

LOG NO:	NOV 16 1992	RD.
ACTION:		
FILE NO:		

**REPORT ON**  
**DIAMOND DRILLING**  
**ON THE**  
**MIRACLE PROJECT**  
**MURPHY 1, MURPHY 2, MURPHY 3,**  
**AND MURPHY 4 CLAIMS**

**CLINTON MINING DIVISION**  
**NTS: 92 P/14W**

**LATITUDE: 51° 57'N — LONGITUDE: 121° 18'W**

**Owner/Operator:**  
**GWR Resources Inc.**  
**204 - 20641 Logan Avenue**  
**Langley, B.C.**  
**V3A 7R3**

**Author:**  
**David St. Clair Dunn, P. Geo**  
**2348 Palmerston Ave.**  
**West Vancouver, B.C. V7V 2W1**

**October 25, 1992**

**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**

**22,603**

## Summary

The Murphy claims are 100% owned by GWR, subject to a 5% NSR to the vendors, Don Fuller and Nils Kriberg of Lac La Hache and David Taylor of Kamloops. This 5% N.S.R. has been capped at 1.5 million dollars.

The claims are located 17.5 km northeast of Lac La Hache, which is on Highway 97 in central B.C.

The exploration target on the property is a copper-gold alkalic porphyry system. This system is hosted in Triassic Nicola Group volcanic rocks and coeval syenite intrusions. This package has been intruded by a boss of Jurassic Takomkane granodiorite. The Nicola and coeval syenite are partly obscured by "scabs" of Tertiary Basalt and a veneer of glacial drift, generally one to two meters thick, but thickening to tens of meters in the south-west part of the property.

Past work on the property has included geological mapping, geochemical soil sampling, geophysical surveys (Mag/VLF and a small I.P. survey), trenching, and seven short diamond drill holes. This work confirmed the nature of the mineralization and outlined a large area of copper-gold mineralization. The best results of this work were 28 meters of 0.19% copper with 170 ppb gold and a further 12 meters of 0.17% copper with 340 ppb gold in DDH-89-1 (Dunn, 1989). This hole was drilled through the intersection of a regional scale east-west trending structure and a splay fault off this structure. The splay fault hosted the discovery showing on the Murphy claims.

The 1992 diamond drill program was designed to test for extensions of the mineralization intersected in the 1989 program and to test the periphery of the Takomkane boss for remobilized concentrated mineralization.

Six NQ holes were drilled, totalling 1448.2 meters. One hole, DDH-92-2, was abandoned at 61 meters due to bad ground. Recovery was approximately 30% and of too poor a quality to recover any meaningful data.

Four of the remaining holes were drilled at step-outs of 50 meters to 350 meters east along the regional structure. The last hole was drilled peripheral to the Takomkane boss. All five holes intersected significant copper-gold mineralization in Nicola Group volcanics and syenite. The highest values were 14 meters of 0.22% copper and 200 ppb gold in DDH-92-3. All of the Nicola Group volcanics and syenite intersected exhibited propylitic or potassic alteration. The only other rocks intersected were minor unaltered basalt dykes, probably feeders to the Tertiary flows.

## Conclusions

The area underlying the Murphy claims hosts a copper-gold alkalic porphyry system. Work to date has revealed wide spread copper-gold mineralization, but no areas of sufficient size to be considered ore in a copper porphyry mine. At least four areas on the property of sufficient size to contain a copper-gold porphyry orebody have yet to be tested.

## Recommendations

The whole property should be covered by an I.P. survey, to attempt to outline a pyrite halo and better define further drill targets. The 1988 I.P. survey outlined a strong I.P. conductor. When this area was drilled, sections of 10% to 15% pyrite were intersected (See DDH-88-4 in Dunn, 1989).

Trenching, as recommended in Dunn, 1989, should be carried out.

Geological mapping, concentrating on strength and style of alteration, should be carried out.

Diamond drilling, consisting of four holes of 250 meters each should be drilled to test known targets and a further four holes of 250 meters each should be planned for to test other targets generated by the recommended surface work.

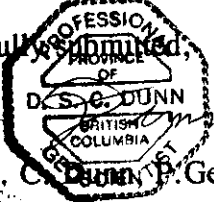
The recommended program is estimated to cost:

I.P.	\$30,000.00
Trenching	\$17,000.00
Geological Mapping	\$3,500.00
Diamond Drilling	<u>\$150,000.00</u>
Total	\$200,000.00

The four holes to test known targets should be laid out as follows:

	Depth	Property Co-ordinates	Brg.	Dip.
DDH-92-7(Already laid out)	250m	14 + 00W 2 + 45S	160°	-60°
DDH-92-8	250m	12 + 25W 3 + 00N	90°	-60°
DDH-92-9	250m	5 + 25W 1 + 50N	270°	-60°
DDH-92-10	250m	0 + 50W 3 + 00N	158°	-60°

Respectfully submitted,

  
David St. C. Dunn P. Geo.

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Map 5	X-Section DDH-92-5	"
Map 6	X-Section DDH-92-6	"

## Introduction

The Murphy Claims are located 17.5km northeast of Lac La Hache, B.C. (See Fig. 1).

The claims cover rolling interior plateau with mature open lodge pole pine, spruce, and fir. Approximately 70% of the property has been clear-cut. Elevation range from 1070m to 1500m. Water is available year round from ponds on the property. The climate is cold temperate with annual precipitation of 500mm to 1000mm. Winter snowpack on the property is approximately 2m with drifts to 4m.

Access to the property is by all weather logging mainline. From Lac La Hache follow the Green Lake, Timothy Mountain and Fly Lake roads (See Fig. 2). A network of secondary logging road and skid roads cover the property.

The Murphy 1-4 Claims are in the Clinton Mining Division. The following table lists their status:

<u>Claim</u>	<u># of Units</u>	<u>Registered Owner</u>	<u>Record Number</u>	<u>Expiry Date</u>
Murphy 1	6	GWR Resources Inc.	305427	15/10/97 *
Murphy 2	18	GWR Resources Inc.	305428	15/10/97 *
Murphy 3	8	GWR Resources Inc.	309076	06/05/98 *
Murphy 4	20	GWR Resources Inc.	309368	15/05/98 *

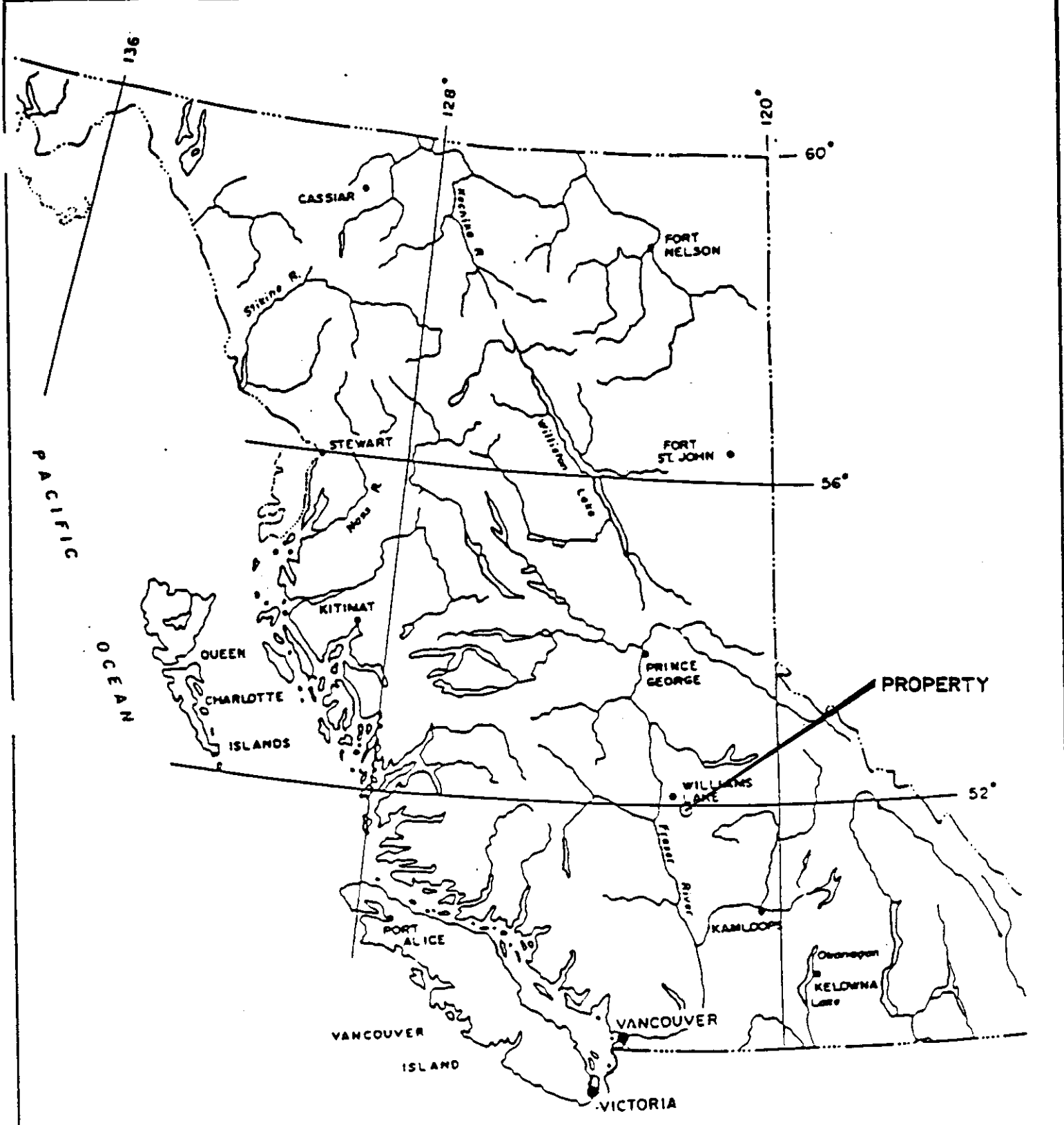
\* Subject to approval of this report.

Claim locations were surveyed in 1989 using an EDM instrument. These claims, the Miracle claims, were allowed to drop and the Murphy claims were subsequently staked over them, using the same lines and posts. Claim locations were not verified in this program.

The first recorded mineral exploration in the area of the Murphy Claims was carried out in 1966 by Coranex. This work consisted of reconnaissance soil sampling and led to the staking of a number of properties to the north of the Murphy claims, on copper porphyry and exo-skarn mineralization. Work on these showings was curtailed in the early 1970's due to low metal prices in an inhospitable regulatory climate.

The first work recorded on the area covered by the Murphy claims was in 1982 and 1983 when Guichon Explorco Limited soil sampled part of it (Gamble, D., 1983).

The present exploration effort began in 1986 when road construction exposed the "Discovery Showing." The area of the Murphy Claims were staked by N. Kriberg and D. Fuller of Lac La Hache.



<b>GWR RESOURCES INC.</b>	
Report by: D. DASH	<b>MIRACLE PROJECT</b> Lac La Hache, B.C.  <b>LOCATION MAP</b>
Date: 10 / 92	
DOS directory:	
DOS file name:	
WTS: 02 P/14	
	L.

SPOUT LAKE

121° 20'

PEACH LAKE



RAIL LAKE

MURPHY 4  
(309368)

'FR'

MURPHY 1(305427)

MURPHY 2(305428)

MURPHY 3  
(309076)

51° 57'

CREEK

TIMOTHY

FLY LAKE

LAC LA HACHE

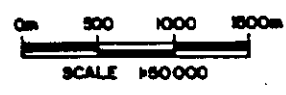
MT TIMOTHY

GWR RESOURCES INC.

Report by  
A. DUBOY  
Date  
10 / 92  
DOB boundary  
DOB No. issued  
MILE  
25 P/74

MIRACLE PROJECT  
Lac La Hache, B.C.

CLAIM MAP



In 1987, VLF-EM, total magnetic field (27 line km) and induced polarization (11 line km) geophysical surveys were carried out by White Geophysical Inc. Minor surface trenching and sampling were also carried out under the supervision of White Geophysical Inc. (White, 1987).

In 1988 and 1989 a \$335,000.00 program of geological mapping, soil geochemical and geophysical surveys, trenching and diamond drilling was carried out on the property (Dunn, 1989).

This work has outlined a large area of copper-gold mineralization associated with alteration of an Alkalic copper porphyry style similar to Copper Mountain, Afton, and Galore Creek. Drill intersections and surface samples have returned values that are ore grade for this type of deposit, but not for large enough widths.

The 1992 program was largely based on the 1988-89 work and consisted of six NQ holes, totalling 1448.2 meters. This program was carried out from the 14th of May, 1992 to the 2nd of October, 1992, on the Murphy 1 and Murphy 2 claims.

### Regional Geology

The area of the **Miracle Project** is part of the Fraser Plateau, a sub-unit of the Interior Plateau of British Columbia. Rocks in the area range in age from Triassic to Tertiary. The Triassic and Jurassic rocks are part of the Quesnel Belt tectonic assemblage. The southwestern two-thirds of the Fraser Plateau is largely underlain by flat-lying Pliocene and/or Miocene plateau basalts. The northeastern area is largely underlain by Upper Triassic Nicola Group rocks which consist of calc-alkaline and alkaline volcanics and their coeval intrusions. The Nicola Group rocks are intruded by the Lower Jurassic Takomkane batholith and satellite intrusions.

The Quesnel belt hosts a number of alkalic copper-gold porphyry systems. These include producing mines, such as Similkameen Copper and Afton, and advanced projects, such as Cariboo-Bell, Mt. Milligan, and QR. The plutonic sources of these deposits all fall in the Late Triassic - Early Jurassic time period. An age for the Takomkane intrusion of 187 m.y. (Leech, et al, 1963, p. 42) places it within this age group. Exploration for lode gold and copper-gold deposits has concentrated on intrusion - related alteration zones within and peripheral to the Early Jurassic alkalic intrusions. Exploration targets are auriferous porphyry copper mineralized bodies similar to the Cariboo-Bell deposit (Hodgson, et al, 1976), and gold in propylitic alteration zones in volcanics such as at the QR deposit (Fox, et al, 1987; Melling and Watkinson, 1988; Panteleyev, A., Hancock, K.D., 1988).



Figure 3

Table of Lithologies

Tertiary

25 Miocene and/or Pliocene

Plateau lava; olivine basalt, basalt andesite, related ash and breccia beds; basaltic andesite.

