ASSESSMENT REPORT

ON THE 1991 EXPLORATION PROGRAM

INEL PROPERTY

ISKUT RIVER AREA
LIARD MINING DIVISION
NORTHWESTERN BRITISH COLUMBIA

LATITUDE: 56 DEGREES 37' N

LONGITUDE: 130 DEGREES 57' W

PREPARED FOR

GULF INTERNATIONAL MINERALS LTD.

OCTOBER 5, 1991

BY: VICTOR A. JARAMILLO, M.Sc.A.

ROBERT G. GIFFORD, P.Eng.

TABLE OF CONTENTS

		Page
1.0	INTRODUCTION	1
2.0	LOCATION, ACCESS AND TOPOGRAPHY	2
3.0	PROPERTY DESCRIPTION AND OWNERSHIP	5
4.0	EXPLORATION HISTORY	6
5.0	OBJECT OF PRESENT WORK	7
6.0	GEOLOGY	7
	6.1 Regional Geology	7
	6.2 Property Geology and Mineralization	8
7.0	1991 EXPLORATION PROGRAM	8
	7.1 Trenching	9
	7.2 Construction of New Roads	9
	7.3 Road Rehabilitation	10
	7.4 Diamond Drilling	10
	7.5 Geological Work	10
	a) Discovery Zone Adit Geology	11
	b) AK Zone Adit Geology	15
	c) Western Slopes Area Geology	17
	d) Inel Basin Zone Geology	20
	e) High Stake Zone Geology	20
	f) Inel Creek Zone Geology	21

TABLE OF CONTENTS (Cont'd)

		Page
8.0	CONCLUSIONS	21
9.0	ITEMIZED COSTS STATEMENT FOR THE 1991 FIELD PROGRAM	24
10.0	STATEMENT OF QUALIFICATIONS	29
11.0	ENGINEER'S CERTIFICATE	30
12.0	REFERENCES	31
13.0	APPENDIX	32
	13.1 Drill Log for Hole 192	
	13.2 Sample Record, 1991	
	13.3 Geochemical and Assay Certificates	
	13.4 List of Rock Samples Collected During 1991	

LIST OF FIGURES

1.	INEL PROPERTY: Regional Location Map	2
2.	INEL PROPERTY: Local Location Map	3
3.	INEL PROPERTY: Claim Map	4
4.	SOUTH DISCOVERY ADIT: Assay Plan	12
5.	NORTH DISCOVERY ADIT: Assay Plan	13
6.	1991 ROAD CONSTRUCTION MAP	In Pocket
7.	INEL PROPERTY: Geology Plan	In Pocket
8.	DISCOVERY ADIT: 1510 m. Level Plan Geology	In Pocket
9.	AK ZONE: Underground and Surface Geology	In Pocket
10.	AK ZONE: Assay and Geology Plan	In Pocket

1.0 INTRODUCTION

The Inel property is located in northwestern British Columbia about 25 kilometers east of the international border with Alaska and about 10 kilometers south of the Iskut River (Figure 1.). The property consists of 15 contiguous claims (217 units) that are 100% owned by Gulf International Minerals Ltd.

This report will cover the physical and geological work carried out during the summer of 1991 (July 15 - September 2) at the Inel property. The work done during this time included underground mapping and sampling, surface mapping, sampling, trenching and some prospecting. Also, one diamond drill hole left from the previous year was drilled further. In order to gain access to some of the work areas, new roads were built and some existing ones were rehabilitated. To gain access to mine workings and to support the working environment required rehabilitation of mine portals, maintenance of power generators, compressor and reinstallation of ventilation systems and improvement of mine walls by rock scaling.

2.0 LOCATION, ACCESS AND TOPOGRAPHY

The Inel property is located at latitude 56 degrees 37' north and longitude 130 degrees 57' west, approximately 7 km south of the confluence of Snippaker Creek and the Iskut River as shown on Figure 2. The property lies within the Liard Mining Division and consists of 15 contiguous mineral claims which comprise 217 units (Figure 3).

Km 0 100 200 300 400 Km

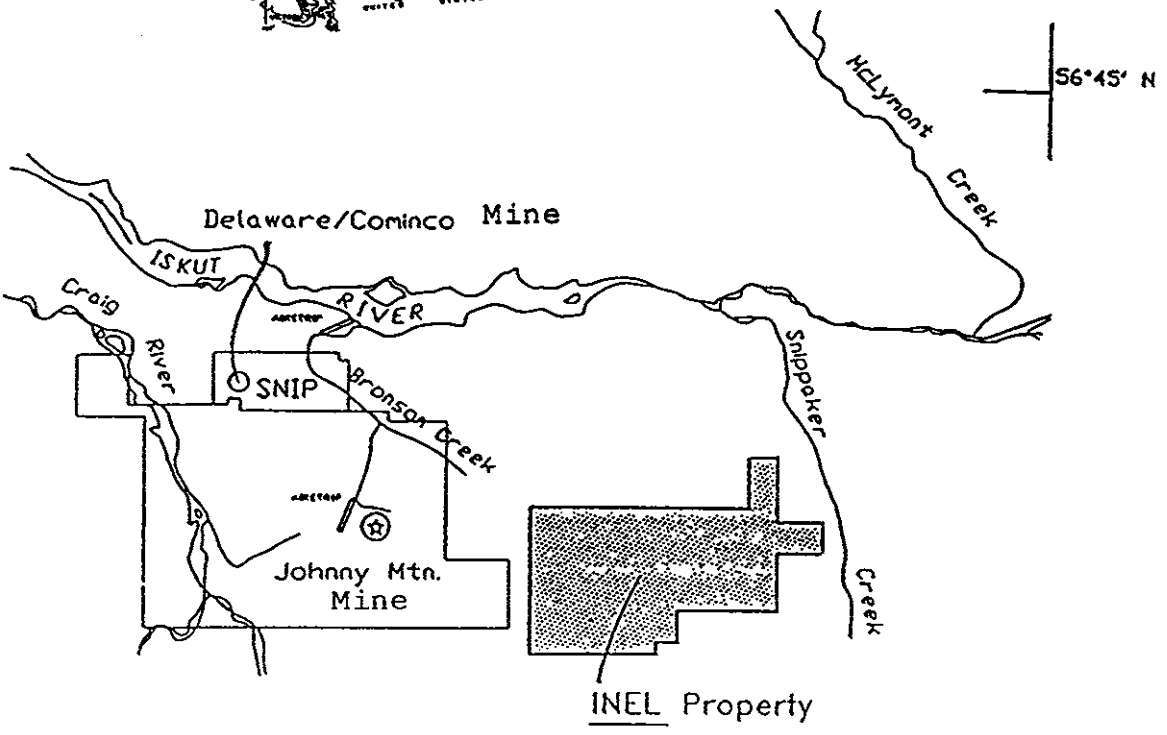
Miles 0 50 100 200 300 Miles

GULF INTERNATIONAL MINERALS LTD.

INEL PROPERTY

Regional Location Map

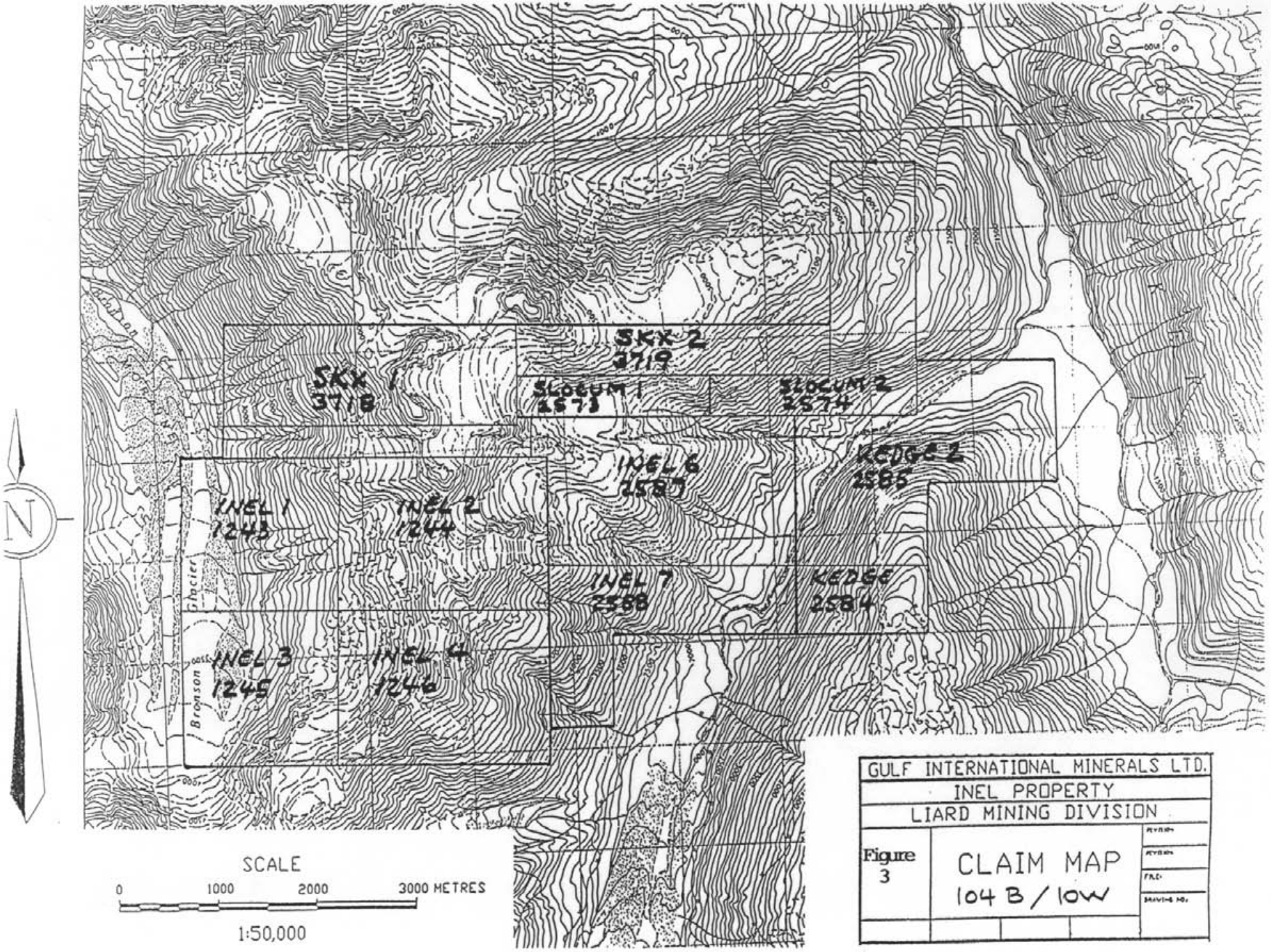
SCALE: AS SHOWN	MINING DIV.: LIARD
DATE:	N.T.S.: 104 B/10W
REVISED:	FIGURE: 1



GULF INTERNATIONAL MINERALS LTD.

INEL PROPERTY
Local Location Map

SCALE: AS SHOWN	MINING DIV.: LIARD
DATE:	N.T.S.: 104 B/10 W
REVISED:	FIGURE: 2



GULF INTERNATIONAL MINERALS LTD.			
INEL PROPERTY			
LIARD MINING DIVISION			
Figure 3	CLAIM MAP 104 B/10W		

Access to the property is by helicopter from the Bronson Creek airstrip, located about 10 km northwest of the property. Daily flights to the strip from Smithers, Terrace and Wrangell, Alaska, have been available using a variety of fixed-wing aircraft. Vertical relief on the property exceeds 1300 meters from 800 m. near Bronson Creek to greater than 2,100 m. on Snippaker Ridge. Vegetation is sparse, but ground cover due to talus, snow and small glaciers is considerable.

