIN

FILE # 87-593

SAMPLE#	CU PPM	AS PPM	AU* PPB
SSP-001 (-80)	88	25	5
SSP-002 (-80)	33	25	107
SSP-003A (-80)	64	821	12
SSP-003B (-80)	52	751	9
SSP-004A (-80)	64	108	4
SSP-004B (-80)	60	97	1
SSP-005 (-80)	93	88	13
SSP-006A (-80)	70	108	9
SSP-006B (-80)	71	121	3
SSP-007 (-80)	51	32	105
SSP-008 (-80)	63	46	17
SSP-009A (-80)	59	93	30
SSP-009B (-80)	76	125	40
SSP-010 (-80)	49	6	2
STD C/AU-S	60	42	51

PIERCE MOUNTAIN FILE# 37-2611

SAMPLE	Au# ppb
SSP-001 (+80)	1
SSP-002 (+80)	11
SSP-003A (+80)	13
SSP-003B (+80)	11
SSP-004A (+80)	3
SSP-004B (+80)	4
SSP-005 (+80)	8
SSP-006A (+80)	2
SSP-006B (+80)	3
SSP-007 (+80)	1
SSP-008 (+80)	3
SSP-009A (+80)	6
SSP-009B (+80)	8
SSP-010 (+80)	1