

MINERAL TITLES BRANCH  
Re:  
MAR 20 2001  
L.I.# \_\_\_\_\_  
File \_\_\_\_\_  
VANCOUVER, B.C.

**Report # 3-  
On-going exploration on the  
Deerhorn (rand) project,  
Follow up leach survey  
and related work**

**Cariboo Mining Division**

**NTS 93A-3W, 93A-6W  
Lat. 52° 16' 3" Long. 121° 21'**

**Owned by:  
Herb Wahl  
Jack Brown-John  
Rudy C. Riepe  
Operated by Performance Minerals Canada Ltd.**

**Prepared by:  
Rudy C. Riepe, Prospector  
P.O. box 69 Sechelt B.C.  
February, 2001**

**GEOLOGICAL SURVEY BRANCH  
ANNUAL REPORT**

**26,516**

Statement of Costs  
Rand # 1

November 27/2000

Work on Rand # 1 mineral claim was performed by:

Rudy C. Riepe, experienced prospector  
2 Field days at \$300 a day from october 15 to 16 \$600.00  
3 Office days at \$200 a day from october 25 to 27 \$600.00

Hans Schwable, experienced prospector  
2 Field days at \$300 a day from october 15 to 16 \$600.00

Work subtotal \$1800.00

Truck 4 by 4, 1993 Tahoe, 3 days at 60 dollars a day \$180.00

Expenses and Travel \$175.00

Copies and Supplies \$40.00

Grand Total \$2195.00

Certified true and correct



Signed:  
Rudy C. Riepe

## **List of Figures**

- Fig. 1    General location**
- 2        Claim Map    1:31680**
- 3        Claim Map + Detail**
- 4        Detail Work Map    1:10,000**
- 5        Geochem Section A to B**
- 6        Geochem Section C to D**
- 7        Forestry Tenure + Access**

## **Assay Reports**

- 1        Chemex Ltd.    A9919733**
- 2        Chemex Ltd.    A9826229**
- 3        Chemex Ltd.    A9726548**

## SUMMARY

Results of a cold leach Geochem program resulted in match up over a 14 M.S. I.P. anomaly.

This zone within the Rand. # 1 claim is located just north of a known drill indicated gold-copper Deposit (Megabuck) held by Phelps-Dodge Corp of Canada under option.

Some anomalous ICP values have been followed up, 1500 m to the east of the first target. Deeper trenching produced examples of fine Chalcocite remnants in leached, fractured + oxidized volcanics and altered sediments.

Ongoing exploration for 2001 will include a minimum of 2 drill test (DDH) and an excavator trenching program to deepen the ditchline previously exposed by hand trenching.

The geology + history has been reported on, in previous reports (Deerhorn Rand).

## WORK PERFORMED

- a) Chain + compass survey of drill sites.
- b) Relocate ICP sample site and hand trench to depth 2' or more.
- c) Interpretation of leach survey includes As, Co sections. A to B and C to D, per figures 5 and 6.
- d) Consultation with Patrick Hydsmith of Chemex Ltd.
- e) Received approval for reclamation, Bonding and Work program.

## LOCATION AND ACCESS (Figs. 1, & A)

The property lies 7 km southeast of Horsefly, just south of the Horsefly River. Access is south from Horsefly on the 108 Road to Woodjam Road, then east to the bridge spanning Deerhorn Creek. A network of secondary logging trails provides access to most interior areas of the claims.

## PROPERTY (Fig. 1A)

The property is constituted as follows:

<u>Claim</u>	<u>Record No.</u>	<u>Units</u>	<u>Record Date</u>
Rand-1	362837	20	13 May 1998
Rand-2	367381	20	27 Nov. 1998
Rand-3	368561	18	14 April 1999
EPCity-1	368450	1	12 April 1989
EPCity-2	368451	1	12 April 1989
EPCity-3	368452	1	12 April 1989
EPCity-4	368453	1	12 April 1989
EPCity-5	368454	1	12 April 1989
EPCity-6	368455	<u>1</u>	12 April 1989
		64 units	

The claims are all situated in the Cariboo Mining Division. Annual assessment expenditure per claim unit is \$100 in the first three years of tenure, increasing to \$200/unit thereafter. The above are all in good standing until the next anniversary date.

## TERRAIN/ TOPOGRAPHY

The rand mineral claims lie within the Quesnel Highland division of the Central B.C. Fraser Plateau. Elevations in the claimed area range from 2,800 feet ASL in the Horsefly River Valley, to some 330 feet ASL in the southern claim area. Terrain is generally flattish to rolling, principal stream drainage is northerly into the Horsefly River. About 40% of the area is regenerating cut blocks, with the usual spruce-pine-fir-aspen timber present in un-logged areas. Glacial overburden is extensive and thick, with glacial outwash more abundant towards the Horsefly River. The only outcrop observed was syenitic intrusive, present as a substantial stock west of Deerhorn Creek.

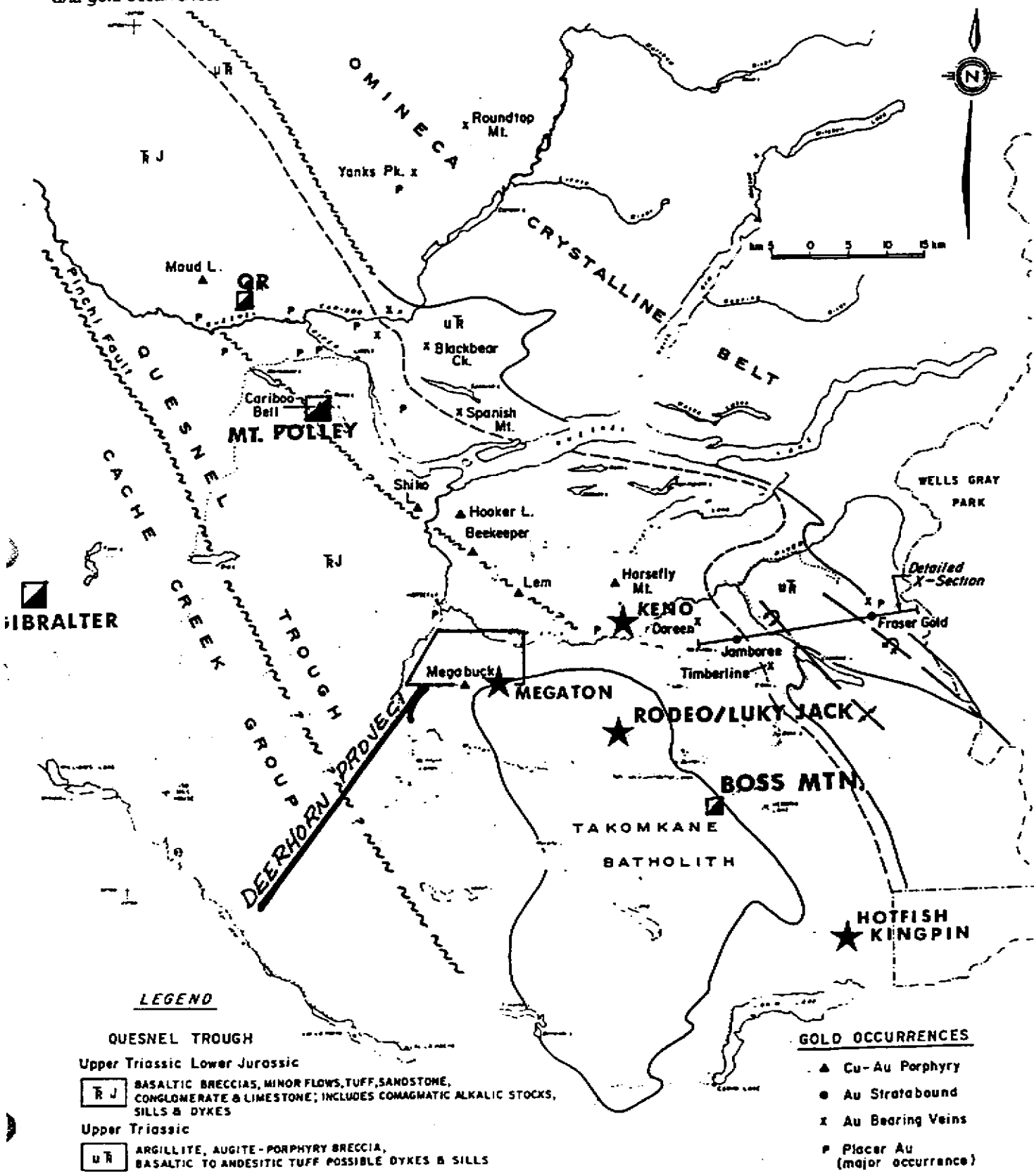
to fault movement has occurred.