Unconformity

Triassic or Jurassic

14 Rhaetian or Hettangian

Thuya and Takomkane Batholiths and similar granitic rocks; hornblende-biotite quartz diorite and granodiorite, minor hornblendes, diorite, monzonite, gabbro, hornblendite; 14a diorite and syenodiorite; 14b leuco quartz monzonite and granodiorite

Intrusive Contact

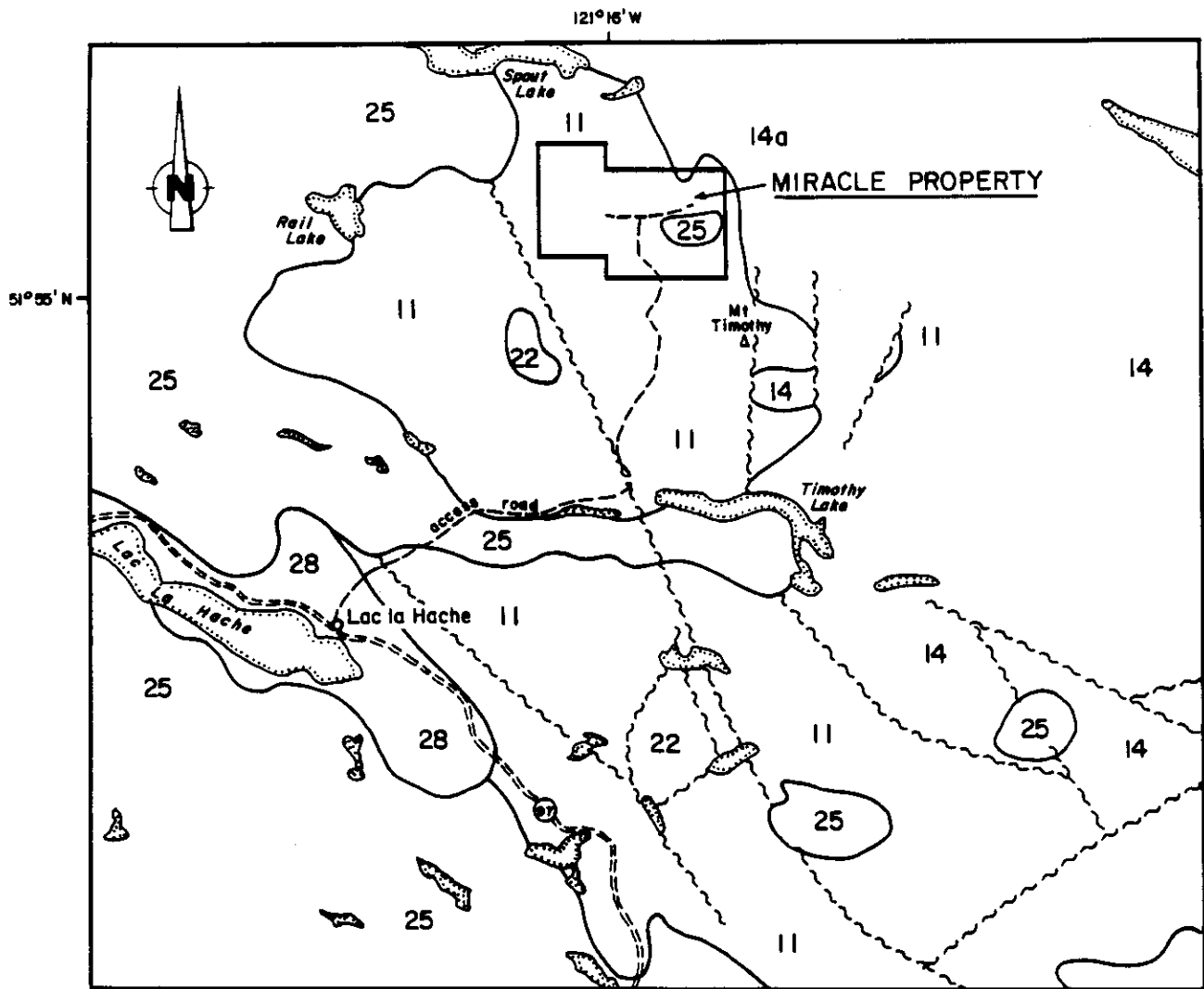
13 13a fine to medium grained pink to brown and grey syenite and monzonite; 13b medium-grained, creamy-buff, locally coarsely porphyritic (K-feldspar) syenite and monzonite.

Intrusive Contact

Triassic

11 Karnian and Norian

Nicola Group: Augite andesite flows and breccia, tuff, argillite, greywacke, grey limestone, includes minor black shale and argillite.

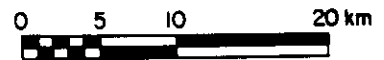


**TRIASSIC**

- 11
**KARNIAN AND NORIAN**  
Nicola Group  
 Augite andesite flows and breccia tuff, argillite greywacke, grey limestone.  
 11a: includes minor 3 and 10

**TRIASSIC OR JURASSIC**

- 14
**RHAETIAN OR HETTANGIAN**  
Thuya and Takomkane Batholiths and Similar Granitic Rocks  
 hornblende-biotite quartz diorite and granodiorite, minor hornblende diorite, monzonite, gabbro, hornblendite  
 14a: diorite and syenodiorite  
 14b: leucoquartz monzonite and granodiorite



**TERTIARY**

- 25
**MIOCENE AND/OR PLIOCENE**  
 Plateau lava, olivine basalt, basalt andesite, related ash and breccia beds, basaltic arenite  
 25a: olivine gabbro plugs

**GWR RESOURCES INC.**

**MIRACLE PROJECT**  
 Lac la Hache, B.C.

**Regional Geology**

Date	October, 1992	Scale	1 : 500 000	Figure	<b>4</b>
N.T.S.	92 P/14				

## Property Geology

The Murphy Claims are largely underlain by Triassic Nicola Group volcanics and their coeval syenite source rocks.

These units have been intruded by a satellite of the Takomkane Batholith. This granodiorite boss is exposed in the north central Murphy 1 claim. It is also strongly magnetic ( 2% magnetite) and shows as a strong magnetic high in the 1988 surveys (Dunn, 1989).

Erosional remnants of Tertiary plateau basalt are exposed on part of the property. Their thickness is estimated to be less than 30 meters.

95% of the property is covered by a veneer of glacial drift. This cover is one to three meters over the north and east parts of the property, but deepens to tens of meters in the south-west.

The Nicola and coeval syenite exhibit propylitic and potassic alteration, while the granodiorite and basalt appear unaltered.

The most significant structure on the Murphy claims crosses the property at a bearing of 100° from the south-west Murphy 4 to the north-east of the Murphy 3. This is a regional scale structure, and can be traced using magnetometer and VLF surveys for many kilometers east and west of the Murphy Claims. the original Miracle "Discovery Showing" is in a splay fault off the regional structure (See Map 1).

## 1992 Diamond Drill Program

The 1992 drill program was designed to test the regional structure described in Property Geology further to the east from DDH-89-1 (see Map 1). The structure is covered by a swamp for a few hundred meters and surface soil geochemistry was not effective.

Diamond drill hole logs are included in Appendix A but, in general, DDH-92-1 was drilled 282.6 meters at a bearing of 158° and a dip of -60° from 200 meters east-north-east of DDH-89-1. This hole intersected strong potassic alteration in syenite and andesite with scattered values of 0.1% copper. Approximately 70% of the core was split and sampled, generally in two metre sections, for all holes except DDH-92-2. DDH-92-1 showed the regional structure dipping 75° to the north-west. The other holes confirmed this. DDH-92-2 was abandoned at 61 meters due to bad ground and no meaningful data was obtained from this hole. DDH-92-3 was drilled 317.1 meters at 348° -62° dip from 450 meters east of DDH-92-1. DDH-92-3 intersected weaker potassic and strong propylitic alteration with better copper mineralization. Native copper was observed in the upper part of the hole with associated gold values to 1200 ppb. Further down the hole, 14 meters from 296.7 meters to 310.7 meters assayed

ppb. Further down the hole, 14 meters from 296.7 meters to 310.7 meters assayed 0.22% copper and 200 ppb gold. DDH-92-4 was drilled 261.9m at a bearing of 166° and dip of -60° from 250 meters north-east of DDH-92-3. Again moderate potassic alteration and strong propylitic alteration with native copper were observed in Nicola volcanics, but only one value greater than 0.1% copper was returned. DDH-92-5 was drilled a further 75 meters east-north-east of DDH-92-4 for 255.2 meters at a bearing of 158° and a dip of -60°. This hole also intersected moderate potassic alteration and strong propylitic alteration in volcanics and syenite with minor native copper. One sample was greater than 0.1% copper. DDH-92-6 was drilled to test the periphery of the Takomkane boss. This hole was drilled 270.4 meters at a bearing of 338° and a dip of -60° from approximately 200 meters north-north-east of DDH-92-3. This location is roughly 100 meters south of the Takomkane Nicola contact. DDH-92-6 again intersected moderate potassic and strong propylitic alteration with chalcopyrite. Two samples were greater than 0.1% copper.

The core from these holes is stored on Phil Lindenbach's property, immediately east of highway 97, 7.4 km north of 100 Mile House.

## BIBLIOGRAPHY

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**Appendix A**  
**Diamond Drill Logs**

Co-ords: N 4985.0 E 5275.0

GWR Resources Ltd.

Page: 1  
HOLE NO.: DDH-92-1

Azimuth: 158.0

DIAMOND DRILL RECORD

Property: Miracle

Dip: -60.0

Drilled by: Phils Drilling

Date Started: 13/6/92

Elevation: 1421.0

Core Size: NQ

Date Completed: 11/7/92

Length: 282.6

Logged by: DD

Date Logged: 11/7/92

Purpose: To test regional structure for  
Cu-Au porphyry mineralization.

Dip Tests  
Depth (m) Dip

from (m)	to (m)	Description	Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	Cu (ppm)
.00	32.90	OVERBURDEN Some syenite boulders to 1m diameter. Minor malachite.Strong Potassic alt. In boulders.Minor native copper.						
32.90	38.80	SYENITE Highly altered SYENITE.Fractures and gouge zones up to 5 cm. Wide every 10 cm.Considerable Calcite on fract.Fractures @ 45 to CA.Less @ 60.	151 152 153	32.90 34.90 36.90	34.90 36.90 38.80	2.0 2.0 1.9	61 56 45	555 287 396
38.80	44.80	SYENITE Moderate Potassic alt. Epidote-calcite stringers @ 45 + 30 to CA. Moderately magnetic. 40.80 43.40 Mod. Potassic alt.	154 155	38.80 40.80	40.80 43.40	2.0 2.6	22 37	179 388
44.80	59.60	SYENITE Mod. Potassic alt. Epidote-calcite stringers @ 45° + 30° to CA.Mod. Magnetic. 47.90 50.10 Mod. Potassic alt. Minor py,cypy. 57.00 58.50 Moderate Potassic alteration. Minor py,cypy.	156 157	47.90 57.00	50.10 58.50	2.2 1.5	35 16	378 165
59.60	78.80	SYENITE Weak Potassic alt. Fr. Every 10-20 cm.@ 40-45 to CA.						
78.80	91.70	SYENITE Mod. Potassic alt. Minor py,cypy.Fr. @ 20 + 45 to CA. Mod. Magnetic. 83.70 84.20 FAULT Considerable calcite and chlorite. 40-45° to C.A.	158	83.70	84.20	.5	13	146
91.70	100.70	BASALT DYKES Feldspar Augite Porphyry BASALT.25 to CA. Wkly magnetic. Unaltered Unmineralized.						
100.70	156.90	SYENITE Mod to strong Potassic alt. Mod. To str. Magnetic. Calcite + chlorite on fractures	159	154.90	156.90	2.0	26	217

from (m)	to (m)	-----Description-----	Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	Cu (ppm)
		@ 45 + \ to CA.						
		154.90 156.90 SYENITE.Str. Potassic alt.						
156.90	196.20	NICOLA GROUP						
		Mod. To str. Potassic alt. 1% py,0.1%cpy	160	156.90	158.90	2.0	52	296
		in some sections. Fr. @ 30 + 60 to	161	158.90	160.90	2.0	58	408
		CA.Strongly	162	160.90	162.90	2.0	45	373
		magnetic.Mag.,Ep.,K-Spar,Ca.,Py,Cypy to	163	162.90	164.90	2.0	320	1055
		3mm in 30% of fractures.	164	164.90	166.90	2.0	45	470
			165	166.90	168.90	2.0	163	985
			166	168.90	170.90	2.0	23	359
			167	170.90	172.90	2.0	17	207
			168	172.90	174.90	2.0	20	361
			169	174.90	176.90	2.0	35	397
			170	176.90	178.90	2.0	23	284
			171	178.90	180.90	2.0	31	233
			172	180.90	182.90	2.0	11	159
			173	182.90	184.90	2.0	15	129
			174	184.90	186.90	2.0	24	300
			175	186.90	188.90	2.0	18	222
			176	188.90	190.90	2.0	39	268
			177	190.90	192.90	2.0	12	110
			178	192.90	194.90	2.0	153	352
			179	194.90	196.20	1.3	396	1020
196.20	220.70	NICOLA GROUP						
		Wk. Potassic alt. Str. To mod.	180	203.00	203.50	.5	8	107
		Magnetic.Fr. Every 10-30 cm @ 45 + 55 to	181	208.40	210.70	2.3	14	59
		CA.1% py, minor cypy.K-Spar in						
		stringers.Up to 100% K-Spar over 2 cm.						
		203.00 203.50 QUARTZ VEIN at 45° to CA.						
220.70	282.60	NICOLA GROUP						
		Str. Propylitic alt. Blotches of	182	225.80	227.80	2.0	28	481
		K-Spar.-Epidote alt. Fr. Every 10-30 cm @	183	238.70	240.70	2.0	23	183
		40-50 to CA.	184	240.70	242.70	2.0	40	422
		238.50 242.00 FAULT.	185	253.70	255.70	2.0	3	27
		272.80 273.80 Str. Potassic alt. 5% py,	186	261.30	263.30	2.0	4	6
		minor cypy.	187	271.90	273.90	2.0	134	124
			188	273.90	275.90	2.0	5	109
			189	275.90	277.90	2.0	4	15
			190	277.90	279.90	2.0	4	13
			191	279.90	282.60	2.7	8	79
282.60		END OF HOLE						



Co-ords: N 5235.0 E 5380.0

GWR Resources Ltd.

