COMMONWEALTH GOLD CORPORATION

TOP PROPERTY

ASSESSMENT REPORT ON THE GEOCHEMICAL SURVEY AND DECLINE WORKINGS AND SAMPLING PROGRAM TOP 1-4 CLAIMS, BOTTOM 1 AND 2 CLAIMS

82L/17SE 118° 33' LONGITUDE 50° 05' LATITUDE
VERNON MINING DIVISION, BRITISH COLUMBIA

WRITTEN BY

MICHAEL P. TWYMAN, B.Sc., F.G.A.C
CONSULTANT GEOLOGIST

AUGUST 29th 1991

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,656

LOG NO SEP 27 1991 RD.
ACTION:
FILE NO:

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1. INTRODUCTION

1.1 LOCATION AND ACCESS

The property is centered around 50° 05' Longitude, 118° 33' Latitude, near McIntyre Lake in the Monashee Mountains. The project area is approximately 80Km (50Mi) south east of Vernon on Highway 6 with travel time from that city approximately one hour. The main area of interest is 100m to the north west of highway 6 near the boundary of the Top 3 and Top 4 claims as shown on Figure 1.

1.2 PHYSIOGRAPHY

Topography on the property is typical of the Monashee Mountains; rolling uplands with steep valley side walls. Slopes are steep to very steep, generally lying between 15 and 35 degrees. The claim block is bisected by McIntyre Creek which lies in a prominent south west trending valley. Elevations on the property range from 579m (1,900ft) to 1676m (5,500ft).

The steep valley walls above McIntyre Creek are covered with mature fir, spruce and pine. Extensive clear cut logging has taken place on much of the rolling upland portions of the property.

1.3 EXPLORATION HISTORY

Placer gold has long been known to occur in the Monashee Mountain area. It was first discovered in the area in 1877. Significant production of placer gold is recorded from Cherry and Monashee Creeks and their tributaries north and west of Monashee Mountain. The actual quantity of placer gold won from the area is uncertain however, with estimates ranging from 5,000 to 150,000 ounces.

In 1902 lode gold was discovered in gold-telluride bearing quartz veins near Monashee pass on crown granted lots, 3766 (Rossland), 3737 (Mascot) and 3768 (Evening Star). These are to the north of the subject property.

The showings on the Top property were discovered by Alf Brewer, a prospector, in 1969 when highway 6 was being constructed. Limited surface work was carried out and the claims were allowed to expire the following year.

In 1973 New Cinch Uranium Ltd carried out a combined trenching soil sampling and diamond drilling program. A total of 305m (1000ft) was drilled in 5 holes. Drilling results were found to be inconclusive due to poor core recovery and failure to intersect the mineralized zone in some holes (Gilmour 1982). The property was acquired by New Aston Resources Inc. in 1977, but no work was carried out.

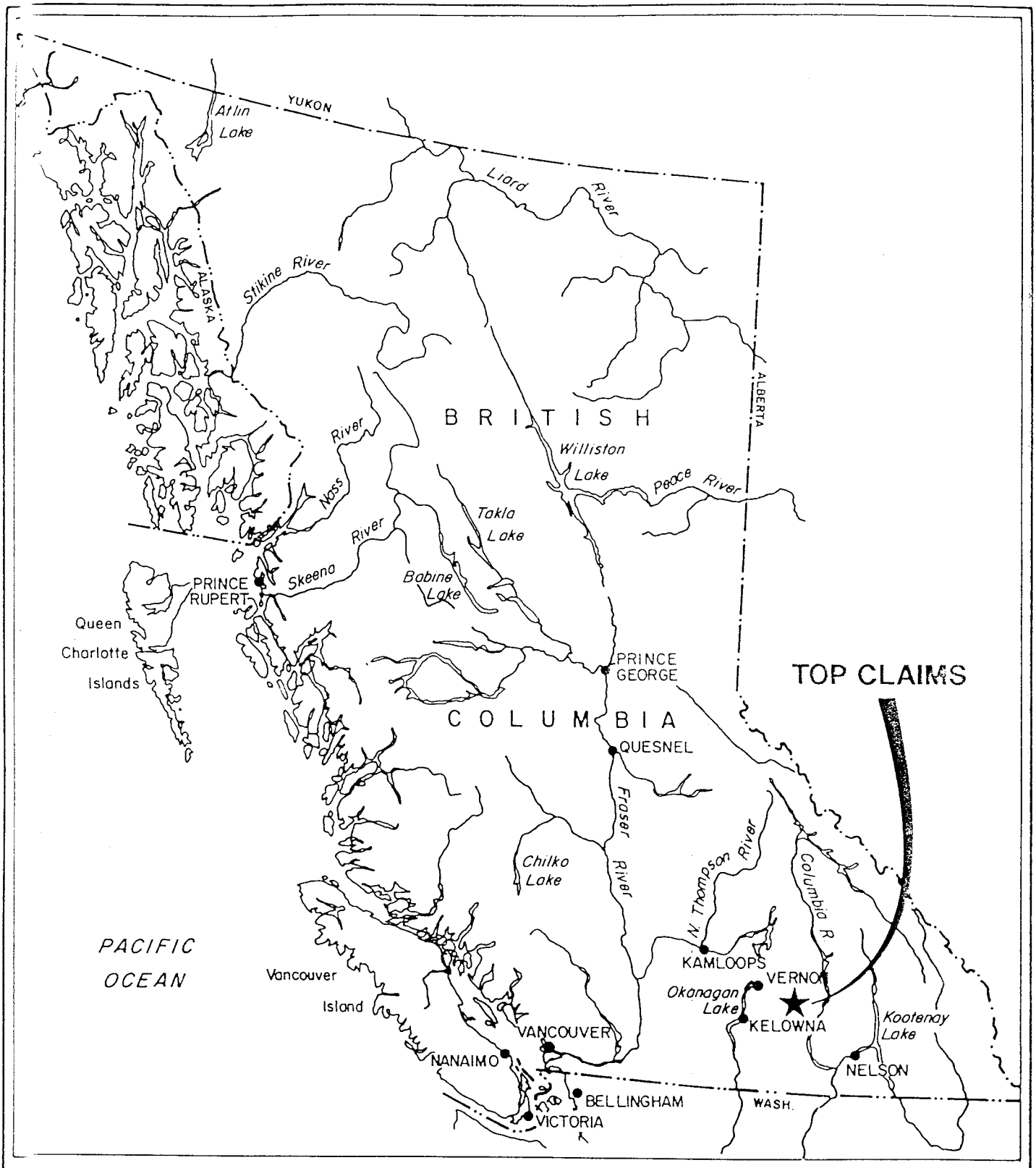


FIGURE 1

COMMONWEALTH GOLD CORPORATION

TOP CLAIMS

KEY MAP

August 29, 1991

AINSWORTH-JENKINS HOLDINGS INC.

