ARIS SUMMARY SHEET

District Geologist, Kamloops — Off Confidential: 92.09.17

ASSESSMENT REPORT 21913 — MINING DIVISION: Clinton

PROPERTY: Dora
LOCATION: LAT 51 58 00 LONG 121 22 00
UTM 10 5758372 612212
NTS 092P14W

CAMP: 036 Cariboo - Quesnel Belt

CLAIM(S): Peewee 1-3,Club 15,Dora,Dora 1
OPERATOR(S): Asarco Ex.
AUTHOR(S): Gale, R.E.
REPORT YEAR: 1991, 66 Pages
COMMODITIES
SEARCHED FOR: Copper,Gold
KEYWORDS: Triassic,Basalts,Greywackes,Tuffs
WORK
DONE: Geological,Geophysical,Drilling,Physical,Geochemical
GEOL 600.0 ha
Map(s) - 2; Scale(s) - 1:5000
IPOL 28.0 km
Map(s) - 16; Scale(s) - 1:2500,1:5000
LINE 33.6 km
PERD 450.0 m 5 hole(s)
ROAD 0.6 km
SAMP 86 sample(s)
MINFILE: 092P 108,092P 120

ASSESSMENT REPORT ON THE GEOLOGY AND DRILLING OF THE PEEWEE 1,2,3 CLUB 15 DORA MC DORA 1 and MIRACLE FR. CLAIMS

(PEACH TWO GROUP)

Longitude 121° 22', Latitude 51° 58'
Clinton Mining Division, B.C.
92P/14W

By R.E. Gale, PhD., P. Eng.
R.E. Gale and Associates Inc.

Owner Peach Lake Resources Inc.
Operator ASARCO Exploration Company of Canada Ltd.
November 22, 1991

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FIGURES

APPENDIX

(1.0) INTRODUCTION

The Peach Two Group of claims were held under option by Asarco Exploration Company of Canada Ltd and were explored in the field under the direction of the author as consultant to Asarco during the period June 21 through September 16, 1991. Assistance on geological mapping, drilling and interpretation was provided by Tom Horning, Project Geologist with Asarco.

Work on the claims included geological mapping and sampling, line cutting, I.P. survey and percussion drilling and sampling. Work was concentrated on the southern half of the claims in an area not previously exploraed by I.P. and drilling. The I.P. survey results are covered in an accompanying report by John Lloyd and John Cornock of Lloyd Geophysics, dated October, 1991.

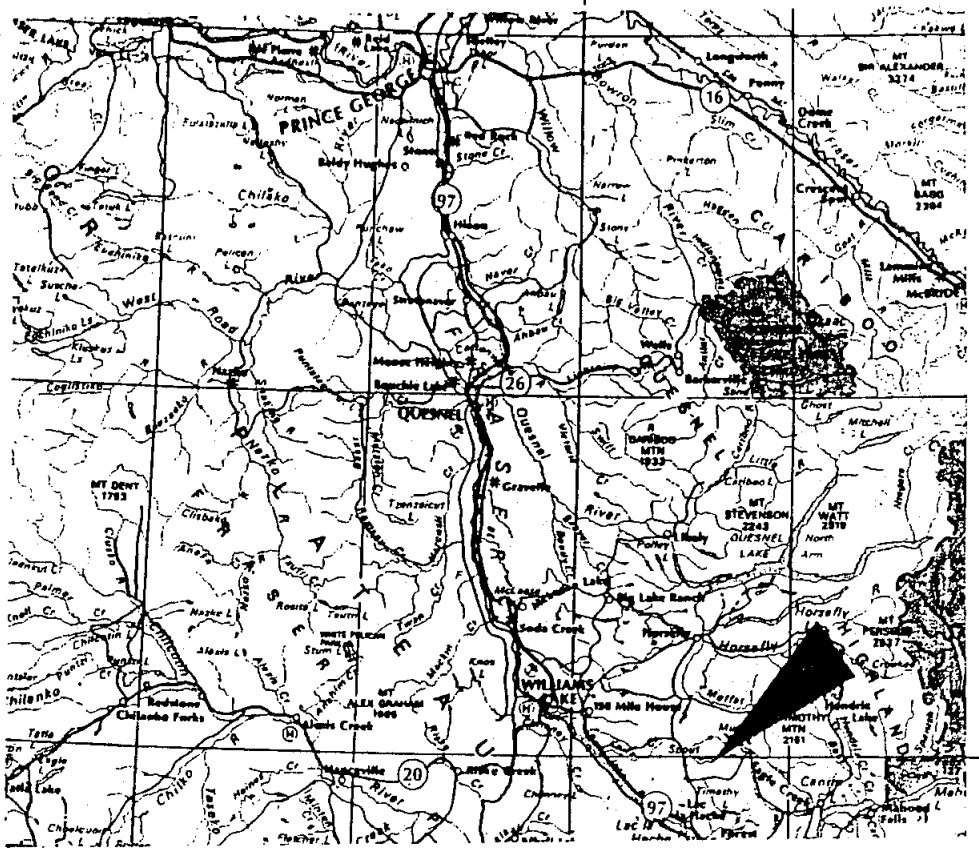
(2.0) PROPERTY LOCATION AND ACCESS

The location of the property and an outline of claims are shown in Figure One. The claims are located approximately 25 Kms. N.E. of the town of Lac La Hache adjoining the southern shore of Spout Lake. The claims are readily accessible by good paved and gravel roads from Lac La Hache, via the Rail Lake road to Rail Lake then east to the property.

Coordinates for the property are 51° 58' N, 121° 22' W, in NTS map area 92P/14W.

(3.0) CLAIMS

The Peewee 1-3, Club 15, Dora MC, Dora 1 and Miracle Fr. claims



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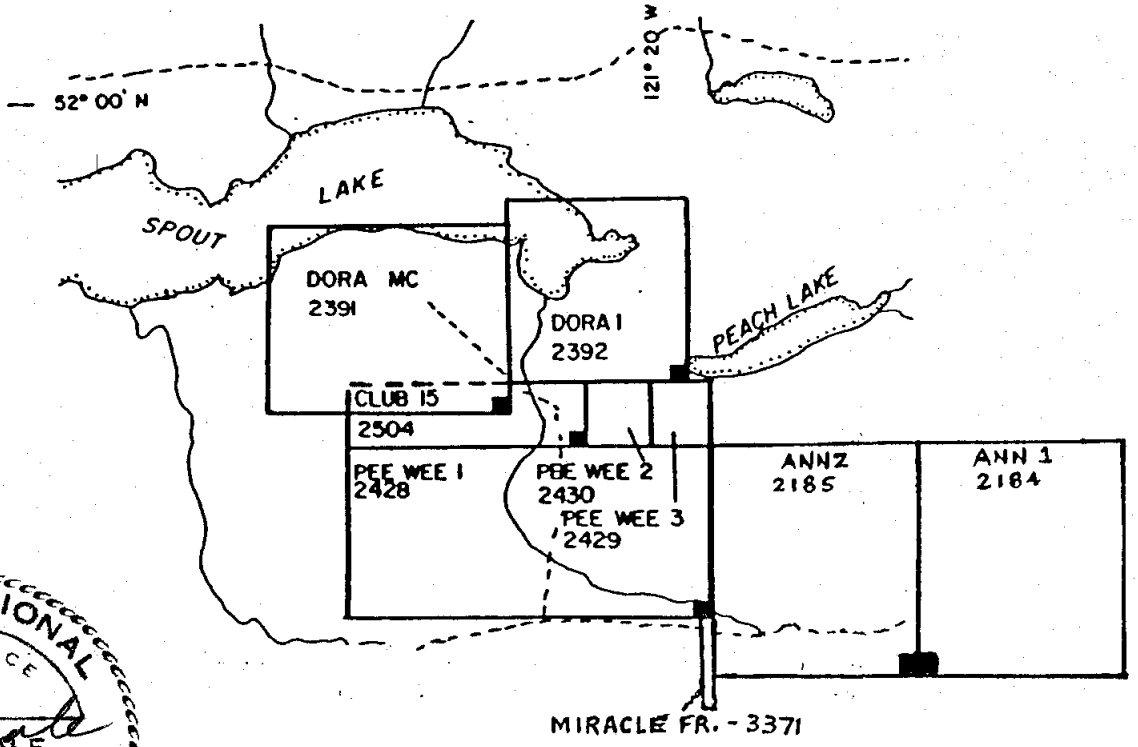


PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
R. E. GALE
1994

LAC LA HACHE PROJECT

GENERAL CLAIMS AREA

NTS. 92P/14

FIG. 1

are grouped as the Peach Two Group of claims. The claims are recorded in the Clinton Mining Division. All of the claims except the Miracle Fr. are recorded in the name of Peach Lake Resources Inc., the Miracle Fr. is recorded in the name of B. Gagne.