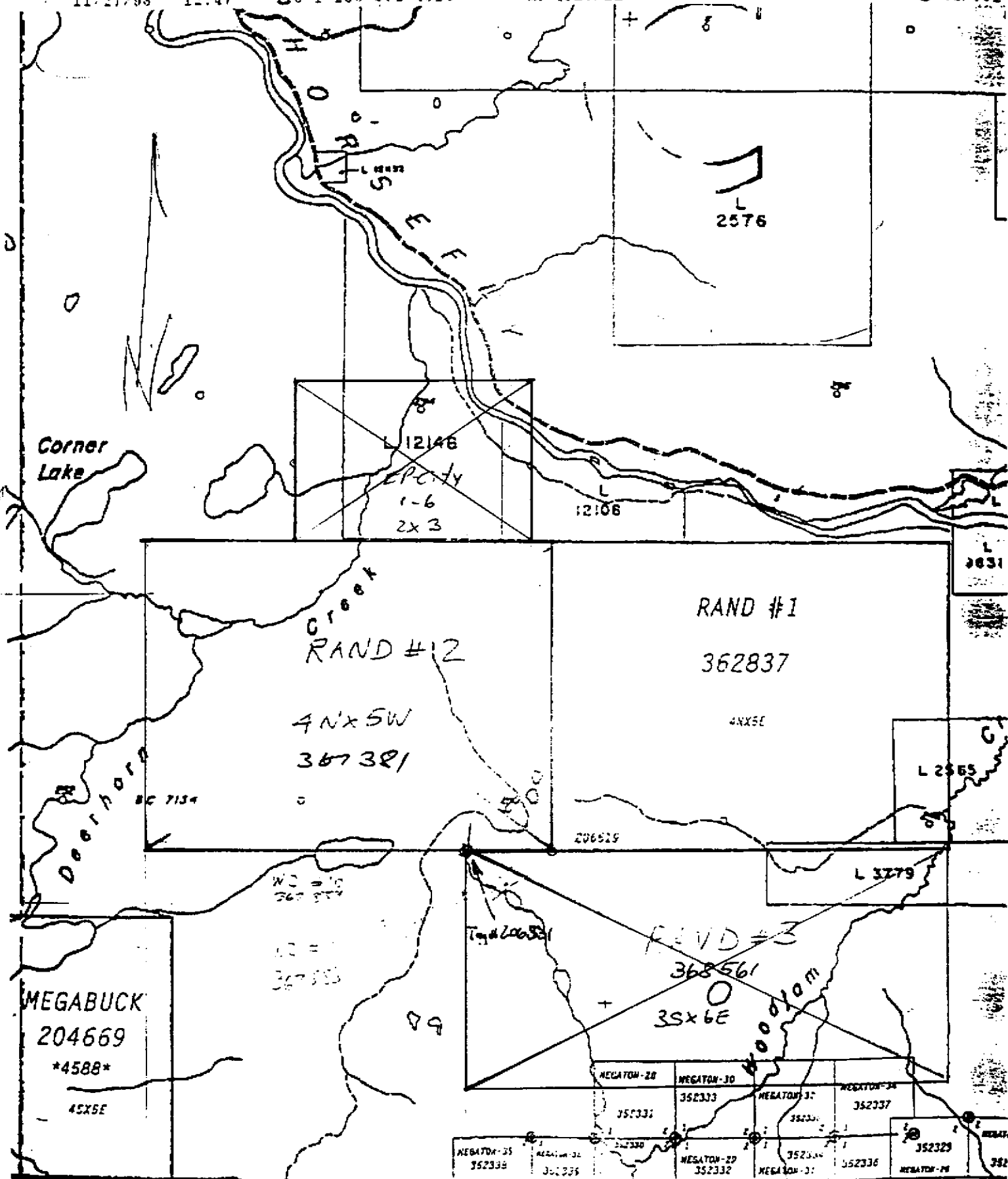
**GOLD MINERALIZATION AND ASSOCIATED DEPOSIT**

Lode gold mineralization was reported from the area as early as 1902, when placer miners drove tunnels on pyrite bearing

Figure 1. Location map showing major tectonic features and gold occurrences

**Fig. 1**  
**Performance Minerals Canada Ltd.**  
**Deerhorn (Rand) Gold-Copper Project**  
**General Location Map**





MAP = 93A6W

Scale 1" = 31680'

Fig 1A to 2





## Geochemistry

Previous collected soil samples and their assay results were compared with enzyme leach work on Rand. # 2 claim reported in report # 2 in July 1999.

This year a Cold Hydroxylamine leach was done with Chemex labs in house procedure under P. Hydsmith.

2 lines, 200 meters apart and at 50 m stations for a total of 33 assays show some remarkable similar elemental line up, with the Enzyme Method.

Sections of both lines are included with figure 5 + 6.

ICP stations established previously, showed increases in anomalous values to the east.

The writer compared indicator elements found here with those found with supergene values at the Megaton; a match up is evident.

## The Exploration Target

With high grade copper and gold values to the south (Megaton) and to the west (Dot Com), conditions are favorable for a potentially high grade supergene copper Blanket over a porphyry system with extra ordinary tonnage potential; in advance of the Takomkane Batholith, protected from erosion by Miocene Plateau Basalt.

The apex anomaly on line A B, station 12 to 13 and the oxidation halo on line C D, station 27 will do for D D Targets.

1500 meters to the east deep trenching may reveal an extension of magnitude for this system.