Brican optioned the property in 1980. In 1981 they carried out a program of soil and silt sampling as well as detailed mapping of the trenches and in 1982 a magnetometer survey was carried out over the main area of interest. Brican carried out several other mapping and drilling programs with inconclusive results.

Between June 3rd and September 18th a diamond drilling program consisting of 13 hole followed an induced polarization survey was carried out on behalf of El Paraiso Resources Ltd. The work described in this report was undertaken between August and October of 1990.

1.4 PROPERTY DESCRIPTION AND CLAIM STATUS

The Top property consists of six contiguous four post modified grid claims. All claims are owned by J. Irwin of Kelowna B.C.. The claim location is shown on Figure 2 overleaf and are listed as follows:

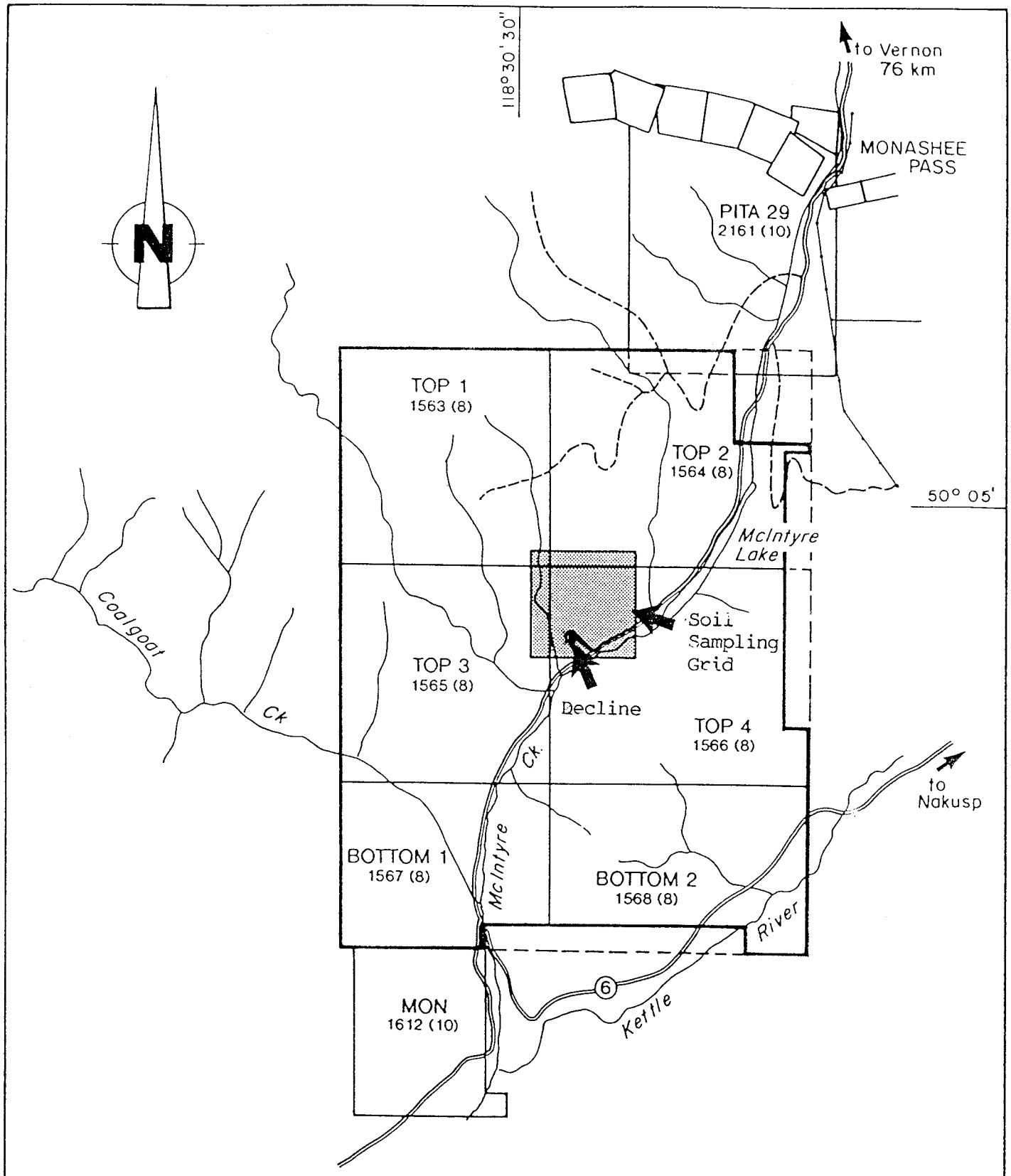
CLAIM NAME	No OF UNITS	RECORD No	TAG No	EXPIRY DATE
Top 1	6	1563	87991	August 17 1997
Top 2	9	1564	87992	August 17 1997
Top 3	12	1565	87993	August 17 1997
Top 4	15	1566	87994	August 17 1997
Bottom 1	18	1567	81223	August 17 1997
Bottom 2	21	1568	87995	August 17 1997

2. 1990 WORK PROGRAM

The 1990 work program consisted of a mapping and soil sampling program that was designed to further delineate the geochemical expression of the known mineralization and test for possible extensions of the zone. A total of 16 lines were placed and 'B' horizon soil samples were collected every 50m. Sample sites were marked with aluminum tags and flagging. A total of 442 samples were collected. Additionally geological mapping was carried out on the grid which is shown on figure 2 overleaf.

Results show no target areas, not illustrated on map T.L.

Following this program a 3m x 3m (10ft x 10ft) 126.5m (415ft) long decline was excavated in order to gain access to the lower levels of the mineralized shear zone. Geological mapping was carried out on a scale of 1:250 and 83 channel samples were collected. Additionally a sample was taken from each blast round as the decline intersected the main shear zone.



COMMONWEALTH GOLD CORPORATION

TOP CLAIMS

CLAIM AND GRID LOCATION MAP

0 500 1000 1500 2000 metres

August 29, 1991

AINSWORTH-JENKINS HOLDINGS INC.

3. GEOLOGY

3.1 REGIONAL AND PROPERTY GEOLOGY

The property is mostly underlain by Mesozoic age granitic rocks of the Nelson batholith. The batholithic rocks intrude metamorphosed sedimentary and volcanic rocks of the upper Triassic Nicola Group. These rocks, which include greenstones, argillites, phyllites, slates, limestones and minor conglomerates, are known to outcrop to the north of the property. Minor outcroppings of Cache Creek roof pendants have been mapped on the property. Tertiary volcanic cap hill tops adjacent to the property indicating a minor resurgence of volcanism.