Claim Name	Record No.	Anniversary Date*
Peewee 1	2428	Nov. 5, 1997
Peewee 2	2430	Nov. 5, 1998
Peewee 3	2429	Nov. 5, 1998
Club 15	2504	Dec. 31, 1997
Dora MC	2391	Sept. 18, 2000
Dora 1	2392	Sept. 18, 1998
Miracle Fr.	3371	July 4, 1997

* (Anniversary dates based on assessment filed with this report)

(4.0) PHYSIOGRAPHY AND TOPOGRAPHY

The area lies on a relatively gentle north-facing slope of open woods broken by several large hills of outcrop 100-200 metres high. Parts of the area are boggy and have intermittent northerly draining streams. Cover in the area is extensive. Glacial moraine covers most low lying areas but residual soils are present in the northeast part of the claims.

Elevations on the claims range from approximately 3500 - 4000 feet (1100 - 1300 metres).

(5.0) HISTORY

Magnetite-chalcopyrite skarn showings associated with a pronounced aeromagnetic high located just south of Spout Lake were discovered by Amax Exploration during a regional exploration program in 1970. Amax staked the WC claims covering much the same area as the present claims and did geological mapping, soil geochemistry, I.P. and Magnetic surveys and several thousand feet of diamond and percussion drilling on the discovery showings just south of the lake.

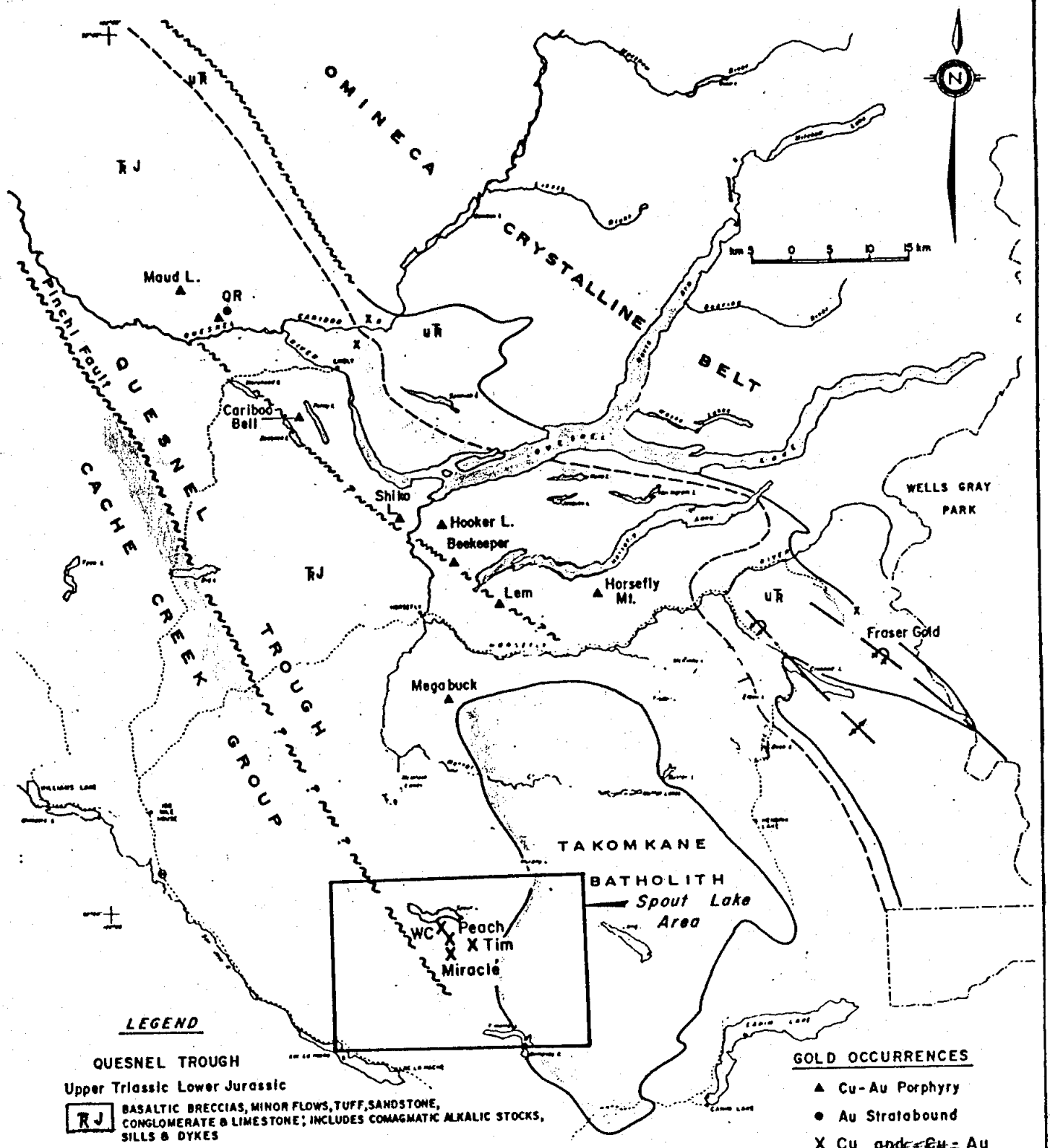
In 1974, Craigmont optioned the ground from Amax and did further diamond drilling on the discovery showings. Amax later dropped the claims and the ground was restaked by Peach Lake Resources Inc in 1989. Peach Lake Resources did soil sampling for Cu,Pb,Zn,Au,Ag and a magnetic and VLF-Em survey in 1989 and trenching and sampling of the discovery showing in 1990.

In 1991, the claims were optioned to Asarco Exploration Company of Canada Ltd. The writer was engaged as geological consultant for the 1991 exploration program by Asarco. The work done during 1991 is the subject of this report.

(6.0) REGIONAL GEOLOGY

The area covered by the Peach Two claim group is part of the Quesnel Trough of central B.C. The Quesnel Trough, a broad NW trending band of Triassic alkaline volcanic and sedimentary rocks (Nicola Group) is intruded by numerous comagmatic alkaline intrusions of syenite and syenodiorite which have an association with important copper-gold deposits. The Trough is bounded on the west by the Pinchi Lake fault system and Tertiary volcanic cover rocks and on the east by Proterozoic to Cambrian basement rocks.