3.0 PROPERTY DESCRIPTION AND OWNERSHIP

The Inel property consists of 15 contiguous claims that contain 217 units and have an area of 54 square kilometers. Gulf International Minerals Ltd. is the registered owner.

Summary of Claim Data

Claim	Units	Record	Expiry Date
I NEL 1 *	9	1243	Apr. 1, 1994
I NEL 2	12	1244	Apr. 1, 2001
I NEL 3 *	9	1245	Apr. 1, 1994
I NEL 4	12	1246	Apr. 1, 2001
INEL 2	16	2586	Oct. 18, 1994
INEL 3	20	2587	Oct. 18, 1996
INEL 4	20	2588	Oct. 18, 1997
INEL 8 **	9	2944	Oct. 6, 1992
INEL 9 **	12	2945	Oct. 6, 1992
SLOCUM 1	20	2573	Sep. 13, 1994
SLOCUM 2	20	2574	Sep. 13, 2001
KEDGE	20	2584	Oct. 18, 1999
KEDGE 2	20	2585	Oct. 18, 1997
SKX 1	12	3718	Dec. 5, 1994
SKX 2	6	3719	Dec. 5, 1994

* A legal survey plan of Claims I NEL 1 and 3 was completed in November 1987. The claims are designated Lots 7037 and 7036, respectively, Cassiar Land District.

**Claims INEL 8 and 9 overstake claims INEL 3 and 4.

4.0 EXPLORATION HISTORY

The Inel property was staked by R. Gifford in 1969 and optioned to Skyline Exploration Ltd., who later acquired it in 1975. In 1972, the property was optioned to Texas Gulf Sulphur Company, who carried out until 1974, geochemical and geophysical surveys, geological mapping, trenching and sampling. In 1975, Texas Gulf discontinued exploration on the Inel property mainly due to changes in the provincial government.

In 1980 Skyline renewed exploration on the property, Inel Resources was incorporated in 1987 and Gulf International Minerals Ltd. amalgamated with Inel Resources in 1989. Work done since 1980 is summarized in the following table.

Exploration on the Inel Property Since 1980

1980 - Trenching, sampling, mapping (Skyline).
1981 - Trenching, sampling, mapping (Skyline).
1982 - Prospecting (Skyline).
1983 - Airborne geophysics; Discovery Zone: sampling (Skyline).
1984 - Discovery Zone: 22 holes 1,630 m (Skyline).
1985 - Mapping, trenching, geochemistry (Skyline).
1986 - No program.
1987 - Incorporation of Inel Resources Ltd. Discovery Zone: mine development 183 m (Inel Resources).
1988 - Discovery Zone: mine development 570 m, 54 holes 4,258 m. AK Zone discovered (Inel Resources).
1989 - Discovery Zone: mine development 120 m, 46 holes 5,454 m. AK Zone: 31 holes 3,060 m. (Gulf Int'l).
1990 - AK Zone: drifting 367 m, 23 holes 2,360 m (Gulf Int'l and Avondale Resources).

5.0 OBJECT OF PRESENT WORK

The 1991 field program had the following objectives:

a) To gain a better understanding of the AK and Discovery Zones by doing surface and underground mapping and sampling. This in order to define new drill target areas with high possibilities of exploration success.

b) To find new mineralized areas by surface prospecting and mapping.

c) To gain a better understanding of the property geology by doing detailed mapping.

6.0 GEOLOGY

6.1 Regional Geology

The Inel Property is situated within the Stikine Arch, a Paleozoic to Mesozoic-aged arc of volcanic and sedimentary rocks. The oldest exposed rocks in the area are limestones and volcanic rocks of Permian age. These are overlain by Stuhini Group clastic sediments and volcanic rocks of Upper Triassic age.

Following this sequence is the Hazelton Group of Lower to Middle Jurassic age. It comprises mafic flows, felsic tuffs, shales, siltstones and breccias. These rocks are intruded by plutons of granodioritic to syenitic composition.

6.2 Property Geology and Mineralization

The Inel Property is underlain by rocks that are assigned to the Unuk River Formation of the Hazelton Group, with remnants of Betty Creek Fm. capping the ridges. The lowest exposed rocks on the property are felsic pyroclastic rocks that are overlain by clastic sediments and interbedded tuffaceous rocks. The sediments are overlain by flows and tuffs of basaltic composition.

All these rocks are intruded by alaskitic to dioritic sills and dikes, including a megacrystic syenite.

Mineralization in the Inel includes massive sulphides with gold and base metal that are stratabound and possibly volcanogenic, also sulfides with gold values in an intrusive breccia that is controlled by a major fracture system and stockwork zones with gold enriched pyrite-chalcopyrite stringers and veinlets.

7.0 1991 EXPLORATION PROGRAM

Physical and geological work done at Inel during the 1991 field season included:

7.1 Trenching

Done near the AK Portal area in order to expose and sample the AK Breccia. A total of 6 trenches were made and have been localized in the 1:5000 scale map attached (Figure 6). The trenches are:

Trench	Length	Width	Depth
#1	6.0 m	1.0 m	0.5 m
#2	5.4 m	1.2 m	0.4 m
#3	10.0 m	1.0 m	0.4 m
#4	4.0 m	1.0 m	0.5 m
#5	5.0 m	1.5 m	0.8 m
#6	5.0 m	1.0 m	0.5 m
Total = 6	35.4 m	6.7 m	3.1 m

7.2 Construction of New Roads: (See Figure 6)

D.D.H. 169 Area	=	90 m	
Western Slopes Area	=	630 m	
D.D.H. 137 Area	=	830 m	
Lower Discovery Road	=	120 m	
		1,670 m	Length New Roads

Average width = 4 m.

Construction of new roads was done using a DH-5 Caterpillar and doing some blasting.

7.3 Road Rehabilitation: (See Figure 6)

Access to:

D.D.H. 169 Area	=	1,720 m
D.D.H. 137 Area	=	650 m
AK & Discovery Areas	=	1,725 m
		4,095 m
		=====

Road rehabilitation was also done using a DH-5 Caterpillar and doing some blasting.

7.4 Diamond Drilling: (See Figure 6 for Location)

During the 1991 field season DDH-192 in the south end of the AK adit was extended from 352 feet (drilled in 1990) to a depth of 481 feet. This totalled 129 feet drilled during 1991. All drill core is stored at the Inel Property in suitable racks at the base camp.

Refer to the Appendix for the complete log of DDH-192.

7.5 Geological Work

This work consisted in underground geological mapping and sampling, surface mapping and prospecting, and also core reviewing. Underground mapping was done in the Discovery adit at a scale 1:500. Here 873 meters were mapped and samples were taken of mineralized structures. In the Discovery South Area, panel

samples were taken one meter wide from the floor to the back of some walls in the drift and veins were channel sampled (see Figure 4). In the Discovery North Area veins were channel sampled (see Figure 5). At the AK adit, mapping was done at a scale of 1:250. Here 367 meters were mapped underground.

Also, systematic sampling was done along the walls of the AK drift. Sampling consisted in horizontal channels taken every one meter at a height of about 1.40 meters (see Figure 10).

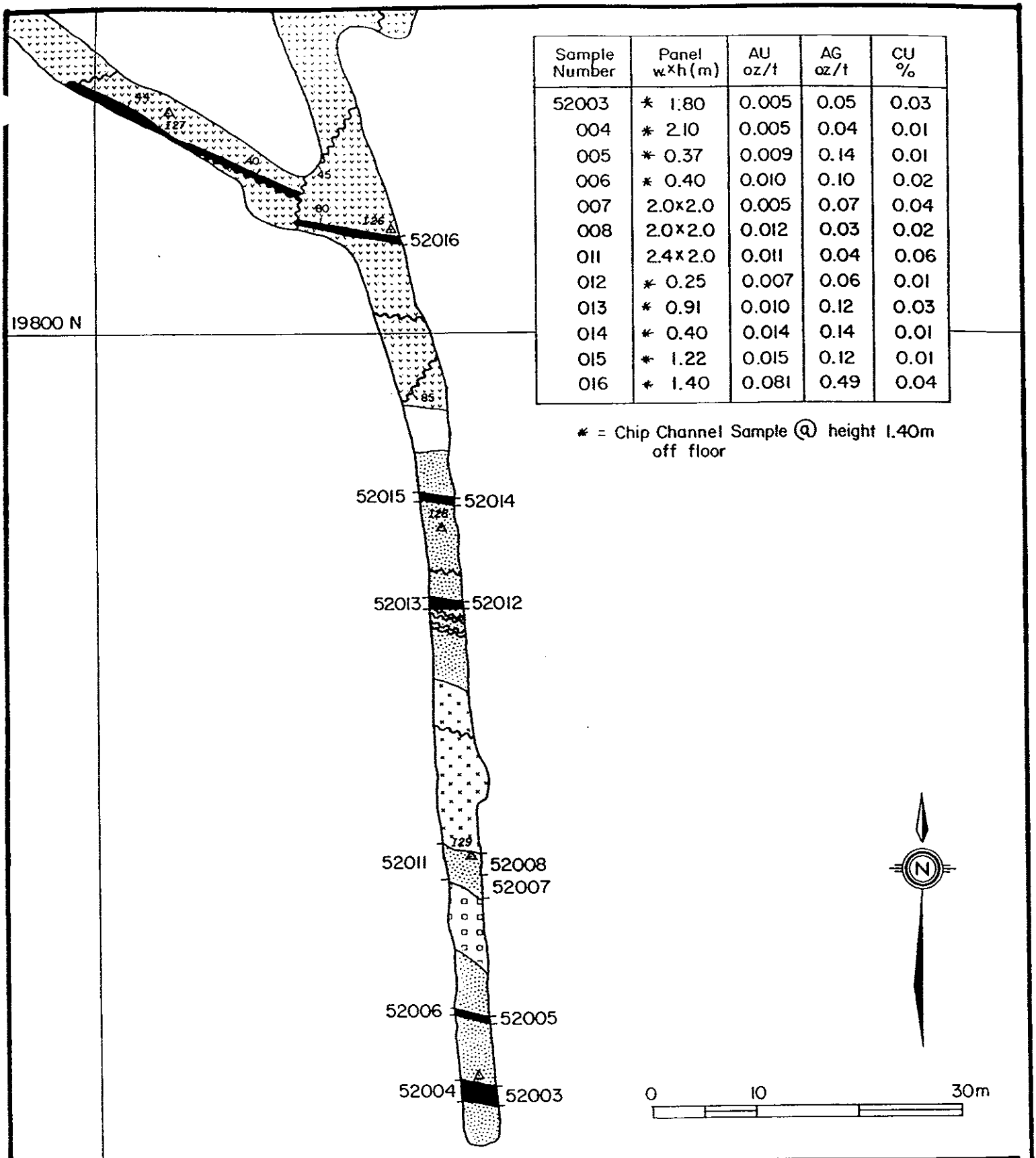
Surface mapping and prospecting was done in the AK, Inel Creek, High Stake, Inel Basin and Western Slope Areas. In these areas, mapping was done at a 1:2500 scale (see Figure 7).

Core reviewed during 1991 includes the following drill holes:

24, 130, 154, 164, 170, 172, 173, 175, 178, 181, 182, 183, 186, 187, 188, 189, 190, 191 and 192.

a) Discovery Zone Adit Geology (Figure 8)

Underground mapping (1:500) in this zone shows altered banded sediments in contact with massive chloritized basalts. The sediments trend an average of 175 degrees and dip between 15 - 46 degrees east.