Precious metal mineralization is related to a shear zone in granodiorite which is up to 15m (50ft) wide and has been traced on surface for 170m (558ft). The granodiorite has been variously fractured, sheared, hydrothermally altered and intruded by a volcanic dyke swarm. The dykes, which range in thickness from 1m to 5m (3ft to 16ft), range in composition from andesite, trachyte to lamprophyre. The dykes were emplaced along an initial zone of weakness and have subsequently been sheared and altered in a fashion similar to the granodiorite. The dykes are thought to be Tertiary in age.

Gold mineralization is related to a zone of moderate to intense shearing located where a swarm of intermediate to mafic volcanic dykes cut granodiorite of the Nelson Batholith. Gold mineralization is thought to be associated with disseminated pyrite and arsenopyrite occurring in narrow quartz-carbonate veins and stringers that cut both the granodiorite and the dykes within the shear zone. The better gold values are generally encountered in veins within the more mafic dykes.

The shear zone and associated dyke swarm strikes generally north to northeasterly and dips moderately to steeply westward.

3.2 DECLINE GEOLOGY

With the exception of narrow dykes encountered near the entrance and in the shear zone at the base, the decline remained in granodiorite for the entire length. A plan view of the decline including geology is shown in plan view on Figure 3 in the Pocket at the back of this report.

The granodiorite is medium grained, pinkish gray and comprised of 25-30% plagioclase, 20-25% orthoclase, 10-15% hornblend up to 30% quartz and rare biotite. This rock is generally fresh except in the main shear zone where there is strong to intense argillic alteration which becomes whitish pyritic clay fault gouges where it has been most intensely sheared. The granodiorite also exhibits moderate to strong clay alteration and occasionally carbonate replacement near the margins of the dykes.

Dykes encountered in the decline are generally very fine grained, dark gray to black in colour. They are typically porphyritic, containing variable amounts of 1-4 mm, feldspar, hornblende, biotite and rare quartz phenocrysts. There is occasionally up to 1% very fine grained disseminated pyrite present. The dykes range in composition between andesite and lamprophyre. Interstitial carbonate replacement and 1-5 mm quartz, carbonate and quartz-carbonate stringers are common. These are thought to be related to the gold mineralization. The intensity of the interstitial carbonate replacement and number of carbonate stringers increases near the dyke margins, and where the dykes occur within the shear zone. This seems to correspond to an increase in gold values, however this observation is not conclusive. Clay and chlorite alteration is common, and where present it gives the rock a greenish colour. The dykes occasionally have irregular to undulating configurations some of which are suggestive of folding. Where the dykes have irregular configurations they occasionally contain inclusions of the granodiorite host rock.

The main shear zone is approximately 10m wide where it is encountered at the base of the decline, it strikes 10-15 ^{o} to the east of north and dips 65^{o} to the N.W. and consists of intensely sheared and brecciated granodiorite and variable amounts of dyke rock.

The most intensely sheared portions of this structure consist of whitish-gray, soft, friable pyritic fault gouge interspersed with less altered blocks of granodiorite. Within the shear zone the dykes generally have moderate to intense clay alteration and carbonate replacement.

Quartz, quartz carbonate and carbonate stringers ranging from hairline to 5 cm in width are common. The wider quartz stringers occasionally show comb texture and are bounded with a very fine grained unidentified blue-gray mineral.

Sulphide mineralization in this shear zone consists of fine grained disseminated pyrite in the fault gouge and rare hairline pyrite stringers in the less altered blocks of granodiorite. In the dykes, the pyrite occurs as scattered irregular 1-3 mm blebs and very fine grained disseminations. Arsenopyrite also occurs as very fine grained disseminations but is much less common.

4. EXPLORATION RESULTS

Data from the channel sampling and bulk samples are shown in Appendix 1. A plan view showing sample locations and values is enclosed on Figure 4 in the pocket at the back of this report. Results from the bulk sampling program are inconclusive, due too the widely varing results that were obtained. The reason for the erratic nature of the gold values is not known.

Similar widely ranging values were obtained during diamond drilling programs carried out by previous operators. At that time it was thought that this was due to the particle effect and would be remedied with bulk sampling.

The soil sampling and mapping program carried out prior to the decline excavation was unsuccessful in finding any extensions to the shear zone or other areas of mineralization. However the most likely area to find an extension of the shear zone, occurs in McIntyre Creek valley, which was unaccessible for mapping and sampling due to the swampy conditions of the valley floor.

5. CONCLUSIONS AND RECOMMENDATIONS

In order to develop the property further, an underground drilling program is recommended. This program should test the shear zone at depth, below the current level of the decline, and also test for the possibility for mineralization further to the east. It is also recommended that an induced polarization survey be carried out over low lying areas of McIntyre Creek valley during winter months in order to test for extensions of the shear zone to the south. Additionally bulk sampling should be carried out in order to try and resolve the problem of erratic gold values obtained to date.

6. STATEMENT OF COSTS

GEOCHEMICAL PROGRAM

B Ainsworth 1.5 days @$450/ day		$ 675
M P. Twyman 12 days @ $450/ day		$ 5,400
Soil samplers 4 @ $230/ day ea 10 days		$ 9,200
Room and Board $37 per man per day 10 days		$ 1,850
Vehicle Rental		
4x4 truck $55 / day 11 days		$ 605
2x4 truck $45 / day 11 days		$ 495
Kilometre charges 3100 km @ 0.18/km		$ 558
Fuel/Oil/Repairs		$ 500
Field supplies		$ 1,250
Equipment rental		$ 850
Assay costs 442 samples @$10.50/ea		$ 4,641
Freight and shipping costs		$ 209
Office		
Secretary, telephone, photocopying etc		$ 375
Report preparation		$ 900
	Total cost	$27,508

UNDERGROUND PROJECT CONTRACTORS CHARGES

Rock work excavation of decline and related work	$335,145
Expenditures on administration and general overhead in the field	$ 46,294
TOTAL COMBINED EXPLORATION PROGRAM COSTS	$421,681

7. STATEMENT OF QUALIFICATIONS

I Michael P. Twyman of North Vancouver British Columbia, do hereby certify as follows:

I am a consultant Geologist residing at 4687 Tourney Road in North Vancouver in the Province of British Columbia.

I am a fellow of the Geological Association of Canada. I graduated from the University of British Columbia with a B.Sc. in geology in 1984.