Page: 1  
HOLE NO.: DDH-92-3

Azimuth: 348.0

DIAMOND DRILL RECORD

Property: Miracle

Dip: 62.0

Drilled by: Phils Drilling

Date Started: 20/7/92

Elevation: 1425.0

Core Size: NQ

Date Completed: 10/8/92

Length: 317.1

Logged by: DD

Date Logged: 3&12/8/92

Purpose: To test regional structure for Cu-Au porphyry mineralization.

Dip Tests  
Depth (m) Dip  
157.60 59.0

from (m)	to (m)	Description	Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	Cu (ppm)
.00	2.90	OVERBURDEN						
2.90	24.40	BASALT FLOWS DYKE-Minor calcite stringers.						
24.40	53.90	BASALT FLOWS Alt. To black and grey fault gouge.						
53.90	55.90	SYENITE Mod. Potassic alteration. 53.90 55.90 Syenite.1% py.	474701	53.90	55.90	2.0	13	146
55.90	57.90	NICOLA GROUP Augite Porphyry.	474702	55.90	57.90	2.0	14	102
57.90	69.00	FAULT Syenite chips.Minor native Cu.	474703 474704 474705 474706 474707	57.90 59.90 61.90 63.90 65.90	59.90 61.90 63.90 65.90 67.90	2.0 2.0 2.0 2.0 2.0	17 36 267 239 54	172 251 442 334 261
69.00	73.90	NICOLA GROUP Highly fractured @ 40 to CA. 69.00 71.00 Highly fractured andesite.Native Cu. 73.00 75.00 A.	474708 474709 474710	69.00 71.00 73.00	71.00 73.00 75.00	2.0 2.0 2.0	1202 338 518	369 374 212
73.90	92.00	FAULT Fault gouge and breccia.Fr. @ 20 to CA.Lesser at 40.Hematite stain. 75.00 77.00 Fault.	474711 474712 474713 474714 474715 474716 474717 474718 474719	75.00 77.00 79.00 81.00 83.00 85.00 87.00 89.00 91.00	77.00 79.00 81.00 83.00 85.00 87.00 89.00 91.00 92.00	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 1.0	74 610 129 21 278 48 196 146 39	275 379 286 183 306 186 117 220 95
92.00	317.10	NICOLA GROUP Mainly Tuff and Crystal Lapilli Tuff.Bedding at 70 to CA. Tuff is	474720 474721	92.00 94.00	94.00 96.00	2.0 2.0	25 102	78 202

from (m)	to (m)	-----Description-----	Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	Cu (ppm)
		moderately magnetic CLT is strongly	474722	96.00	98.00	2.0	68	55
		magnetic. 1% py, minor native Cu to 212.4	474723	98.00	100.00	2.0	282	66
		then minor cypy to EOH.	474724	100.00	102.00	2.0	124	27
92.00	203.40	NICOLA GROUP Augite porphyry	474725	102.00	104.00	2.0	144	314
		flows.Fr @ 20 + 45 to CA.	474726	104.00	106.00	2.0	66	107
92.00	94.00	Andesite.	474727	106.00	108.00	2.0	35	55
213.50	233.40	NICOLA GROUP Mod. Pottassic	474728	108.00	110.00	2.0	81	31
		Alt.	474729	110.00	112.00	2.0	45	45
236.00	242.10	NICOLA GROUP Wk. To mod.	474730	112.00	114.00	2.0	8	34
		Pottassic alt.	474731	114.00	116.00	2.0	97	202
242.10	252.00	NICOLA GROUP Str. Propylitic	474732	116.00	118.00	2.0	134	640
		alt.	474733	151.10	152.80	1.7	28	101
242.30	248.30	NICOLA GROUP Fine grained	474734	154.00	156.00	2.0	36	302
		tuff.	474735	156.00	158.00	2.0	21	110
245.80	248.50	FAULT Fr. @ 20 + 30 to CA.	474736	158.00	160.00	2.0	27	135
248.30	256.00	NICOLA GROUP CLT.	474737	160.00	162.00	2.0	42	605
252.00	257.80	NICOLA GROUP Wk. Pottassic	474738	162.00	164.00	2.0	41	539
		Alt.Fr. @ 40 to CA.Blebs	474739	164.00	166.00	2.0	42	105
		cypy to 2 cm. In syenite	474740	166.00	168.00	2.0	10	56
		stringer 257.2 m.	474741	168.00	168.90	.9	17	115
256.00	281.00	NICOLA GROUP Fine grained	474741	168.00	170.00	2.0	17	115
		tuff.	474742	198.40	200.44	2.0	53	418
257.80	278.70	NICOLA GROUP Str. Prop. Alt.	474743	200.40	202.40	2.0	56	546
		Epidote and calcite on fr.	474744	202.40	204.40	2.0	48	355
		To 5mm.Fr. @ 20 to CA.	474745	204.40	206.40	2.0	32	491
278.70	291.80	NICOLA GROUP Bleached	474746	206.40	208.40	2.0	31	144
		zone.Str. Pottassic alt.Fr.	474747	208.40	210.40	2.0	25	189
		@ 20 to CA.Ep,cal,K-spar,5%	474748	210.40	212.40	2.0	12	201
		py, minor cypy stringers to	195	212.40	214.40	2.0	17	269
		5 cm make up 30% of core.	196	214.40	216.40	2.0	22	496
281.00	317.10	NICOLA GROUP CLT.	196	214.40	216.60	2.2	22	496
291.80	305.10	NICOLA GROUP Wk. Potassic	197	216.60	218.80	2.2	32	560
		alt.Fr. @ 20 to CA.Some	198	218.80	221.00	2.2	30	761
		diss. Cypy,1% py.	199	221.00	223.20	2.2	132	656
305.10	310.50	NICOLA GROUP Mod. Pot.	200	222.80	224.80	2.0	169	1070
		Alt.Ca,ep, k-spar,2% py.Cypy	474554	224.80	226.80	2.0	35	203
		blebs to 2mm in diameter.	474555	226.80	228.80	2.0	39	438
310.50	317.10	NICOLA GROUP Wk. Pot	474556	228.80	230.80	2.0	93	700
		alt.Ca,ep,K-spar stringers	474557	230.80	232.80	2.0	113	231
		to 5mm.1% py minor cypy.Fr.	474558	232.80	234.80	2.0	51	590
		@ 25 to 30 CA.	474559	234.80	236.80	2.0	19	436
			474560	236.80	238.80	2.0	40	234
			474561	238.80	240.80	2.0	47	395
			474562	240.80	242.80	2.0	39	543
			474563	245.80	247.80	2.0	68	576
			474564	252.00	254.00	2.0	24	81
			474565	254.00	256.00	2.0	46	291
			474566	256.00	258.00	2.0	207	1270
			474586	272.10	274.30	2.2	63	469
			474567	278.70	280.70	2.0	38	183
			474568	280.70	282.70	2.0	44	549
			474569	282.70	284.70	2.0	87	1060
			474570	284.70	286.70	2.0	42	101
			474571	286.70	288.70	2.0	54	694
			474572	288.70	290.70	2.0	42	151
			474573	290.70	292.70	2.0	78	366
			474574	292.70	294.70	2.0	35	142
			474575	294.70	296.70	2.0	64	214
			474576	296.70	298.70	2.0	193	2700

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from (m)	to (m)	-----Description-----	Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	Cu (ppm)
			474577	298.70	300.70	2.0	91	1380
			474578	300.70	302.70	2.0	100	573
			474579	302.70	304.70	2.0	71	605
			474580	304.70	306.70	2.0	357	4000
			474581	306.70	308.70	2.0	261	4500
			474582	308.70	310.70	2.0	219	1485
			474583	310.70	312.70	2.0	99	431
			474584	312.70	314.70	2.0	51	285
			474585	314.70	317.10	2.4	61	457
317.00		END OF HOLE						

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Co-ords: N 5405.0 E 5650.0

HOLE NO.: DDH-92-4

Azimuth: 166.0

DIAMOND DRILL RECORD

Property: Miracle

Dip: 60.0

Drilled by: Phils Drilling

Date Started: 11/8/92

Elevation: 1473.0

Core Size: NQ

Date Completed: 25/8/92

Length: 261.9

Logged by: DD

Date Logged: 24&amp;25/8/92

Purpose: To test regional structure for  
Cu-Au porphyry mineralization.Dip Tests  
Depth (m) Dip

from (m)	to (m)	-----Description-----	Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	Cu (ppm)
.00	5.50	OVERBURDEN And. And syenite chips. Prop., and pot. Alt.						
5.50	10.60	SYENITE Mod. Potassic alt. Considerable ep, K-spar.Fr. @ 45 + 50 to CA.Ca + orange oxide on fractures to 3mm. V. Minor native Cu, minor py.	6701	8.20	10.60	2.4	105	695
10.60	14.30	SYENITE V. Broken otherwise same as 5.5-10.6. But no orange oxide. Minor py.	6702	10.60	14.30	3.7	33	391
14.30	18.40	NICOLA GROUP Brxx.Mod. Potassic alt.V. Broken rock-no core > 10cm.Minor native Cu.Fr. W/ 1-3mm Ca @ 40, 60,+ sub// to CA.	6703 6704	14.30 17.40	17.40 19.40	3.1 2.0	6 1	151 92
18.40	86.30	NICOLA GROUP V. Broken. Partially metasomatized to syenite. Fr. At 25,50,+ 80 to CA. Bedding? at 70 to CA. Calcite to 2mm on Fr. 1% Py minor native Cu throughout. Str. Native Cu 30.0-43.0. 30.20 31.40 Considerable native Cu. 37.20 38.50 FAULT And. Brxx- calcite matrix.	6705 6706 6707 6708 6709 6710 6711 6712 6713 6714 6715 6716 6717 6718 6719 6720 6721 6722 6723 6724 6725 6726	19.40 21.40 23.40 25.40 27.40 30.20 31.40 33.40 35.40 37.40 39.40 41.40 43.40 45.40 47.40 49.40 51.40 53.40 55.40 57.40 59.40 61.40 63.40	21.40 23.40 25.40 27.40 30.20 31.40 33.40 35.40 37.40 39.40 41.40 43.40 45.40 47.40 49.40 51.40 53.40 55.40 57.40 59.40 61.40 63.40	2.0 2.0 2.0 2.0 2.8 1.2 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	5 2 15 1 5 20 4 5 5 3 4 2 4 3 5 6 4 2 1 3 5 8	172 242 497 183 577 1620 589 293 210 339 342 194 144 177 284 166 36 116 67 65 181 246

from (m)	to (m)	-----Description-----	Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	Cu (ppm)
			6727	63.40	65.40	2.0	1	133
			6728	65.40	67.40	2.0	5	269
			6729	67.40	69.40	2.0	3	141
			6730	69.40	71.40	2.0	1	98
			6731	71.40	73.40	2.0	2	99
			6732	73.40	75.40	2.0	4	89
			6733	75.40	77.40	2.0	3	101
			6734	77.40	79.40	2.0	2	42
			6735	79.40	81.40	2.0	5	163
			6736	81.40	83.40	2.0	8	370
			6737	83.40	85.40	2.0	7	450
			6738	85.40	87.40	2.0	4	171
18.41	86.30	NICOLA GROUP						
86.30	101.00	FAULT						
		Fr. At 45 + 20 to CA. Calcite stringers to 5mm. Zone is andesite brxx and fault gouge.	6739	87.40	89.40	2.0	4	111
			6740	89.40	91.40	2.0	6	97
			6741	91.40	93.40	2.0	3	131
			6742	93.40	95.40	2.0	5	162
			6743	95.40	97.40	2.0	2	13
			6744	97.40	99.40	2.0	3	32
			6745	99.40	101.40	2.0	7	51
101.00	112.00	NICOLA GROUP						
		Orange weathering. Hematite? Fr.at 45 to CA. Minor native Cu.	6746	101.40	103.40	2.0	10	192
			6747	103.40	105.40	2.0	5	115
			6748	105.40	107.40	2.0	12	166
			6749	107.40	109.40	2.0	7	69
			6750	109.40	111.40	2.0	13	106
			6751	111.40	113.40	2.0	10	39
112.00	127.40	NICOLA GROUP						
		V. Broken. Fr. Every 5cm @ 45 + 10 (minor) to CA. Minor native Cu. Minor py. Wk. Potassic alt.	6752	113.40	115.40	2.0	28	21
			6753	115.40	117.40	2.0	12	31
			6754	117.40	119.40	2.0	3	5
			6755	119.40	121.40	2.0	32	13
			6756	121.40	123.40	2.0	8	90
			6757	123.40	125.40	2.0	11	79
			6758	125.40	127.40	2.0	8	93
127.40	134.30	SYENITE						
		Contact 50 to CA. V. Broken.	6759	127.40	129.40	2.0	40	61
			6760	129.40	131.40	2.0	9	90
			6761	131.40	133.40	2.0	16	52
			6762	133.40	135.40	2.0	5	115
134.30	135.30	FAULT						
		30 To CA. Mainly and.						
135.30	166.50	NICOLA GROUP						
		V. Broken. Fr. Every 5-10cm. @ 45 = 50 to CA. Calcite to 2cm on Fr. Str. Propylitic alt. Minor py, minor native Cu.	6763	135.40	137.40	2.0	12	228
			6764	137.40	139.40	2.0	24	202
			6765	139.40	141.40	2.0	14	91
			6766	141.40	143.40	2.0	13	126
			6767	143.40	145.40	2.0	18	184
			6768	145.40	147.40	2.0	11	98
			6769	147.40	149.40	2.0	9	97
			6770	149.40	151.40	2.0	24	61

from (m)	to (m)	-----Description-----	Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	Cu (ppm)
			6771	151.40	153.40	2.0	16	142
			6772	153.40	155.40	2.0	17	93
			6773	155.40	157.40	2.0	22	131
			6774	157.40	159.40	2.0	29	218
			6775	159.40	161.40	2.0	24	135
			6776	161.40	163.40	2.0	34	173
			6777	163.40	165.40	2.0	44	297
			6778	165.40	167.40	2.0	39	274
166.50	176.10	NICOLA GROUP						
		Orange weathering. Calcite str. To 1cm.	6779	167.40	169.40	2.0	17	129
		Fr. @ 40 + 70 to CA. Minor native Cu.	6780	169.40	171.40	2.0	23	125
			6781	171.40	173.40	2.0	18	129
			6782	173.40	175.40	2.0	50	138
			6783	175.40	177.40	2.0	22	68
176.10	193.10	NICOLA GROUP						
		N.B. Extra 3.1 m between 172.9-175.9.	6800	177.40	177.40	.0	40	245
		Block not placed. V. Broken. Fr. Every 5cm	6784	177.40	179.40	2.0	24	115
		mainly @ 45 to CA. Minor py, native Cu	6785	179.40	181.40	2.0	23	71
		-0.1%.	6786	181.40	183.40	2.0	16	125
			6787	183.40	185.40	2.0	120	905
			6788	185.40	187.40	2.0	20	272
			6789	187.40	189.40	2.0	63	495
			6790	189.40	191.40	2.0	15	164
			6791	191.40	193.40	2.0	57	409
193.10	198.80	NICOLA GROUP						
		Orange weathering. Minor native Cu. Fr. @	6792	193.40	195.40	2.0	4	43
		20 (major), 45 + 60 to CA. Calcite on 20%	6793	195.40	197.40	2.0	3	83
		of Fr. To 3mm.	6794	197.40	199.40	2.0	3	179
198.80	211.00	FAULT						
		Bleached calcite supported and. Brxx. 20%	6795	199.40	201.40	2.0	5	23
		calcite. Purple tinge. 20cm fault gouge at	6796	201.40	203.40	2.0	12	34
		202.1 @ 30 to CA.						
211.00	261.90	NICOLA GROUP						
		And. Xstal tuff? Str. Fr. @ 45 + 55 to CA.	6797	212.80	214.80	2.0	23	222
		1% py minor cypy. Str. Potassic alt. To	6798	224.70	226.70	2.0	5	58
		232.3. Str. Propylitic alt. 232.3 to	6799	232.30	234.30	2.0	5	43
		261.9. 1% py. Fr. Every 10-20cm @ 45 = 70	474587	238.90	240.90	2.0	34	133
		(major) to CA.	474588	240.90	242.90	2.0	6	151
		238.90 239.20 11 Str. Potassic alt.	474589	242.90	244.90	2.0	4	272
		242.00 244.70 FAULT Fr. Every 5cm.	474590	257.90	259.90	2.0	11	97
		243.40 243.80 FAULT Brxx + gouge @ 60 to	474591	259.90	261.90	2.0	9	171
		CA.						
261.90		END OF HOLE						

Co-ords: N 5435.0 E 5700.0

GWR Resources Ltd.