Sample Number	Panel w.xh(m)	AU oz/t	AG oz/t	CU %
52003	* 1.80	0.005	0.05	0.03
004	* 2.10	0.005	0.04	0.01
005	* 0.37	0.009	0.14	0.01
006	* 0.40	0.010	0.10	0.02
007	2.0x2.0	0.005	0.07	0.04
008	2.0x2.0	0.012	0.03	0.02
011	2.4x2.0	0.011	0.04	0.06
012	* 0.25	0.007	0.06	0.01
013	* 0.91	0.010	0.12	0.03
014	* 0.40	0.014	0.14	0.01
015	* 1.22	0.015	0.12	0.01
016	* 1.40	0.081	0.49	0.04

* = Chip Channel Sample @ height 1.40m off floor

GULF INTERNATIONAL MINERALS LTD.

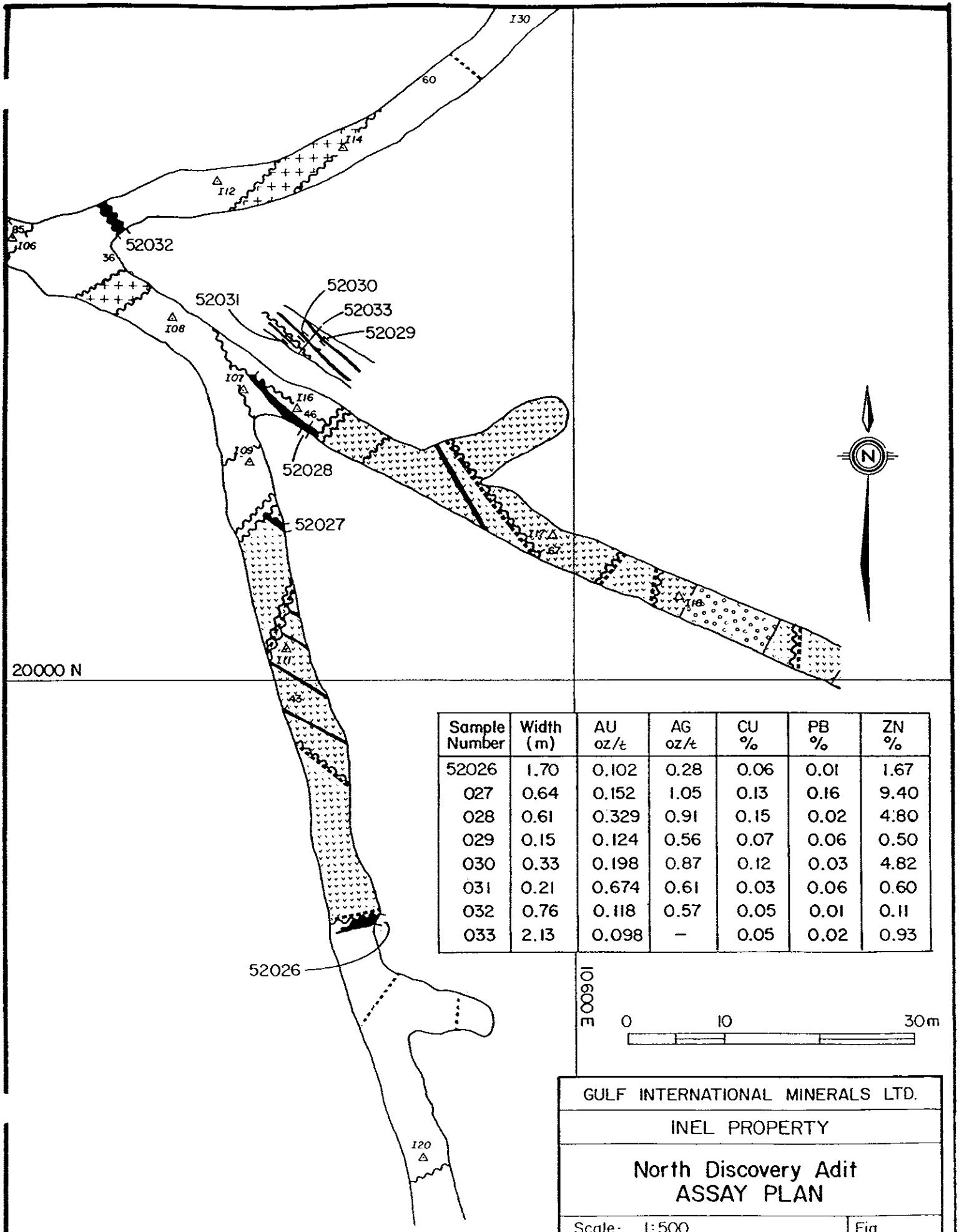
INEL PROPERTY

South Discovery Adit
ASSAY PLAN

Scale: 1:500

Date: Oct., 1991

Fig. 4



Sample Number	Width (m)	AU oz/t	AG oz/t	CU %	PB %	ZN %
52026	1.70	0.102	0.28	0.06	0.01	1.67
027	0.64	0.152	1.05	0.13	0.16	9.40
028	0.61	0.329	0.91	0.15	0.02	4.80
029	0.15	0.124	0.56	0.07	0.06	0.50
030	0.33	0.198	0.87	0.12	0.03	4.82
031	0.21	0.674	0.61	0.03	0.06	0.60
032	0.76	0.118	0.57	0.05	0.01	0.11
033	2.13	0.098	–	0.05	0.02	0.93

GULF INTERNATIONAL MINERALS LTD.

INEL PROPERTY

North Discovery Adit ASSAY PLAN

Scale: 1:500

Date: Oct., 1991

Fig. 5

Mineralization is found in both rock types as veins, stockwork and stratabound lenses. The veins range in thickness from 2.0 meters to a few centimeters with strike lengths in the order of 50 meters. In terms of mineralogy they contain auriferous pyrite enriched in zinc with minor galena and traces of chalcopyrite. Gangue minerals include quartz, chlorite and calcite.

Stratabound mineralization is found in the northern section of the drift and is characterized by lenses and stringer zones of sulphide. These consist of mainly pyrite and sphalerite with minor galena, chalcopyrite and significant gold. This style of mineralization is associated with volcanic material in the transition zone from an underlying sedimentary sequence to an interbedded sequence of basaltic flows and fine grained sediments.

To date, underground diamond drilling has defined preliminary stratabound reserves of 350,000 tons grading 0.1% Cu, 0.1% Pb, 2.6% Zn, 0.39 oz/ton Ag and 0.102 oz/ton Au for lens No. 1. Other parallel lenses are known and remain to be examined. Within the No. 1 lens is a higher grade area with 127,000 tons grading 0.1% Cu, 0.2% Pb, 3.5% Zn, 0.72 oz/ton Ag and 0.204 oz/ton Au.

Stockwork mineralization is localized in the southern end of the drift and is characterized by irregular stringers, veinlets, masses and veins of pyrite with minor chalcopyrite and significant gold. This style of mineralization lies within strong K-spar altered banded sediments and proximal to a megacrystic K-spar porphyry. Veins are mainly pyritic, with quartz, K-spar and sericite.

Drill hole 72 (1988 hole) drilled from the southern end of the drift to the south gave the following assay results:

Length (m)	Cu %	Ag oz/t	Au oz/t
1.61	0.25	2.07	0.372
1.22	0.74	4.05	0.415

b) AK Zone Adit Geology (Figure 9)

In this zone mineralization is associated with an Intrusive Breccia that cross-cuts the enclosing sediments and tends to follow a K-spar porphyry dike. The intrusive breccia contains pyrite, and sphalerite, with minor galena, chalcopyrite, arsenopyrite, and significant gold.

The intrusive breccia contains fragments of syenite, argillite and a few of basalt. These are generally 2 - 5 centimeters in diameter, but may be as large as 20 cm. The matrix is dark grey and contains rock flour and crushed rock.

Along the drift two such intrusive breccias have been mapped and a third one was intercepted by drilling to the east during 1990. These three structures may be the same separated by faulting. The first intrusive breccia mapped in the drift is 9 meters wide and can be traced for 150 meters by surface mapping, underground mapping and drilling. It strikes 110 degrees and dips an average of 65 degrees southwest.

The AK Zone was explored by surface and underground drilling during 1989 and 1990. Some of the better intercepts include:

DDH	Length (m)	Au oz/t
S - 116	12.5	0.384
S - 148	5.3	1.110
S - 149	7.6	0.347
U - 171	7.4	1.197
U - 182	5.5	0.265
U - 185	12.9	0.379

A second mineralized structure encountered in the drift is a light olive green to grey rock with stockwork type mineralization composed of irregular veinlets, stringers and concentrations of sphalerite, pyrrhotite and pyrite, with minor galena. It seems this structure may be associated with a felsic to intermediate dike system.

Some of the better grades include (Panel Samples):

Sample Number	Panel Width (m)	Au oz/t	Cu %	Pb %	Zn %
52240	1.0	.053	.02	.08	6.66
52342	1.0	.254	.02	.13	5.84
52399	1.0	.010	.02	.04	5.88
52227	1.0	1.576	.07	.08	5.26

c) Western Slopes Area Geology

Geological mapping and prospecting in this area was done at a scale of 1:2500. In the southern section of this zone an irregular shaped felsic breccia was identified in contact with black argillites and an Alaskite (Quartz Monzonite) intrusive. The breccia has angular to subrounded fragments 1.0 to 40.0 centimeters in diameter. The matrix is fine grained to mainly aphanitic.

The breccia has 1 - 15% disseminated pyrite with traces of chalcopyrite and sphalerite. Some breccia fragments contain fine grained disseminated pyrite up to 30%.

Irregular zones of chlorite and ferro-dolomite alteration overprint the breccia and some sections of the alaskite intrusive. Few narrow (0.5 - 20.0 cm) pyrite veinlets cut the breccia and a 15 cm. wide massive lens of chalcopyrite was found in an altered intrusive (alaskite) proximal to the breccia.

A chip sample taken across 1.0 meter in the breccia assayed:

Sample No.	Au oz/t	Cu %	Pb %	Zn %
52448	.039	.48	.10	.09

The middle section in the Western Slopes Area has black to gray metasediments in contact with a strongly silicified to quartzose structure with stockwork type stringers and disseminations of pyrite (10-25%). Also some alaskite outcrops with 1% disseminated pyrite have been mapped in this area. It is probable this quartzose structure may be a contact envelope between the Alaskite and the sediments. A chip sample taken across 1.0 meter in this quartzose structure assayed:

Sample No.	Au oz/t	Cu %	Pb %	Zn %
52476	0.017	.26	.005	.02

In the northern section of the Western Slopes Area (Super Bowl Creek) a mafic intrusive (Dioritic) with 4% disseminated magnetite has been identified. About 30 to 40 meters above this intrusive a silicified structure with massive stringers, veinlets and disseminations of chalcopyrite (2-40%) was mapped. This copper outcrop is about 20 meters long and about 8 meters wide. A chip sample taken across 1.0 meter in this mineralized structure assayed:

Sample No.	Au oz/t	Ag oz/t	Cu %	Pb %	Zn %
52478	.024	1.09	4.02	.01	.05

Drill hole 167 drilled in 1989 missed this chalcopyrite structure since it was drilled about 20 meters northeast of it. Though, it intercepted a diorite zone with quartz flooding, pyrite, magnetite and with anomalous copper. This interval assayed:

Interval (m)	Au oz/t	Ag oz/t	Cu %	Zn %
9.45	0.006	0.048	0.142	0.01

d) Inel Basin Zone Geology

This area shows a chloritic stockwork outcrop with stringers and veinlets of quartz, pyrite and less chalcopyrite. Also, strongly silicified pyritic stockwork outcrops have been mapped. These silicified structures are very similar to the rocks mapped in the middle section of the Western Slopes. A grab sample taken from this silicified zone assayed:

Sample No.	Au oz/t	Cu %
52463	0.004	0.28

Chips taken across 2.0 meters in the chloritic stockwork structure assayed:

Sample No.	Au oz/t	Cu %	Pb %	Zn %
52461	0.036	1.26	0.03	0.20

e) High Stake Zone Geology

Geological mapping (1:2500) and prospecting found massive pyrite talus fragments which led to the mineralized source. Here two pyrite outcrops were mapped suggesting a vein trending west. These mineralized outcrops have concentrations of auriferous pyrite (20-80%) with an average width of 2.8 meters. Host rocks are banded sediments which trend 190 degrees and dip 32 degrees east. Chip channel samples assayed:

Sample No.	Width	Au oz/t	Cu %
52050	2.4	.076	.02
52051	3.3	.221	.01

f) Inel Creek Zone Geology

Mapping in this area (1:2500) revealed the alaskite intrusive in contact with chloritized basalts. Some of the outcrops were a hard brittle fine grained rock which may represent a chilled margin. The basalts had stockwork type stringers and veinlets of pyrite (15-20%).