I have practiced my profession continuously since graduation. I have worked as a consultant Geologist on mineral exploration projects throughout B.C., and in West Africa.

I am the Author of this report which includes a section on underground geology which I personally investigated between September 29th and October 12th 1990.

Dated this 29th day of August 1991.

MICHAEL P. TWYMAN B.Sc., F.G.A.C

Consultant Geologist

For; Ainsworth-Jenkins Holdings Inc.

8. BIBLIOGRAPHY

Clendenan, A.D., 1984 Diamond Drilling Report on the Top Property (Top and Bottom Claims) M^{c} Intyre Lake, Vernon Mining Division B.C.

Gilmour W.R., 1983 Geophysical Assessment Report on the Top Property (Top and Bottom Claims) M^{c} Intyre Lake Vernon Mining Division B.C.

Gilmour W.R., 1982 Geological and Geochemical Assessment Report on the Top Property (Top and Bottom Claims) M^{c}Intyre Lake, Vernon Mining Division, B.C.

Peto P.S., 1988 Geological, Geochemical, geophysical and Drilling Summary Report "Top" Property M^{c}Intyre Lake, Vernon Mining Division.

APPENDIX 1

ASSAY AND GEOCHEMICAL DATA

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: OCT 11 1990

DATE REPORT MAILED: Oct. 17/90

ASSAY CERTIFICATE

Ainsworth-Jenkins Holdings FILE # 90-5263 Page 1

525 - 890 W. Pender St., Vancouver BC V6C 1J9

SAMPLE#	Ag** oz/t	Au** oz/t
3510	.32	.272
3511	.02	.052
3512	.03	.030
3513	.22	.197
3514	.03	.047
3515	.07	.105
3516	.01	.042
3517	.02	.001
3518	.01	.001
3519	.01	.001
3520	.01	.001
3521	1.58	.908
3522	.89	.804
3523	.01	.001
3524	.56	.623
3525	.34	.440
3526	.88	.560
3527	.54	.483
3528	.49	.745
3529	.08	.032
3530	.06	.024
3531	.19	.510
3532	.17	.198
3533	.29	.548
3534	.28	.326
3535	.26	.199
3536	.86	.155
3537	.28	.330
3538	.18	.012
3539	.01	.011
3540	.02	.007
3541	.01	.003
3542	.01	.001
3543	.01	.001
3544	.01	.001
3545	.01	.001
STANDARD AG-1/AU-1	.98	.103

AG** AND AU** BY FIRE ASSAY FROM 1 A.T.
- SAMPLE TYPE: ROCK

SIGNED BY. C. Leong D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Ag** oz/t	Au** oz/t
3546	.01	.001
3547	.01	.001
3548	.01	.007
3549	.02	.018
3550	.01	.017
3551	.02	.024
3552	.10	.289
3553	.10	.033
3554	.04	.037
3555	.01	.090
3556	.04	.056
3557	.24	.270
3558	.09	.017
3559	.10	.046
3560	.06	.129
3561	.01	.001
3562	.01	.001
3563	.02	.383
3564	.01	.001
3565	.01	.001
3566	.01	.001
3567	.01	.002
3568	.01	.001
3569	.01	.011
3570	.01	.003
3571	.01	.001
3572	.01	.001
3573	.01	.022
3574	.01	.002
3575	.17	.204
3576	.04	.044
3577	.06	.083
3578	.03	.021
3579	.01	.012
3580	.01	.001
3581	.05	.016
STANDARD AG-1/AU-1	.99	.101

SAMPLE#	Ag** oz/t	Au** oz/t
3582	.01	.005
3583	.03	.001
3584	.01	.001
3585	.02	.001
3586	.01	.001
3587	.01	.001
3588	.01	.001
3589	.01	.001
3590	.01	.001
3591	.23	.173
3592	.52	.366
STANDARD AG-1/AU-1	.98	.102

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THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

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

Geochemical Analysis Certificate

OV-1319-SG1

Company: AINSWORTH JENKINS
Project:
Attn: M.TWYMAN

Date: SEP-14-90
Copy 1. AINSWORTH JENKINS, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted AUG-31-90 by M.TWYMAN.

Sample Number	AG PPM
L-0+00N:0+00E	1.0
L-0+00N:0+50E	0.8
L-0+00N:1+00E	0.9
L-0+00N:1+50E	1.0
L-0+00N:2+00E	0.6
L-0+00N:2+50E	2.5
L-0+00N:3+00E	1.8
L-0+00N:3+50E	1.9
L-0+00N:4+00E	0.9
L-0+00N:4+50E	1.3
L-0+00N:5+00E	0.9
L-0+00N:0+50W	0.9
L-0+00N:1+00W	1.1
L-0+00N:1+50W	0.6
L-0+00N:2+00W	0.5
L-0+00N:2+50W	0.6
L-0+00N:3+00W	0.8
L-0+00N:3+50W	1.5
L-0+00N:4+00W	0.7
L-0+00N:4+50W	0.8
L-0+00N:5+00W	0.5
L-1+00N:0+00E	0.5
L-1+00N:0+50E	1.0
L-1+00N:1+00E	1.1
L-1+00N:1+50E	1.2
L-1+00N:2+00E	1.2
L-1+00N:2+50E	1.1
L-1+00N:3+00E	1.1
L-1+00N:3+50E	0.9
L-1+00N:4+00E	0.8

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Geochemical Analysis Certificate

OV-1319-SG2

Company: AINSWORTH JENKINS
Project:
Attn: M.TWYMAN

Date: SEP-14-90
Copy 1. AINSWORTH JENKINS, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted AUG-31-90 by M.TWYMAN.

Sample Number	AG PPM
L-1+00N:4+50E	1.3
L-1+00N:5+00E	0.7
L-1+00N:0+50W	0.9
L-1+00N:1+00W	1.4
L-1+00N:1+50W	1.4
L-1+00N:2+00W	1.0
L-1+00N:2+50W	1.0
L-1+00N:3+00W	0.9
L-1+00N:3+50W	1.1
L-1+00N:4+00W	1.2
L-1+00N:4+50W	1.4
L-1+00N:5+00W	0.6
L-2+00N:B/L 0+00	0.5
L-2+00N:0+50E	1.0
L-2+00N:1+00E	1.0
L-2+00N:1+50E	1.2
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L-2+00N:4+50E	1.6
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L-2+00N:0+50W	0.8
L-2+00N:1+00W	1.2
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L-2+00N:2+00W	0.8
L-2+00N:2+50W	0.7
L-2+00N:3+00W	0.8
L-2+00N:3+50W	0.7

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Geochemical Analysis Certificate

OV-1319-SG3

Company: AINSWORTH JENKINS
Project:
Attn: M.TWYMAN

Date: SEP-14-90
Copy 1. AINSWORTH JENKINS, VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 30 SOIL samples submitted AUG-31-90 by M.TWYMAN.