Page: 1  
HOLE NO.: DDH-92-5

Azimuth: 158.0

DIAMOND DRILL RECORD

Property: Miracle

Dip: -60.0

Drilled by: Phils Drilling

Date Started: 7/9/92

Elevation: 1422.0

Core Size: NQ

Date Completed: 17/9/92

Length: 255.2

Logged by: DD  
Date Logged: 17/9/92

Purpose: To test regional structure for  
Cu-Au porphyry mineralization.

Dip Tests  
Depth (m) Dip  
249.00 158.0 -57.0

from (m)	to (m)	Description	Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	Cu (ppm)
.00	9.60	OVERBURDEN Syenite chips w/ strong Potassic Alt.						
9.60	18.50	SYENITE Mod. Mag.Healed brxx.Qtz-calcite stringers.Minor py.Strong potassic alt.Fr.@ 45,60 + sub// to CA.RQD 10%. Recovery 90%.	94255 94256 94257 94258 94259	9.80 11.80 13.80 15.80 17.80	11.80 13.80 15.80 17.80 19.80	2.0 2.0 2.0 2.0 2.0	30 40 20 20 60	300 400 300 200 100
18.50	23.50	SYENITE Str. Propylitic alt.Fr. @ 45 + sub// to CA.RQD 0%.Rec. 80%.1% fine diss. Py.Ca on Fr.	94260 94261	19.80 21.80	21.80 23.80	2.0 2.0	160 100	100 100
23.50	31.40	FAULT And. Brxx.Wk. Potassic alt.Minor hem.-ca on all Fr. And matrix of brxx.Fr. @ 45,30,+ 60 to CA.RQD 0%.Rec. 100%.Str. Mag. Minor py.V. Minor cypy.	94262 94263 94264 94265	23.80 25.80 27.80 29.80	25.80 27.80 29.80 31.80	2.0 2.0 2.0 2.0	80 20 20 30	100 <100 <100 100
31.40	39.20	NICOLA GROUP Flow? Str. Propylitic alt.Ca + Hem. On Fr. @ 8,30. 1% fine diss. Py.RQD 0%.Rec. 90%.Str. Mag.	94266 94267 94268 94269	31.80 33.80 35.80 37.80	33.80 35.80 37.80 39.80	2.0 2.0 2.0 2.0	30 <30 60 <30	<100 100 100 100
39.20	51.20	FAULT 50% Rec.Fr. @ 45 + sub// to CA.RQD 0%.Frag. Are str. Mag.Minor py.V. Minor native Cu.Ca + Hem. On Fr.	94270 94271 94272 94273 94274 94275	39.80 41.80 43.80 45.80 47.80 49.80	41.80 43.80 45.80 47.80 49.80 51.80	2.0 2.0 2.0 2.0 2.0 2.0	30 20 <30 <30 <30 30	100 100 100 100 <100 1000
51.20	90.70	NICOLA GROUP Str. Propylitic alt.Ca. + minor Hem. On Fr. @ 60 + sub// to CA.Minor py. V. Minor native Cu.RQD 20%.Rec. 100%.Str. Ep. + minor K-spar 82.3-82.4.Mod. Mag. 69.40 71.40 Native Cu.	94276 94277 94278 94279 94280	51.80 65.80 69.40 71.40 73.40	53.80 67.80 71.40 73.40 75.40	2.0 2.0 2.0 2.0 2.0	<30 140 <30 <30 <30	300 100 100 100 100

from (m)	to (m)	-----Description-----	Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	Cu (ppm)
90.70	93.10	FAULT Ca. + minor Hem. On Fr. @ 20,30,+60 to CA.Mod. Mag.Minor py.RQD 0%.Rec 100%.	94281 94282	90.70 92.70	92.70 94.70	2.0 2.0	70 <30	200 100
93.10	116.40	NICOLA GROUP Flow?Str. Propylitic alt.In part Ca. Cemented brxx.Fr. W/ Ca + minor Hem @ 45 + 35 to CA.1% py.Minor cypy.Mod. Mag.RQD 50%.Rec. 100%.	94283 94284 94285 94286 94287 94288 94289	100.50 102.50 104.50 110.30 112.30 114.30 116.30	102.50 104.50 106.00 112.30 114.30 116.30 118.30	2.0 2.0 1.5 2.0 2.0 2.0 2.0	50 <30 <30 <30 <30 <30 <30	100 200 200 100 200 200 100
116.40	118.30	FAULT Mod. Propylitic alt. Ca on Fr.Str. Hem.Fr. @ 50 to CA.Minor py.V. Minor native Cu.Wkly. Mag. RQD 0%. Rec. 100%.						
118.30	128.70	NICOLA GROUP Flow?Str. Propylitic alt. Fr. @ 45 to CA. Str. Mag.Ca + minor Hem. On Fr.RQD 50%.Rec. 100%.						
128.70	147.20	NICOLA GROUP Wk. Potassic alt.1% py.Str. Mag.Ca on Fr. @ 40 + 25 to CA.RQD 20%. Rec 100%.	94290 94291 94292 94293 94294 94295 94296 94297 94298 94299	128.70 130.70 132.70 134.70 136.70 138.70 140.70 142.70 144.70 146.70	130.70 132.70 134.70 136.70 138.70 140.70 142.70 144.70 146.70 148.70	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	<30 <30 <30 <30 <30 70 <30 <30 <30 <30	100 <100 100 200 200 200 400 300 200 100
147.20	153.10	FAULT Str. Hem.Fr. @ 45 to CA.Minor py.Mod mag.RQD 0%.Rec 100%.	94300 94301 94302	148.70 150.70 152.70	150.70 152.70 154.70	2.0 2.0 2.0	N/A <30 140	N/A 200 200
153.10	166.60	NICOLA GROUP Str. Propylitic alt.Minor K-spar.Hem-Ca on Fr. @ 45, 30,+60 to CA. Str. Mag.Minor py.RQD 60%.Rec. 100%.						
166.60	173.60	FAULT Healed.Str. Hem. Ca.Fr.@45 to CA.In part Qtz brxx w/ Hem. Matrix.Non magnetic. RQD 80%.Rec 100%.	94303	169.80	172.00	2.2	140	<100
173.60	188.40	NICOLA GROUP Wk. Potassic alt.Str. Mag.Fr. @ 45 + 60 to CA.Minor py.RQD 50%.Rec 100%.	94304	183.10	185.10	2.0	<30	<100
188.40	201.80	SYENITE Mod. Potassic alt.Wk. Mag.Fr. @ 45 + 60 to CA.Minor py.RQD 50%.Rec 100%.	94305 94306	191.10 196.70	193.10 198.70	2.0 2.0	80 <30	100 <100
201.80	205.80	NICOLA GROUP						



from (m)	to (m)	-----Description-----	Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	Cu (ppm)
		Wk. Potassic alt.Mod. Mag.Fr. W/ Ca @ 45 + 15 to CA.Minor py.RQD 50%.Rec 100%.						
205.80	231.70	SYENITE						
		Str. Potassic alt.Ca + Ep on Fr. @ 45 to	94307	210.20	212.20	2.0	40	100
		CA.Mod mag.Minor py.Hem on Fr. RQD 70%.Rec	94308	221.60	223.60	2.0	740	1000
		100%.						
231.70	255.20	NICOLA GROUP						
		Wk potassic alt.Fr. @ 30,45,+60 to CA.1%	94309	232.90	234.90	2.0	<30	100
		py.Minor cypy.Mod mag.Ca + Hem on Fr. RQD	94310	234.90	236.90	2.0	<30	300
		50%.Rec 100%.	94313	236.90	238.90	2.0	15	335
			94314	238.90	240.90	2.0	65	>1000
			94315	240.90	242.90	2.0	25	91
			94316	242.90	245.20	2.3	25	39
			94317	245.20	247.20	2.0	25	32
			94318	247.20	249.20	2.0	20	266
			94319	249.20	251.20	2.0	20	123
			94311	251.20	253.20	2.0	20	32
			94312	253.20	255.20	2.0	10	46
255.20		END OF HOLE						

Co-ords: N 5375.0 E 5265.0

GWR Resources Ltd.

Page: 1  
HOLE NO.: DDH-92-6

Azimuth: 338.0

DIAMOND DRILL RECORD

Property: Miracle

Dip: -60.0

Drilled by: Phils Drilling

Date Started: 21/9/92

Elevation: 1426.0

Core Size: NQ

Date Completed: 2/10/92

Length: 270.4

Logged by: DD

Date Logged: 1-2/10/92

Purpose: To test regional structure for Cu-Au porphyry mineralization.

Dip Tests  
Depth (m) Dip

from (m)	to (m)	Description	Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	Cu (ppm)
.00	9.10	OVERBURDEN And. Boulders w/ Ca stringers to 3 cm. Mod. Propylitic alt.						
9.10	15.20	NICOLA GROUP Xstal tuff? Feldspar + bronze non-magnetic mineral (Bronzite?) phenocrysts. Mod. To str. Hem stain. Ca stringers to 2 cm. Non mag. Fr. + stringers @ 45 + sub // to CA. RQD 10%. Rec 75%.	94320 94321	9.20 12.20	12.20 15.20	3.0 3.0	10 10	11 8
15.20	22.00	FAULT Fr. @ 15 to 20 to CA. RQD 0%. Rec 25%.	94322	15.20	22.00	6.8	55	218
22.00	23.50	NICOLA GROUP Str. Propylitic alt. Fr. w/ Ca @ 45 + 80 to CA.	94323	22.00	24.00	2.0	10	132
23.50	28.00	NICOLA GROUP Lapilli Tuff. Mod. Potassic alt. Ca stringers to 1 cm + Fr. @ 30 to sub // to CA make up 20% of core.	94324 94325	24.00 26.00	26.00 28.00	2.0 2.0	40 350	116 >1000
28.00	37.20	NICOLA GROUP Str. Propylitic alt. Fr. @ 20 to CA. Minor py. RQD 10%. Rec 50%.						
37.20	41.60	NICOLA GROUP Bleached. Qtz-Ca stringers to 5 cm. 10% of core. Fr. @ sub // to 20 + 45 to CA. RQD 50%. Rec 100%.	94326 94327	37.20 39.20	39.20 41.60	2.0 2.4	10 10	102 104
41.00	41.60	FAULT Fault gouge.						
41.60	46.40	SYENITE Mod. Propylitic alt. Fr. @ 45 + sub // to CA.						
46.40	48.60	VEIN Qtz-Ca stringer zone @ 45 + sub // to CA. RQD 10%. Rec 100%.	94328	46.40	48.60	2.2	10	79
48.60	53.80	BASALT FLOWS Feldspar porphyry. Dyke 30 to CA. Ca on Fr.						