## Conclusion

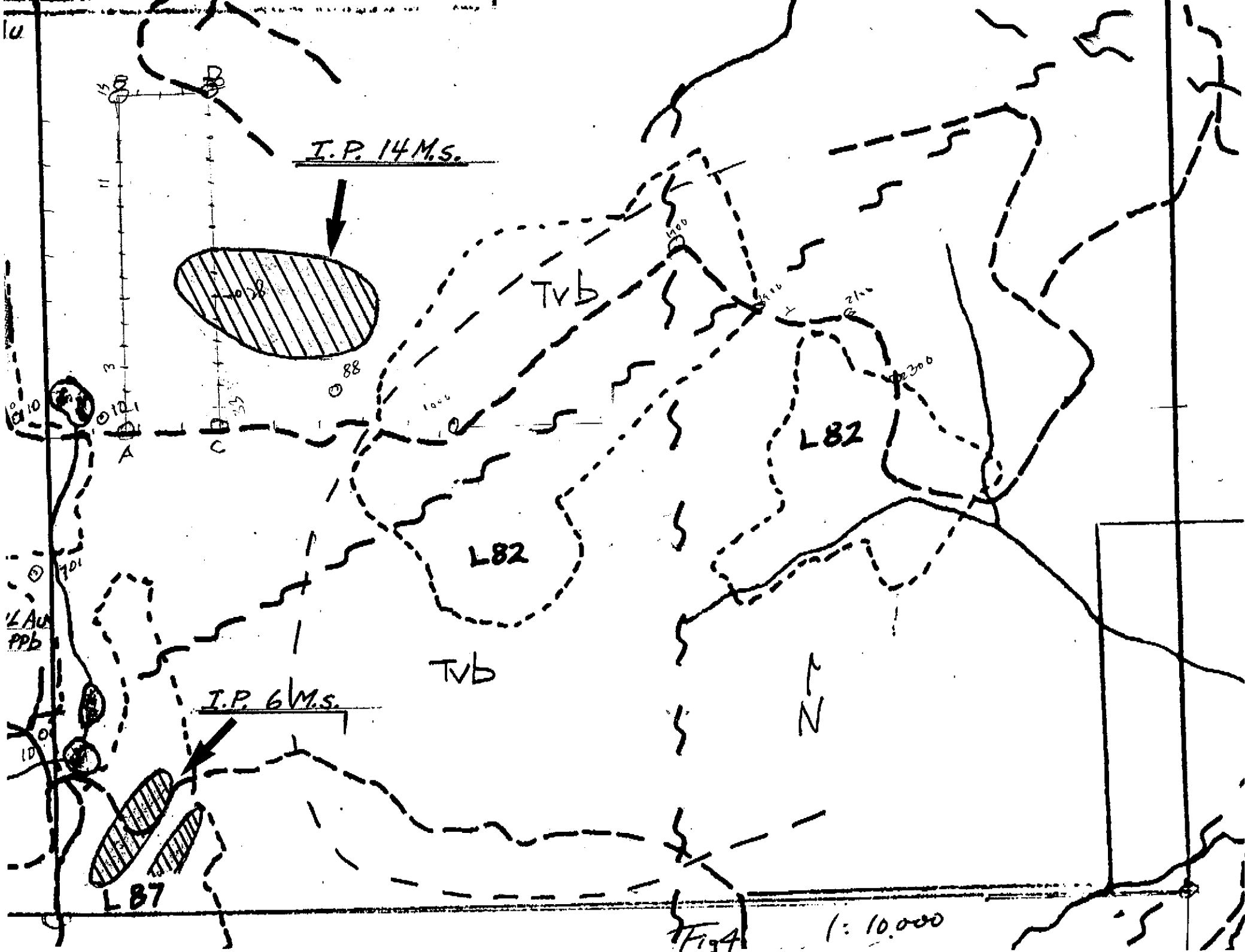
The abundance of Chalcocite beneath and adjacent to the Miocene Basalt cover.

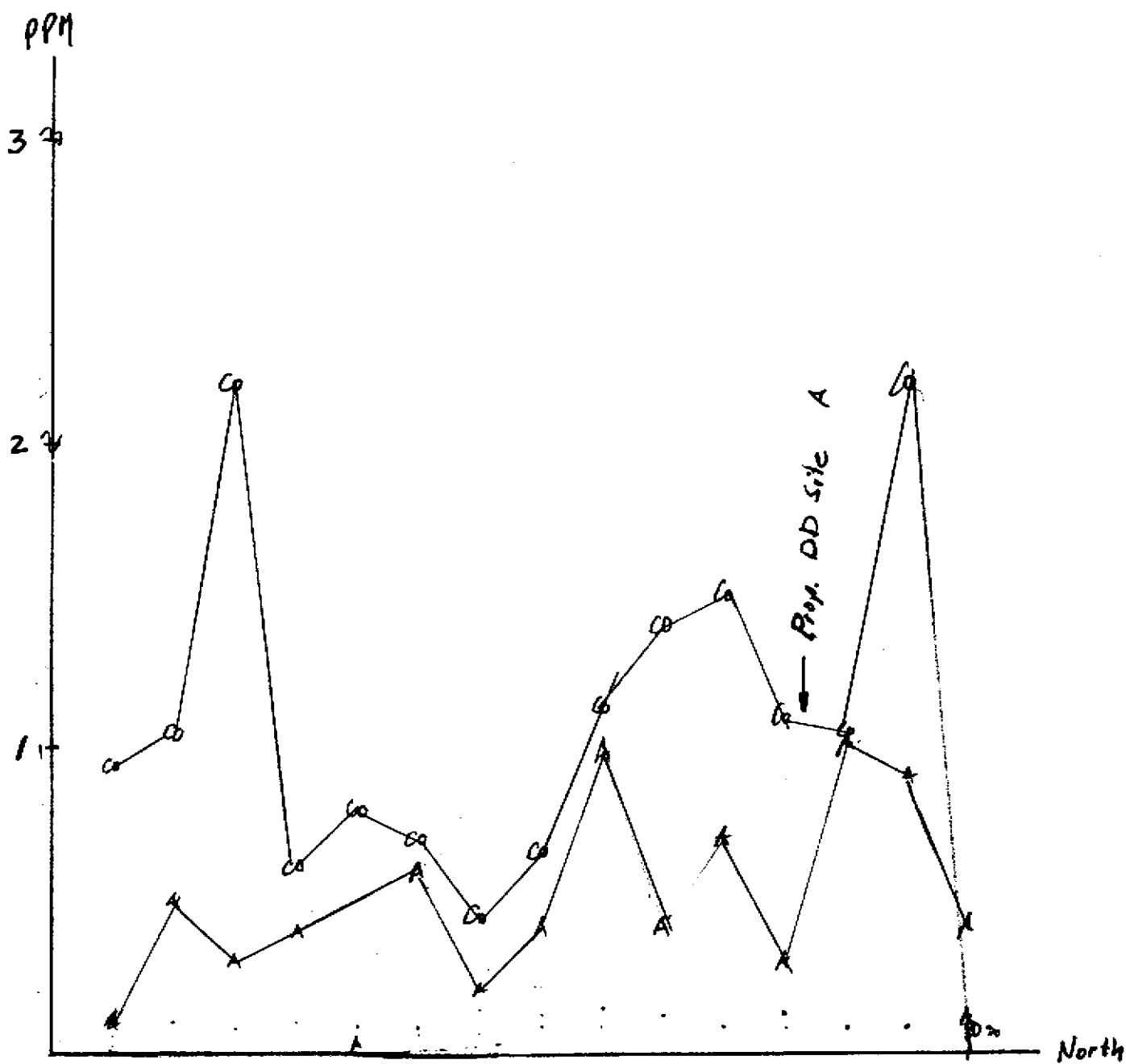
The Stacking of Data over and near the 14 M.S. I.P. anomaly.

Together with persistent occurring Epithermal evidence of high Mercury Antimony and Silver from Dot Com through White Channel to Stope Baby, Deer Horn Rand to Megaton.

These factors are stimulating the 2001 to 2002 Exploration commitment here.

U





A 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 B  
 Section A-B  
 Stations @ 50m int.