8.0 CONCLUSIONS

At the Discovery Zone stratabound mineralization is characterized by lenses and stringer zones of auriferous pyrite and sphalerite. Preliminary reserves for the higher grade part of lens No. 1 are 127,000 tons grading 0.1% Cu, 3.5% Zn and 0.204 oz/ton Au. Other parallel lenses are known and remain to be examined.

Also of interest is the stockwork mineralization found in the southern end of the Discovery drift. This zone shows some similarities to the mineralization at the Johnny Mountain Mine. Such as strong potassic alteration, quartz-pyrite veins and some brecciation. It would be advantageous to extend this south drift.

The AK Zone contains an intrusive breccia dike which is associated with gold of economic grade. The breccia cross-cuts sediments and tends to follow a K-spar porphyry dike. It contains pyrite and sphalerite, with minor galena, chalcopyrite, arsenopyrite, and significant gold. The intrusive breccia continues beyond the current limits of exploration and it is reasonable to assume that other similar mineralized zones may exist.

In the AK drift a light olive green to grey rock with stockwork type mineralization has been identified. It is composed of veinlets, stringers and concentrations of sphalerite, pyhrrotite and pyrite, with minor galena. This mineralized structure requires further investigation, though at this stage it seems to be associated with a felsic to intermediate dike system.

In the southern section of the Western Slopes Area a felsic breccia of irregular shape was mapped in contact with black argillites and an Alaskite intrusive. The breccia has 1-15% disseminated pyrite with traces of chalcopyrite and sphalerite. The middle section in the Western Slopes Area has metasediments in contact with a quartzose structure with stockwork type stringers and disseminations of pyrite (10-25%). This quartzose structure may be a contact envelope between the Alaskite and the sediments.

The northern section of the Western Slopes area has a diorite intrusive near a silicified structure with stringers, veinlets and disseminations of chalcopyrite (2-40%). It is probable this copper mineralized structure may represent a small manifestation of a larger deep seated porphyry system.

The Inel Basin shows a chloritic pyrite-chalcopyrite stockwork zone in contact with a strongly silicified pyrite stockwork. This may represent a contact envelope grading from an intrusive (Alaskite) to a chilled margin (silicified pyrite stockwork) to pyrite-chalcopyrite mineralized basalts.

In the High Stake Zone two large pyrite outcrops were mapped which suggest a vein trending west. These mineralized outcrops have concentrations of auriferous pyrite (20-80%) with an average width of 2.8 meters. Host rocks are banded sediments.

At the Inel Creek Zone there is Alaskite in contact with chloritized basalts. The basalts carry stockwork type stringers and veinlets of pyrite (15-20%).

9.0 ITEMIZED COSTS STATEMENT FOR THE 1991 FIELD PROGRAM

I. Itemized Cost Statement for Physical Work Undertaken on the Inel Property in 1991

1. Trenching: 6 trenches were excavated in rock for an aggregate length of 35.4 m, averaging 1.1 m in width and 0.5 m in depth. This work was undertaken in the period August 17-26, 1991.

Equipment Rental		
Air compressor, pneumatic drill & drill steel, drill bits, air hose 10 days @ $300/dy	$3,000	
Materials		
Cilgel 70% explosive, 6 cases	1,172	
Amex explosive, 2 bags	129	
3 m Fuse assemblies, 12	25	
Labor		
Paul Oliver 10 days @ $200/d	2,000	
George Mercredi 5 days @ $300/d	1,500	
Todd Hancock 5 days @ $150/d	750	
Food and Accommodation		
20 man-days @ $100/d	2,000	
TOTAL COST		$10,576

2. New and Improved Road Construction

(a) New road construction. Aggregate lenth was 1,760 m and average width was 4 m. All work was with D5H caterpillar tractor. Period of work was July 15-Sept 2, 1991.

Equipment Rental, Tractor	
D5H tractor, fuel, oil and materials	
32 days @ $600/d	19,200
Machine Operator	
Don Halicki 32 days @ $200/d	6,400
Mechanic	
George Mercredi 13 days @ $350/d	4,550
Equipment Rental, Drilling Machine	
Long Tom blast-hole drills, portable air compressor, drill steel and bits, air hose	
5 days @ $400/d	2,000
Drilling Labour	
Paul Oliver 5 days @ $200/d	1,000
George Mercredi 5 days @ $300/d	1,500
Materials	
Cilgel 70% explosive, 7 cases	1,367
Food and Accommodation	
55 man days @ $100/d	5,500
NEW ROAD CONSTRUCTION TOTAL	$41,517

(b) Improved road construction. Aggregate length was 4,095 m and average width was 4 m. All work was with D5H caterpillar. Period of work was July 15-Sept 2, 1991.

Equipment Rental, Tractor		
D5H tractor, fuel, oil and materials		
17 days @ $600/d	10,200	
Operator		
Don Halicki 17 days @ $200/d	3,400	
Mechanic		
George Mercredi 4 days @ $350/d	1,400	
Equipment Rental, Drilling Machine		
Long Tom blast hole drill, portable air compressor, drill steel and bits, air hose, 3 days @ $400/d	1,200	
Drilling Labour		
Paul Oliver 3 days @ $200/d	600	
George Mercredi 3 days @ $300/d	900	
Materials		
Cilgel 70% explosive, 7 cases	1,367	
Amex explosive, 4 bags	258	
3m fuse assemblies, 24	50	
Food and Accommodation		
27 man days @ $100/d	2,700	
IMPROVED ROAD CONSTRUCTION, TOTAL		$22,075
TOTAL PHYSICAL WORK		**$74,168**

II. Itemized Cost Statement for the 1991 Drilling Program:

Diamond drilling was undertaken underground in the AK adit to extend DDH 192, 39.3 m of BQ core were drilled. Work was in the period July 26-Aug 1, 1991.

Equipment Rental	
JKS 300 U/G electric drill and power pack, pumps, fuel, drilling rods and bits, materials, 7 days @ $100/d	$ 700
Electrical	
Norm Day 2.5 days @ $400/dy	1,000
Labour (waterline, drilling, set-up/teardown)	
Paul Oliver 7 days $200/d	1,400
George Mercredi 7 days @ $300/d	2,100
Food and Accommodation	
16.5 man days @ $100/d	1,650
TOTAL DRILLING	**$6,850**

III. Itemized Cost Statement for Geological Work Undertaken on the Inel Property in 1991:

Transportation: July 15-Sept 2	
Trucking	$ 337
Helicopter, Northern Mountain	
Hughes 500	14,095
Fixed Wing aircraft, Central Mountain	8,646

Lab Analyses: July 15-Sept 2	
79 CuPbZn Assays $7.50/s	
439 Geochem. 5 Elem. ICP $3.50/s	
461 Au Fire Assay $8.50/s	
476 Rock Sample Prep. $1.50/s	
9 Au-Ag Fire Assay $11.34/s	
16 30 Elem. ICP $4.50/s	
3 Soil Sample Prep $1.00/s	
9 Geochem. Au $6.00/s	6,992
Labour: July 15-Sept 2	
Todd Hancock July 19-Sep 2, 40 days @ $150/d	6,000
Paul Carter July 15-Sep 2, 49 days @ $200/d	9,800
Paul Oliver July 17-Sep 2, 22 days @ $200/d	4,400
Victor Jaramillo July 19-Sep 2, 45 days @ $200/d	9,000
Robert Gifford Aug 7-Sep 2, 27 days @ $200/d	5,400
George Mercredi Aug 1-Aug 22, 2 days @ $300/d	600
Norm Day July 15-July 19, 2.5 days @ $400/d	1,000
Food and Accommodation: July 15-Sep 2	
187.5 man days @ $100/d	18,750
TOTAL COST FOR GEOLOGICAL WORK	**$85,020**

TOTAL COST FOR PHYSICAL, DRILLING AND GEOLOGICAL WORK:

PHYSICAL	**$ 74,168**
DRILLING	**6,850**
GEOLOGICAL	**85,020**
GRAND TOTAL COST	**$166,038**

10.0 STATEMENT OF QUALIFICATIONS

I, VICTOR A. JARAMILLO OF VANCOUVER, BRITISH COLUMBIA, DO HEREBY CERTIFY THAT:

1. I am currently employed as Project Geologist with Gulf International Minerals Ltd. at Suite #200 - 675 West Hastings Street, Vancouver, B.C. V6B 1N2

2. I am a graduate of Washington and Lee University, Virginia, U.S.A. (B.Sc. 1981), and McGill University, Montreal, Canada (M.Sc. Applied, 1983).

3. I have practiced my profession in mineral exploration and mining geology continuously since 1981.

4. I am a Fellow of the Geological Association of Canada.

SIGNED AND DATED THIS 5TH DAY OF OCTOBER, 1991 AT VANCOUVER, BRITISH COLUMBIA.

Victor A. Jaramillo, M.Sc.A., FGAC

11.0 ENGINEER'S CERTIFICATE

I, ROBERT G. GIFFORD, DO HEREBY CERTIFIY:

1. That I am a consulting geologist with a business address at 1256 Alderside Road, Port Moody, British Columbia.

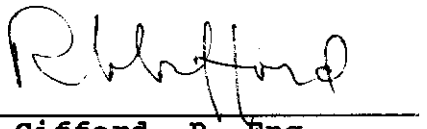
2. That I graduated with a B.A. Sc. degree in Geological Engineering from the University of British Columbia.

3. That I am a Registered Professional Engineer in the Association of Professional Engineers of the Province of British Columbia and have been since 1967.

4. That this report is based on all available information on the Inel property.

5. That I am a Director of Gulf International Minerals Ltd.

SIGNED AND DATED THIS 5TH DAY OF OCTOBER, 1991 AT VANCOUVER, BRITISH COLUMBIA.



R.G. Gifford, P. Eng.

12.0 REFERENCES

Gifford, R.G., 1990, 1990 Drilling Program Inel Property: December 31, 1990.

Gifford, R.G., 1991, Report on the Inel Property: May 29, 1991.

Grove, E.W., 1989, Exploration and Development Proposal for Inel Resources Ltd. on the Inel Property: October 31, 1989.

Illerbrund, K. 1990, Fieldwork Inel Property: Gulf International Minerals Ltd., November 23, 1990.

Mosher, G.Z., 1990, Geological Exploration Inel Property: November 20, 1990.