from (m)	to (m)	-----Description-----	Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	Cu (ppm)
53.80	58.70	SYENITE Wk. Propylitic alt.Minor py.Ca on Fr. @ 45 to CA.RQD 5%.Rec 100%.						
58.70	61.40	BASALT FLOWS Feldspar porphyry.20 to CA.						
61.40	76.00	SYENITE Mod. Potassic alt.Ca on Fr. @ 45 to CA.Minor Hem,py, + cpy.						
76.00	81.20	VEIN Ca-Qtz stringer zone (50%) in bleached Syenite (50%).Minor py.Fr. @ 45 to CA. RQD 40%.Rec 100%.	94330	76.00	78.00	2.0	5	143
			94331	78.00	81.20	3.2	5	137
81.20	93.60	SYENITE Mod. Propylitic alt.Fr. Sub // + 80 to CA.RQD 0%.Rec 60%.						
93.60	98.20	VEIN Ca-Qtz stringer zone.Stringers @ 45 to 30 to CA.RQD 50%.Rec 100%.	94332	93.60	95.60	2.0	10	126
			94333	95.60	98.20	2.6	<5	87
98.20	105.00	SYENITE Str. Propylitic alt.Fr. @ 45 to CA.Minor Hem.RQD 0%.Rec 90%.						
105.00	122.20	SYENITE Very broken.Minor py.Mod. Potassic alt.RQD 0%.Rec 100%.	94334	105.00	107.00	2.0	<5	100
			94335	107.00	109.00	2.0	<5	163
			94336	120.10	122.10	2.0	10	112
122.20	154.80	SYENITE Wk. Potassic alt.Fr. W/ Ca @ 35 + 45 to CA.Mod. Mag.Minor py.RQD 0%.Rec 90%.						
154.80	160.20	SYENITE Str. Potassic alt.Fr. W/ Ca @ 35 + 60 to CA.RQD 30%.Rec 100%.	94337	154.80	156.80	2.0	35	403
			94338	156.80	158.80	2.0	15	406
			94339	158.80	160.80	2.0	40	966
160.20	175.20	BASALT FLOWS Feldspar porphyry Basalt dyke.						
175.20	185.10	SYENITE Wk. Potassic to strong propylitic alt.Non mag.Fr @ 45 to CA.RQD 10%. Rec 100%.	94340	181.10	183.10	2.0	10	170
			94341	183.10	185.10	2.0	20	65
185.10	198.20	NICOLA GROUP Wk. Potassic alt. Fr. 15 to CA + 45 w/ Ca.Wkly mag.RQD 10%.Rec 85%.	94342	185.10	187.10	2.0	10	214
			94343	187.10	189.10	2.0	10	210
198.20	216.40	FAULT Healed.Hem-Ca zone.Fr. @ 30 + 45 to CA.Non mag.RQD 80%.Rec 100%.	94344	198.20	200.20	2.0	45	406
			94345	200.20	202.20	2.0	10	72
			94346	212.40	214.40	2.0	5	233
			94347	214.40	216.40	2.0	15	163

from (m)	to (m)	-----Description-----	Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	Cu (ppm)
216.40	238.60	NICOLA GROUP						
		Mod potassic alt.1% py.Minor cypy.Fr. @ 45	94348	216.40	218.40	2.0	10	258
		+ sub// to CA.Mod mag. RQD 10%.Rec 90%.	94349	218.40	220.40	2.0	20	317
			94350	220.40	222.40	2.0	20	262
			127351	222.40	224.40	2.0	15	234
			127352	224.40	226.40	2.0	15	267
			127353	226.40	228.40	2.0	20	329
			127354	228.40	230.40	2.0	40	397
			127355	230.40	232.40	2.0	20	217
			127356	232.40	234.40	2.0	10	436
			127357	234.40	236.40	2.0	125	269
			127358	236.40	238.40	2.0	5	72
			127359	238.40	240.40	2.0	25	207
238.60	241.10	FAULT						
		V. Broken syenite.Wk. Potassic alt.1%	127360	240.40	242.40	2.0	15	111
		py.V. Minor cypy.Fr. W/ Ch Ep @ 10 + 45 to						
		CA.RQD 0%. Rec 100%.						
241.10	248.80	SYENITE						
		Mod. Potassic alt.Fr. @ 45 to CA.0.5% py	127361	242.40	244.40	2.0	10	58
		minor cypy. Mod mag.RQD 0%.Rec 100%.	127362	244.40	246.40	2.0	15	46
			127363	246.40	248.40	2.0	15	91
			127364	248.40	250.40	2.0	60	730
248.80	255.20	FAULT						
		Str. Hem.Fr. W/ sericite @ 15 + 45 to	127365	250.40	252.40	2.0	35	259
		CA.Str. Potassic alt.						
255.20	256.70	SYENITE						
		Wk. Potassic alt.Mod mag.Fr. W/ Ca Ch @ 15						
		+ 30 to CA.RQD 50%.Rec 100%.						
256.70	257.30	FAULT						
		Fr. @ 15 to CA w/ Ca Ch.	127366	256.70	258.70	2.0	250	>1000
257.30	270.40	SYENITE						
		Mod potassic alt. 0.5%py minor cypy.Fr. W/	127367	264.40	266.40	2.0	20	401
		Ca @ 45 + 30 to CA.Mod mag.Mod Hem.	127368	266.40	268.40	2.0	45	686
			127369	268.40	270.40	2.0	35	383
270.40		END OF HOLE						

## **Appendix B**

### **Assay Results**



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NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
FAX (604) 980-9621

**SMITHERS LAB.:**  
3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

**Geochemical Analysis Certificate**

**2V-0638-RG1**

Company: **DAVID DUNN**  
Project: **G.W.R. MIRACLE**  
Attn: **DAVID DUNN/I.EISLER**

Date: **JUL-18-92**  
Copy 1. **DAVID DUNN, VANCOUVER, BRITISH COLUM**

*We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted JUL-13-92 by D. DUNN.*

Sample Number	*AU-FIRE PPB	CU PPM
1-00151	61	555
1-00152	56	287
1-00153	45	396
1-00154	22	179
1-00155	37	388
1-00156	35	378
1-00157	16	165
1-00158	13	146
1-00159	26	217
1-00160	52	296
1-00161	58	408
1-00162	45	373
1-00163	320	1055
1-00164	45	470
1-00165	163	985
1-00166	23	359
1-00167	17	207
1-00168	20	361
1-00169	35	397
1-00170	23	284
1-00171	31	233
1-00172	11	159
1-00173	15	129
1-00174	24	300
1-00175	18	222
1-00176	39	268
1-00177	12	110
1-00178	153	352
1-00179	396	1020
1-00180	8	107

\*1 ASSAY TON.

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**SMITHERS LAB.:**  
3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

**Geochemical Analysis Certificate**

**2V-0638-RG2**

Company: **DAVID DUNN**  
Project: **G.W.R. MIRACLE**  
Attn: **DAVID DUNN/I.EISLER**

Date: **JUL-18-92**  
Copy 1. **DAVID DUNN, VANCOUVER, BRITISH COLUM**

*We hereby certify* the following Geochemical Analysis of 14 ROCK samples submitted JUL-13-92 by D. DUNN.

Sample Number	*AU-FIRE PPB	CU PPM
1-00181	14	59
1-00182	28	481
1-00183	23	183
1-00184	40	422
1-00185	3	27
1-00186	4	6
1-00187	134	124
1-00188	5	109
1-00189	4	15
1-00190	4	13
1-00191	8	79
1-00192	29	834
1-00193	220	2080
1-00194	289	2950

\*1 ASSAY TON.

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**SMITHERS LAB.:**  
3178 TALLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

Assay Certificate

2V-0638-RA1

Company: DAVID DUNN  
Project: G.W.R. MIRACLE  
Attn: D. DUNN/I. EISLER

Date: JUL-20-92  
Copy 1. DAVID DUNN, VANCOUVER, B.C.

We hereby certify the following Assay of 4 ROCK samples  
submitted JUL-13-92 by D. DUNN.

Sample Number	Cu %
1-00163	.113
1-00179	.107
1-00193	.224
1-00194	.298

ASSAY FOR CU > 1000 PPM.

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**SMITHERS LAB.:**  
3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

**Geochemical Analysis Certificate**

**2V-0771-RG1**

Company: **G.W.R. RESOURCES LTD.**  
Project: **G.W.R. MIRACLE**  
Attn: **I.EISLER/D. DUNN**

Date: **AUG-12-92**

Copy 1. **G.W.R. RESOURCES LTD., LANGLEY, B.C.**  
2. **G.W.R. RESOURCES LTD., VANCOUVER, B.C.**

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted AUG-06-92 by DAVID DUNN.

Sample Number	AU-FIRE PPB	CU PPM
474701	13	146
474702	14	102
474703	17	172
474704	36	251
474705	267	442
474706	239	334
474707	54	261
474708	1202	369
474709	338	374
474710	518	212
474711	74	275
474712	610	379
474713	129	286
474714	21	183
474715	278	306
474716	48	186
474717	196	117
474718	146	220
474719	39	95
474720	25	78
474721	102	202
474722	68	55
474723	282	66
474724	124	27

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**Geochemical Analysis Certificate**

**2V-0771-RG2**

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Project: **G.W.R.MIRACLE**  
Attn: **I.EISLER/D. DUNN**

Date: **AUG-12-92**

Copy 1. **G.W.R. RESOURCES LTD., LANGLEY, B.C.**  
2. **G.W.R. RESOURCES LTD., VANCOUVER, B.C.**

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted AUG-06-92 by DAVID DUNN.

Sample Number	AU-FIRE PPB	CU PPM
474725	144	314
474726	66	107
474727	35	55
474728	81	31
474729	45	45
474730	8	34
474731	97	202
474732	134	640
474733	28	101
474734	36	302
474735	21	110
474736	27	135
474737	42	605
474738	41	539
474739	42	105
474740	10	56
474741	17	115
474742	53	418
474743	56	546
474744	48	355
474745	32	491
474746	31	144
474747	25	189
474748	12	201

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**Assay Certificate**

**2V-0771-RA1**

Company: **G.W.R. RESOURCES LTD.**  
Project: **G.W.R.MIRACLE**  
Attn: **I.EISLER/D. DUNN**

Date: **AUG-21-92**  
Copy 1. **G.W.R. RESOURCES LTD., LANGLEY, B.C.**  
2. **G.W.R. RESOURCES LTD., VANCOUVER, B.C.**

*We hereby certify* the following Assay of 6 ROCK samples  
submitted AUG-06-92 by DAVID DUNN.

Sample Number	Cu %
474708	.041
474712	.041
474715	.031
474732	.075
474737	.064
474738	.057

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**SMITHERS LAB.:**  
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TELEPHONE (604) 847-3004  
FAX (604) 847-3005

***Geochemical Analysis Certificate***

**2V-0823-RG1**

Company: **G.W.R.RESOURCES LTD.**  
Project: **G.W.R.MIRACLE**  
Attn: **I.EISLER/D.DUNN**

Date: **AUG-21-92**  
Copy 1. **G.W.R.RESOURCES LTD.,LANGLEY,B.C.**  
2. **G.W.R.RESOURCES LTD.,VANCOUVER,B.C.**

*We hereby certify* the following Geochemical Analysis of 24 ROCK samples submitted AUG-17-92 by DAVID DUNN.

Sample Number	AU-FIRE PPB	CU PPM	ZN PPM
1-00195	17	269	
1-00196	22	496	
1-00197	32	560	
1-00198	30	761	
1-00199	132	656	
1-00200	169	1070	
474554	35	203	
474555	39	438	
474556	93	700	
474557	113	231	
474558	51	590	
474559	19	436	
474560	40	234	46
474561	47	395	
474562	39	543	41
474563	68	576	
474564	24	81	
474565	46	291	
474566	207	1270	
474567	38	183	
474568	44	549	
474569	87	1060	
474570	42	101	90
474571	54	694	

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**SMITHERS LAB.:**  
3176 TATLOW ROAD  
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FAX (604) 847-3005

**Geochemical Analysis Certificate**

**2V-0823-RG2**

Company: **G.W.R.RESOURCES LTD.**  
Project: **G.W.R.MIRACLE**  
Attn: **I.EISLER/D.DUNN**

Date: **AUG-21-92**  
Copy 1. **G.W.R.RESOURCES LTD., LANGLEY, B.C.**  
2. **G.W.R.RESOURCES LTD., VANCOUVER, B.C.**

*We hereby certify* the following Geochemical Analysis of 15 CORE samples submitted AUG-17-92 by DAVID DUNN.

Sample Number	AU-FIRE PPB	CU PPM	ZN PPM
474572	42	151	
474573	78	366	
474574	35	142	89
474575	64	214	
474576	193	2700	
474577	91	1380	
474578	100	573	110
474579	71	605	
474580	357	4000	
474581	261	4500	
474582	219	1485	88
474583	99	431	
474584	51	285	
474585	61	457	
474586	63	469	71

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**SMITHERS LAB.:**  
3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

Assay Certificate

2V-0823-RA1

Company: **G.W.R.RESOURCES LTD.**  
Project: **G.W.R.MIRACLE**  
Attn: **I.EISLER/D.DUNN**

Date: **AUG-21-92**  
Copy 1. **G.W.R.RESOURCES LTD., LANGLEY, B.C.**  
2. **G.W.R.RESOURCES LTD., VANCOUVER, B.C.**

We hereby certify the following Assay of 8 CORE samples submitted AUG-17-92 by DAVID DUNN.

Sample Number	Cu %
1-00200	.112
474566	.136
474569	.117
474576	.273
474577	.139
474580	.431
474581	.492
474582	.148

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705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
FAX (604) 980-9621

**SMITHERS LAB.:**  
3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

Geochemical Analysis Certificate

2V-0893-RG1

Company: **G.W.R. RESOURCES**  
Project: **MIRACLE**  
Attn: **I.EISLEN/D.DUNN**

Date: **AUG-31-92**

Copy 1. G.W.R. RESOURCES, LANGLEY, B.C.  
2. G.W.R. RESOURCES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted AUG-27-92 by D. DUNN.

*B.C. = Borden Clegg U 92-01099.4*

*E.T. = Eco Tech ETK 92-458*

Sample Number	Check Assays	AU-FIRE PPB	CU PPM
06701	B.C.	105	695
06702	E.T.	33	391
06703		6	151
06704		1	92
06705		5	172
06706		2	242
06707	E.T.	15	497
06708		1	183
06709		5	577
06710	B.C.	20	1620
06711		4	589
06712	E.T.	5	293
06713		5	210
06714		3	339
06715		4	342
06716		2	194
06717	E.T.	4	144
06718		3	177
06719		5	284
06720	B.C.	6	166
06721		4	36
06722	E.T.	2	116
06723		1	67
06724		3	65

*Check Assays from core.  
See Eco-Tech - ETK 92-497  
74553 - 74572*

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**SMITHERS LAB.:**  
 3178 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

**Geochemical Analysis Certificate**

**2V-0893-RG2**

Company: **G.W.R. RESOURCES**  
 Project: **MIRACLE**  
 Attn: **I.EISLEN/D.DUNN**


Date: **AUG-31-92**

Copy 1. G.W.R. RESOURCES, LANGLEY, B.C.  
 2. G.W.R. RESOURCES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 CORE samples submitted AUG-27-92 by D. DUNN.

Sample Number	AU-FIRE PPB	CU PPM
06725	5	181
06726	8	246
06727 E.T.	1	133
06728	5	269
06729	3	141
06730 B.C.	1	98
06731	2	99
06732 E.T.	4	89
06733	3	101
06734	2	42
06735	5	163
06736	8	370
06737 E.T.	7	450
06738	4	171
06739	4	111
06740 B.C.	6	97
06741	3	131
06742 E.T.	5	162
06743	2	13
06744	3	32
06745	7	51
06746	10	192
06747 E.T.	5	115
06748	12	166

*Check assays from core.  
 See Eco-Tech  
 ETK 92-497  
 74573 - 74592*

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FAX (604) 980-9621

**SMITHERS LAB.:**  
3178 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

**Geochemical Analysis Certificate**

**2V-0893-RG3**

Company: **G.W.R. RESOURCES**  
Project: **MIRACLE**  
Attn: **I.EISLEN/D.DUNN**

Date: **AUG-31-92**

Copy 1. **G.W.R. RESOURCES, LANGLEY, B.C.**  
2. **G.W.R. RESOURCES, VANCOUVER, B.C.**

*We hereby certify* the following Geochemical Analysis of 24 CORE samples submitted AUG-27-92 by D. DUNN.