Figure Two shows the location of the Peach Two claims (just south



LEGEND

QUESNEL TROUGH

Upper Triassic Lower Jurassic

TRJ — BASALTIC BRECCIAS, MINOR FLOWS, TUFF, SANDSTONE, CONGLOMERATE & LIMESTONE; INCLUDES COMAGMATIC ALKALIC STOCKS, SILLS & DYKES

Upper Triassic

uR — ARGILLITE, AUGITE-PORPHYRY BRECCIA, BASALTIC TO ANDESITIC TUFF POSSIBLE DYKES & SILLS

GOLD OCCURRENCES

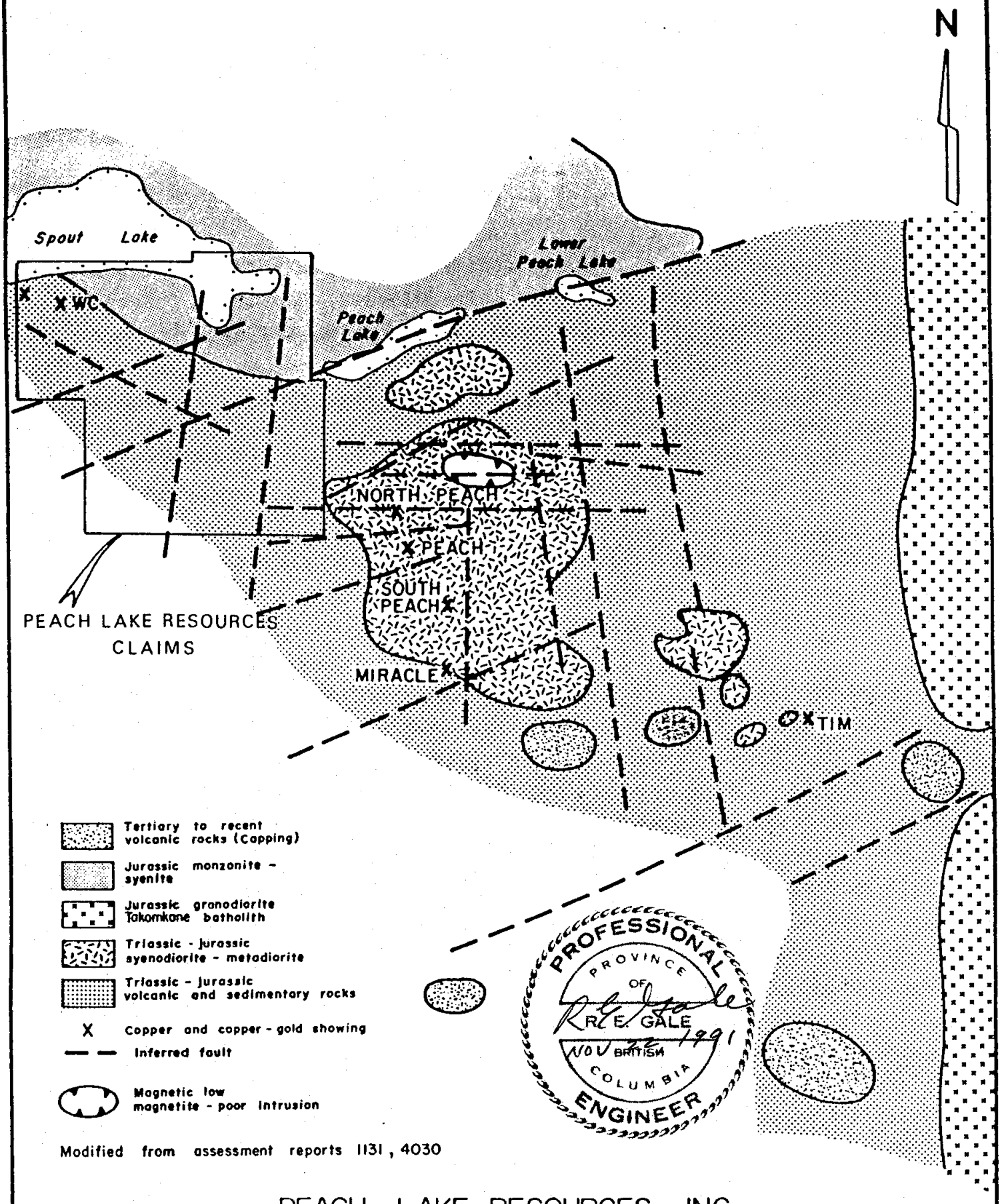
- ▲ Cu-Au Porphyry
- ● Au Stratabound
- X Cu and Cu-Au Occurrences

Modified from Saleken & Simpson, 1984

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
R. E. GALE
1991

PEACH LAKE RESOURCES INC.
QUESNEL TROUGH
LAC LA HACHE GOLD CAMP
SPOUT LAKE AREA
N.T.S. 92P/14

FIG. 2



Modified from assessment reports 1131, 4030

PEACH LAKE RESOURCES INC.

LAC LA HACHE PROJECT

GENERAL GEOLOGY

0 1 2 3km

N.T.S. 92P/14W

FIG. 3

of Spout Lake) in relation to the whole Quesnel Trough. Other important mineral deposits associated with dioritic-syenitic intrusions such as QR and Cariboo Belle are also noted on Figure Two.

Figure Three shows the geology of the Spout Lake area in more detail. The area lies on the WNW trending south contact of a large Jurassic age hornblende-biotite monzonite plug and to the east of the northerly trending contact of the Jurassic Takomkane granodiorite batholith. These Jurassic aged intrusions cut Triassic andesitic to basaltic volcanic and sedimentary rocks and alkaline dikes, sills and stocks which intrude the volcanic-sedimentary sequence.

The Peach Two Group of claims lie within the western and southwestern part of Figure Three on the SW edge of the main zone of NW trending alkalic intrusions. The discovery showing on the Peach Two claims (WC), and other important showings in the area are noted on Figure Three.

(7.0) PROPERTY GEOLOGY

(7.1) Introduction

Figure Four at a scale of 1:5000 shows the interpreted geology of the southern part of the claims, where work was concentrated in the 1991 program.

In general, the south and southwestern portion of the claims are underlain by sedimentary rocks interfingering with andesitic tuff while further north the most common rocks are very fine grained basalt and amygdaloidal basalt. Small areas or bands within the basalt show calcite-filled amygdules or fractures which in a few places have been replaced by epidote carrying a little sulfide or magnetite. These showings appear to be relatively unimportant except within the area of

the discovery showing close to syenitic intusions where the skarn, magnetite and sulfide mineralization in these rocks is pronounced.

The order of superposition of different rocks is unknown because of the paucity of outcrop, lack of good bedding indications and no evidence of the direction of " tops ".

The rock types are discussed in the order in which they outcrop from south to north as shown in Figure Four, which may be the order from older to younger.

(7.2) Greywacke (Gw)

Black, fine to medium grained thin bedded limy basaltic greywacke and siltstone, in part interbedded with limestone conglomerate, outcrops near the SW corner of the claims and along a road just beyond the west side of the claims. Traces of pyrite occur in these rocks and in percusion hole P91-1, the same type of rocks were encountered and here were accompanied by up to a few percent pyrite and graphite. This type of rock is apparently responsible for the anomalous I.P. response found in the area of hole P91-1.

(7.3) Limestone (Ls)

The limy greywacke is in part interbedded with dark grey to black silty limestone and limestone conglomerate. The conglomerate is composed of 5-10 cm wide rounded fragments of fresh grey limestone set in a brown-weathering matrix of limy silt.

The outcrop of the limestone along the road west of the claims, near the creek crossing contains fragments of fossils, probably peices of pelecypod shells.

(7.4) Andesite Crystal Tuff (Axlt)

Partly interbedded with and partly overlying the sedimentary rocks described above are beds of massive dark green to reddish green andesite crystal tuff, typical in appearance to much of the Nicola

Group rocks seen elsewhere in B.C. These are fine to medium grained fragmental volcanic rocks often containing a few small dark rounded fragments of fresh looking dioritic intrusive and/or volcanic rocks from 2 to 10 cms. in diameter.

Some bands or beds of fine grained tuff are noted with the coarser fragmental volcanic rocks but these beds are too discontinuous to allow bedding structural relationships to be seen.

(7.5) Basaltic Tuff and Breccia (Bt, Bxt, Bxt(c), Btbx)

By diminution in size of grains and increase in amounts of hornblende and augite present, the andesitic beds grade into black, dense basaltic tuffs and breccias. Some of these rocks are flows or flow breccias and some float of pillowed basalt was noted in the area. Some of the basalts are amygdaloidal and show vesicles, fractures and what may be flow tops filled with calcite.

In some areas of calcareous crystal tuff and breccia, the calcite fillings have been altered to epidote, garnet or other calc-silicates either through auto-metamorphism during consolidation of the rocks or through much later hydrothermal alteration. The skarn minerals are sometimes accompanied by sulfides and magnetite. Alteration and mineralization of calcite-rich basalt is strongly developed only in the area of the original Discovery Showing, noted in Figure Four. This relatively strong alteration and mineralization here owes its presence to the occurrence of one or more large syenite dikes intruding the basalt. In most of the area mapped in Figure Four in the southern part of the claims, such alkaline intrusive rocks appear to be missing or only weakly developed.