A P P E N D I X

13.1 DRILL LOG FOR HOLE 192

GULF INTERNATIONAL MINERALS LTD.
200-675 West Hastings Street, Vancouver, B.C., Canada V6B 1N2
(604) 683-9630

DRILL LOG

HOLE NO. U-192

Sample Nos. 60917-60923
52001-52002

LOCATION LATITUDE DEPARTURE ELEVATION	AZIMUTH 055° DIP +34.5° TOTAL LENGTH
LOGGED BY K. ILLERBRUN / V. Jaramillo	DATE STARTED
DATE Oct. 24, 1990 — July 30, 1991	DATE COMPLETED
CONTRACTOR Arctic	CORE SIZE BQ
DIP TESTS	HORIZONTAL PROJECTIONS (L·Cos DIP) VERTICAL PROJECTIONS (L·Sin DIP)

SKELETON LOG

0.0 - 29.0 Basalt
29.0 - 54.5 INTERFINGERED Sediments/Basalts
54.5 - 94.0 SEDIMENTS - Strongly altered.
94.0 - 99.6 Sulphide Fracture Breccia Zone (Altx)
99.6 - 103.0 Shear Zone - Rehealed
103.0 - 162.6 Sediments - Siltstones
162.6 - 164.2 Intrusive
164.2 - 236.1 Sediments
236.1 - 300.0 Syenite Porphyry
300.0 - 481.0 Banded Argillite/Siltstones
E.O.H.

COMMENTS
End of Hole was 352' in Oct. 1990 and was extended to 481' during July 1991.

PROJECT	OBJECTIVE	HOLE NO.
INEL	AK ZONE	U 192

SAMPLE				ASSAYS					SULPHIDE Record	ALTERATION — MINERALIZATION DESCRIPTION
NUMBER	From	To	Width	Cu	Pb	Zn	Ag	Au		
										Py is predominant (only) sulphide recognized. occurs as disseminations and as stringers
60917	12	17	5.0						3-5% Py + Qtz clusters + s/c	
60918	17	22	5.0						5% Py + Qtz clusters + s/c	
60919	22	27	5.0						2% Py clusters + s/c	
										Qtz veining @ 12.5' and 22.0
										Dirty white qtz with strong clusters of py

From	To	GEOLOGICAL DESCRIPTION
0	290	BASALT
		- Dark green to grey
		- siltstone fingers and fragments (grey) are common to the end of section
		- few plagioclase? phenos <1mm recognizable.
0-2		Broken to gravelly No oxidation.
12.0-12.5		Broken to gravelly weakly oxidized
16-19.5		Oxidized weak to intense local sandy gouge

GULF INTERNATIONAL MINERALS LTD. | PROJECT: INEL AK ZONE | PAGE 1 OF 8 | HOLE NO. U192

SAMPLE				ASSAYS					SULPHIDE Record	ALTERATION — MINERALIZATION DESCRIPTION	GEOLOGICAL DESCRIPTION	
NUMBER	From	To	Width	Cu	Pb	Zn	Ag	Au			From	To
											29.0	54.5
										Sulphide mineralization decreases - only associated with Basalts		
										Py as str in Basalts and clusters rimming silt contacts.		
60920	545	565	2.0						Tr Cu in Qtz.	545-563 Argillic altered weakly silicified siltstone. Tr Cu in Qtz str	545	926

Dark green to Buff grey
↗ Basalt ↗ Siltstone

Siltstones show as fingers and rounded fragments in Basalt.
- Siltstone fingers up to 2 feet thick with layers of basalts entwined.

SEDIMENTS - STRONGLY ALTERED
Massive to weakly Bedded to all features destroyed.

GULF INTERNATIONAL MINERALS LTD. | PROJECT: INEL AK ZONE | PAGE 2 OF 8 | HOLE NO. U192

SAMPLE				ASSAYS						ALTERATION — MINERALIZATION	GEOLOGICAL DESCRIPTION	
NUMBER	From	To	Width	Cu	Pb	Zn	Ag	Au	SULPHIDE Record	DESCRIPTION	From To	
										62 - Qtz veining with		54.3-67 Broken to Gravelly
										Associated sulphides.		Oxidation Seam weak
60921	61.0	63.0	2.0						3-5% Sph Banding in Qtz 1-2% Py	Sph > Py		on fe planes to strong
										Qtz - Dirty opaque grey.		whole core
												sandy Gouge noted
												between 63-65.5
									5%	Alteration continues		some is washed.
										Argillic with ± limonite		Also sandy gouge
										overprinting.		between 66-67.
										Oxidation ends by 65.5		
												Bedding features
										90-91 Strongly Bleached		recognized between 67-70
										to weakly Argillic		@ 30° CA.
										Altered.		
										85-94 Sulphide stringer veining		75.0 White Qtz veining @
										grading to a weak		random angles to CA
										Mosaic Breccia.		Dirty yellow tinge to Q
												with associated sph.

GULF INTERNATIONAL MINERALS LTD. | PROJECT: LOEL AK ZONE | PAGE 3 OF 8 | HOLE NO. U192

SAMPLE				ASSAYS					SULPHIDE Record	ALTERATION — MINERALIZATION DESCRIPTION	GEOLOGICAL DESCRIPTION	
NUMBER	From	To	Width	Cu	Pb	Zn	Ag	Au			From	To
										Sulphides Sph=Py : Pyrr	94.0	99.6
60922	94.0	99.6	5.6						3-5% Py 1-6% Gn 3-5% Sph Tr Cpy	with traces of Cpy & Gn.		
										Siltstones Argillic Altered.		
									99.6-103	Argillic Alt° of core - weak to intense.	99.6	103
										Banded Alt° with foliation		
										Alteration ends abruptly @ 103'		

SHEAR ZONE - REHEALED.
Weak foliation of siltstones @ 30° CA
Later Qtz (white Milky) veining.

Minor Sulphides between 99.6 to 101. disseminated Bands of Py aligned with foliation.

GULF INTERNATIONAL MINERALS LTD. | PROJECT: INEL AR ZONE. | PAGE 4 OF 8 | HOLE NO. U192

SAMPLE				ASSAYS					SULPHIDE Record	ALTERATION — MINERALIZATION DESCRIPTION	GEOLOGICAL DESCRIPTION	
NUMBER	From	To	Width	Cu	Pb	Zn	Ag	Au			From	To
											1030	1626
										10B Bleaching of sds begins continues to 162.6'		
60923	131	135.5	4.5						1% Sph 1% Py in Qtz	131.6 - 140 Qtz veins have associated sulphides, Sph ± Py		
60924	135.5	140.0	4.5						1-2% Sph 1% Py in Qtz			
										14B No Sulphides detected in Qtz vein.		

SEDIMENTS - SILTSTONES
Massive to weakly bedded @ 65°ct
- Dark grey to lighter grey as alteration intensity increases.
- Qtz stringer veining pervasive, 2-3 per foot usually ≤ 1cm thick. Occasional thicker ones to 5cm.
- Qtz is Milky White with localized Argillic Haloes
14B 20cm wide Qtz Vn Milky White ± Chlorite

GULF INTERNATIONAL MINERALS LTD. | PROJECT: INEL AK ZONE | PAGE 5 OF 8 | HOLE NO. 91192

SAMPLE				ASSAYS					ALTERATION — MINERALIZATION		GEOLOGICAL DESCRIPTION	
NUMBER	From	To	Width	Cu	Pb	Zn	Ag	Au	SULPHIDE Record	DESCRIPTION	From	To
											162.6	169.2
										Alteration bleaching with local argillic character decreases by 178'	169.2	

INTRUSIVE - Granite
Qtz ~30% eyes <2mm
Mafics 19% <1mm
Feldspars - plag ~30%

- Contact @ 162.6 sharp and definite - sed's weakly brecciated ~30° CA

- Contact @ 169.2 Broken - oxidized. sed's foliated at 30° CA.

Qtz healing / veining parallel to foliation

SEDIMENTS SILTSTONES
Massive to weakly Bedded.
Dark grey to Black

GULF INTERNATIONAL MINERALS LTD. | PROJECT: INEL AX ZONE | PAGE 6 OF 8 | HOLE NO. U192

SAMPLE				ASSAYS					ALTERATION — MINERALIZATION		GEOLOGICAL DESCRIPTION		
NUMBER	From	To	Width	Cu	Pb	Zn	Ag	Au	SULPHIDE Record	DESCRIPTION	From	To	
									Irreg. strings pyhrrotite. <3%	moderate Argillic alt.	169.2	236.1	Sediments: Thinly banded
													(1mm-1cm) Argillites/Siltstones.
													Black to grey color.
													Calcite-Qtz irreg. strings
													hairline to 1cm. at 30°
													to 80 to C.A.
													Argi./Silt. bands at
													70°-80° C.A.
													Few irreg. strings of
													pyhrrotite.
52001	235.8	236.4	0.8	.01	.26	.26	.14	.001	sph (<2%), gn (<1%.)	1-2cm Qtz-sph-gn. veinlet	236.1	300.0	Syenite porphyry: Contact at
										at 40° to C.A. (contact).			236.1 at 40° to C. Axis.
													with 1cm Qtz vnlt with
52002	245.6	247.0	1.4	.04	.03	.49	.11	.003	py (3%), cpy < 1%, sph < 1%	irreg. vnlts Qtz-py-cp-sph.			sph, gn at contact.
													Porphyry has 1-2cm
													phenos K-spar in a finer
													grained matrix.
													Weak Sericitic alt.

GULF INTERNATIONAL MINERALS LTD. | PROJECT: INEL - AK ZONE V.J. July 30/91 | PAGE 7 OF 8 | HOLE NO. U-192

SAMPLE				ASSAYS					ALTERATION — MINERALIZATION		GEOLOGICAL DESCRIPTION		
NUMBER	From	To	Width	Cu	Pb	Zn	Ag	Au	SULPHIDE Record	DESCRIPTION	From	To	
									Few irreg. strings pyhrrotite. Very rare diss. cpy in strings.	moderate Argillic Alt.	300.0	481.0	Banded Argillite/Siltstones
													Black to grey color.
													Irreg. strings calcite,
													hairline to 0.25 cm width.
													Banding at 75° - 85° to
													Core Axis.
												E.O.H.	

GULF INTERNATIONAL MINERALS LTD. | PROJECT: INEL - AK ZONE V.J. July 30/91 | PAGE 8 OF 8 | HOLE NO. U-192

13.2 SAMPLE RECORD, 1991

INEL

GULF INTERNATIONAL MINERALS LTD

Sample Record

Date July 29, 1991

Page 1 of

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %
52001	U-192	235.8-236.4	0.6'	1-2 cm Qtz, sph <2%, gn <1% Veinlet	.001	.12	.01	.26	.26
52002	U-192	245.6-247.0	1.4'	Vnlts Qtz, py 3%, cpy <1%, sph <1%	.003	.3	.04	.03	.49
52003	Discovery South x-cut	VEIN #1 (East wall)	5.9'	K-spar, Qtz, chlorite, Serpentine(?), calcite Vein with vnlts, diss. py 25%	.005	.05	.03	.01	.01
52004	"	VEIN #1 (West wall)	6.9'	K-spar, Qtz, chlor., Serpentine(?), calcite vein with vnlts, strings, dis. py 30%	.005	.04	.01	.01	.01
52005	"	VEIN #2 (East wall)	1.2'	Qtz, K-spar Vein with vnlts py 50%	.009	.12	.01	.02	.14
52006	"	VEIN #2 (West wall)	1.3'	Qtz, K-spar Vein with vnlts py 45%	.010	.10	.02	.01	.01
52007	"	MINERALIZED ZONE Between intrusives	6.6'X6.6'	STOCKWORK : strings, vnlts and diss. py 30% in a K-spar, Qtz matrix	.005	.07	.04	.01	.01
52008	"	" "	6.6'X6.6'	Stockwork : strings, vnlts, and diss. py 25% in a K-spar, Qtz matrix	.012	.03	.02	.01	.01
52009	"	Grab Sample	—	Syenite Porphyry	.001	.01	.01	.01	.01
52010	Camp Zone	Next to Kitchen	Grab	Light grey Rx, strong Sericitic alt. Diss. py 8%	.004	.05	.01	.01	.01
52011	Discovery South x-cut	MINERALIZED ZONE Between intrusives	7.9'x6.6'	Stockwork zone, strings vnlts, diss. py 25% in a K-spar, Qtz matrix	.011	.04	.06	.01	.01
52012	"	VEIN #3 (East wall)	0.8'	K-spar, Qtz Vein, strings py 20%	.007	.06	.01	.01	.03
52013	"	VEIN #3 (West wall)	3.0'	K-spar, Qtz Vein, vnlts py 30%	.012	.12	.03	.01	.05
52014	"	VEIN #4 (East wall)	1.3'	Qtz, K-spar, py 60%	.014	.14	.01	.01	.07
52015	"	VEIN #4 (West wall)	4.0'	Qtz, K-spar, py 40%	.015	.12	.01	.01	.02
52016	"	VEIN #5 (East wall)	4.6'	Qtz with massive py 60%	.081	.49	.04	.01	.02