Sample Number	AU-FIRE PPB	CU PPM
06749	7	69
06750 B.C.	13	106
06751	10	39
06752 E.T.	28	21
06753	12	31
06754	3	5
06755	32	13
06756	8	90
06757 E.T.	11	79
06758	8	93
06759	40	61
06760 B.C.	9	90
06761	16	52
06762 E.T.	5	115
06763	12	228
06764	24	202
06765	14	91
06766	13	126
06767 E.T.	18	184
06768	11	98
06769	9	97
06770 B.C.	24	61
06771	16	142
06772 E.T.	17	93

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FAX (604) 980-9621

**SMITHERS LAB.:**  
3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

Geochemical Analysis Certificate

2V-0893-RG4

Company: **G.W.R. RESOURCES**  
Project: **MIRACLE**  
Attn: **I.EISLEN/D.DUNN**

Date: **AUG-31-92**  
Copy 1. G.W.R. RESOURCES, LANGLEY, B.C.  
2. G.W.R. RESOURCES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of CORE samples submitted AUG-27-92 by D. DUNN.

Sample Number	AU-FIRE PPB	CU PPM
06773	22	131
06774	29	218
06775	24	135
06776	34	173
06777 E.T.	44	297
06778	39	274
06779	17	129
06780 B.C.	23	125
06781	18	129
06782 E.T.	50	138
06783	22	68
06784	24	115
06785	23	71
06786	16	125
06787 E.T.	120	905
06788	20	272
06789	63	495
06790 B.G.	15	164
06791	57	409
06792 E.T.	4	43
06793	3	83
06794	3	179
06795	5	23
06796	12	34

Check assays from cone  
See Eco-Tech  
ETK 92-497  
74593 - 74599

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FAX (604) 980-9621

**SMITHERS LAB.:**  
3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

**Geochemical Analysis Certificate**

**2V-0893-RG5**

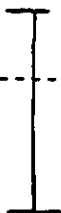
Company: **G.W.R. RESOURCES**  
Project: **MIRACLE**  
Attn: **I.EISLEN/D.DUNN**

Date: **AUG-31-92**

Copy 1. G.W.R. RESOURCES, LANGLEY, B.C.  
2. G.W.R. RESOURCES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 9 CORE samples submitted AUG-27-92 by D. DUNN.

Sample Number	AU-FIRE PPB	CU PPM
06797 <i>E.T.</i>	23	222
06798	5	58
06799	5	43
06800 <i>B.C.</i>	40	245
474587	34	133
474588	6	151
474589	4	272
474590	11	97
474591 <i>B.C.</i>	9	171



*Check assays from core  
See Eco Tech  
ETK 92-497  
74600 - 94253*

Certified by \_\_\_\_\_ 

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TELEPHONE (604) 980-5814 OR (604) 988-4524  
FAX (604) 980-9621

**SMITHERS LAB.:**  
3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

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***Assay Certificate***

**2V-0893-RA1**

Company: **G.W.R. RESOURCES**  
Project: **MIRACLE**  
Attn: **I.EISLEN/D.DUNN**

Date: **AUG-31-92**

Copy 1. **G.W.R. RESOURCES, LANGLEY, B.C.**  
2. **G.W.R. RESOURCES, VANCOUVER, B.C.**

*We hereby certify* the following Assay of 1 ROCK samples  
submitted AUG-27-92 by D. DUNN.

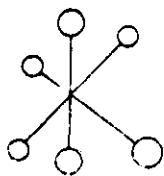
Sample Number	Cu %
06710	.194

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Certified by \_\_\_\_\_

**MIN-EN LABORATORIES**



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

SEPTEMBER 28, 1992

## CERTIFICATE OF ASSAY ETK 92-517

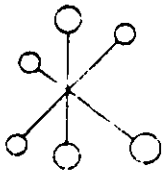
\*\*\*\*\*

GWR RESOURCES  
Suite 204 - 20641 Logan Avenue  
LANGLEY, B.C.  
V3K 7R3

ATTENTION: I. EISLER

SAMPLE IDENTIFICATION: 47 ROCK samples received SEPTEMBER 22, 1992  
----- PROJECT: MIRACLE

ET#	Description	COPPER %		Total:		AU (g/t)	AU (oz/t)
		-140 mesh	+140 mesh				
1-	94255			.03		.03	.001
2-	94256	.04	.02	.04	*	.04	.001
3-	94257			.03		.02	.001
4-	94258			.02		<.03	<.001
5-	94259			.01		.06	.002
6-	94260			.01		.16	.005
7-	94261			.01		.10	.003
8-	94262			.01		.08	.002
9-	94263			<.01		.02	.001
10-	94264			<.01		.02	.001
11-	94265			.01		.03	.001
12-	94266			<.01		.03	.001
13-	94267			.01		<.03	<.001
14-	94268			.01		.06	<.001
15-	94269			.01		<.03	.002
16-	94270			.01		.03	<.001
17-	94271			.01		.02	.001
18-	94272			.01		<.03	.001
19-	94273			.01		<.03	<.001
20-	94274			<.01		<.03	<.001
21-	94275			.10		.03	<.001
22-	94276			.03		<.03	.001
23-	94277			.01		.14	<.001
24-	94278	.01	.01	.01	*	<.03	<.001
25-	94279			.01		<.03	<.001
26-	94280			.01		<.03	<.001
27-	94281			.02		.07	.002



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

GWR RESOURCES ETK 92-517


SEPTEMBER 28, 1992

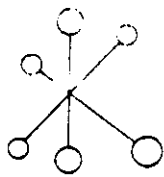
ET#	Description	COPPER %			AU (g/t)	AU (oz/t)
		Fraction Size:				
		-140 mesh	+140 mesh	Total:		
28-	94282			.01	<.03	<.001
29-	94283			.01	.05	.001
30-	94284			.02	<.03	<.001
31-	94285			.02	<.03	<.001
32-	94286			.01	<.03	<.001
33-	94287			.02	<.03	<.001
34-	94288			.02	<.03	<.001
35-	94289			.01	<.03	<.001
36-	94290			.01	<.03	<.001
37-	94291			<.01	<.03	<.001
38-	94292			.01	<.03	<.001
39-	94293			.02	<.03	<.001
40-	94294			.02	<.03	<.001
41-	94295			.02	.07	.002
42-	94296			.04	<.03	<.001
43-	94297			.03	<.03	<.001
44-	94298			.02	<.03	<.001
45-	94299			.01	<.03	<.001
46-	94301			.02	<.03	<.001
47-	94302			<.01	<.03	<.001

PLEASE NOTE: \* = SAMPLES SCREENED AND METALLICS ASSAYED

cc: David Dunn  
2348 Palmerston Ave.  
West Vancouver, B.C.  
V7V 2W1

SC92/kmisc2

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



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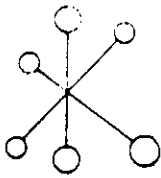
OCTOBER 19 , 1992

## CERTIFICATE OF ANALYSIS ETK 92-536

GWR RESOURCES  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C.  
V7M 1T2

SAMPLE IDENTIFICATION: 59 ROCK samples received OCTOBER 3, 1992  
-----  
PROJECT NO: MIRACLE

ET#	Description	AU (ppb)	CU (ppm)
1-	94311	20	32
2-	94312	10	46
3-	94313	15	335
4-	94314	65	>1000
5-	94315	25	91
6-	94316	25	39
7-	94317	25	32
8-	94318	20	266
9-	94319	20	123
10-	94320	10	11
11-	94321	10	8
12-	94322	55	218
13-	94323	10	132
14-	94324	40	116
15-	94325	350	>1000
16-	94326	10	102
17-	94327	10	104
18-	94328	10	79
19-	94329	15	275
20-	94330	5	143
21-	94331	5	137
22-	94332	10	126
23-	94333	<5	87
24-	94334	<5	100
25-	94335	<5	163
26-	94336	10	112
27-	94337	35	403
28-	94338	15	406
29-	94339	40	966
30-	94340	10	170



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ASSAYING - ENVIRONMENTAL TESTING

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

GWR RESOURCES ETK 92-536

OCTOBER 19, 1992

ET#	Description	AU (ppb)	CU (ppm)
31-	94341	20	65
32-	94342	10	214
33-	94343	10	210
34-	94344	45	406
35-	94345	10	72
36-	94346	5	233
37-	94347	15	163
38-	94348	10	258
39-	94349	20	317
40-	94350	20	262
41-	127351	15	234
42-	127352	15	267
43-	127353	20	329
44-	127354	40	397
45-	127355	20	217
46-	127356	10	436
47-	127357	125	269
48-	127358	5	72
49-	127359	25	207
50-	127360	15	111
51-	127361	10	58
52-	127362	15	46
53-	127363	15	91
54-	127364	60	730
55-	127365	35	259
56-	127366	250	>1000
57-	127367	20	401
58-	127368	45	686
59-	127369	35	383

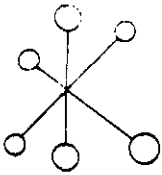
NOTE: > = GREATER THAN

cc: David Dunn  
West Vancouver, B.C.

SC92/kmisc2

  
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B.C. Certified Assayer





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OCTOBER 19 , 1992

## CERTIFICATE OF ASSAY ETK 92-536

=====


GWR RESOURCES  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C.  
V7M 1T2

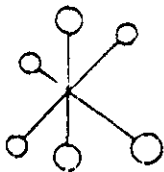
SAMPLE IDENTIFICATION: 59 ROCK samples received OCTOBER 3, 1992  
-----PROJECT NO: MIRACLE

ET#	Description	CU (%)
4-	94314	.17
15	94325	.18
56-	127366	.32

cc: David Dunn  
West Vancouver, B.C.

SC91/kmisc2

  
-----  
ECO-TECH LABORATORIES LTD.  
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B.C. Certified Assayer



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

SEPTEMBER 23, 1992

## CERTIFICATE OF ASSAY ETK 92-458

GWR RESOURCES  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C.  
V7M 1T2

*Check assays  
See Min-En 2U-0893-R & G1*

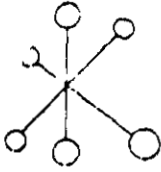
SAMPLE IDENTIFICATION: 20 REJECT samples received SEPTEMBER 8, 1992

ET#	Description	COPPER %			AU (g/t)	AU (oz/t)
		Fraction Size:		Total:		
		-140 mesh	+140 mesh			
1-	6702	.05	<.01	.05	.05	.001
2-	6707	.05	<.01	.05	<.03	<.001
3-	6712	.04	<.01	.04	<.03	<.001
4-	6717	.02	<.01	.02	<.03	<.001
5-	6722	.02	<.01	.02	<.03	<.001
6-	6727	.02	<.01	.02	<.03	<.001
7-	6732	.01	<.01	.01	<.03	<.001
8-	6737	.06	<.01	.06	<.03	<.001
9-	6742	.02	<.01	.02	<.03	<.001
10-	6747	.02	<.01	.02	<.03	<.001
11-	6752	<.01	<.01	<.01	.05	.001
12-	6757	.01	<.01	.01	.03	.001
13-	6762	.01	<.01	.01	.07	.002
14-	6767	.02	<.01	.02	.16	.005
15-	6772	.01	<.01	.01	.18	.005
16-	6777	.03	<.01	.03	.07	.002
17-	6782	.02	<.01	.02	.11	.003
18-	6787	.08	.02	.10	.19	.006
19-	6792	.01	<.01	.01	<.03	<.001
20-	6797	.05	<.01	.05	.03	.001

PLEASE NOTE: ABOVE SAMPLES SCREENED AND METALLICS ASSAYED  
< = LESS THAN

SC91/kmisc2

  
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FRANK J. BEZZOTTI, A.Sc.T.  
B.C. Certified Assayer



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SEPTEMBER 23, 1992

CERTIFICATE OF ASSAY ETK 92-471  
=====

GWR RESOURCES  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C.  
V7M 1T2

SAMPLE IDENTIFICATION: 3 ROCK samples received SEPTEMBER 9, 1992  
-----

ET#	Description	COPPER %			AU (g/t)	AU (oz/t)
		Fraction Size:		Total:		
		-140 mesh	+140 mesh			
1-	54866	.02	<.01	.02	.05	.001
2-	54867	.05	<.01	.05	.29	.008
3-	54868	.05	<.01	.05	<.03	<.001

PLEASE NOTE: ALL ABOVE SAMPLES SCREENED AND METALLICS ASSAYED

SC92/kmisc2

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

REPORT: V92-01099.4 ( COMPLETE )

DATE PRINTED: 22-OCT-92

PROJECT: NONE GIVEN

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Wt-100 GM	Wt+100 GM	Cu PCT	Cu PCT	Cu PCT
82 6701		355.0	21.30	0.07=	0.036=	0.07=
82 6710		249.0	22.08	0.16	0.297	0.17
82 6720		360.8	25.90	0.02	0.010	0.02
82 6730		417.6	26.10	<0.01	0.006	<0.01
82 6740		332.6	27.68	<0.01	0.007	<0.01
82 6750		327.1	30.35	<0.01	0.006	<0.01
82 6760		227.2	30.80	<0.01	0.009	<0.01
82 6770		414.0	25.72	<0.01	0.005	<0.01
82 6780		370.3	22.52	<0.01	0.012	<0.01
82 6790		336.3	24.60	<0.01	0.027	<0.01
82 6800		230.0	19.87	0.02	0.021	0.02
82 474591		322.6	22.24	0.02	0.009	0.02

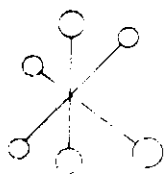
REPORT: V92-01099.4 ( COMPLETE )

DATE PRINTED: 22-OCT-92

PROJECT: NONE GIVEN

PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Wt-100 GM	Wt+100 GM	Cu PCT	Cu PCT	Cu PCT
6740 Duplicate		332.6	27.68	<0.01 <0.01	0.007	<0.01
6790 Duplicate		336.3	24.60	<0.01 <0.01	0.027	<0.01



# ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING  
10011 East Trans Canada Hwy. Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

SEPTEMBER 28, 1992

## CERTIFICATE OF ASSAY ETK 92-497

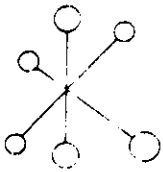
=====

GWR RESOURCES  
Suite 204 - 20641 Logan Avenue  
LANGLEY, B.C.  
V3K 7R3

ATTENTION: I. EISLER

SAMPLE IDENTIFICATION: 51 ROCK samples received SEPTEMBER 17, 1992  
----- PROJECT: MIRACLE