(7.6) Syenite, Syenite Porphyry (Sy, Syp)

A few outcrops of syenite and syenite porphyry intrusive are noted on Figure Four. These rocks are dikes, sills and plugs

intruding the volcanic rocks. Contacts are not exposed but the intrusions are believed to be roughly contemporaneous in age to the volcanic rocks because the volcanics often contain fragments of dioritic and syenitic rocks similar in appearance to the intrusive rocks.

The equigranular syenite to syenodiorite is grey to dark green medium grained hornblende-pyroxene syenite. Syenite porphyry is leucocratic with abundant medium to coarse euhedral white feldspar crystals set in a sparse dense grey matrix. Dikes are often sheared and appear to have been emplaced along steep-dipping shear zones.

(7.7) Mafic Monzonite (Mzm)

White to pink coarse-grained hornblende-biotite-magnetite monzonite outcrops near Spout Lake, to the northeast and outside the area of interest mapped in Figure Four.

These intrusive rocks are part of a large body of mafic magnetite-rich monzonite which outcrops for several kilometres north of Spout Lake. No contacts were noted between this monzonite and the other rocks, but because of its similarity in appearance to the rocks of the Jurassic Takomkane batholith, it is believed to be similar in age to the latter intrusion.

(7.8) Structural Geology

The general grain of the country and the apparent trend of contacts between sedimentary and volcanic rocks is WNW and this trend is inferred to reflect primary bedding structures in the area.

No faults are exposed in outcrop but fault zones beneath cover should parallel the main fracture trends mapped. Numerous fractures follow a N 75 degree west trend or N 75 to 80 degrees east. North-south trending vertical fractures are also common. Northeast trending faults are inferred near the eastern side of the map area,

where they are invaded by NE trending syenite dikes.

(8.0) ALTERATION AND MINERALIZATION

(8.1) General

No significant zones of alteration and mineralization outcrop within the southern part of the claims where Asarco's work was concentrated. Mineralization was only discovered beneath relatively deep overburden by drilling I.P. anomalies.

The best outcropping alteration and mineralization found to date is still the original "Discovery Showing" whose location is noted in Figure Four, lying north of the area explored in 1991. In the Disovery Showing, lense-like flat lying to steep dipping skarn-magnetite -chalcopyrite bodies are associated with the contacts of syenite dikes and sills where fluids have altered and replaced favorable zones of calcite-rich basalt. The orientation of the mineralized zones are controlled by the attitude of the intersection of the dike or sill with the calcite layer and the extent of the calcite-rich zone determines the size of the mineralized zone.

The discontinuous zone of mineralization is in the order of 500-600 metres long NW-SE and is from one to possibly thirty or forty metres wide for short distances. The geometry of the the mineralized zone is still unknown, because most of it is concealed by overburden. The copper grades are generally too low and erratic, gold is only present in trace amounts and tonnage is too small as presently known to form a mineable deposit. Other targets elsewhere on the property need to be found to enhance the property potential. The finding of new targets was the object of the work in 1991.

The "West Showing", another zone of mineralization found by Amax

is also noted on Figure Four. The West Showing appears to be only a small zone of skarn-copper mineralization in amygdaloidal basalt one-two metres wide. A picked sample of better looking mineralization was taken to check the gold content here, which proved to be very low (Sample 61465)

Within the area explored in 1991, as shown in Figure Four, the best new area of mineralization was discovered on the Pee Wee 3 claim near the east boundary of the property. A large area of disseminated pyrite in volcanic rocks was previously noted here by earlier workers. The present mapping and I.P. survey helped to further outline this zone of mineralization and percussion drilling tested the grade in a small part of the zone. Although the grade of copper-gold is very low, the zone may be sizeable as it appears to extend off the Peach 2 Group of claims onto the adjoining Ann claims on the east

(8.2) Surface Sample Results

Fourteen rock geochem samples were taken by the author and Mr. Horning from outcrops or float showing interesting amounts of pyrite-chalcopyrite-magnetite mineralization. A description of these samples is tabulated below. Appendix "A" contains a copy of the geochem assay results for these samples.

Sample No.	Description
223751	Picked sample-pink feldspar rock-magnetite,chalcopyrite
223782	Picked sample-altered basalt with magnetite,chalcopyrite
61454	Picked sample-volcanic rock-magnetite,chalcopyrite,pyrite
61455	"
61456	"
61457	Grab sample-Greywacke,limestone conglomerate,trace pyrite
61458	Float-volcanic rock-trace magnetite,chalcopyrite,pyrite

61459 Picked sample-pink felspar rock with strong pyrite

61461 Grab-pink felspar rock with pyrite,trace chalcopyrite

61462 Picked sample-dense white altered rock,trace sulfides

61463 Picked sample-strong pyrite in volcanics and syenite dike

61465 Picked sample-skarn in basalt with magnetite,chalcopyrite

61466 Grab sample-dense white alteration with trace pyrite

61468 Grab sample-weak pink feldspar in volcanics,pyritic

None of these samples show high enough combined gold-copper values to be of obvious interest as drill targets. Sample 61462 is of some interest because it represents a different type of alteration and mineralization than was seen elsewhere on the claims. This sample shows anomalous amounts of As, Pb, Zn and Ag.

(8.3) Drill Sample Results

Based on the I.P. survey results, 5 percussion holes were drilled on the best I.P. targets. Drilling in the 5 holes totalled 1350 feet (450 metres).

A copy of the complete assay results for Cu and Au and a log and section for each hole are included as "Appendix B". A summary of significant assay intervals is as follows;

Hole No.	From	To	Interval	%Cu.	OPT Au.
P91-1		No significant intercepts			
P91-2		"			
P91-3		"			
P91-4	20	80	60 Ft.	0.21	0.01
P91-5	110	120	10 Ft.	0.16	Nil
	130	140	10 Ft.	0.11	0.006

It is evident that holes 4 and 5 were drilled in a zone of potential interest, but the width and grade of the intersections are

too small and too low grade in these holes to warrant follow-up diamond drilling at the sites of holes P91-4 and 91-5.

(9.0) INDUCED POLARIZATION SURVEY

In preparation for the I.P. survey over the large covered area, approximately 33 Kms. of Base Line, Tie Line and N-S Grid Lines were cut and chained by Amex Exploration Services Ltd.

The pole-dipole I.P. survey was carried out on 14, 2-Km.-long N-S grid lines spaced at 200 metre intervals using a 50 metre electrode spacing. The survey was completed during the period Aug. 13-Sept. 2 by a 5 man crew employed by LLoyd Geophysics Inc.

The results of the I.P. Survey accompany this report as a separate report by J. Lloyd and J. Cornock.

Most of the targets recommended by Lloyd were tested by the percussion drilling. The remaining suggested target (Zone 2) does not appear attractive based on the outcrops mapped in the general area.

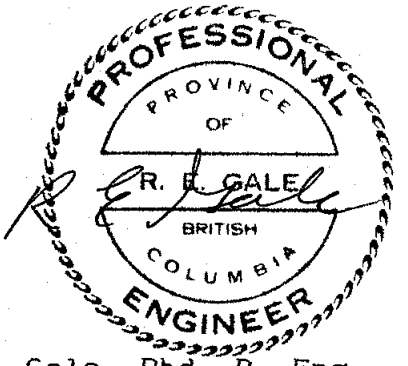
(10.0) CONCLUSIONS AND RECOMMENDATIONS

An interesting copper-magnetite deposit, the Discovery Showing found by Amax, on what is now the Dora MC claim has some potential for expansion in size, and better gold may be found associated with some part of this deposit, but at the present time the lack of significant gold credits associated with the mineralization here has not justified further attempts to enlarge and improve the tonnage and grade of this deposit.

Asarco's exploration in 1991 was based on the desire to find a new large Cu-Au deposit which could be amenable to open pit mining and warrant follow-up diamond drilling. The geology of the area is permissive to find such a deposit and there is ample room beneath the

large covered area on the south and southeast side of the Peach Two Group of claims to conceal a large alkaline porphyry Cu-Au deposit beneath cover here. The Asarco program was not successful in finding a viable diamond drill target and it was decided not to pursue further work.