GULF INTERNATIONAL MINERALS LTD

Date August 6, 1991

Sample Record

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52017	NW Corner Property	Outcrop at Creek South of Cairn #1	Grab	Silicified with diss. py 10%	370 ppb.		0.16	.05	
52018	"	"	Grab	2 cm Veinlet, py 25%.	34 ppb		.02	.006	
52019	Big Bowl Creek	North Side Slope	Soil	Orange color soil	350 ppb				
52020	"	"	Grab	Felsic Structure with py 15%	41 ppb		.01	.001	
52021	Road Below Camp	Below old Drill Pad	Soil	Grey clay with f.g. diss. py 10%	250 ppb				
52022	"	"	Grab	Felsic Rock with py 20%	1240 ppb		.01	.002	
52023	"	"	Soil	Grey clay with diss. py 15%	84.2 ppb				
52024	"	"	Grab	Silic. Rock py 15%	54 ppb		.04	.001	
52025	"	"	Grab	Sili. Rock py 10%	340 ppb		.05	.002	
52026	Discovery Adit	Corner X-cut East	5.6'	Vein: py 20%, sph 4%	.102	.28	.06	.01	1.67
52027	"	North of 52026	2.1'	Vein: py 30%, sph 15%	.152	1.05	.13	.16	9.40
52028	"	North junction x-cut S.	2.0'	Vein: Massive py 65%	.329	.91	.15	.02	4.80
52029	"	North of x-cut South	0.5'	Flat Vein: py 85%	.124	.56	.07	.06	0.50
52030	"	"	1.1'	Flat Vein: py 80%	.198	.87	.12	.03	4.82
52031	"	"	0.7'	Flat Vein: py 80%	.674	.61	.03	.06	0.60
52032	"	Entrance North x-cut	2.5'	Vein: Qtz, massive py 90%	.118	.57	.05	.01	.11

GULF INTERNATIONAL MINERALS LTD

Sample Record

Date August 15/1991

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52033	Discovery Adit	Area of flat lenses perpend. to them	Channel 7.0'	Parallel lenses py 20-40% py; in between strings py 1-5%	.098		.054	.02	0.93
52034	U-189	97.0 - 102.0	5.0		.004		.009	.003	0.05
52035	U-189	102.0 - 106.0	4.0		.009		.014	.002	0.06
52036	U-189	106.0 - 110.0	4.0		.006		.014	.005	0.05
52037	U-189	110.0 - 114.0	4.0		.001		.016	.01	0.14
52038	U-189	114.0 - 118.0	4.0		.005		.013	.03	0.15
52039	HIGH STAKE AREA RG 91(103-1)	South Side Inel GLACIER ELEV. 1660m	mineralized	boulder ~ 2' size good PYSP Cp.	.040		0.13	0.15	6.3
52040	RG 91(103-2)	"	"	" " PY stringers.	.147		.035	.03	.07
52041	RG 91(103-3)	"	"	" " silicic PY SP stringers	.082		0.1	.06	0.19
52042	RG 91(103-4)	"	"	" " altered PYSP "	.018		.033	.07	5.07
52043	RG 91(103-5)	"	"	" " dense white qtz, poss. alt zone, minor PYCP stringers	.002		.118	.007	0.06
52044	RG 91(102-1)	S. Side INEL GLACIER EL. 1640m ~100m S. of 52039	"	" " altered sads PY CALCITE stringers.	.004		.007	.007	0.03
52045	High Stake Area	Boulder (Chips) B-1	6' X 4.3'	Mineralized Boulder PY 90% Qtz;	.185		.14		0.12
52046	"	" " B-2	2.3' X 1.0'	" Boulder py 25% in Sili Rx	.078		.07		
52047	"	Talus Frag. (1-A)	LINE 10.5' long	" Frag. py 10-80%	.080		.03	.13	0.15
52048	"	" " (2-A)	"	Mixed Frag. Seds, Bas, Mineralized py 1-40%	.028		.01		0.11
52049	"	Chips near ~8m N of Vein	6.0' across	Silici. Rock with strings py 10%	.001		.01		0.34
52050	"	Vein (Lower) chips	8.0'	Vein with conc py 20-40%	.076		.02		
52051	"	Vein (Upper) chips	11.0'	Massive py 80%, Qtz in Sili. Rx.	.221		.01		

GULF INTERNATIONAL MINERALS LTD

Date August 15, 1991

Sample Record

Page 4 of

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52052	High Stake Area	Talus Frag. (1-B)	LINE 105' Long	Mineralized Frag. py 10-80%	.071		.01	.14	.06
52053	"	" " (1-C)	"	" " "	.129		.03	.04	.05
52054	"	" " (1-D)	"	" " "	.027		.02	.04	.09
52055	"	" " (1-E)	"	" " "	.041		.03	.03	.07
52056	"	" " (2-B)	"	Mixed Frag. Sels, Bas., Mineralized py 1-40%	.022		.01	.02	0.18
52057	Below Camp	End of Road below Camp	grab	Diss. py 10-20%, traces malaquite in Silic Rx	.023		0.5	.006	.02
52058	AK Adit	First Breccia (L-1)	1.0m.	Wall Rock - Banded Seds. Diss. py 2%	.001		.03	.02	0.28
52059	"	" L-2	"	Wall Rock - " "	.002		.03	.03	0.32
52060	"	" L-3	"	Intrusive Rx: Dark Grey Bx Frag. 0.10-0.25 m Coarse Diss py 10-20%	.005		.02	.02	0.21
52061	"	" L-4	"	" "	.003		.02	.01	0.19
52062	"	" L-5	"	" "	.003		.02	.008	.04
52063	"	" L-6	"	" "	.005		.02	.01	.12
52064	"	" L-7	"	" "	.002		.02	.03	.15
52065	"	" L-8	"	" "	.001		.02	.04	.16
52066	"	" L-9	"	" "	.006		.02	.01	.21
52067	"	" L-10	"	" "	.002		.01	.01	.17
52068	"	" L-11	"	" "	.002		.02	.01	.25
52069	"	" L-12	"	" "	.004		.02	.02	.45

GULF INTERNATIONAL MINERALS LTD

Date August 22, 1991

Sample Record

Page 5 of _____

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52070	AK Adit	First Breccia L-13	1.0m.	Intrusive Bx: DARK Grey Bx Frag. 10-25cm cpy diss! 10-20% py	.012		.02	.04	.52
52071	"	" L-14	"	" "	.008		.02	.02	.26
52072	"	" L-15	"	" "	.008		.02	.03	.52
52073	"	" L-16	"	" "	.002		.02	.04	.28
52074	"	" L-17	"	" "	.002		.02	.01	.23
52075	"	" L-18	"	" "	.003		.02	.02	.38
52076	"	" L-19	"	" "	.006		.02	.02	.22
52077	"	" L-20	"	" "	.006		.01	.02	.17
52078	"	" L-21	"	" "	.009		.01	.02	.21
52079	"	" L-22	"	" "	.008		.01	.02	.15
52080	"	" L-23	"	" "	.002		.02	.03	.23
52081	"	" L-24	"	" "	.001		.02	.02	.26
52082	"	" L-25	"	" "	.003		.02	.02	.23
52083	"	" L-26	"	" "	.003		.009	.01	.21
52084	"	" L-27	"	" "	.013		.01	.02	.35
52085	"	" L-28	"	" "	.007		.02	.06	.30
52086	"	" L-29	"	" "	.009		.02	.03	.19
52087	"	" L-30	"	" "	.012		.05	.03	.35
52088	"	" L-31	"	Wall Rock/Int. Bx. Banded seds	.049		.05	.08	1.11
52089	"	" L-32	"	Wall Rock: Bandgd Seds 1-2% py	.001		.01	.01	.15

GULF INTERNATIONAL MINERALS LTD

Date August 23, 1991

Sample Record

Page 6 of

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52090	AK Adit	First Breccia R-1	1.0m	Wall Rock: Banded Sedx. diss. py 1-2%	.016		.05	.009	.20
52091	"	" R-2	"	Wall Rock: " " "	.002		.01	.02	.43
52092	"	" R-3	"	Intrusive Breccia: Dark grey Bx Frag. 10-25% diss. py	.004		.02	.02	.25
52093	"	" R-4	"	"	.007		.02	.02	.34
52094	"	" R-5	"	" "	.028		.02	.04	.17
52095	"	" R-6	"	" "	.015		.02	.02	.12
52096	"	" R-7	"	" "	.002		.01	.02	.31
52097	"	" R-8	"	" "	.002		.01	.01	.26
52098	"	" R-9	"	" "	.003		.02	.01	.30
52099	"	" R-10	"	" "	.011		.01	.01	.19
52100	"	" R-11	"	" "	.004		.02	.02	.25
52101	"	" R-12	"	" "	.005		.01	.02	.23
52102	"	" R-13	"	" "	.006		.01	.02	.24
52103	"	" R-14	"	" "	.016		.02	.03	.30
52104	"	" R-15	"	" "	.011		.01	.02	.31
52105	"	" R-16	"	" "	.005		.02	.01	.47
52106	"	" R-17	"	" "	.009		.02	.02	.27
52107	"	" R-18	"	" "	.021		.02	.05	0.67
52108	"	" R-19	"	" "	.039		.04	.06	.45
52109	"	" R-20	"	" "	.002		.01	.02	.19

GULF INTERNATIONAL MINERALS LTD

Date August 23, 1991

Sample Record

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52110	AK Adit	First Breccia R-21	1.0m	Wall Rock: Banded Seds. 1-2% py.	.003		.009	.002	.04
52111	AK Adit	2nd Breccia R-1	1.0m	Wall Rock: Bleached Seds- py<3%	.005		.03	.005	.53
52112	"	" R-2	"	Wall Rock: " "	.003		.02	.01	.20
52113	"	" R-3	"	Intrusive Bx: Polylithic Bx frag- 1-25cm. Diss py 10-20%	.010		.01	.007	.48
52114	"	" R-4	"	"	.021		.01	.009	.64
52115	"	" R-5	"	" "	.020		.02	.008	.17
52116	"	" R-6	"	" "	.027		.01	.006	.17
52117	"	" R-7	"	" "	.019		.02	.02	.08
52118	"	" R-8	"	" "	.022		.02	.02	.22
52119	"	" R-9	"	" "	.033		.03	.03	.12
52120	"	" R-10	"	" "	.031		.01	.03	.25
52121	"	" R-11	"	" "	.011		.008	.02	.40
52122	"	" R-12	"	" "	.013		.02	.01	.19
52123	"	" R-13	"	" "	.048		.02	.05	.22
52124	"	" R-14	"	" "	.009		.02	.01	.21
52125	"	" R-15	"	" "	.013		.02	.02	.28
52126	"	" R-16	"	" "	.026		.05	.02	.16
52127	"	" R-17	"	" "	.022		.01	.01	.22
52128	"	" R-18	"	" "	.059		.01	.01	.20