ET#	Description	COPPER %			AU (g/t)	AU (oz/t)
		Fraction Size:		Total:		
		-140 mesh	+140 mesh			
1-	74553	.07	<.01	.07	.15	.004
2-	74554	.06	<.01	.06	.07	.002
3-	74555	.03	<.01	.03	<.03	<.001
4-	74556	.02	<.01	.02	<.03	<.001
5-	74557	<.01	<.01	<.01	<.03	<.001
6-	74558	.02	<.01	.01	.18	.005
7-	74559	.04	<.01	.04	.02	.001
8-	74560	.02	<.01	.02	<.03	<.001
9-	74561	.03	<.01	.03	<.03	<.001
10-	74562	.18	.02	.20	.02	.001
11-	74563	.07	<.01	.07	.09	.003
12-	74564	.03	<.01	.03	<.03	<.001
13-	74565	.02	<.01	.02	<.03	<.001
14-	74566	.03	<.01	.03	<.03	<.001
15-	74567	.04	<.01	.04	<.03	<.001
16-	74568	.02	<.01	.02	<.03	<.001
17-	74569	.02	<.01	.02	<.03	<.001
18-	74570	.02	<.01	.02	<.03	<.001
19-	74571	.03	<.01	.03	<.03	<.001
20-	74572	.02	<.01	.02	<.03	<.001
21-	74573	.02	<.01	.02	<.03	<.001
22-	74574	.03	<.01	.03	<.03	<.001
23-	74575	.02	<.01	.02	<.03	<.001
24-	74576	.03	<.01	.03	<.03	<.001
25-	74577	.02	<.01	.12	<.03	<.001
26-	74578	.01	<.01	.01	<.03	<.001
27-	74579	.01	<.01	.01	<.03	<.001
28-	74580	.01	<.01	.01	<.03	<.001



# ECO-TECH LABORATORIES LTD.

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

GWR RESOURCES LTD. ETK 92-497

September 28, 1992

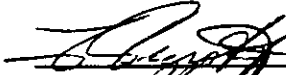
## COPPER %

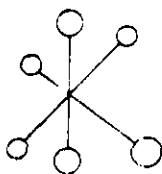
ET#	Description	Fraction Size:			AU	
		-140 mesh	+140 mesh	Total:	(g/t)	(oz/t)
29-	74581	.01	<.01	.01	<.03	<.001
30-	74582	.01	<.01	.01	<.03	<.001
31-	74583	.01	<.01	.01	<.03	<.001
32-	74584	.04	<.01	.04	<.03	<.001
33-	74585	.05	<.01	.05	<.03	<.001
34-	74586	.02	<.01	.02	<.03	<.001
35-	74587	.02	<.01	.02	<.03	<.001
36-	74588	.01	<.01	.01	<.03	<.001
37-	74589	.01	<.01	.01	<.03	<.001
38-	74590	.02	<.01	.02	<.03	<.001
39-	74591	.01	<.01	.01	<.03	<.001
40-	74592	.01	<.01	.01	.02	.001
41-	74593	.13	<.01	.13	.12	.003
42-	74594	.03	<.01	.03	<.03	<.001
43-	74595	.03	<.01	.03	.03	.001
44-	74596	.02	<.01	.02	<.03	<.001
45-	74597	.04	<.01	.04	<.03	<.001
46-	74598	.01	<.01	.01	<.03	<.001
47-	74599	.01	<.01	.01	<.03	<.001
48-	74600	.01	<.01	.01	<.03	<.001
49-	94251	.01	<.01	.01	<.03	<.001
50-	94252	.01	<.01	.01	<.03	<.001
51-	94253	.03	<.01	.03	<.03	<.001

PLEASE NOTE: ALL ABOVE SAMPLES SCREENED AND METALLICS ASSAYED

cc: David Dunn  
2348 Palmerston Ave.  
West Vancouver, B.C.  
V7V 2W1

SC92/kmisc2

  
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

## CERTIFICATE OF ASSAY ETK 92-518

\*\*\*\*\*

GWR RESOURCES  
Suite 204 - 20641 Logan Avenue  
LANGLEY, B.C.  
V3K 7R3


ATTENTION: I. EISLER

SAMPLE IDENTIFICATION: 9 ROCK samples received SEPTE  
----- PROJECT: MIRACLE

ET#	Description	COPPER % Total:	AU (g/t)	AU (oz/t)
1-	94302	.02	.14	.004
2-	94303	<.01	.14	.004
3-	94304	<.01	<.03	<.001
4-	94305	.01	.08	.002
5-	94306	<.01	<.03	<.001
6-	94307	.01	.04	.001
7-	94308	.10	.74	.022
8-	94309	.01	<.03	<.001
9-	94310	.03	<.03	<.001

cc: David Dunn  
2348 Palmerston Ave.  
West Vancouver, B.C.  
V7V 2W1

SC92/kmisc2

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



**Appendix C**  
**Statement of Costs**

Statement Of Costs (1992)

Geologist (D.Dunn)

28.75 days at \$250/day \$7,187.50

14/5/92; 9, 10, 11, 12, 13 (.5)/7/92; 3, 4, 12, 13, 17 (.25),  
24, 25, 26, 27, 28 (.75)/8/92; 9 (.25), 10 (.25), 11 (.25),  
14 (.25), 16, 17, 18, 19, 21 (.25), 22 (.5), 24 (.5), 25 (.25),  
30 (.5)/9/92; 1, 2, 5 (.5), 6 (.5), 14 (.25), 15, 21, 22, 23/10/92

GST \$503.12

Accommodation and Travel:

(Vancouver to Lac La Hache x 8) \$2,000.82

Geologist Assistant and Truck (A. Kriberg)

2 days at \$200/day (11, 12/7/92) \$400.00

Diamond Drill Costs (Phil's Drilling)

3,026 feet at \$17/foot \$51,442.00

1,724 feet at \$15/foot \$25,859.52

Ancillary Costs (Mud, Mob-de-mob, Cat) \$9,507.51

Assay Costs

Min-En Laboratories

255 analyses for Cu, Au at \$17.75/sample \$4,526.25

Bondar Cleg

12 analyses for Cu, Au at \$38.50/sample \$462.00

Echo-Tech laboratories

166 analyses for Cu, Au at \$22.43/sample \$3,723.42

Management Costs

(Includes travel to Lac La Hache, Room and Board,  
and core splitting) \$42,448.86

Project Total

\$148,061.00

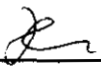



**Appendix D**

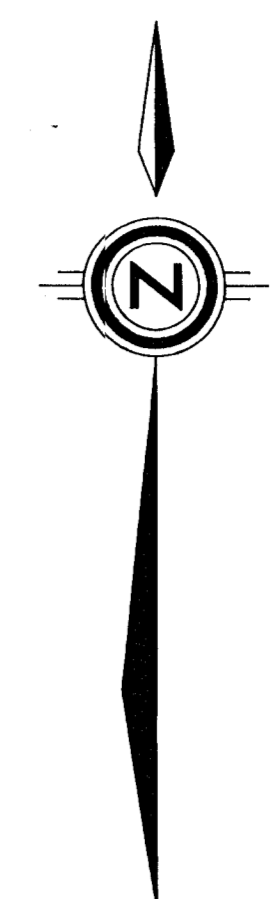
**Statement of Qualifications**

I, David St. Clair Dunn, with a business address of 2348 Palmerston Avenue, West Vancouver, B.C. V7V 2W1, declare that;

1. I am a professional Geoscientist registered under the Professional Engineers and Geoscientists Act of the Province of British Columbia.
2. I am a Fellow of the Geological Association of Canada.
3. I am a member of the Association of Exploration Geochemists.
4. I have practiced my profession as a prospector and geologist for more than 20 years in Canada, U.S.A. and Australia.
5. I supervised the work program on the Murphy claims described in the report "Diamond Drilling on the Miracle Project" Dunn, 1992.
6. I do not have any interest in the Murphy claims or in GWR Resources Inc., nor do I expect to receive any.

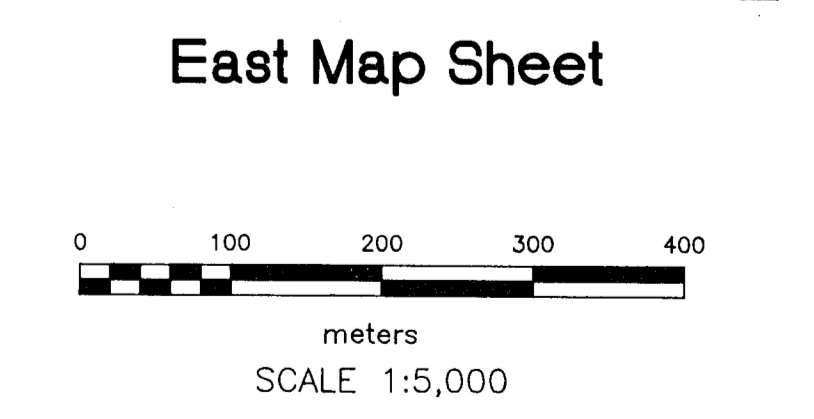
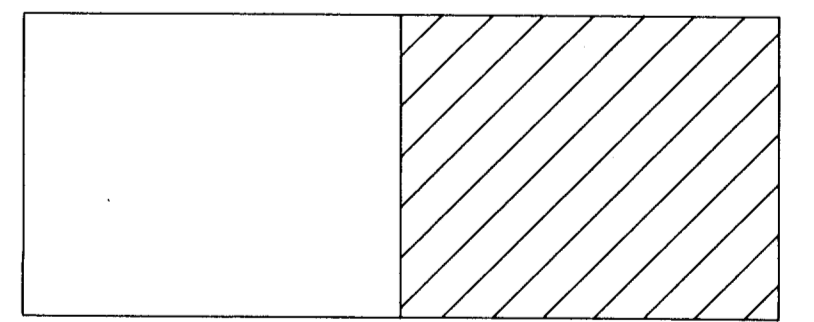
  
David St. Clair Dunn P. Geo.





- LEGEND**
- PLEISTOCENE and RECENT
- 28 Glacial and surficial deposits
- TERTIARY
- 25 Basaltic flows and agglomerates generally massive, up to 25 m thick
- TRIASSIC or JURASSIC
- 14 Takomkane Group  
Granulites to monzonite intrusions containing approximately 2% magnetite
  - 13 Syenite  
medium grained generally highly altered, highly fractured
  - 11 Nicola Group  
igneous to basaltic tuffs and flows (sand and water lake tuffs common). The granite, generally highly altered
- Alteration Facies
- Propylitic  
generalized on the presence of epidote, calcoprite, and chlorite with highly variable pyrite. No secondary quartz, K-feldspar, or biotite
  - Argillic  
generalized on the presence of kaolinite and chlorite with highly variable pyrite. No secondary epidote or K-feldspar and generally no chlorite or carbonate
  - Potassic  
generalized on the presence of secondary kaolinite, chlorite, or epidote
  - Silicic  
generalized on alteration +/- py; cpy  
Regional and/or local metamorphism may overprint these alteration packages.

- SYMBOLS**
- pyrite py
  - calcoppyrite cpy
  - limonite lim
  - hematite hem
  - magnetite mt
  - malachite mal
  - epidote ep
  - K-Spar Ks
- area of outcrop/subcrop
  - geological boundary
  - fault / shear
  - bedding inclined, vertical
  - foliation inclined, vertical
  - jointing inclined, vertical
  - diamond drill hole collar and surface trace
  - trench
  - daim post
  - survey control point
  - sample site and number
  - chip sample and interval
  - clearcut boundary
  - stream or creek
  - swamp
  - secondary road
  - trail
  - proposed diamond drill hole
  - proposed trench

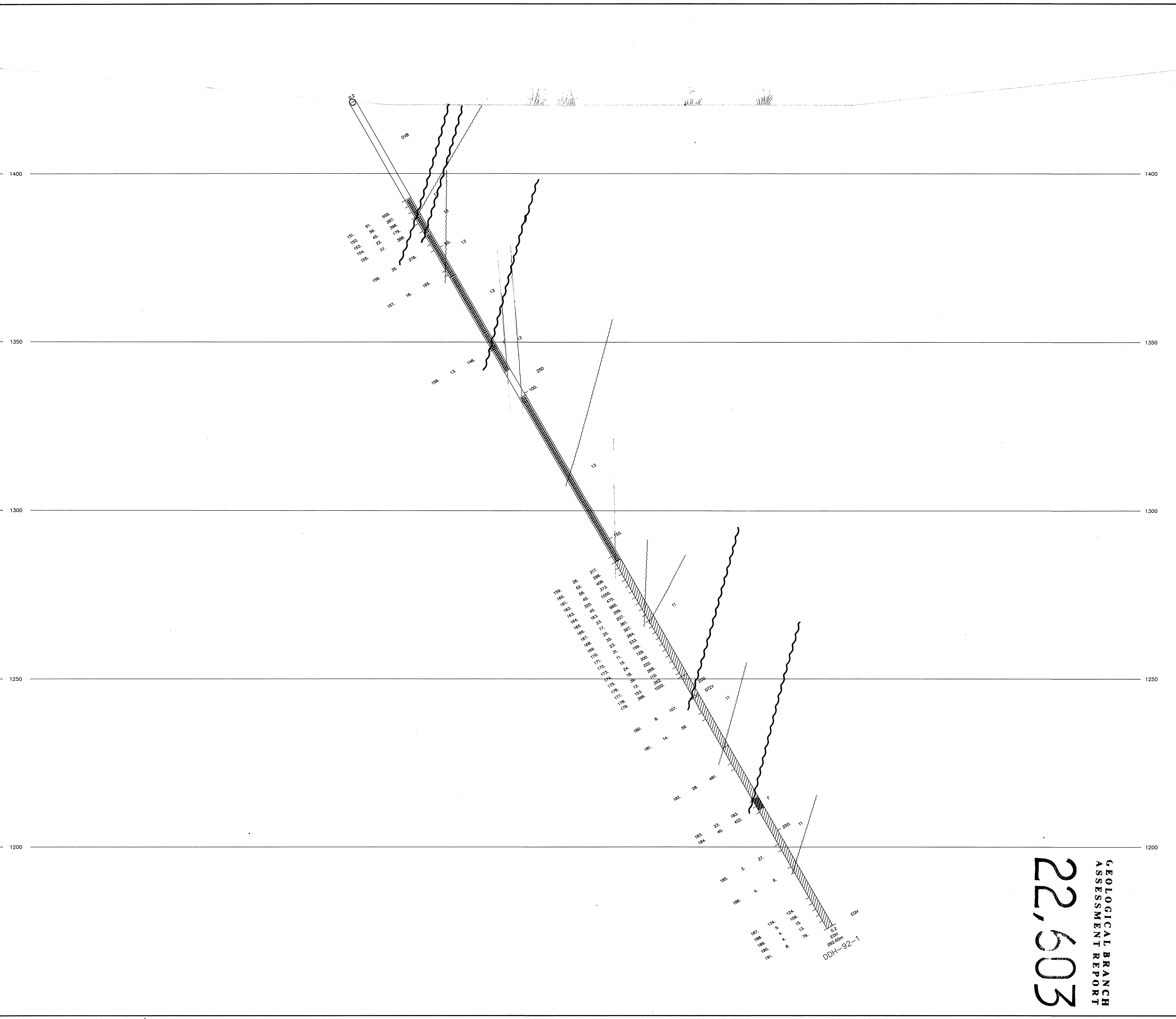


**GWR RESOURCES INC.**

Report by:  
D. DUNN  
Date:  
OCT / 92  
DOS directory:  
L:\GWR  
DOS file name:  
92P094.DWG  
NTS:  
92 P/14  
NOTE: Some data  
dated manually.