The zone of mineralization within a partly defined I.P. high near the eastern boundary of the claims around holes P91-3, 4 and 5 is the best area for further work. Although only hole P91-4 showed any interesting Cu-Au values and the better values were in a narrow interval, some follow-up work could be justified here because the mineralized zone appears to continue onto the adjoining Ann claims on the east, and the total areal extent and grade of the zone is unknown.



R.E. Gale, Phd. P. Eng.

R.E. Gale and Associates Inc.

November 22, 1991

REFERENCES

Campbell, R.B., Tipper, H.W., 1972 GSC Memoir 363, Geology of Bonaparte Lake Area, Map 1278A.

Gamble, D., 1983 Geochemical Survey, Core Claims. Assessment Report 11692

Hodgson, C.J., Depaoli, G.M. 1972 Spout Lake Copper Property. Assessment Report 3690

Leary, G.M., Depaoli, G.M., Allen, J.F., Horsnail, R.F. July, 1972 Spout Lake Property. Asessment Report 3881

Leary, G.M., Depaoli, G.M., Allen, J.F. November, 1972 Spout Lake Property. Assessment Report 4029

Rowan, L.G. October, 1990 Geological Report on Dora, Pee Wee and Club claims. Private Report for Peach Lake Resources Ltd

Salaken, L.W., Simpson, R.G. 1984 Cariboo-Quesnel Gold Belt, A Geological Overview. Western Miner Magazine.

Vollo, N.B. 1975 Diamond Drilling Report, Spout Lake. Assessment Report 5488.

COST STATEMENT

Linecutting - Amex Exploration Services.....	$	11,571.84
I.P. Survey - LLoyd Geophysics		34,059.84
Percussion drilling 1350 ft (450 metres)-Tex Drilling		12,176.60
Road clearing		695.00
Supervision, Geological Mapping, R. Gale, T. Horning		11,988.00
Room and Board - 37 man days @ $60.00 per day.....		2,220.00
Fuel, telephone, travel expenses.....		550.00
Truck rental.....		1,500.00
Assays, Chemex, Ecotech Labs.....		1,445.96
Total	$	76,207.24

CERTIFICATE

I, Robert E. Gale , do hereby certify that:

1. I am a geological consultant with R.E. Gale and Associates Inc. with my office at 107-2274 Folkestone Way West Vancouver, British Columbia.

2. I graduated from Stanford University with a PhD. in geology in 1965.

3. I have been practicing my profession as a geologist for thirty six years.

4. I have been a member in good standing with the Association of Professional Engineers of British Columbia since 1966.

5. This report is based on my geological work on the Peach Group Two claims during parts of the period June 21 to September 16, 1991.

6. I have no interest in the Peach Two Group claims or Peach Lake Resources Inc. directly or indirectly, nor do I expect to receive any such interest.

Robert E. Gale, PhD. P.Eng.
R.E. Gale and Associates Inc.
November 22, 1991

APPENDIX A

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

GALE, R. E.

4338 RUTH CRESC.
NORTH VANCOUVER, B.C.
V7K 2M9

Project :
Comments:

Certificate Date: 10-JUL-91
Invoice No. :I9117298
P.O. Number :

CERTIFICATE OF ANALYSIS A9117298

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
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61455	205	294	25	< 0.2	2.97	55	60	< 0.5	< 2	1.98	< 0.5	19	101	279	6.30	10	< 1	0.69	< 10	2.02	1105
61456	205	294	30	< 0.2	2.67	25	50	< 0.5	< 2	1.75	< 0.5	32	99	176	5.48	< 10	< 1	0.70	< 10	1.84	895
223751	205	294	10	< 0.2	1.88	5	30	< 0.5	< 2	1.30	< 0.5	20	27	554	3.99	< 10	< 1	0.32	< 10	1.30	520

CERTIFICATION: B. Caughlin

Chemex Labs Ltd.

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Project :
Comments:

Page Number :1-B
Total Pages :1
Certificate Date: 10-JUL-91
Invoice No. :I9117298
P.O. Number :

CERTIFICATE OF ANALYSIS A9117298

SAMPLE DESCRIPTION	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
~~61451~~	~~205~~	~~294~~	~~2~~	~~0.05~~	~~6~~	~~1660~~	~~10~~	~~< 5~~	~~6~~	~~123~~	~~0.17~~	~~< 10~~	~~< 10~~	~~225~~	~~< 10~~	~~50~~
~~61452~~	~~205~~	~~294~~	~~< 1~~	~~0.04~~	~~7~~	~~1760~~	~~6~~	~~< 5~~	~~7~~	~~118~~	~~0.30~~	~~< 10~~	~~< 10~~	~~190~~	~~< 10~~	~~72~~
~~61453~~	~~205~~	~~294~~	~~2~~	~~0.04~~	~~2~~	~~530~~	~~18~~	~~10~~	~~5~~	~~341~~	~~0.02~~	~~< 10~~	~~< 10~~	~~57~~	~~< 10~~	~~20~~
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61456	205	294	< 1	0.11	23	1920	16	< 5	9	127	0.27	< 10	< 10	195	< 10	90
223751	205	294	< 1	0.06	2	1460	8	< 5	5	137	0.23	< 10	< 10	124	< 10	60

CERTIFICATION: B. Cargli

Chemex Labs Ltd.

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Project :
Comments:

Page Number :1-A
Total Pages :1
Certificate Date: 23-JUL-91
Invoice No. :I9118149
P.O. Number :

CERTIFICATE OF ANALYSIS A9118149

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
61457	205	294	< 5	< 0.2	1.46	30	10	< 0.5	< 2	>15.00	< 0.5	12	48	53	2.62	< 10	< 1	0.09	< 10	0.68	580
61458	205	294	75	< 0.2	1.62	30	20	< 0.5	< 2	2.17	< 0.5	11	30	434	5.04	10	< 1	0.14	< 10	0.78	385
61459	205	294	275	0.4	1.90	45	30	< 0.5	< 2	1.69	< 0.5	72	26	1035	6.30	10	< 1	0.26	< 10	1.29	430
61461	205	294	20	< 0.2	1.70	40	10	< 0.5	2	2.31	< 0.5	23	23	329	3.22	10	< 1	0.08	< 10	1.19	840

CERTIFICATION: B. Caplin

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

GALE, R. E.

4338 RUTH CRESC.
NORTH VANCOUVER, B.C.
V7K 2M9

Project :
Comments:

Page Number :1-B
Total Pages :1
Certificate Date: 23-JUL-91
Invoice No. :I9118149
P.O. Number :

CERTIFICATE OF ANALYSIS A9118149

SAMPLE DESCRIPTION	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
61457	205	294	1	0.09	11	1450	16	5	4	147	0.16	< 10	< 10	112	< 10	42
61458	205	294	< 1	0.10	10	1880	14	< 5	3	85	0.14	10	< 10	144	< 10	48
61459	205	294	24	0.05	9	2250	10	< 5	6	58	0.21	< 10	< 10	151	< 10	66
61461	205	294	< 1	0.03	5	2010	8	5	5	135	0.11	10	< 10	91	< 10	72

CERTIFICATION: B. Caglioni

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

GALE, R. E.

4338 RUTH CRESC.
NORTH VANCOUVER, B.C.
V7K 2M9

Project :
Comments:

Certificate Date: 12-SEP-91
Invoice No. :I9121238
P.O. Number :

CERTIFICATE OF ANALYSIS A9121238

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
061465	205	294	45	0.4	1.54	30	90	< 0.5	2	4.63	< 0.5	19	355	1375	4.42	10	< 1	0.60	10	0.82	635
061466	205	294	15	0.2	3.38	25	40	< 0.5	< 2	2.33	< 0.5	19	62	614	3.82	< 10	< 1	0.26	10	0.36	500
061468	205	294	< 5	< 0.2	2.31	10	20	< 0.5	6	2.07	< 0.5	22	27	164	3.01	< 10	< 1	0.16	10	1.32	660
223782	205	294	35	2.4	1.97	20	60	< 0.5	16	2.29	< 0.5	12	53	4190	9.82	< 10	< 1	0.30	10	0.82	550

CERTIFICATION: B. Cagle

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: GALE, R. E.