Scale 1:5000

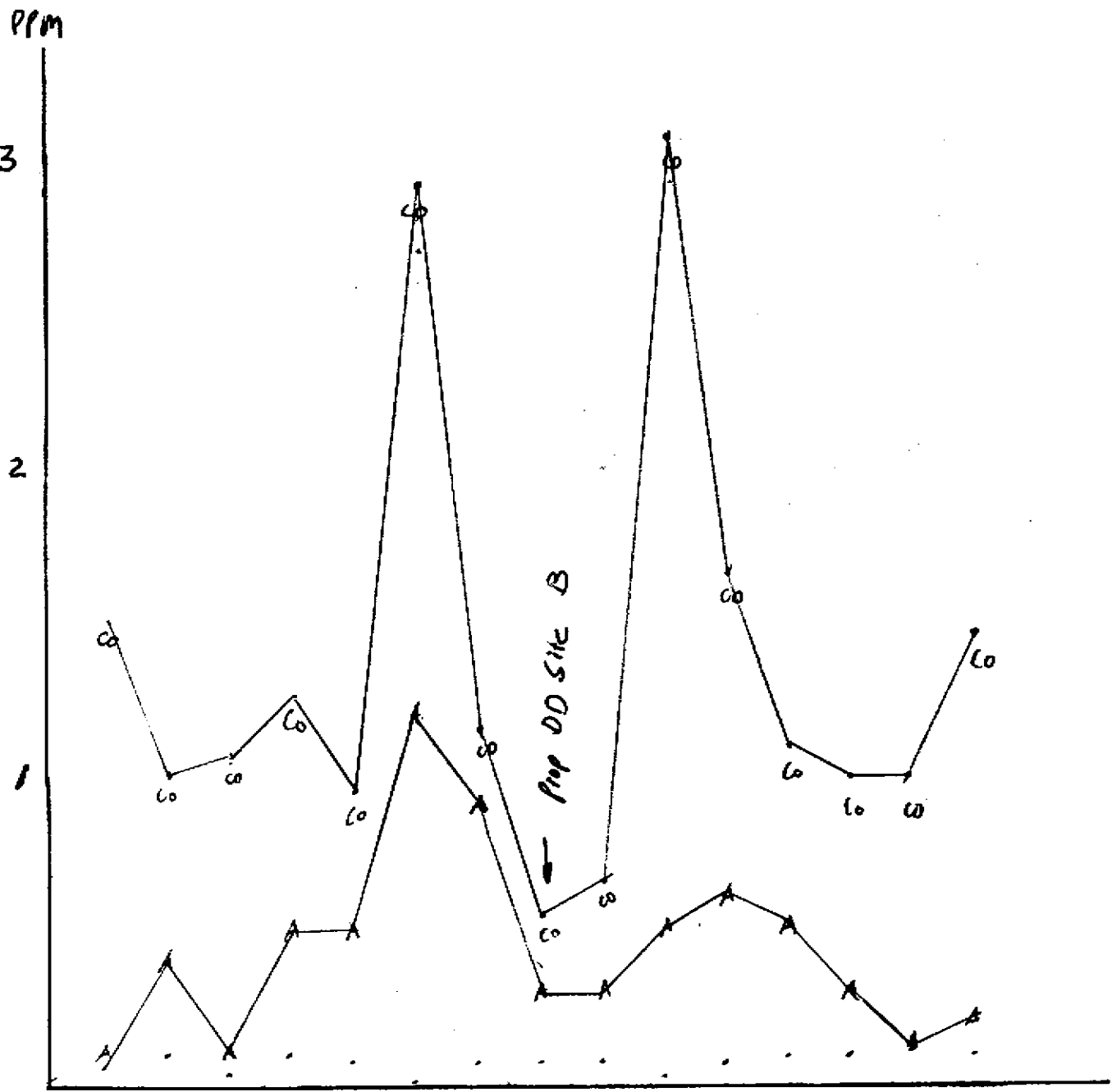
Elements plotted: Arsenic A

Cobalt Co

Fig 5

Fig 5

Fig 6



C 33 32 31 30 29 28 27 26 25 23 22 21 20 19 D

crossing 14 MS Pan.

Cold Hydroxylamine Leads Fig 6





# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

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ATTN: RUDY RIEPE  
BOX 69  
SECHLT, BC  
VON 3A0

##

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\* PLEASE NOTE

## CERTIFICATE OF ANALYSIS A9919733

SAMPLE	PREP CODE	Ag ppm ICP-MS	Al ppm ICP-MS	As ppm ICP-MS	Au ppm ICP-MS	Ba ppm ICP-MS	Be ppm ICP-MS	Bi ppm ICP-MS	Br ppm ICP-MS	Ca ppm ICP-MS	Cd ppm ICP-MS	Ce ppm ICP-MS	Co ppm ICP-MS	Cr ppm ICP-MS	Cs ppm ICP-MS
M680801	201 202	0.006	563	< 0.1	< 0.05	81.6	< 0.05	< 0.005	< 2	1630	0.02	0.115	0.95	0.45	< 0.005
M680802	201 202	0.010	541	0.5	< 0.05	76.0	0.05	< 0.005	< 2	1160	0.03	0.185	1.05	0.40	< 0.005
M680803	201 202	0.008	285	0.3	< 0.05	67.7	< 0.05	< 0.005	< 2	1380	0.02	0.855	2.00	0.25	< 0.005
M680804	201 202	0.010	376	0.4	< 0.05	54.7	< 0.05	< 0.005	2	1390	0.03	0.235	0.60	0.25	< 0.005
M680805	201 202	0.008	578	< 0.1	< 0.05	71.0	< 0.05	< 0.005	< 2	890	0.02	0.175	0.80	0.40	< 0.005
M680806	201 202	0.008	564	0.6	< 0.05	70.7	< 0.05	< 0.005	< 2	1350	0.04	0.095	0.70	0.45	< 0.005
M680807	201 202	0.006	653	0.2	< 0.05	66.0	0.05	< 0.005	2	930	0.02	0.185	0.45	0.35	< 0.005
M680808	201 202	0.008	772	0.4	< 0.05	57.6	0.05	< 0.005	< 2	620	0.01	0.210	0.65	0.40	< 0.005
M680809	201 202	0.014	514	1.0	< 0.05	52.4	0.05	< 0.005	< 2	980	< 0.01	0.465	1.15	0.25	< 0.005
M680810	201 202	0.012	625	0.4	< 0.05	63.9	< 0.05	< 0.005	< 2	990	< 0.01	0.400	1.40	0.45	< 0.005
M680811	201 202	0.008	528	0.7	< 0.05	39.6	0.05	< 0.005	< 2	1550	0.01	0.890	1.50	0.40	< 0.005
M680812	201 202	0.012	397	0.3	< 0.05	24.7	< 0.05	< 0.005	< 2	1650	0.03	0.630	1.10	0.25	< 0.005
M680813	201 202	0.008	332	1.0	< 0.05	47.7	< 0.05	< 0.005	< 2	2150	0.03	0.590	1.05	0.30	< 0.005
M680814	201 202	0.008	374	0.9	< 0.05	55.0	0.05	< 0.005	< 2	2020	0.03	2.18	2.00	0.40	< 0.005
M680815	201 202	0.004	29	0.4	< 0.05	31.0	< 0.05	< 0.005	< 2	4760	0.07	0.190	0.30	0.30	< 0.005
M680816	201 202	0.008	303	0.1	< 0.05	41.4	< 0.05	< 0.005	< 2	1490	0.01	1.300	0.65	0.30	< 0.005
M680817	201 202	0.016	613	< 0.1	< 0.05	78.1	< 0.05	< 0.005	< 2	800	< 0.01	0.300	1.25	0.40	< 0.005
M680818	201 202	0.010	849	0.2	< 0.05	106.0	0.05	< 0.005	< 2	990	0.01	0.270	1.45	0.45	< 0.005
M680819	201 202	0.012	534	0.1	< 0.05	116.5	< 0.05	< 0.005	2	1180	0.03	0.820	1.00	0.40	< 0.005
M680820	201 202	0.010	362	0.3	< 0.05	78.3	< 0.05	< 0.005	< 2	1550	0.05	0.585	1.00	0.25	< 0.005
M680821	201 202	0.010	529	0.5	< 0.05	80.1	< 0.05	< 0.005	< 2	1390	0.04	0.410	1.10	0.30	< 0.005
M680822	201 202	0.008	567	0.6	< 0.05	84.4	0.05	< 0.005	< 2	1650	0.06	0.535	1.65	0.25	< 0.005
M680823	201 202	0.004	854	0.5	< 0.05	103.0	< 0.05	< 0.005	< 2	700	0.03	0.455	3.05	0.30	0.005
M680825	201 202	0.008	945	0.3	< 0.05	83.6	< 0.05	< 0.005	< 2	710	< 0.01	0.095	0.65	0.45	0.010
M680826	201 202	0.008	335	0.3	< 0.05	81.5	< 0.05	< 0.005	< 2	1560	0.01	0.205	0.55	0.25	< 0.005
M680827	201 202	0.008	561	0.9	< 0.05	81.1	< 0.05	< 0.005	< 2	1360	0.02	0.310	1.15	0.20	< 0.005
M680828	201 202	0.002	149	1.2	< 0.05	66.9	< 0.05	< 0.005	2	2140	0.10	0.110	2.90	0.20	< 0.005
M680829	201 202	0.008	944	0.5	< 0.05	134.0	< 0.05	< 0.005	< 2	1170	0.02	0.190	0.95	0.40	< 0.005
M680830	201 202	0.010	809	0.5	< 0.05	85.9	< 0.05	< 0.005	< 2	1150	0.05	0.240	1.25	0.45	< 0.005
M680831	201 202	0.004	570	< 0.1	< 0.05	133.5	0.05	< 0.005	< 2	1730	0.03	0.060	1.05	0.30	< 0.005
M680832	201 202	0.010	328	0.4	< 0.05	51.6	< 0.05	< 0.005	< 2	1160	0.01	0.260	1.00	0.20	< 0.005
M680833	201 202	0.006	659	0.1	< 0.05	105.0	< 0.05	< 0.005	< 2	1850	0.03	0.120	1.45	0.40	< 0.005

CERTIFICATION:

\* COLD HYDROXYLAMINE LEACH.