**MIRACLE PROJECT**  
**Lac La Hache, BC.**  
**Property Geology**  
**Showing Trenches,**  
**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**

22,603



**LEGEND**

PLEISTOCENE and RECENT

28 Glacial and surficial deposits

TERTIARY

25 Basaltic flows and agglomerates generally vesicular, up to 2% silica

TRIASSIC or JURASSIC

14 Takomkane Group  
Granodiorite to monzonite intrusions containing approximately 2% magnetite

Syenite  
medium grained generally highly altered, highly fractured

Nicola Group  
Andesite to basaltic tuffs and flows lapilli and water lath tuffs common, fine grained, generally highly altered

Alteration Facies

Propylitic  
generalized as the presence of epidote, carbonate, and chlorite with highly variable pyrite. No secondary quartz, K-feldspar, or biotite

Argillic  
generalized as the presence of muscovite and kaolinite with highly variable pyrite. No secondary epidote or K-feldspar and generally no chlorite or carbonate.

Polioxic  
generalized by the presence of K-feldspar and biotite. No secondary kaolinite, chlorite, or epidote.

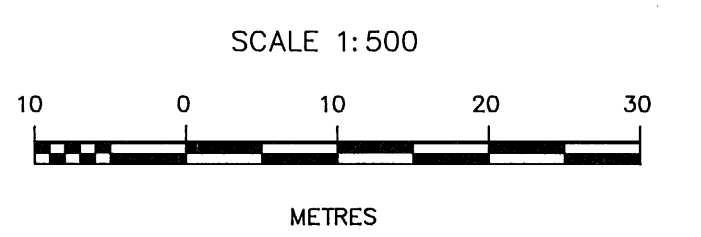
Silicic  
generalized as silicification +/- py, cpy  
Regional and/or local metamorphism may overprint these alteration packages.

**SYMBOLS**

pyrite py  
chalcopyrite cpy  
limonite lim  
hematite hem  
magnetite mt  
malachite mal  
epidote ep  
K-Spar Ks

Cu (ppr) →  
Au (ppb) →  
474701 25, 27.

Swamp  
Faults  
Contact  
Fractures



GWR RESOURCES INC.

Report by: D. DUNN  
Date: Nov. / 1992  
DOS directory: \GWR  
DOS file name: B0100-92-6  
NTS: 92 P/14

**MIRACLE PROJECT**  
Lac La Hache, B.C.  
DDH SECTION  
Hole DDH-92-1 azimuth 158°  
looking 068°

Plotting By: Cambria Data Services Ltd. Map: 2.

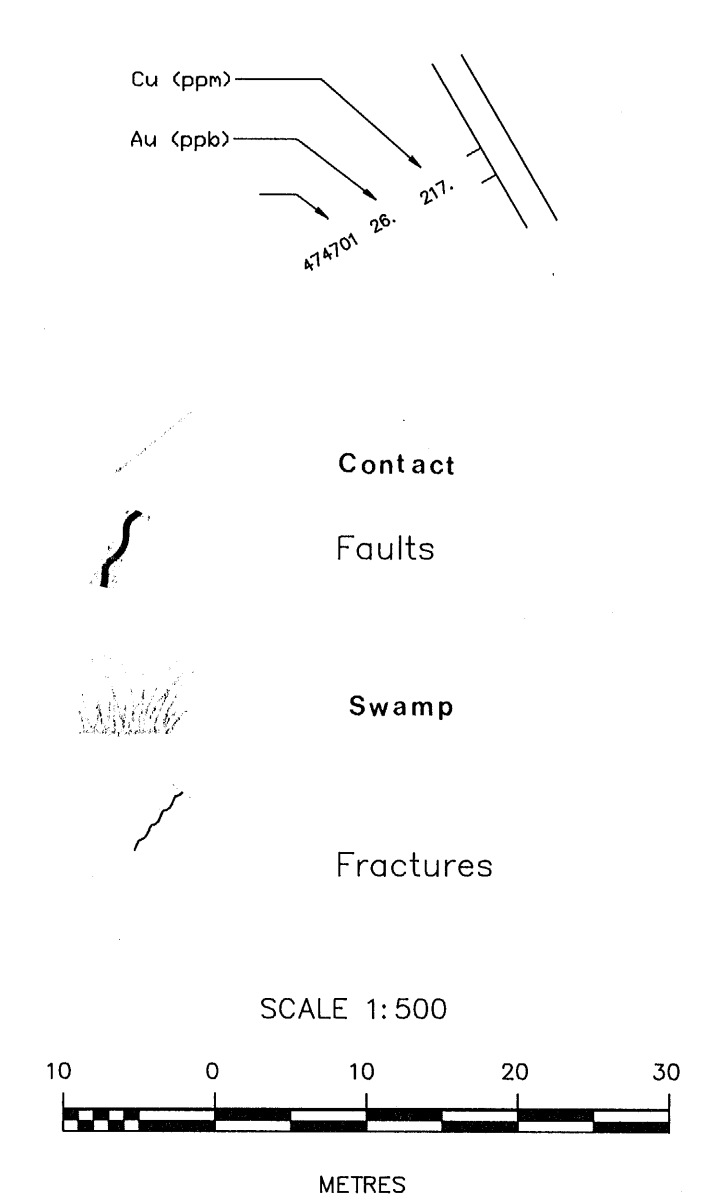
**22,603**  
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

DDH-92-1  
292.20m



- LEGEND**
- PLEISTOCENE and RECENT**
- 28 Glacial and surficial deposits
- TERTIARY**
- 25 Basaltic flows and agglomerates generally weathers up to 2% olive
- TRIASSIC or JURASSIC**
- 14 Tukomikane Group  
Gneiss to quartzite intrusions containing approximately 2% magnetite
  - Syenite  
medium grained generally highly altered, highly fractured
  - Nicola Group  
felsic to basaltic tuffs and flows lapilli and water lah tuffs common, fine grained, generally highly altered
- Alteration Facies**
- Propylitic  
generalized as the presence of epidote, carbonate, and chlorite with highly variable zeolite. No secondary quartz, K-feldspar, or biotite.
  - Argillic  
generalized as the presence of muscovite and kaolinite with highly variable pyrite, K-feldspar and generally no chlorite or carbonate.
  - Potassic  
generalized by the presence of K-feldspar and chlorite. No secondary kaolinite, chlorite, or epidote.
  - Silicic  
generalized as silicification +/- py, cpy  
Regional and/or local metamorphism may overprint these alteration packages.

- SYMBOLS**
- pyrite py
  - chalcocopyrite cpy
  - limonite lim
  - hematite hem
  - magnetite mt
  - malachite mal
  - epidote ep
  - K-Spar Ks



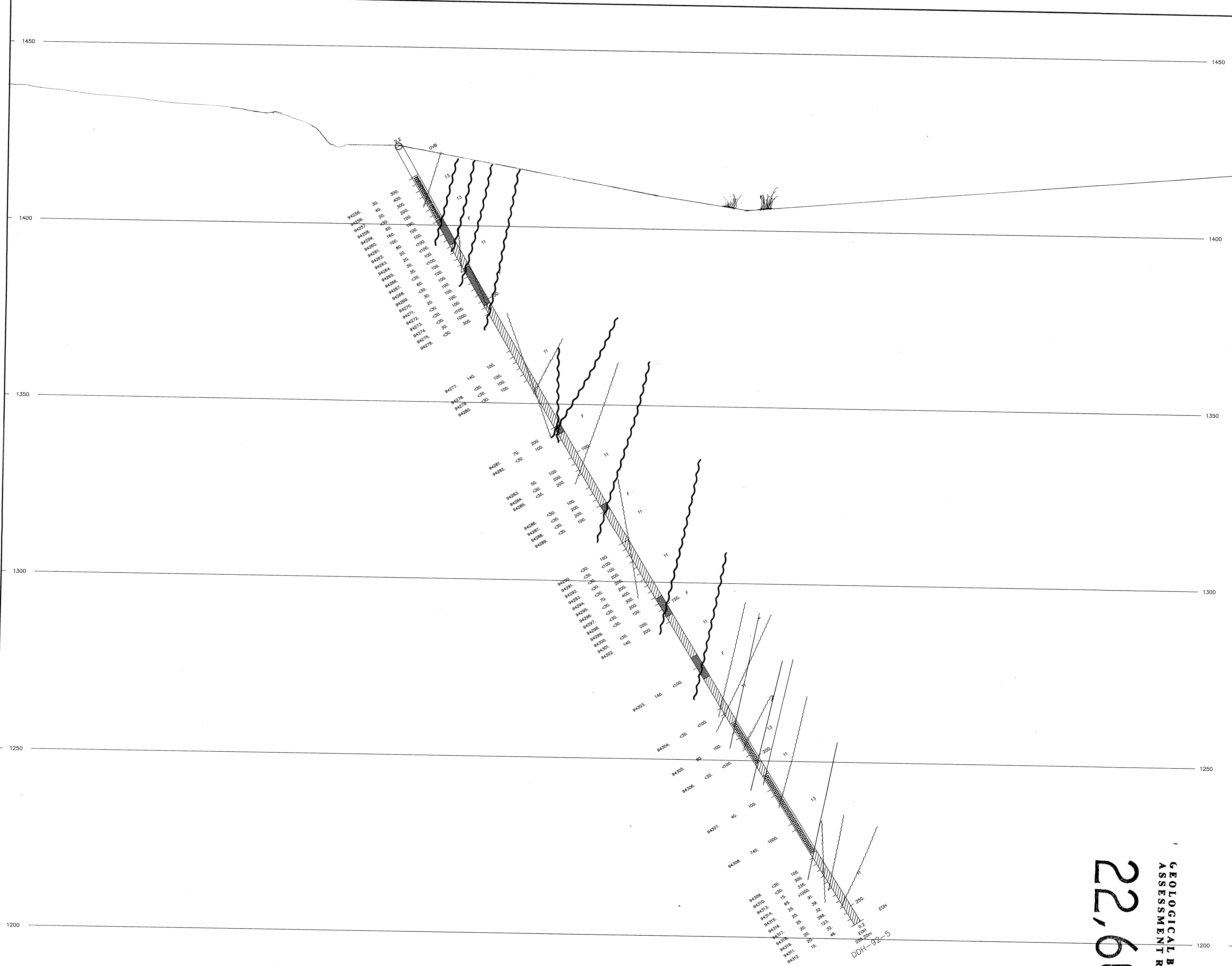
**22,603**  
 GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

**GWR RESOURCES INC.**

Report by: D. DUNN	<b>MIRACLE PROJECT</b> <b>Lac La Hache, B.C.</b> <b>DDH SECTION</b> Hole DDH-92-3 azimuth 348° looking 078°
Date: Nov. /1992	
DOS directory: GWR	
DOS file name: B0100-92-6	
NIS: 92 P/14	Plotting By: Cambria Data Services Ltd.





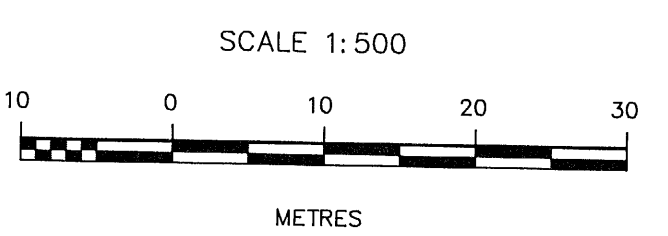


**LEGEND**

- PLEISTOCENE and RECENT**
- 28 Glacial and surficial deposits
- TERTIARY**
- 25 Basaltic flows and agglomerates generally vesicular, up to 2% olivine
- TRIASSIC or JURASSIC**
- 14 Takomkane Group  
Granodiorite to monzonite intrusions containing approximately 2% magnetite
  - Syenite  
medium grained generally highly altered, highly fractured
  - Nicola Group  
Andesitic to basaltic tuffs and flows. Sill and water lute tuffs common, fine grained, generally highly altered
- Alteration Facies**
- Propylitic  
Generalized as the presence of epidote, carbonate, and chlorite with highly variable pyrite, no secondary quartz, K-feldspar, or silite
  - Argillic  
Generalized as the presence of muscovite and kaolinite with highly variable pyrite, no secondary epidote or K-feldspar and generally no chlorite or carbonate
  - Potassic  
Generalized by the presence of K-feldspar and illite. No secondary kaolinite, chlorite, or epidote
  - Silicic  
Generalized as silicification +/- py, cpy  
Regional and/or local metamorphism may overprint these alteration packages

**SYMBOLS**

- pyrite py
  - chalcopyrite cpy
  - limonite ilm
  - hematite hem
  - magnetite mt
  - malachite mal
  - epidote ep
  - K-Spar Ka
- Cu (ppm) 11700 26
- Au (ppb) 217
- Swamp
  - Faults
  - Contact
  - Fractures



22,603

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**GWR RESOURCES INC.**

Report by:  
D. UWIN  
Date:  
Nov./1992  
DGS directory:  
VOW  
DGS file name:  
90100-92-6  
VWS  
92 P/14

**MIRACLE PROJECT**  
Lac La Hache, B.C.  
DDH SECTION  
Hole DDH-92-5 azimuth 158°  
looking 068°

Plotting By:  
Cambria Data Services Ltd.