4338 RUTH CRESC.
NORTH VANCOUVER, B.C.
V7K 2M9

Project :
Comments:

Page Number :1-B
Total Pages :1
Certificate Date: 12-SEP-91
Invoice No. :I9121238
P.O. Number :

CERTIFICATE OF ANALYSIS A9121238

SAMPLE DESCRIPTION	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
061465	205	294	< 1	0.06	89	1010	< 2	5	3	116	0.14	< 10	< 10	89	10	12
061466	205	294	2	1.92	12	1570	10	< 5	3	202	0.21	< 10	< 10	108	10	28
061468	205	294	< 1	0.05	5	1730	10	< 5	3	393	0.37	< 10	< 10	65	10	30
223782	205	294	5	0.05	19	1930	< 2	< 5	10	164	0.24	< 10	< 10	218	< 10	338

CERTIFICATION: B. Caglioni

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

GALE, R. E.

4338 RUTH CRESC.
NORTH VANCOUVER, B.C.
V7K 2M9

Project :
Comments:

Certificate Date: 13-AUG-91
Invoice No. :I9119243
P.O. Number :

CERTIFICATE OF ANALYSIS A9119243

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
61462	205	294	65	2.0	2.90	1000	60	< 0.5	< 2	2.87	2.5	31	43	455	4.28	10	2	0.21	10	1.06	1150
61463	205	294	60	1.4	1.65	85	100	< 0.5	< 2	1.37	0.5	28	27	592	4.78	< 10	< 1	0.58	< 10	1.04	400

CERTIFICATION: B. Caughlin

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: GALE, R. E.

4338 RUTH CRESC.
NORTH VANCOUVER, B.C.
V7K 2M9

Project :
Comments:

Certificate Date: 13-AUG-91
Invoice No. :I9119243
P.O. Number :

CERTIFICATE OF ANALYSIS A9119243

SAMPLE DESCRIPTION	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
61462	205	294	2	0.66	21	2600	872	5	6	100	0.25	< 10	10	170	10	2290
61463	205	294	1	0.09	4	2030	< 2	5	4	101	0.31	< 10	< 10	175	< 10	160