Sample Number	AG PPM
L-2+00N:4+00W	0.5
L-2+00N:4+50W	1.1
L-2+00N:5+00W	0.7
L-3+00N:BL 0+00	0.9
L-3+00N:BL 0+50E	0.8
L-3+00N:BL 1+00E	0.6
L-3+00N:BL 1+50E	0.5
L-3+00N:BL 2+00E	1.0
L-3+00N:BL 2+50E	0.7
L-3+00N:BL 3+00E	1.0
L-3+00N:BL 3+50E	1.8
L-3+00N:BL 4+00E	1.0
L-3+00N:BL 4+50E	1.1
L-3+00N:BL 5+00E	1.5
L-3+00N:0+50W	0.9
L-3+00N:1+00W	0.8
L-3+00N:1+50W	0.6
L-3+00N:2+00W	0.4
L-3+00N:2+50W	0.6
L-3+00N:3+00W	0.5
L-3+00N:3+50W	0.4
L-3+00N:4+00W	0.4
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L-4+00N:1+50E	1.0
L-4+00N:2+00E	1.1
L-4+00N:2+50E	0.7

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Geochemical Analysis Certificate

OV-1319-SG4

Company: AINSWORTH JENKINS
Project:
Attn: M.TWYMAN

Date: SEP-14-90
Copy 1. AINSWORTH JENKINS, VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 30 SOIL samples submitted AUG-31-90 by M.TWYMAN.

Sample Number	AG PPM
L-4+00N:3+00E	1.3
L-4+00N:3+50E	0.9
L-4+00N:4+00E	0.8
L-4+00N:4+50E	0.7
L-4+00N:5+00E	0.5
L-4+00N:0+50W	1.0
L-4+00N:1+00W	0.7
L-4+00N:1+50W	0.6
L-4+00N:2+00W	1.0
L-4+00N:2+50W	1.2
L-4+00N:3+00W	0.7
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L-5+00N:1+50E	1.4
L-5+00N:2+00E	1.3
L-5+00N:2+50E	1.7
L-5+00N:3+00E	0.9
L-5+00N:3+50E	0.8
L-5+00N:4+00E	0.2
L-5+00N:4+50E	1.1
L-5+00N:5+00E	0.7
L-5+00N:0+50W	0.8
L-5+00N:1+00W	1.0
L-5+00N:1+50W	0.9
L-5+00N:2+00W	0.5

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FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

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

Geochemical Analysis Certificate

OV-1319-SG5

Company: AINSWORTH JENKINS
Project:
Attn: M.TWYMAN

Date: SEP-14-90
Copy 1. AINSWORTH JENKINS, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted AUG-31-90 by M.TWYMAN.

Sample Number	AG PPM
L-5+00N:2+50W	0.8
L-5+00N:3+00W	0.6
L-5+00N:3+50W	0.7
L-5+00N:4+00W	0.6
L-5+00N:4+50W	0.9
L-5+00N:5+00W	0.5
L-6+00N:BL 0+00	0.8
L-6+00N:0+50E	1.1
L-6+00N:1+00E	0.9
L-6+00N:1+50E	0.8
L-6+00N:2+00E	1.0
L-6+00N:2+50E	0.8
L-6+00N:3+00E	0.7
L-6+00N:3+50E	1.0
L-6+00N:4+00E	0.4
L-6+00N:4+50E	1.6
L-6+00N:5+00E	0.6
L-6+00N:0+50W	0.8
L-6+00N:1+00W	1.1
L-6+00N:1+50W	0.7
L-6+00N:2+00W	0.9
L-6+00N:2+50W	0.8
L-6+00N:3+00W	0.5
L-6+00N:3+50W	1.2
L-6+00N:4+00W	0.7
L-6+00N:4+50W	0.6
L-6+00N:5+00W	0.7
L-7+00N:BL 0+00	0.8
L-7+00N:0+50E	1.0
L-7+00N:1+00E	0.7

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FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

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

Geochemical Analysis Certificate

OV-1319-SG6

Company: AINSWORTH JENKINS
Project:
Attn: M.TWYMAN

Date: SEP-14-90
Copy 1. AINSWORTH JENKINS, VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 30 SOIL samples submitted AUG-31-90 by M.TWYMAN.

Sample Number	AG PPM
L-7+00N:1+50E	0.7
L-7+00N:2+00E	0.3
L-7+00N:2+50E	1.0
L-7+00N:3+00E	0.7
L-7+00N:3+50E	0.6
L-7+00N:4+00E	1.2
L-7+00N:4+50E	1.4
L-7+00N:5+00E	0.6
L-7+00N:0+50W	0.5
L-7+00N:1+00W	0.3
L-7+00N:1+50W	1.0
L-7+00N:2+00W	0.4
L-7+00N:2+50W	1.1
L-7+00N:3+00W	0.9
L-7+00N:3+50W	1.2
L-7+00N:4+00W	0.7
L-7+00N:4+50W	0.8
L-7+00N:5+00W	0.9
L-1+00S:B/L 0+00	1.4
L-1+00S:0+50E	1.6
L-1+00S:1+00E	1.7
L-1+00S:1+50E	0.8
L-1+00S:2+00E	1.4
L-1+00S:2+50E	0.7
L-1+00S:3+00E	1.3
L-1+00S:3+50E	0.9
L-1+00S:4+00E	1.0
L-1+00S:4+50E	0.8
L-1+00S:5+00E	0.8
L-1+00S:0+50W	0.9

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SMITHERS LAB.:
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Geochemical Analysis Certificate

OV-1319-SG7

Company: AINSWORTH JENKINS
Project:
Attn: M.TWYMAN

Date: SEP-14-90
Copy 1. AINSWORTH JENKINS, VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 27 SOIL samples submitted AUG-31-90 by M.TWYMAN.