GULF INTERNATIONAL MINERALS LTD

Date August 23, 1991

Sample Record

Page 8 of _____

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52129	AK Adit	2nd Breccia R-19	1.0 m	Intrusive Bx: Polylithic Bx Frag. 1-25cm diss. py 10-20%	.041		.01	.01	.37
52130	"	" R-20	"	" "	.045		.01	.02	.43
52131	"	" R-21	"	" "	.012		.01	.02	.11
52132	"	" R-22	"	" "	.012		.01	.03	.04
52133	"	" R-23	0.60 m	" "	.003		.01	.01	0.17
52134	"	" R-24	1.0 m	Wall Rock: Bleached Seds - diss. py < 2%	.005		.01	.006	0.14
52135	"	" R-25	1.0 m	Wall Rock: " "	.002		.01	.003	0.16
52136	Zinc Knob	Near Trench	Grab	Sili. Rx diss. py 10-15%	.009		0.18	.001	.01
52137	AK Adit	2nd Breccia L-1	1.0 m	Wall Rx: Bleached Seds diss. py < 3%	.002		.02	.04	0.31
52138	"	" L-2	"	Intrusive Bx: Polylithic Breccia Frag. 1-10 cm diss. py 10-20%	.005		.01	.02	0.39
52139	"	" L-3	"	" " "	.022		.02	.01	0.45
52140	AK Adit	61-50 → S.E. L-0	1.0	Dark grey banded Seds. Weakly Argillic Diss. py < 2%.	.003		.01	.003	.04
52141	"	L-1	"	" "	.001		.009	.004	.05
52142	"	L-2	"	" "	.002		.01	.004	.11
52143	"	L-3	"	" "	.001		.01	.03	.18
52144	"	L-4	"	" "	.003		.02	.009	.19
52145	"	L-5	"	" "	.001		.02	.01	.15

GULF INTERNATIONAL MINERALS LTD

Sample Record

Date August 23, 1991

Page 9 of _____

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52146	AK Adit	I-50→S.E L-6	1.0m	Dark grey banded Seds. Weakly Argillic Diss. py < 2%.	.002		.01	.003	.07
52147	"	" L-7	"	" "	.001		.01	.002	.06
52148	"	" L-8	"	" "	.001		.01	.006	.03
52149	"	" L-9	"	" "	.001		.01	.004	.03
52150	"	" L-10	"	" "	.001		.01	.003	.02
52151	"	" L-11	"	" "	.001		.02	.003	.17
52152	"	" L-12	"	" "	.001		.02	.005	.06
52153	"	" L-13	"	" "	.002		.07	.04	.24
52154	"	" L-14	"	" "	.001		.03	.02	.16
52155	"	" L-15	"	" "	.003		.04	.02	.36
52156	"	" L-16	"	" "	.005		.03	.02	.28
52157	"	" L-17	"	" "	.001		.01	.003	.13
52158	"	" L-18	"	" "	.001		.004	.001	.02
52159	"	" L-19	"	Felsic Dyke	.001		.009	.001	.02
52160	"	" L-20	"	Dark grey banded Seds. Weakly Argillic Diss. py < 2%.	.001		.009	.005	.06
52161	"	" L-21	"	" "	.002		.01	.01	.09
52162	"	" L-22	"	" "	.001		.01	.007	.01
52163	"	" L-23	"	" "	.001		.01	.004	.02
52164	"	" L-24	"	" "	.001		.008	.003	.02
52165	"	" L-25	"	" "	.001		.008	.01	.04

GULF INTERNATIONAL MINERALS LTD

Date August 25, 1991

Sample Record

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52166	AK Adit	I-50→75.E. L-26	1.0m.	Dark grey banded Seds. Weakly Argillic. Diss. py $\leq$ 2%.	.001		.008	.006	.04
52167	"	" L-27	"	" "	.001		.008	.003	.01
52168	"	" L-28	"	" "	.001		.006	.0006	.02
52169	"	" L-29	"	" "	.001		.009	.002	.05
52170	"	" L-30	"	" "	.001		.008	.002	.02
52171	"	" L-31	"	" "	.001		.009	.001	.02
52172	"	" L-32	"	" "	.001		.007	.002	.01
52173	"	" L-33	"	Dacite Conglomerate/Banded Seds py<2%	.001		.01	.004	.01
52174	"	" L-34	"	Banded Seds. Weakly Argillic. Diss. py $\leq$ 2%.	.001		.008	.006	.04
52175	"	" L-35	"	" "	.00		.008	.005	.04
52176	"	" L-36	"	" "	.001		.005	.006	.11
52177	"	" L-37	"	Dacite Conglomerate <2% py	.001		.005	.02	.09
52178	"	" L-38	"	" "	.001		.006	.04	.26
52179	"	" L-39	"	" "	.001		.01	.05	.31
52180	"	" L-40	"	" (Vein :10cm) py 20%, sph 4%, po 2%	.054		.03	.21	4.58
52181	"	" L-41	"	" (Vein 15cm, py 25%, sph 4%, po 16%)	.042		.02	.17	4.07
52182	"	" L-42	"	Banded Seds. Weakly Argillic. Diss. py $\leq$ 2%.	.001		.01	.02	.18
52183	"	" L-43	"	" "	.005		.008	.003	.05
52184	"	" L-44	"	" "	.001		.01	.005	.09
52185	"	" L-45	"	" "	.001		.01	.004	.09

GULF INTERNATIONAL MINERALS LTD

Sample Record

Date August 25, 1991

Page 11 of _____

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52186	AK Adit	I-50→S.E. L-46	1.0m.	Banded Seds. Diss. py < 2%	.001		.01	.003	.03
52187	"	" L-47	"	" "	.001		.01	.0009	.02
52188	"	" L-48	"	" "	.002		.01	.005	.03
52189	"	" L-49	"	" "	.001		.02	.002	.02
52190	"	" L-50	"	" "	.001		.01	.001	.02
52191	"	" L-51	"	" "	.001		.01	.0008	.02
52192	"	" L-52	"	" "	.008		.01	.04	.28
52193	"	" L-53	"	" "	.005		.04	.007	.04
52194	"	" L-54	"	" "	.003		.01	.002	.03
52195	"	" L-55	"	" "	.002		.03	.07	.46
52196	"	" L-56	1.50m	" "	.006		.01	.02	.24
52197	"	" L-57	1.0m	" "	.003		.01	.002	.02
52198	"	" L-58	"	" "	.003		.008	.001	.02
52199	"	" L-59	"	Dacite Conglomerate < 2% py	.004		.008	.001	.02
52200	"	" L-60	"	" " "	.005		.008	.001	.01
52201	New Road	Below Discovery Portal	CHIPS 3.0m	Felsic Rx, diss. py 15-20%	.034		.03	.002	.006
52202	AK Adit	I-50→S.E. L-61	1.0m	Dacite Conglomerate < 2% py	.004		.009	.002	.03
52203	"	" L-62	"	Mineralized Seds. (Fold) Qtz, py 20%, sph 10%, po 20%	.042	1.21	.04	.46	4.90

GULF INTERNATIONAL MINERALS LTD

Sample Record

Date August 25, 1991

Page 12 of

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52204	AK Adit	I-50→S.E. L-63	1.0m	Mineralized Seds. (FOLD) Qtz, py 20%, sph 10%, po 20%	.088	1.72	.08	.59	4.00
52205	"	" L-64	"	" " "	.036	2.40	.09	1.16	3.48
52206	"	" L-65	"	End fold: sph 1%, py 15%, po 10%	.002		.02	.10	.26
52207	"	" L-66	"	Banded Seds. Diss. py < 2%	.010		.03	.13	.56
52208	"	" L-67	"	" "	.001		.02	.05	.32
52209	"	" L-68	"	" " po 5%	.010		.01	.02	.11
52210	"	" L-69	"	" " po 4%	.002		.009	.03	.06
52211	"	" L-70	"	" " po 5%	.003		.02	.06	.34
52212	"	" L-71	"	" " po 10%	.004		.02	.08	.49
52213	"	" L-72	"	" " po 20%	.008		.03	.05	0.74
52214	"	" L-73	"	Banded Seds. diss. py < 2%	.001		.03	.07	0.48
52215	"	" L-74	"	" "	.004		.03	.08	2.20
52216	"	" L-75	"	" "	.019		.04	.18	0.78
52217	"	" L-76	"	" "	.001		.003	.003	0.11
52218	"	" L-77	"	" "	.001		.01	.01	0.10
52219	"	" L-78	"	" "	.001		.01	.009	0.05
52220	"	" L-79	"	" "	.001		.02	.08	1.27
52221	"	" L-80	"	" "	.001		.008	.03	0.13
52222	"	" L-81	"	" "	.001		.01	.05	0.11
52223	"	" L-82	"	" "	.001		.01	.03	0.04

GULF INTERNATIONAL MINERALS LTD

Date August 25, 1971

Sample Record

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52224	AK Adit	I-50→S.E. L-83	1.0m	Banded Seds. Diss. py < 2%	.001		.01	.01	0.13
52225	"	" L-84	1.30m	" "	.002		.01	.01	0.05
52226	"	" L-85	1.0m	(Alt'x) strong stwk po 30%, sph 6%, py 3%	.017		.02	.07	0.72
52227	"	" L-86	"	" " "	1.576		.07	.08	5.26
52228	"	" L-87	"	" " "	.013		.02	.06	0.68
52229	"	" L-88	"	" " "	.011		.01	.01	0.17
52230	"	" L-89	"	" " "	.005		.01	.08	0.91
52231	"	" L-90	"	" " "	.001		.01	.06	0.14
52232	"	" L-91	"	" " "	.002		.01	.09	0.19
52233	"	" L-92	"	" " "	.005		.01	.02	0.21
52234	"	" L-93	"	" " "	.003		.02	.05	0.30
52235	"	" L-94	"	" " "	.001		.006	.004	0.04
52236	"	" L-95	"	" " "	.004		.006	.006	0.08
52237	"	" L-96	"	" " "	.080		.03	.07	3.66
52238	"	" L-97	"	" " "	.002		.01	.02	0.33
52239	"	" L-98	"	" " "	.009		.03	.07	7.11
52240	"	" L-99	"	" " "	.053		.02	.08	6.66
52241	"	" L-100	"	Banded Seds. Diss. py < 2%	.001		.008	.01	0.14
52242	AK Surface	Upper Trench (Gab)	Grab	Intrusive Bx: diss. py 10%, V.G. ?	.002		.04	.005	.03

GULF INTERNATIONAL MINERALS LTD

Date August 25, 1991

Sample Record

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52243	AK Adit	I-50→S.E. L-101	1.0m	Banded Seds. Diss-py <2%	.008		.005	.003	0.20
52244	"	" L-102	"	" "	.001		.007	.02	0.10
52245	"	" L-103	"	" "	.007		.02	.10	0.41
52246	"	" L-104	"	" "	.001		.006	.02	0.18
52247	"	" L-105	"	" "	.001		.009	.004	0.06
52248	"	" L-106	"	" "	.002		.008	.004	0.06
52249	"	" L-107	1.60m.	" "	.003		.01	.004	0.06
52250	"	" L-108	1.0m	" "	.001		.007	.003	0.03
52251	"	" L-109	"	" "	.001		.01	.005	0.03
52252	"	" L-110	"	" "	.001		.006	.007	0.11
52253	"	" L-111	"	" "	.007		.006	.006	0.10
52254	"	" L-112	"	" "	.002		.006	.005	0.02
52255	"	" L-113	"	" "	.002		.007	.008	0.03
52256	"	" L-114	1.40m.	" "	.005		.01	.02	0.50
52257	"	" L-115	1.0 m.	(Altx) Stwk in Seds. Po 30%, sph 8%, py 5%	.001		.009	.009	0.67
52258	"	" L-116	"	" " "	.021		.01	.04	0.89
52259	"	" L-117	"	" " "	.035		.01	.04	0.62
52260	"	" L-118	"	" " "	.020		.01	.05	0.79
52261	"	" L-119	"	Min. Dacite Congl. (Vein 20cm, py 30%, sph 10%, Qtz)	.069		.02	.05	1.87
52262	"	" L-120	"	Contact Zone py 20%, sph 10%	.053		.01	.04	1.56