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: PERFORMANCE MINERALS OF CANADA LTD.  
 ATTN: RUDY RIEPE  
 BOX 69  
 SECHLT, BC  
 V0N 3A0

# #

Page Number : 1-B  
 Total Pages : 1  
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 Invoice No. : 19919733  
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Project : CARIBOO RAND  
 Comments: ATTN: RUDY RIEPE CC: HERB WAHL

\* PLEASE NOTE

## CERTIFICATE OF ANALYSIS A9919733

SAMPLE	PREP CODE		Cu ppm	Dy ppm	Er ppm	Eu ppm	Fe ppm	Gd ppm	Hg ppm	Ho ppm	I ppm	K ppm	Li ppm	Lu ppm	Mg ppm	Mn ppm
			ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS
M680801	201	202	0.05	0.005	< 0.005	< 0.005	295	0.005	< 0.1	< 0.005	< 0.1	555	< 0.05	< 0.005	369	48.0
M680802	201	202	0.50	0.010	0.005	< 0.005	315	0.005	< 0.1	< 0.005	< 0.1	315	< 0.05	< 0.005	161	140.0
M680803	201	202	0.15	0.030	0.020	< 0.005	265	0.050	< 0.1	0.005	< 0.1	465	0.10	< 0.005	410	98.9
M680804	201	202	0.15	0.015	0.005	< 0.005	240	0.010	< 0.1	< 0.005	< 0.1	170	< 0.05	< 0.005	232	84.3
M680805	201	202	0.10	0.010	0.005	< 0.005	410	0.015	< 0.1	< 0.005	< 0.1	250	< 0.05	< 0.005	141	89.9
M680806	201	202	0.10	0.005	< 0.005	< 0.005	350	0.005	< 0.1	< 0.005	< 0.1	790	< 0.05	< 0.005	255	119.5
M680807	201	202	0.10	0.005	< 0.005	< 0.005	300	0.005	< 0.1	< 0.005	< 0.1	410	0.10	< 0.005	210	48.4
M680808	201	202	0.05	0.010	0.005	< 0.005	380	0.015	< 0.1	< 0.005	< 0.1	335	< 0.05	< 0.005	193	51.8
M680809	201	202	0.15	0.020	0.005	< 0.005	375	0.020	< 0.1	< 0.005	< 0.1	225	< 0.05	< 0.005	251	63.0
M680810	201	202	0.05	0.015	0.005	< 0.005	330	0.015	< 0.1	< 0.005	< 0.1	375	< 0.05	< 0.005	203	58.2
M680811	201	202	0.15	0.035	0.020	0.005	370	0.040	< 0.1	0.005	< 0.1	240	0.05	< 0.005	231	63.5
M680812	201	202	0.10	0.030	0.015	< 0.005	170	0.045	< 0.1	< 0.005	< 0.1	380	0.05	< 0.005	439	19.5
M680813	201	202	0.15	0.020	0.005	< 0.005	335	0.035	< 0.1	< 0.005	< 0.1	470	< 0.05	< 0.005	383	91.7
M680814	201	202	0.15	0.085	0.035	0.015	325	0.110	< 0.1	0.015	< 0.1	325	< 0.05	< 0.005	253	87.1
M680815	201	202	0.30	0.010	0.010	< 0.005	40	0.025	< 0.1	< 0.005	0.1	405	0.15	< 0.005	1420	177.5
M680816	201	202	0.10	0.060	0.025	0.005	280	0.060	< 0.1	0.005	< 0.1	295	0.05	< 0.005	231	27.3
M680817	201	202	0.10	0.015	0.005	< 0.005	580	0.015	< 0.1	< 0.005	< 0.1	145	< 0.05	< 0.005	161	48.2
M680818	201	202	0.10	0.010	0.005	< 0.005	690	0.015	< 0.1	< 0.005	< 0.1	290	< 0.05	0.005	182	77.6
M680819	201	202	0.05	0.035	0.020	< 0.005	315	0.045	< 0.1	0.005	< 0.1	170	0.15	< 0.005	176	71.7
M680820	201	202	0.05	0.025	0.010	< 0.005	335	0.025	< 0.1	< 0.005	< 0.1	275	< 0.05	< 0.005	392	85.1
M680821	201	202	0.10	0.020	0.005	< 0.005	380	0.025	< 0.1	< 0.005	< 0.1	410	< 0.05	< 0.005	399	67.0
M680822	201	202	0.05	0.015	0.005	< 0.005	380	0.015	< 0.1	< 0.005	< 0.1	420	0.05	< 0.005	346	97.6
M680823	201	202	0.15	0.005	0.005	< 0.005	555	0.010	< 0.1	< 0.005	< 0.1	100	< 0.05	< 0.005	208	290
M680825	201	202	0.10	< 0.005	< 0.005	< 0.005	710	< 0.005	< 0.1	< 0.005	< 0.1	90	0.05	< 0.005	179	21.6
M680826	201	202	0.05	0.005	0.005	< 0.005	270	0.010	< 0.1	< 0.005	< 0.1	185	0.05	< 0.005	318	77.4
M680827	201	202	0.05	0.015	0.005	< 0.005	365	0.005	< 0.1	< 0.005	< 0.1	380	< 0.05	< 0.005	280	93.2
M680828	201	202	0.05	< 0.005	< 0.005	< 0.005	175	< 0.005	< 0.1	< 0.005	< 0.1	605	0.15	< 0.005	545	269
M680829	201	202	0.10	0.010	0.005	< 0.005	455	0.010	< 0.1	< 0.005	< 0.1	335	0.05	< 0.005	323	73.0
M680830	201	202	0.05	0.010	0.005	< 0.005	360	0.010	< 0.1	< 0.005	0.3	230	< 0.05	< 0.005	286	90.9
M680831	201	202	0.05	< 0.005	< 0.005	< 0.005	290	< 0.005	< 0.1	< 0.005	< 0.1	490	< 0.05	< 0.005	385	130.0
M680832	201	202	0.05	0.005	< 0.005	< 0.005	225	0.005	< 0.1	< 0.005	< 0.1	495	< 0.05	< 0.005	203	209
M680833	201	202	0.10	0.005	< 0.005	< 0.005	320	< 0.005	< 0.1	< 0.005	< 0.1	315	< 0.05	< 0.005	246	168.0