Sample Number	AG PPM	
L-1+00S:1+00W	0.8	
L-1+00S:1+50W	0.9	
L-1+00S:2+00W	0.7	
L-1+00S:2+50W	1.0	
L-1+00S:3+00W	0.8	
L-1+00S:3+50W	0.6	
L-1+00S:4+00W	1.0	
L-1+00S:4+50W	0.7	
L-1+00S:5+00W	1.0	
L-2+00S:B/L 0+00	1.0	
L-2+00S:0+50E	0.6	
L-2+00S:1+00E	1.1	
L-2+00S:1+50E	1.9	
L-2+00S:2+00E	1.1	
L-2+00S:2+50E	1.2	
L-2+00S:3+00E	1.1	
L-2+00S:3+50E	0.7	
L-2+00S:4+00E	NO	SAMPLE
L-2+00S:4+50E	NO	SAMPLE
L-2+00S:5+00E	NO	SAMPLE
L-2+00S:0+50W	1.4	
L-2+00S:1+00W	0.6	
L-2+00S:1+50W	0.7	
L-2+00S:2+00W	0.8	
L-2+00S:2+50W	1.0	
L-2+00S:3+00W	0.9	
L-2+00S:3+50W	1.0	
L-2+00S:4+00W	1.5	
L-2+00S:4+50W	1.1	
L-2+00S:5+00W	1.1	

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SMITHERS LAB.:
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Geochemical Analysis Certificate

OV-1319-SG8

Company: AINSWORTH JENKINS
Project:
Attn: M.TWYMAN

Date: SEP-14-90
Copy 1. AINSWORTH JENKINS, VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 30 SOIL samples submitted AUG-31-90 by M.TWYMAN.

Sample Number	AG PPM	
L-3+00S:B/L 0+00	0.6	
L-3+00S:0+50E	0.5	
L-3+00S:1+00E	0.7	
L-3+00S:1+50E	0.5	
L-3+00S:2+00E	0.9	
L-3+00S:2+50E	1.3	
L-3+00S:3+00E	NO	SAMPLE
L-3+00S:3+50E	NO	SAMPLE
L-3+00S:4+00E	NO	SAMPLE
L-3+00S:4+50E	NO	SAMPLE
L-3+00S:5+00E	NO	SAMPLE
L-3+00S:0+50W	1.0	
L-3+00S:1+00W	0.7	
L-3+00S:1+50W	1.7	
L-3+00S:2+00W	0.9	
L-3+00S:2+50W	0.8	
L-3+00S:3+00W	0.9	
L-3+00S:3+50W	0.8	
L-3+00S:4+00W	0.5	
L-3+00S:4+50W	0.6	
L-3+00S:5+00W	1.0	
L-4+00S:B/L 0+00	0.6	
L-4+00S:0+50E	0.5	
L-4+00S:1+00E	0.5	
L-4+00S:1+50E	0.7	
L-4+00S:2+00E	0.6	
L-4+00S:2+50E	NO	SAMPLE
L-4+00S:3+00E	0.4	
L-4+00S:3+50E	1.2	
L-4+00S:4+00E	0.8	

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Geochemical Analysis Certificate

OV-1319-SG9

Company: AINSWORTH JENKINS
Project:
Attn: M.TWYMAN

Date: SEP-14-90
Copy 1. AINSWORTH JENKINS, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 28 SOIL samples submitted AUG-31-90 by M.TWYMAN.

Sample Number	AG PPM	
L-4+00S:4+50E	0.7	
L-4+00S:5+00E	0.6	
L-4+00S:5+50E	0.7	
L-4+00S:6+00E	0.7	
L-4+00S:6+50E	0.7	
L-4+00S:7+00E	1.0	
L-4+00S:7+50E	1.0	
L-4+00S:8+00E	1.1	
L-4+00S:8+50E	1.2	
L-4+00S:9+00E	0.9	
L-4+00S:9+50E	1.1	
L-4+00S:10+00E	0.8	
L-4+00S:0+50W	0.6	
L-4+00S:1+00W	0.9	
L-4+00S:1+50W	1.0	
L-4+00S:2+00W	0.5	
L-4+00S:2+50W	0.4	
L-4+00S:3+00W	0.8	
L-4+00S:3+50W	0.7	
L-4+00S:4+00W	0.6	
L-4+00S:4+50W	0.9	
L-4+00S:5+00W	0.6	
L-5+00S:B/L 0+00	0.7	
L-5+00S:0+50E	0.6	
L-5+00S:1+00E	NO	SAMPLE
L-5+00S:1+50E	NO	SAMPLE
L-5+00S:2+00E	1.1	
L-5+00S:2+50E	1.0	
L-5+00S:3+00E	1.0	
L-5+00S:3+50E	1.1	

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TELEPHONE (807) 622-8958
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SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1319-SG10

Company: AINSWORTH JENKINS
Project:
Attn: M.TWYMAN

Date: SEP-14-90
Copy 1. AINSWORTH JENKINS, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 28 SOIL samples submitted AUG-31-90 by M.TWYMAN.

Sample Number	AG PPM	
L-5+00S:4+00E	1.1	
L-5+00S:4+50E	1.2	
L-5+00S:5+00E	1.4	
L-5+00S:5+50E	1.8	
L-5+00S:6+00E	0.7	
L-5+00S:6+50E	1.1	
L-5+00S:7+00E	1.2	
L-5+00S:7+50E	1.3	
L-5+00S:8+00E	0.9	
L-5+00S:8+50E	1.3	
L-5+00S:9+00E	1.6	
L-5+00S:9+50E	1.8	
L-5+00S:10+00E	1.9	
L-5+00S:0+50W	0.7	
L-5+00S:1+00W	1.0	
L-5+00S:1+50W	0.9	
L-5+00S:2+00W	0.4	
L-5+00S:2+50W	1.0	
L-5+00S:3+00W	0.8	
L-5+00S:3+50W	1.0	
L-5+00S:4+00W	1.0	
L-5+00S:4+50W	1.1	
L-5+00S:5+00W	1.1	
L-6+00S:B/L 0+00	0.8	
L-6+00S:0+50E	NO	SAMPLE
L-6+00S:1+00E	NO	SAMPLE
L-6+00S:1+50E	0.8	
L-6+00S:2+00E	0.6	
L-6+00S:2+50E	0.8	
L-6+00S:3+00E	1.5	

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

Geochemical Analysis Certificate

OV-1319-SG11

Company: AINSWORTH JENKINS
Project:
Attn: M.TWYMAN

Date: SEP-14-90
Copy 1. AINSWORTH JENKINS, VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 26 SOIL samples submitted AUG-31-90 by M.TWYMAN.