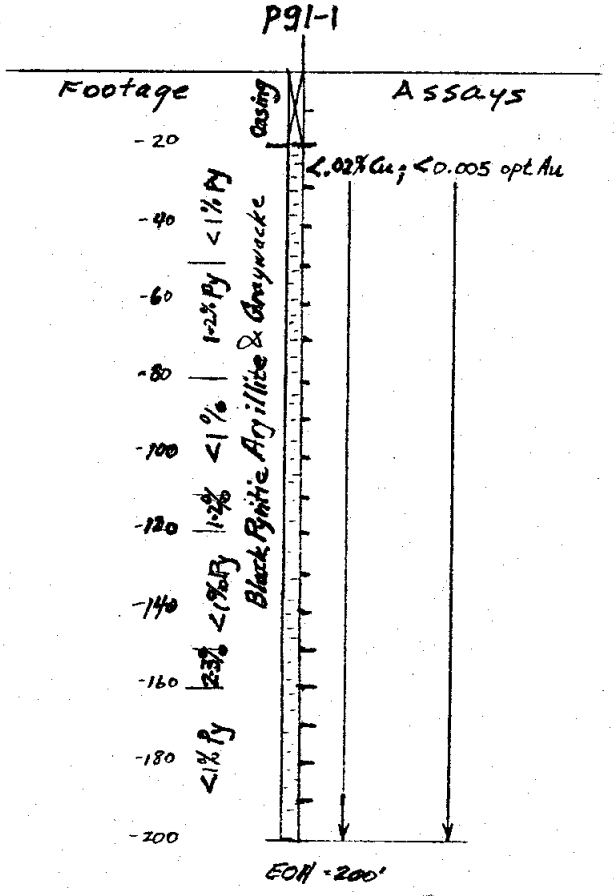
CERTIFICATION: B. Caughlin

APPENDIX B

Percussion Drill Hole P91-1
Log - T. Horning
Peach Lake Resources Property

Sept. 10, 1991

Location: 750N x 2400W
Peach Lake Grid



Percussion Drill Hole P91-2
Log - T. Horning
Peach Lake Resources Property

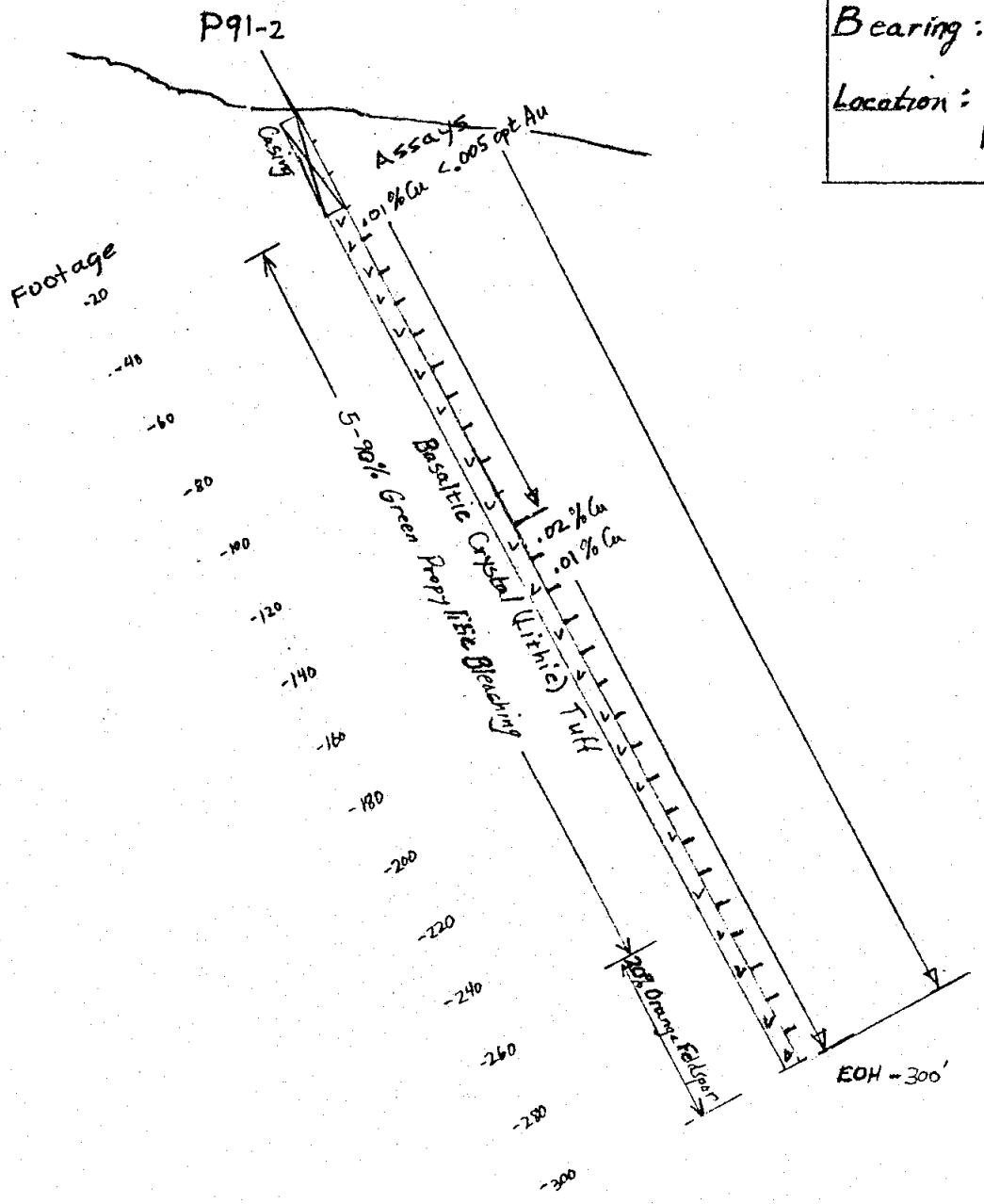
Sept. 11-12, 1991

Inclination : -60°

Bearing : 30°

Location : 1490 N x 1135 W
Peach Lake Grid

View To Northwest

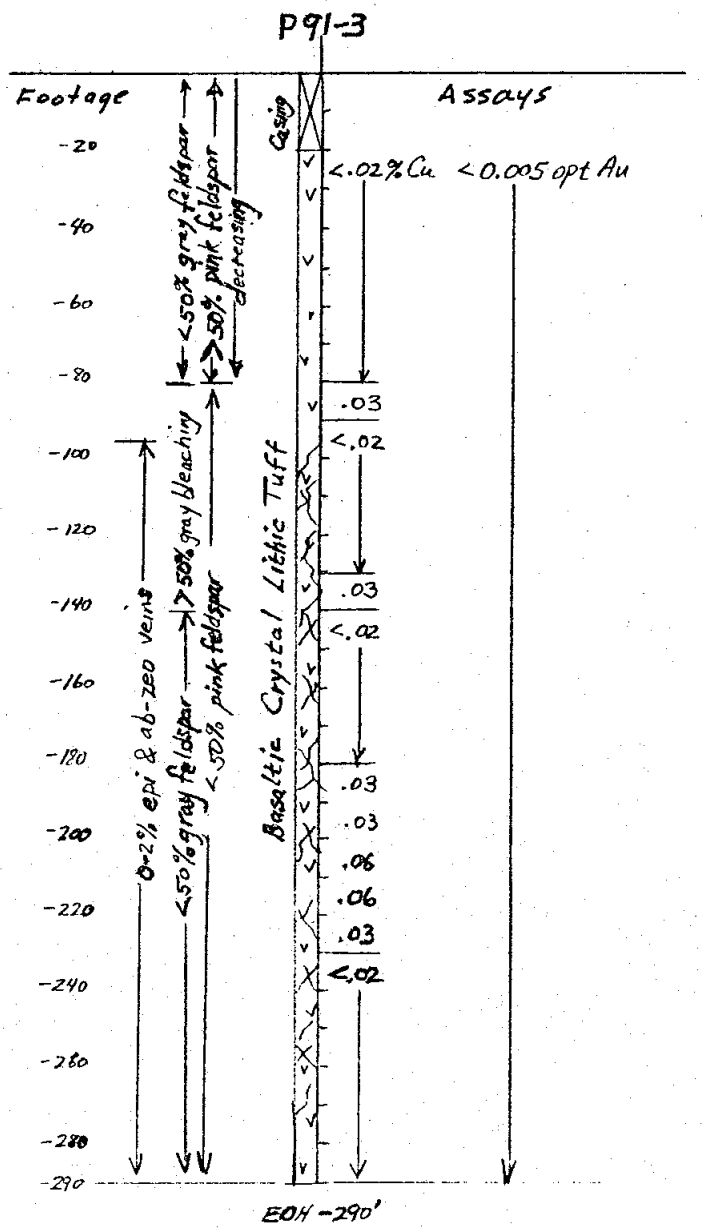


Percussion Drill Hole P91-3
Log - T. Horning
Peach Lake Resources Property

Sept. 13, 1991

Inclination : -90°

Location: 18+20 N x 2+00 W
Peach Lake Grid

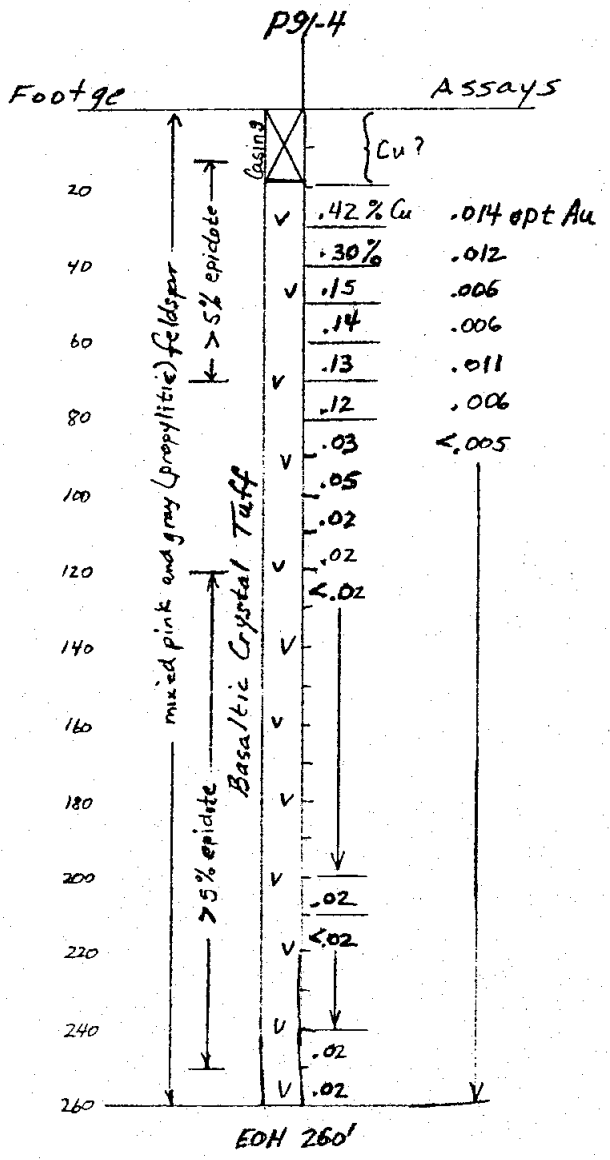


Percussion Drill Hole P91-4
Log T. Horning
Peach Lake Resources Prop.