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SAMPLE	PREP CODE		Mo ppm	Na ppm	Nb ppm	Nd ppm	Ni ppm	P ppm	Pb ppm	Pr ppm	Rb ppm	Sb ppm	Se ppm	Sm ppm	Sr ppm	Sr ppm
			ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS
M680801	201	202	< 0.01	< 10	< 0.01	0.050	0.55	370	< 0.1	0.010	0.59	< 0.005	< 0.5	0.135	< 0.05	24.5
M680802	201	202	0.03	< 10	< 0.01	0.055	0.70	360	1.4	0.010	0.45	< 0.005	< 0.5	0.135	< 0.05	18.75
M680803	201	202	0.03	< 10	< 0.01	0.265	1.40	345	< 0.1	0.075	0.62	< 0.005	< 0.5	0.140	< 0.05	21.3
M680804	201	202	< 0.01	10	< 0.01	0.095	0.95	295	< 0.1	0.020	0.39	< 0.005	< 0.5	0.100	< 0.05	25.3
M680805	201	202	0.01	< 10	< 0.01	0.055	0.55	595	< 0.1	0.015	0.27	< 0.005	< 0.5	0.125	< 0.05	17.85
M680806	201	202	0.01	< 10	< 0.01	0.035	0.60	625	< 0.1	0.005	0.44	< 0.005	< 0.5	0.115	< 0.05	22.2
M680807	201	202	< 0.01	< 10	< 0.01	0.070	0.55	640	< 0.1	0.015	0.53	< 0.005	< 0.5	0.125	< 0.05	16.85
M680808	201	202	0.02	< 10	< 0.01	0.085	0.65	545	< 0.1	0.020	0.50	< 0.005	< 0.5	0.110	< 0.05	11.35
M680809	201	202	< 0.01	< 10	< 0.01	0.125	0.50	395	0.3	0.035	0.31	< 0.005	< 0.5	0.100	< 0.05	18.80
M680810	201	202	0.01	< 10	< 0.01	0.115	0.40	335	< 0.1	0.030	0.36	< 0.005	< 0.5	0.120	< 0.05	19.55
M680811	201	202	< 0.01	< 10	< 0.01	0.250	0.45	410	< 0.1	0.070	0.32	< 0.005	< 0.5	0.115	< 0.05	20.3
M680812	201	202	0.02	< 10	< 0.01	0.245	0.40	645	< 0.1	0.055	0.17	< 0.005	< 0.5	0.070	< 0.05	15.80
M680813	201	202	0.01	< 10	0.01	0.185	0.60	485	< 0.1	0.050	0.15	0.005	< 0.5	0.100	< 0.05	27.3
M680814	201	202	< 0.01	< 10	< 0.01	0.700	0.60	1110	< 0.1	0.180	0.23	< 0.005	< 0.5	0.185	< 0.05	22.8
M680815	201	202	< 0.01	40	0.01	0.125	0.55	175	< 0.1	0.030	0.15	< 0.005	< 0.5	0.080	< 0.05	41.7
M680816	201	202	0.03	< 10	< 0.01	0.425	0.40	995	< 0.1	0.110	0.12	< 0.005	< 0.5	0.125	< 0.05	21.8
M680817	201	202	0.01	< 10	< 0.01	0.110	0.55	470	< 0.1	0.030	0.39	< 0.005	< 0.5	0.145	< 0.05	19.30
M680818	201	202	0.01	< 10	< 0.01	0.105	0.90	470	< 0.1	0.025	0.27	< 0.005	< 0.5	0.170	< 0.05	21.2
M680819	201	202	0.04	< 10	< 0.01	0.285	0.30	430	< 0.1	0.075	0.41	< 0.005	< 0.5	0.200	< 0.05	16.00
M680820	201	202	< 0.01	< 10	< 0.01	0.195	0.70	505	< 0.1	0.045	0.22	< 0.005	< 0.5	0.155	< 0.05	24.3
M680821	201	202	0.01	< 10	< 0.01	0.125	0.40	365	< 0.1	0.030	0.33	< 0.005	< 0.5	0.140	< 0.05	24.3
M680822	201	202	< 0.01	< 10	< 0.01	0.120	0.50	480	< 0.1	0.035	0.32	< 0.005	< 0.5	0.155	< 0.05	24.5
M680823	201	202	0.03	< 10	< 0.01	0.075	0.65	475	< 0.1	0.020	0.68	0.005	< 0.5	0.140	< 0.05	16.45
M680825	201	202	< 0.01	< 10	< 0.01	0.025	0.35	380	< 0.1	0.005	0.46	< 0.005	< 0.5	0.140	< 0.05	20.5
M680826	201	202	0.04	< 10	< 0.01	0.075	0.45	320	< 0.1	0.015	0.28	< 0.005	< 0.5	0.145	< 0.05	28.6
M680827	201	202	< 0.01	< 10	< 0.01	0.090	0.75	395	0.3	0.025	0.23	< 0.005	< 0.5	0.130	< 0.05	30.3
M680828	201	202	< 0.01	< 10	< 0.01	0.045	0.80	300	< 0.1	0.005	0.59	< 0.005	< 0.5	0.105	< 0.05	58.6
M680829	201	202	0.01	< 10	< 0.01	0.080	1.05	605	< 0.1	0.015	0.45	< 0.005	< 0.5	0.185	< 0.05	27.5
M680830	201	202	0.03	10	< 0.01	0.060	0.90	475	< 0.1	0.020	0.46	< 0.005	< 0.5	0.150	< 0.05	27.5
M680831	201	202	< 0.01	< 10	< 0.01	0.020	0.40	330	< 0.1	< 0.005	0.82	< 0.005	< 0.5	0.185	< 0.05	26.0
M680832	201	202	0.01	< 10	< 0.01	0.060	0.60	275	< 0.1	0.015	0.37	< 0.005	< 0.5	0.085	< 0.05	18.90
M680833	201	202	0.01	< 10	< 0.01	0.040	0.60	470	< 0.1	0.010	0.29	< 0.005	< 0.5	0.155	< 0.05	33.0

CERTIFICATION: *[Signature]*





# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: PERFORMANCE MINERALS OF CANADA LTD. #  
ATTN: RUDY RIEPE  
BOX 69  
SECHLT, BC  
VON 3A0

Page Number : 1-D  
Total Pages : 1  
Certificate Date: 02-JUL-1999  
Invoice No. : 19919733  
P.O. Number :  
Account : BPE