Sample Number	AG PPM	
L-6+00S:3+50E	1.0	
L-6+00S:4+00E	0.7	
L-6+00S:4+50E	0.8	
L-6+00S:5+00E	0.5	
L-6+00S:5+50E	0.3	
L-6+00S:6+00E	0.4	
L-6+00S:6+50E	NO	SAMPLE
L-6+00S:7+00E	1.8	
L-6+00S:7+50E	1.3	
L-6+00S:8+00E	0.9	
L-6+00S:8+50E	2.4	
L-6+00S:9+00E	3.4	
L-6+00S:9+50E	1.3	
L-6+00S:10+00E	2.3	
L-6+00S:0+50W	0.9	
L-6+00S:1+00W	1.0	
L-6+00S:1+50W	0.4	
L-6+00S:2+00W	1.2	
L-6+00S:2+50W	NO	SAMPLE
L-6+00S:3+00W	1.5	
L-6+00S:3+50W	0.9	
L-6+00S:4+00W	NO	SAMPLE
L-6+00S:4+50W	1.1	
L-6+00S:5+00W	0.9	
L-7+00S:B/L0+00	NO	SAMPLE
L-7+00S:0+50E	0.9	
L-7+00S:1+00E	1.0	
L-7+00S:1+50E	0.9	
L-7+00S:2+00E	0.8	
L-7+00S:2+50E	0.4	

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THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

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

Geochemical Analysis Certificate

OV-1319-SG12

Company: AINSWORTH JENKINS
Date: SEP-14-90
Project:
Copy 1. AINSWORTH JENKINS, VANCOUVER, B.C.
Attn: M.TWYMAN

He hereby certify the following Geochemical Analysis of 24 SOIL samples submitted AUG-31-90 by M.TWYMAN.

Sample Number	AG PPM	
L-7+00S:3+00E	0.9	
L-7+00S:3+50E	3.6	
L-7+00S:4+00E	0.9	
L-7+00S:4+50E	0.9	
L-7+00S:5+00E	1.2	
L-7+00S:5+50E	3.9	
L-7+00S:6+00E	1.5	
L-7+00S:6+50E	2.0	
L-7+00S:7+00E	0.6	
L-7+00S:7+50E	1.4	
L-7+00S:8+00E	2.9	
L-7+00S:8+50E	2.8	
L-7+00S:9+00E	1.1	
L-7+00S:9+50E	1.0	
L-7+00S:10+00E	2.3	
L-7+00S:0+50W	NO	SAMPLE
L-7+00S:1+00W	NO	SAMPLE
L-7+00S:1+50W	NO	SAMPLE
L-7+00S:2+00W	NO	SAMPLE
L-7+00S:2+50W	NO	SAMPLE
L-7+00S:3+00W	0.9	
L-7+00S:3+50W	1.2	
L-7+00S:4+00W	1.0	
L-7+00S:4+50W	0.9	
L-7+00S:5+00W	1.0	
L-8+00S:B/L 0+00	1.3	
L-8+00S:0+50E	0.9	
L-8+00S:1+00E	0.8	
L-8+00S:1+50E	1.3	
L-8+00S:2+00E	NO	SAMPLE

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FAX (807) 623-5931

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

Geochemical Analysis Certificate

OV-1319-SG13

Company: AINSWORTH JENKINS
Project:
Attn: M.TWYMAN

Date: SEP-14-90
Copy 1. AINSWORTH JENKINS, VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 28 SOIL samples submitted AUG-31-90 by M.TWYMAN.

Sample Number	AG PPM	
L-8+00S:2+50E	1.0	
L-8+00S:3+00E	1.4	
L-8+00S:3+50E	1.2	
L-8+00S:4+00E	1.0	
L-8+00S:4+50E	0.7	
L-8+00S:5+00E	1.3	
L-8+00S:5+50E	0.2	
L-8+00S:6+00E	1.5	
L-8+00S:6+50E	1.6	
L-8+00S:7+00E	1.4	
L-8+00S:7+50E	0.9	
L-8+00S:8+00E	4.9	
L-8+00S:8+50E	2.8	
L-8+00S:9+00E	1.9	
L-8+00S:9+50E	1.3	
L-8+00S:10+00E	1.7	
L-8+00S:0+50W	0.7	
L-8+00S:1+00W	0.9	
L-8+00S:1+50W	1.0	
L-8+00S:2+00W	NO	SAMPLE
L-8+00S:2+50W	NO	SAMPLE
L-8+00S:3+00W	0.5	
L-8+00S:3+50W	1.2	
L-8+00S:4+00W	0.8	
L-8+00S:4+50W	0.5	
L-8+00S:5+00W	1.0	
L-9+00S:B/L 0+00	1.3	
L-9+00S:0+50E	1.8	
L-9+00S:1+00E	1.6	
L-9+00S:1+50E	0.5	

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SMITHERS LAB.:
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Geochemical Analysis Certificate

OV-1319-SG14

Company: AINSWORTH JENKINS
Project:
Attn: M.TWYMAN

Date: SEP-14-90
Copy 1. AINSWORTH JENKINS, VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 25 SOIL samples submitted AUG-31-90 by M.TWYMAN.

Sample Number	AG PPM	
L-9+00S:2+00E	1.0	
L-9+00S:2+50E	2.0	
L-9+00S:3+00E	0.7	
L-9+00S:3+50E	1.4	
L-9+00S:4+00E	0.6	
L-9+00S:4+50E	0.9	
L-9+00S:5+00E	0.6	
L-9+00S:5+50E	1.3	
L-9+00S:6+00E	0.8	
L-9+00S:6+50E	1.3	
L-9+00S:7+00E	1.6	
L-9+00S:7+50E	1.0	
L-9+00S:8+00E	2.8	
L-9+00S:8+50E	1.4	
L-9+00S:9+00E	1.8	
L-9+00S:9+50E	1.1	
L-9+00S:10+00E	0.6	
L-9+00S:0+50W	0.6	
L-9+00S:1+00W	0.7	
L-9+00S:1+50W	0.5	
L-9+00S:2+00W	1.2	
L-9+00S:2+50W	1.0	
L-9+00S:3+00W	NO	SAMPLE
L-9+00S:3+50W	NO	SAMPLE
L-9+00S:4+00W	NO	SAMPLE
L-9+00S:4+50W	NO	SAMPLE
L-9+00S:5+00W	NO	SAMPLE
89300E: 47575 N	0.7	
89300E: 47600 N	0.5	
89300E: 47625 N	0.9	

Certified by _____

MIN-EN LABORATORIES

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

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

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

Geochemical Analysis Certificate

OV-1319-SG15

Company: AINSWORTH JENKINS
Project:
Attn: M.TWYMAN

Date: SEP-14-90
Copy 1. AINSWORTH JENKINS, VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 30 SOIL samples submitted AUG-31-90 by M.TWYMAN.