Sept. 15, 1991

Inclination: -90°

Location: 1725N x 2+00W
Peach Lake Grid

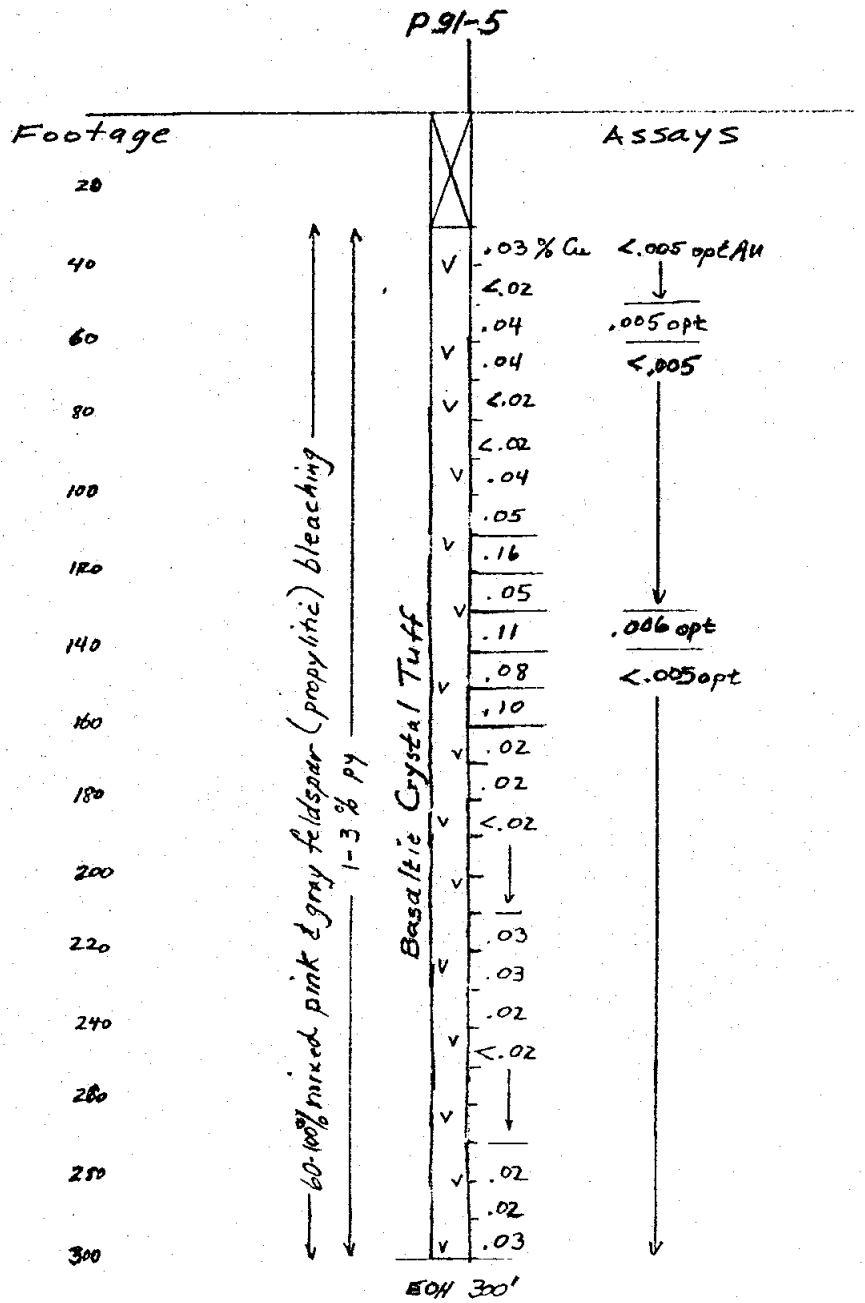


Percussion Drill Hole P91-5
Log - T. Horning
Peach Lake Property

Sept. 16, 1991

Inclination: -90°

Location: 1680N x 005 W
[Peach Lake Grid; measured from OW line]



ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

SEPTEMBER 23, 1991

CERTIFICATE OF ANALYSIS ETK 91-752

ASARCO INC.
E. 920 WOLVERTON CRT.
SPOKANE,WASHINGTON
U.S.A.
99207

COPY

ATTENTION: MIKE McCLAVE

SAMPLE IDENTIFICATION: 72 PERCUSSION DRILL samples received SEPTEMBER 16, 1991

ET#	Description	AU (ppb)	CU (ppm)
1-	108501	5	101
2-	108502	15	97
3-	108503	5	121
4-	108504	20	134
5-	108505	10	109
6-	108506	15	77
7-	108507	10	102
8-	108508	10	89
9-	108509	5	88
10-	108510	10	71
11-	108511	5	73
12-	108512	10	97
13-	108513	15	91
14-	108514	10	83
15-	108515	5	75
16-	108516	20	91
17-	108517	10	82
18-	108518	15	132
19-	108519	10	139
20-	108520	20	145
21-	108521	10	139
22-	108522	5	140
23-	108523	5	119
24-	108524	5	140
25-	108525	10	133
26-	108526	5	114
27-	108527	5	124
28-	108528	5	128
29-	108529	10	178

ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

ASARCO INC. ETK 91-752 SEPTEMBER 23, 1991

ET#	Description	AU (ppb)	CU (ppm)
30-	108530	5	129
31-	108531	45	119
32-	108532	25	140
33-	108533	10	129
34-	108534	5	144
35-	108535	10	142
36-	108536	10	143
37-	108537	5	133
38-	108538	5	125
39-	108539	10	118
40-	108540	5	143
41-	108541	5	83
42-	108542	5	95
43-	108543	10	53
44-	108544	5	65
290-300 45-	108545	5	67
30-40 46-	108551	75	152
47-	108552	35	150
48-	108553	10	73
49-	108554	35	116
50-	108555	70	169
51-	108556	35	191
52-	108557	70	282
53-	108558	20	192
54-	108559	30	182
55-	108560	35	161
56-	108561	20	198
57-	108562	30	277
58-	108563	5	145
59-	108564	30	169
60-	108565	20	157
61-	108566	25	113
62-	108567	30	278
63-	108568	15	249
64-	108569	135	628

91-3

91-3

0-290'

ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

ASARCO INC. ETK 91-752 SEPTEMBER 23, 1991

ET#	Description	AU (ppb)	CU (ppm)
65-	108570	90	643
66-	108571	40	341
67-	108572	25	192
68-	108573	25	99
69-	108574	5	97
70-	108575	15	72
71-	108576	5	74
290-300 72-	108577	30	192

NOTE: < = less than

c.c. : R.E. GALE & ASSOC.
4338 RUTH CRESC.
N. VANCOUVER, B.C.
V7K 2M9
ATTN: BOB GALE

FAX: TOM HORNING
(604) 396-4447
ASARCO INC.(Mike McLave)
(509) 483-0131

SC91/ASARCO1

COPY

ECO-TECH LABORATORIES LTD.
FRANK J. PEZZOTTI, A.Sc.T.
B.C. Certified Assayer

ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

SEPTEMBER 23, 1991

CERTIFICATE OF ANALYSIS ETK 91-760

ASARCO INC. c/o D. THOMPSON
E. 920 WOLVERTON CRT.
SPOKANE,WASHINGTON
U.S.A.
99207

ATTENTION: MIKE McCLAVE

SAMPLE IDENTIFICATION: 54 DRILL CUTTINGS/ ROCK samples received SEPTEMBER 17, 1991

ET#	Description	AU (ppb)	CU (ppm)
check sample 1-	~~108578~~	~~>1000~~	~~484~~
8-30 — 2-	108579	425	4237
3-	108580	365	2969
4-	108581	173	1478
5-	108582	180	1407
6-	108583	310	1345
7-	108584	180	1157
8-	108585	75	356
9-	108586	80	502
10-	108587	20	214
11-	108588	20	205
12-	108589	25	134
13-	108590	5	166
14-	108591	25	136
15-	108592	35	126
16-	108593	25	115
17-	108594	40	125
18-	108595	55	110
19-	108596	35	134
20-	108597	45	237
21-	108598	25	169
22-	108599	85	155
23-	108600	125	167
24-	108601	60	223
250-260 25-	108602	50	247
20-30 26-	108603	60	337
27-	108604	55	168
28-	108605	140	468
29-	108606	105	443

91-4

91-5

pg1-4

91-5

20-300

ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

ASARCO INC. c/o D. THOMPSON ETK 91-760 SEPTEMBER 23, 1991

ET#	Description	AU (ppb)	CU (ppm)
30-	108607	40	143
31-	108608	45	183
32-	108609	60	381
33-	108610	55	462
34-	108611	95	539
35-	108612	135	1624
36-	108613	60	502
37-	108614	165	1058
38-	108615	130	793
39-	108616	75	958
40-	108617	20	216
41-	108618	10	199
42-	108619	10	88
43-	108620	15	79
44-	108621	30	82
45-	108622	25	262
46-	108623	45	308
47-	108624	40	231
48-	108625	15	64
49-	108626	15	120
50-	108627	20	192
51-	108628	25	204
52-	108629	35	226
290-300 53-	108630	90	282

[redacted]

NOTE: < = less than

ECO-TECH LABORATORIES LTD.
FRANK J. PEZZOTTI, A.Sc.T.
B.C. Certified Assayer

c.c. : R.E. GALE & ASSOC.
4338 RUTH CRESC.
N. VANCOUVER, B.C.
V7K 2M9
ATTBOB GALE

FAX: TOM HORNING
(604) 396-4447
ASARCO INC.(Mike McLave)
(509) 483-0131

SC91/ASARCO1

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,913

ASARCO Inc.
Western Canada Exploration Division

Geological Map

Peach Lake Resources Property
Lac La Hache Project
Clinton Mining District, B.C.

Scale 1:5000 Oct. 1991 T. Horning

0 100 200 300 400 500 meters

N 22° NW

Explanation

Mzm	Mafic monzonite
Syp	Syenite porphyry
Sy	Equigranular syenite
Btxb	Basaltic tuff breccia
Bxt(c)	Basaltic crystal tuff, calcareous
Bxt	Basaltic crystal tuff
Bt	Basaltic tuff
Axlt	Andesite crystal lithic tuff
ls	Limestone; black & siliceous
Gw	Graywacke & siltstone

Contact, dashed where approximate

Fault, dashed where approximate

ASARCO Drill Hole

Previous Drill Holes (AMAX 1972)

▲ Sample Site

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
T. HORNING
1991

FIGURE 4