Project : CARIBOO RAND  
Comments: ATTN: RUDY RIEPE CC: HERB WAHL

\* PLEASE NOTE

## CERTIFICATE OF ANALYSIS A9919733

SAMPLE	PREP CODE	Tb ppm ICP-MS	Te ppm ICP-MS	Th ppm ICP-MS	Ti ppm ICP-MS	Tl ppm ICP-MS	Tm ppm ICP-MS	U ppm ICP-MS	V ppm ICP-MS	W ppm ICP-MS	Yb ppm ICP-MS	Zn ppm ICP-MS	Zr ppm ICP-MS	B ppm ICP-MS	Ga ppm ICP-MS
M680801	201 202	< 0.005	< 0.05	0.03	1	< 0.005	< 0.005	0.005	0.50	< 0.01	< 0.005	2.0	0.35	8	< 0.05
M680802	201 202	< 0.005	< 0.05	0.01	2	< 0.005	< 0.005	< 0.005	0.55	< 0.01	< 0.005	2.8	0.20	< 2	< 0.05
M680803	201 202	0.005	< 0.05	0.03	< 1	< 0.005	< 0.005	0.005	0.80	< 0.01	0.015	1.2	0.60	4	< 0.05
M680804	201 202	< 0.005	< 0.05	0.01	< 1	< 0.005	< 0.005	< 0.005	0.65	< 0.01	< 0.005	1.6	0.30	< 2	< 0.05
M680805	201 202	< 0.005	< 0.05	0.03	< 1	< 0.005	< 0.005	< 0.005	0.40	< 0.01	< 0.005	2.2	0.30	< 2	< 0.05
M680806	201 202	< 0.005	< 0.05	0.03	1	< 0.005	< 0.005	< 0.005	0.40	< 0.01	< 0.005	3.6	0.25	6	< 0.05
M680807	201 202	< 0.005	< 0.05	0.01	1	< 0.005	< 0.005	< 0.005	0.35	< 0.01	< 0.005	1.4	0.20	< 2	< 0.05
M680808	201 202	< 0.005	< 0.05	0.01	< 1	< 0.005	< 0.005	< 0.005	0.35	< 0.01	< 0.005	0.6	0.25	< 2	< 0.05
M680809	201 202	< 0.005	< 0.05	0.03	< 1	< 0.005	< 0.005	0.005	0.55	< 0.01	0.005	1.0	0.30	< 2	< 0.05
M680810	201 202	< 0.005	< 0.05	0.03	< 1	< 0.005	< 0.005	0.005	0.55	< 0.01	< 0.005	1.4	0.30	4	< 0.05
M680811	201 202	0.005	< 0.05	0.05	< 1	< 0.005	< 0.005	0.005	0.90	< 0.01	0.015	1.2	0.55	< 2	< 0.05
M680812	201 202	0.005	< 0.05	0.04	1	< 0.005	< 0.005	< 0.005	0.45	< 0.01	0.005	1.6	0.20	< 2	< 0.05
M680813	201 202	< 0.005	< 0.05	0.07	1	< 0.005	< 0.005	0.005	0.85	< 0.01	0.005	2.6	0.60	< 2	< 0.05
M680814	201 202	0.015	< 0.05	0.07	< 1	< 0.005	0.005	0.010	1.30	< 0.01	0.030	1.8	0.65	2	< 0.05
M680815	201 202	< 0.005	< 0.05	0.04	1	< 0.005	< 0.005	< 0.005	0.45	< 0.01	0.010	0.4	0.35	8	< 0.05
M680816	201 202	0.005	< 0.05	0.06	< 1	< 0.005	< 0.005	0.005	0.70	< 0.01	0.015	1.0	0.55	2	< 0.05
M680817	201 202	< 0.005	< 0.05	0.03	< 1	< 0.005	< 0.005	0.005	0.80	< 0.01	< 0.005	0.8	0.30	< 2	< 0.05
M680818	201 202	< 0.005	< 0.05	0.02	< 1	< 0.005	< 0.005	< 0.005	1.00	< 0.01	< 0.005	1.8	0.35	2	< 0.05
M680819	201 202	0.005	< 0.05	0.03	< 1	< 0.005	< 0.005	0.005	0.65	< 0.01	0.015	0.8	0.35	< 2	< 0.05
M680820	201 202	< 0.005	< 0.05	0.04	< 1	< 0.005	< 0.005	< 0.005	0.45	< 0.01	0.005	1.2	0.35	< 2	< 0.05
M680821	201 202	< 0.005	< 0.05	0.05	< 1	< 0.005	< 0.005	0.005	0.55	< 0.01	0.005	2.2	0.65	< 2	< 0.05
M680822	201 202	< 0.005	< 0.05	0.04	< 1	< 0.005	< 0.005	< 0.005	0.60	< 0.01	0.005	3.2	0.35	4	< 0.05
M680823	201 202	< 0.005	< 0.05	0.04	1	< 0.005	< 0.005	< 0.005	0.45	< 0.01	< 0.005	3.8	0.35	< 2	< 0.05
M680825	201 202	< 0.005	< 0.05	0.01	< 1	< 0.005	< 0.005	< 0.005	0.75	< 0.01	< 0.005	0.8	0.20	< 2	< 0.05
M680826	201 202	< 0.005	< 0.05	0.01	1	< 0.005	< 0.005	< 0.005	0.40	< 0.01	< 0.005	0.8	0.30	< 2	< 0.05
M680827	201 202	< 0.005	< 0.05	0.03	1	< 0.005	< 0.005	< 0.005	0.50	< 0.01	0.005	2.8	0.35	< 2	< 0.05
M680828	201 202	< 0.005	< 0.05	0.01	< 1	< 0.005	< 0.005	< 0.005	0.45	< 0.01	< 0.005	3.2	0.20	< 2	< 0.05
M680829	201 202	< 0.005	< 0.05	0.03	1	< 0.005	< 0.005	< 0.005	0.35	< 0.01	< 0.005	2.0	0.30	< 2	< 0.05
M680830	201 202	< 0.005	< 0.05	0.03	< 1	0.005	< 0.005	0.005	0.40	< 0.01	< 0.005	3.6	0.30	10	< 0.05
M680831	201 202	< 0.005	< 0.05	0.01	< 1	< 0.005	< 0.005	< 0.005	0.40	< 0.01	< 0.005	2.2	0.15	< 2	< 0.05
M680832	201 202	< 0.005	< 0.05	< 0.01	4	< 0.005	< 0.005	< 0.005	0.70	< 0.01	< 0.005	3.4	0.15	< 2	< 0.05
M680833	201 202	< 0.005	< 0.05	0.03	< 1	< 0.005	< 0.005	< 0.005	0.30	< 0.01	< 0.005	6.0	0.20	8	< 0.05

CERTIFICATION:

\* COLD HYDROXYLAMINE LEACH.



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: PERFORMANCE MINERALS OF CANADA LTD.  
 ATTN: RUDY RIEPE  
 BOX 69  
 SECHLT, BC  
 VON 3A0

##

Page Number : 1-E  
 Total Pages : 1  
 Certificate Date: 02-JUL-1999  
 Invoice No. : I9919733  
 P.O. Number :  
 Account : BPE

Project : CARIBOO RAND  
 Comments: ATTN: RUDY RIEPE CC: HERB WAHL

\* PLEASE NOTE

## CERTIFICATE OF ANALYSIS A9919733

SAMPLE	PREP CODE	Ge ppm ICP-MS	Hf ppm ICP-MS	In ppm ICP-MS	La ppm ICP-MS	Re ppm ICP-MS	Ta ppm ICP-MS	Y ppm ICP-MS	Leach pH						
M680801	201 202	< 0.1	0.01	< 0.005	0.065	< 0.001	< 0.01	0.045	2.4						
M680802	201 202	< 0.1	< 0.01	< 0.005	0.090	< 0.001	< 0.01	0.060	2.3						
M680803	201 202	< 0.1	0.01	< 0.005	0.465	< 0.001	< 0.01	0.295	2.2						
M680804	201 202	< 0.1	< 0.01	< 0.005	0.135	< 0.001	< 0.01	0.085	2.2						
M680805	201 202	< 0.1	< 0.01	< 0.005	0.095	< 0.001	< 0.01	0.060	2.2						
M680806	201 202	< 0.1	< 0.01	< 0.005	0.055	< 0.001	< 0.01	0.040	2.4						
M680807	201 202	< 0.1	< 0.01	< 0.005	0.100	< 0.001	< 0.01	0.060	2.2						
M680808	201 202	< 0.1	< 0.01	< 0.005	0.125	< 0.001	< 0.01	0.095	2.2						
M680809	201 202	< 0.1	< 0.01	< 0.005	0.205	< 0.001	< 0.01	0.145	2.2						
M680810	201 202	< 0.1	< 0.01	< 0.005	0.160	< 0.001	< 0.01	0.115	2.2						
M680811	201 202	< 0.1	0.01	< 0.005	0.335	< 0.001	< 0.01	0.225	2.4						
M680812	201 202	< 0.1	< 0.01	< 0.005	0.280	< 0.001	< 0.01	0.175	2.3						
M680813	201 202	< 0.1	0.01	< 0.005	0.210	< 0.001	< 0.01	0.145	2.5						
M680814	201 202	< 0.1	0.01	< 0.005	0.825	< 0.001	< 0.01	0.500	2.4						
M680815	201 202	< 0.1	< 0.01	< 0.005	0.120	< 0.001	< 0.01	0.130	3.7						
M680816	201 202	< 0.1	0.01	< 0.005	0.565	< 0.001	< 0.01	0.355	2.2						
M680817	201 202	< 0.1	< 0.01	< 0.005	0.145	< 0.001	< 0.01	0.095	2.2						
M680818	201 202	< 0.1	0.01	< 0.005	0.135	< 0.001	< 0.01	0.085	2.4						
M680819	201 202	< 0.1	< 0.01	< 0.005	0.390	< 0.001	< 0.01	0.255	2.2						
M680820	201 202	< 0.1	0.01	< 0.005	0.260	< 0.001	< 0.01	0.145	2.3						
M680821	201 202	< 0.1	0.02	< 0.005	0.160	< 0.001	< 0.01	0.110	2.4						
M680822	201 202	< 0.1	0.01	< 0.005	0.195	< 0.001	< 0.01	0.110	2.4						
M680823	201 202	< 0.1	< 0.01	< 0.005	0.115	< 0.001	< 0.01	0.070	2.3						
M680825	201 202	< 0.1	< 0.01	< 0.005	0.055	< 0.001	< 0.01	0.030	2.4						
M680826	201 202	< 0.1	< 0.01	< 0.005	0.110	< 0.001	< 0.01	0.065	2.3						
M680827	201 202	< 0.1	< 0.01	< 0.005	0.185	< 0.001	< 0.01	0.095	2.3						
M680828	201 202	< 0.1	< 0.01	< 0.005	0.045	< 0.001	< 0.01	0.030	2.9						
M680829	201 202	< 0.1	< 0.01	< 0.005	0.090	< 0.001	< 0.01	0.075	2.4						
M680830	201 202	< 0.1	< 0.01	< 0.005	0.120	< 0.001	< 0.01	0.075	2.4						
M680831	201 202	< 0.1	< 0.01	< 0.005	0.030	< 0.001	< 0.01	0.025	2.2						
M680832	201 202	< 0.1	< 0.01	< 0.005	0.100	< 0.001	< 0.01	0.050	2.4						
M680833	201 202	< 0.1	< 0.01	< 0.005	0.055	< 0.001	< 0.01	0.035	2.5						