Sample Number	AG PPM
89300E: 47650 N	1.0
89300E: 47675 N	0.5
89300E: 47700 N	0.7
89300E: 47725 N	0.7
89300E: 47750 N	1.1
89300E: 47775 N	0.2
89300E: 47800 N	1.1
89300E: 47825 N	0.9
89300E: 47850 N	0.5
89300E: 47875 N	0.6
89300E: 47900 N	0.7
89300E: 47925 N	1.2
89300E: 47950 N	1.3
89300E: 47975 N	0.9
89300E: 48000 N	1.0
89300E: 48025 N	0.9
89300E: 48050 N	0.8
89300E: 48075 N	0.8
89300E: 48100 N	0.6
89300E: 48125 N	0.5
89300E: 48150 N	0.7
89300E: 48175 N	0.7
89300E: 48200 N	0.9
89300E: 48225 N	0.7
89300E: 48250 N	1.1
89300E: 48275 N	0.9
89300E: 48300 N	1.0
89300E: 48325 N	0.8
89300E: 48350 N	0.7
89300E: 48375 N	1.0

Certified by _____

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FAX (807) 623-5931
SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1319-SG16

Company: AINSWORTH JENKINS
Project:
Attn: M.TWYMAN

Date: SEP-14-90
Copy 1. AINSWORTH JENKINS, VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 22 SOIL samples submitted AUG-31-90 by M.TWYMAN.

Sample Number	AG PPM
S 454755	0.8
S 454757	0.5
S 454759	0.7
S 454761	0.8
S 454763	1.1
S 454765	0.4
S 454773	0.5
S 454774	1.0
S 454776	1.1
S 454779	1.0
S 454781	1.1
S 554701	1.0
S 554704	0.7
S 554707	1.4
S 554709	1.0
S 554711	0.6
S 554711 DUPLICATE	1.0
L 454768	0.8
L 454769	0.7
L 454770	0.3
L 454771	0.6
L 454772	0.5

Certified by _____

MIN-EN LABORATORIES

50m West Refline

REFERENCE LINE (see Dwg 02-Plan)

50m East Refline

100m East Refline

1260EL

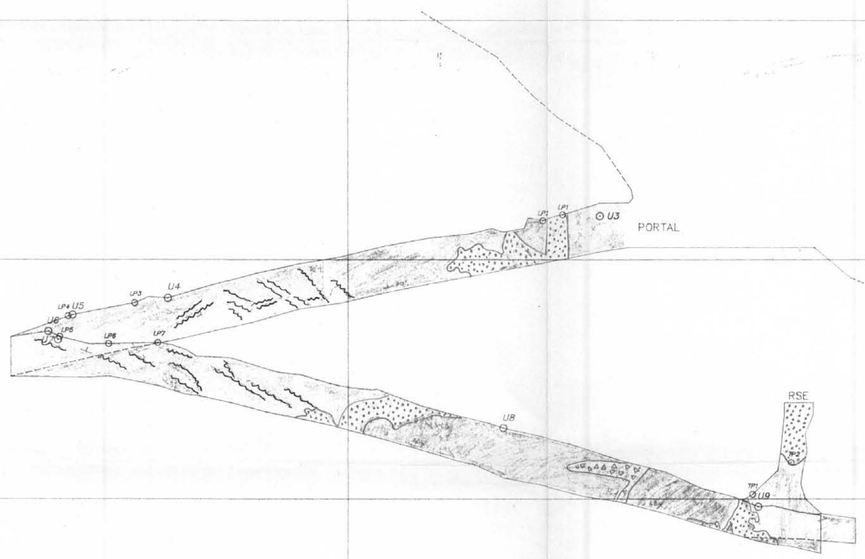
1240EL

1220EL

1200EL

1180EL

1160EL



ANDESITE DYKES

GRANODIORITE

BRECCIATED GRANODIORITE

FAULTS

JOINT / SLIP SURFACES

HIGHWAY 6

GEOLOGICAL BRANCH ASSESSMENT REPORT

21,656

FIGURE 3

TO ACCOMPANY TOP DECLINE REPORT

29/8/1991 M.P. TWYMAN

DATE	REVISION	INITIAL
18Aug90	DDHs Revised Slightly & Assay Bars Added	JDW
19Aug90	Dimensions of U/G Safety Bays Changed	JDW
21Aug90	Average Assays Added	JDW
200ct90	Coordinates Moved, Existing Detail Removed	JDW
200ct90	Completed Decline Plotted, DDHs revised	JDW

INTEGREX ENGINEERING

NOTES:

Longitudinal View Origin @ 1382.0711N 1032.0711E
Oriented 045°Az

VIEW LOOKING 045°Az

COMPOSITION					
	5		10		
1	6		11		
2	7		12		
3	8		13		
4	9		14		

5.0 METRES 0 2.5 5.0 7.5 10.0

Scale 1:250

TOP PROPERTY

LONGITUDINAL VIEW UNDERGROUND EXPLORATION

DATE DRAWN:	AUGUST, 1990	SCALE: 1 : 250	DWG No:
DRAWN By:	J.D.WILLIAMS, P.Eng.	JOB No: [illegible]	02-LONG
SURVEY By:	C.Mark, J.D.Williams	N.T.S: 82L/2E	

MUCK ASSAYS

LOCATION		Au	Sample
DECLINE – last round		0.105	3515
TDB – @bottom decline		0.173	3591
X-CUT	slash	0.030	3512
	round 1	0.062	3511
	round 2	0.047	3514
RAISE	round 1	0.042	3516
	round 2	0.272	3510
	round 3	0.197	3513
	round 4	0.366	3592

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,656

FIGURE 4
TO ACCOMPANY TOP DECLINE REPORT

29/8/1991 M.P.TWYMAN

DATE	REVISION	INITIAL
21Oct90	New Drawing	JDW

INTEGREX ENGINEERING

NOTES:
Assay Format
Au[oz/T]/Length[m] Sample No.
0.090/2.0 3555
Assay Color
>= 0.10 oz/T
>= 0.25 oz/T

line plug
Survey Station
Decline
vertical length
horiz. length

COMPOSITION			
1 BORDER/TITLE	5 ASSAY–HI	10	
2	6 ASSAY–MED	11	
3 Access Road	7	12	
4 HIGHWAY	8	13	
	9 UNDERGROUND	14	

5.0 METRES 0 2.5 5.0 7.5 10.0
Scale 1:250

TOP PROPERTY

SAMPLE & ASSAY PLAN UNDERGROUND EXPLORATION

DATE DRAWN:	OCTOBER 1990	SCALE:	1: 250	DWG No:
DRAWN By:	J.D.WILLIAMS, P.Eng.	JOB No: TOP PROJECT		06–PLAN
SURVEY By:	CAL MARK	N.T.S:	82L/2E	