CERTIFICATION:



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: PERFORMANCE MINERALS OF CANADA LTD.  
 ATTN: RUDY RIEPE  
 BOX 69  
 SECHULT, BC  
 V0N 3A0

A9919733

Comments: ATTN: RUDY RIEPE CC: HERB WAHL

**CERTIFICATE** **A9919733**

(BPE) - PERFORMANCE MINERALS OF CANADA LTD.

Project: CARIBOO RAND  
 P.O. #:

Samples submitted to our lab in Vancouver, BC.  
 This report was printed on 02-JUL-1999.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	32	Dry, sieve to -80 mesh save reject
202	32	

ANALYTICAL PROCEDURES 2 of 2					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
9040	32	Se ppm: selective leach ICP-MS	ICP-MS	0.5	5000
9041	32	Sr ppm: selective leach ICP-MS	ICP-MS	0.005	1000
9042	32	Sn ppm: selective leach ICP-MS	ICP-MS	0.05	1000
9043	32	Sr ppm: selective leach ICP-MS	ICP-MS	0.05	500
9044	32	Tb ppm: selective leach ICP-MS	ICP-MS	0.005	250
9045	32	Te ppm: selective leach ICP-MS	ICP-MS	0.05	1000
9046	32	Th ppm: selective leach ICP-MS	ICP-MS	0.01	250
9047	32	Ti ppm: selective leach ICP-MS	ICP-MS	1	10000
9048	32	Ti ppm: selective leach ICP-MS	ICP-MS	0.005	250
9049	32	Ta ppm: selective leach ICP-MS	ICP-MS	0.005	250
9050	32	U ppm: selective leach ICP-MS	ICP-MS	0.005	100.0
9051	32	V ppm: selective leach ICP-MS	ICP-MS	0.05	1000
9052	32	W ppm: selective leach ICP-MS	ICP-MS	0.01	1000
9053	32	Yb ppm: selective leach ICP-MS	ICP-MS	0.005	250
9054	32	Zn ppm: selective leach ICP-MS	ICP-MS	0.2	2500
9055	32	Zr ppm: selective leach ICP-MS	ICP-MS	0.05	500
9056	32	B ppm: selective leach ICP-MS	ICP-MS	2	1000
9057	32	Ga ppm: selective leach ICP-MS	ICP-MS	0.05	1000
9058	32	Ge ppm: selective leach ICP-MS	ICP-MS	0.1	1000
9059	32	Hf ppm: selective leach ICP-MS	ICP-MS	0.01	1000
9060	32	In ppm: selective leach ICP-MS	ICP-MS	0.005	1000
9061	32	La ppm: selective leach ICP-MS	ICP-MS	0.005	1000
9062	32	Re ppm: selective leach ICP-MS	ICP-MS	0.001	1000
9063	32	Ta ppm: selective leach ICP-MS	ICP-MS	0.01	1000
9064	32	Y ppm: selective leach ICP-MS	ICP-MS	0.005	1000
8037	32	pH: pH of leach solution	POTENTIOMETER	0.1	14.0



# Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: PERFORMANCE MINERALS OF CANADA LTD.  
ATTN: RUDY RIEPE  
BOX 69  
SECHLT, BC  
VON 3A0

Project: C-RAND  
Comments: ATTN:RUDY RIEPE

Page Number :1-A  
Total Pages :1  
Certificate Date: 07-AUG-98  
Invoice No. :19826229  
P.O. Number :  
Account :BPE

## CERTIFICATE OF ANALYSIS A9826229

SAMPLE	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 ppb	K %	La ppm	Mg %	Mn ppm
0-1# N176540	201 202	10	< 0.2	1.19	24	120	< 0.5	< 2	0.48	< 0.5	12	33	21	2.42	< 10	< 10	0.09	10	0.47	380
350-2# N176541	201 202	10	0.2	2.50	8	240	< 0.5	< 2	0.26	< 0.5	9	33	11	2.01	< 10	< 10	0.13	< 10	0.33	120
1600-3# N176542	201 202	< 5	< 0.2	1.54	14	150	< 0.5	< 2	0.43	< 0.5	15	63	22	2.86	< 10	10	0.11	10	0.61	275
2000-4# N176543	201 202	< 5	< 0.2	2.68	30	200	0.5	< 2	0.86	< 0.5	20	60	35	3.88	< 10	< 10	0.10	30	1.52	430
2300-5# N176544	201 202	5	< 0.2	2.16	< 2	150	< 0.5	< 2	1.39	< 0.5	21	57	47	3.73	< 10	10	0.13	< 40	1.75	635

*indicator.*

CERTIFICATION: *Walt Siddle*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: PERFORMANCE MINERALS OF CANADA LTD.  
 ATTN: RUDY RIEPE  
 BOX 69  
 SECHLT, BC  
 V0N 3A0

\*\*

Page Number : 1-B  
 Total Pages : 1  
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Project : C-RAND  
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## CERTIFICATE OF ANALYSIS

### A9826229

SAMPLE	PREP CODE	No ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
0-18 N176540	201 202	< 1	0.01	35	860	4	< 2	4	65	0.11	< 10	< 10	62	< 10	44
350-25 N176541	201 202	1	< 0.01	32	1780	2	< 2	3	44	0.09	< 10	< 10	30	< 10	78
1600-38 N176542	201 202	< 1	< 0.01	45	1090	< 2	< 2	6	51	0.14	< 10	< 10	75	< 10	60
2000-48 N176543	201 202	< 1	0.01	98	2450	< 2	< 2	5	130	0.25	< 10	< 10	102	< 10	92
2300-58 N176544	201 202	< 1	0.07	102	3820	< 2	< 2	4	221	0.18	< 10	< 10	75	< 10	60

*prob. double.*

*prob. double*

CERTIFICATION: Hart Biddle



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: PERFORMANCE MINERALS OF CANADA LTD.  
 ATTN: RUDY RIEPE  
 BOX 69  
 SECHELT, BC  
 V0N 3A0

Page Number : 1-A  
 Total Pages : 1  
 Certificate Date: 16-JUN-97  
 Invoice No. : 19726548  
 P.O. Number :  
 Account : BPE

Project : TAKOMKANE  
 Comments: ATTN: RUDY RIEPE

## CERTIFICATE OF ANALYSIS A9726548

SAMPLE	PREP CODE		Au g/t FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
455118	205	226	2.38	6.0	3.90	700	< 10	< 20	7.25	170	10	30	3940	4.55	1.6	2.50
455119	205	226	0.590	3.0	5.80	1200	< 10	< 20	4.60	10	10	40	1270	2.50	2.3	1.70
455120	205	226	3.66	46.0	1.25	< 100	< 10	60	11.65	210	30	10	40800	3.80	0.4	5.15

CERTIFICATION: Hart Buehler



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## CERTIFICATE OF ANALYSIS A9726548

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)				
455118	205 226	4480	< 10	0.60	< 10	0.008	200	0.05	70	4480				
455119	205 226	2350	< 10	1.55	< 10	0.005	290	0.10	50	1220				
455120	205 226	6840	< 10	< 0.05	< 10	0.011	270	< 0.05	90	15180				

CERTIFICATION: Hart Bickler