GULF INTERNATIONAL MINERALS LTD

Date

Sample Record

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52263	AK Adit	I-50→S.E L-121	1.0m	Min. Dacite Congl. Stwk. py 20-30% sph 1%.	.019		.04	.04	13.68
52264	"	" L-122	"	" "	.019			.	0.29
52265	"	" L-123	"	" "	.021				0.49
52266	"	" L-124	"	" "	.010				0.28
52267	"	" L-125	"	" "	.017				0.15
52268	AK Surface	Trench L-1	1.0m	Intrusive Breccia. Diss py 5-15%	.002		.05	.07	0.20
52269	"	" L-2	"	" "	.001		.05	.03	0.11
52270	"	" L-3	"	" "	.001		.03	.02	0.11
52271	"	" L-4	"	" "	.001		.02	.01	0.04
52272	"	" L-5	"	" "	.004		.04	.04	0.08
52273	"	" L-6	"	" "	.001		.03	.04	0.10
52274	"	" L-7	"	" "	.002		.05	.06	0.18
52275	"	" L-8	"	" "	.005		.05	.07	0.08
52276	"	" L-9	1.40m	" "	.001		.03	.01	0.04
52277	"	" L-10	1.0m	" "	.003		.02	.02	0.07
52278	"	" L-11	"	" "	.001		.02	.02	0.06
52279	"	" L-12	"	" "	.007		.03	.06	0.13
52280	"	" L-13	"	" "	.013		.03	.04	0.16
52281	"	" L-14	"	" "	.006		.03	.03	0.13

GULF INTERNATIONAL MINERALS LTD

Date _____

Sample Record

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52282	AK Surface	Trench L-15	1.0m.	Intrusive Breccia. Diss. py 5-15%	.014		0.04	0.10	0.20
52283	"	" L-16	"	" "	.010		.02	0.04	0.11
52284	"	" L-17	"	" "	.011		.04	0.14	0.15
52285	"	" L-18	"	" "	.023		.03	0.02	0.32
52286	"	" L-19	"	Hornfelsed Seds. diss. py 3%	.001		.01	.003	0.12
52287	"	" L-20	"	" "	.002		.01	.01	0.18
52288	"	" L-21	"	Intrusive Breccia. Diss. py 5-15%	.004		.03	.007	0.06
52289	"	" L-22	"	" "	.004		.02	.007	0.02
52290	"	" L-23	"	" "	.005		.03	.009	0.04
52291	"	" L-24	"	" "	.008		.01	.01	0.06
52292	"	" L-25	"	" "	.002		.02	.009	0.03
52293	"	" L-26	"	" "	.002		.01	.02	0.03
52294	"	" L-27	"	" "	.005		.03	.03	0.06
52295	"	" L-28	"	" "	.002		.02	.02	0.15
52296	Copper DOME ZONE	See Geo. Map	0.15m.		.064	4.25	27.9	.02	.21
52297	"	"			.004		0.007	.002	0.02
52298	AK Adit	I-50->S.E L-126	1.0m	Min. Dacite Congl. Stwk. py 20-30% sph 1-2%	.061		.01	.05	1.51
52299	"	" L-127	"	" "	.002				

GULF INTERNATIONAL MINERALS LTD

Date

Sample Record

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52300	AK Adit	I-50→S.E. L-128	1.0m.	Min. Dacite Congl. Stwk. py 20-30% sph 1%	.028		.01	.01	0.28
52301	"	" L-129	"	" "	.022		.01	.06	0.41
52302	"	" L-130	"	" "	.008		.01	.02	0.32
52303	"	" L-131	"	" "	.003		.01	.03	0.89
52304	"	" L-132	"	Min. Dacite Congl. Vein 3-5cm py 35% sph 5%	.017		.02	.03	3.35
52305	"	" L-133	"	" " "	.030		.01	.03	1.74
52306	"	" L-134	"	" " Vein 15cm. py 20% sph 4%	.039		.01	.05	2.70
52307	"	" L-135	"	" " Vnlts py 20% sph 4%	.089		.02	.05	2.51
52308	"	" L-136	"	Min. Dacite Congl. py 5% po 1-2%	.001		.009	.06	0.75
52309	"	" L-137	"	" "	.006		.02	.04	0.22
52310	"	" L-138	"	" "	.001		.03	.01	0.04
52311	"	" L-139	"	" "	.001		.02	.03	.05
52312	"	" L-140	"	" "	.004		.22	.02	.07
52313	"	" L-141	"	" "	.001		.02	.007	.18
52314	"	" L-142	"	" "	.001		.008	.03	.04
52315	"	" L-143	"	" "	.001		.02	.06	.04
52316	"	" L-144	"	" "	.001		.01	.01	.03
52317	"	" L-145	"	" "	.081		.03	.09	1.78
52318	"	" L-146	"	" "	.001		.008	.003	.13
52319	"	" L-147	"	" "	.002		.008	.002	.05

GULF INTERNATIONAL MINERALS LTD

Date _____

Sample Record

Page 18 of _____

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52320	AK Adit	I-50→S.E. L-148	1.0m.	Min. Dacite Congl. py 5%, po 1-2%.	.002		.02	.02	.11
52321	"	" L-149	"	(Altx) stwk in Seds. py 2%, po 5%	.009		.01	.002	.16
52322	"	" L-150	"	" "	.079		.04	.03	2.37
52323	"	" L-151	"	" "	.001		.01	.01	.06
52324	"	" L-152	"	" "	.001		.02	.003	.02
52325	"	" L-153	"	" "	.001		.01	.005	.11
52326	"	" L-154	"	" "	.001		.01	.003	.29
52327	"	" L-155	"	" "	.001		.04	.004	.49
52328	"	" L-156	"	Fault contact with Mineralized Basalts py 20%, sph 3%, Qtz	.057		.06	.02	1.99
52329	"	" L-157	"	" " "	.070		.06	.04	4.79
52330	"	" L-158	"	Massive chloritic Basalts-diss py 10%	.001		.009	.003	.39
52331	AK Adit	I-54→S.E. L-1	1.0m	" " "	.003		.02	.005	.21
52332	"	L-2	0.70m	VEIN(0.70m) py 20%, sph %	.007		.03	.01	.73
52333	"	L-3	1.0m	Massive Chloritic Basalts. Diss. py 10%	.001		.006	.02	.09
52334	AK Adit	I-50→S.E. R-92	1.0m	" " "	.002		.02	.004	.16
52335	"	" R-91	"	Basalts py 15%, sph 3%, Qtz.	.001		.01	.002	.10
52336	"	" R-90	"	(Altx) stwk in Seds. py 2%, po 5%	.001		.03	.004	.10
52337	"	" R-89	"	" "	.001		.007	.003	.02
52338	"	" R-88	"	" "	.001		.01	.003	.01
52339	"	" R-87	"	" "	.001		.01	.002	.01

GULF INTERNATIONAL MINERALS LTD

Date

Sample Record

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52340	AK Adit	I-50→S.E. R-86	1.0m.	(Alt$_x$) Stwk in Seds. py 2%, po 5%.	.001		.01	.01	.04
52341	"	" R-85	"	" "	.021		.01	.02	.69
52342	"	" R-84	"	" "	.254		.02	.13	5.84
52343	"	" R-83	"	" "	.020		.01	.03	.59
52344	"	" R-82	"	" "	.001		.01	.02	.09
52345	"	" R-81	"	" "	.002		.01	.05	.14
52346	"	" R-80	"	" "	.001		.01	.02	.05
52347	"	" R-79	"	" "	.001		.01	.01	.03
52348	"	" R-78	"	" "	.001		.01	.007	.04
52349	"	" R-77	"	" "	.001		.01	.02	.13
52350	"	" R-76	"	Min. Dacite Congl. py 5%, po 1-2%	.001		.02	.02	.09
52351	"	" R-75	"	" "	.003		.02	.003	.04
52352	"	" R-74	"	" "	.001		.03	.007	.05
52353	"	" R-73	"	" "	.013		.02	.04	.63
52354	"	" R-72	"	" "	.041		.01	.05	1.04
52355	"	" R-71	"	" "	.003		.005	.008	.03
52356	"	" R-70	"	" "	.001		.005	.003	.03
52357	"	" R-69	"	" "	.001		.005	.002	.01
52358	"	" R-68	"	" "	.001		.004	.002	.01
52359	"	" R-67	"	" "	.001		.007	.06	.92

GULF INTERNATIONAL MINERALS LTD

Date

Sample Record

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52360	AK Adit	I-50-75E. R-66	1.0 m	Min. Dacite Congl. (Vein 15cm. py 20%, sph 4%)	.185		.03	.07	1.42
52361	"	" R-65	"	" (Veinlet zone) py 20%, sph 4%.	.079		.02	.05	1.42
52362	"	" R-64	"	Min. Dacite Congl. py 20%, sph 4%.	.069		.02	.14	3.38
52363	"	" R-63	"	" "	.017		.03	.03	4.00
52364	"	" R-62	"	" "	.026		.03	.04	3.69
52365	"	" R-61	"	Min. Dacite Congl. py 10-20% sph 1%.	.004		.007	.01	0.14
52366	"	" R-60	"	" "	.006		.02	.04	3.19
52367	"	" R-59	"	" "	.001		.004	.006	.11
52368	"	" R-58	"	" "	.004		.006	.005	.08
52369	"	" R-57	"	" "	.001		.003	.002	.03
52370	"	" R-56	"	" "	.010		.005	.005	.17
52371	"	" R-55	"	" "	.034		.008	.02	.37
52372	"	" R-54	"	" "	.015		.008	.02	.64
52373	"	" R-53	"	" "	.013		.01	.02	.68
52374	"	" R-52	"	Contact Zone : py 15%, sph 1-4%	.011		.01	.02	3.11
52375	"	" R-51	"	" : " "	.022		.02	.03	.85
52376	"	" R-50	"	(Altx.) Stwk : po 30%, sph 1-3% py 3%	.014		.02	.02	.82
52377	"	" R-49	"	" "	.002		.008	.01	.41
52378	"	" R-48	"	" "	.014		.01	.02	1.34
52379	"	" R-47	"	" "	.005		.008	.02	.35

GULF INTERNATIONAL MINERALS LTD

Date

Sample Record

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52380	AK Adit	I-50→S.E. R-46	1.0m.	(Alt x) STWK - po 30%, sph 1-6%, py 3%,	.006		.02	.02	.45
52381	"	" R-45	"	" "	.007		.01	.05	.44
52382	"	" R-44	"	" "	.002		.005	.02	.18
52383	"	" R-43	"	" "	.001		.007	.02	.20
52384	"	" R-42	"	" "	.003		.009	.03	.53
52385	"	" R-41	"	" "	.009		.01	.02	.15
52386	"	" R-40	"	" "	.002		.01	.04	.48
52387	"	" R-39	"	" "	.007		.02	.04	2.91
52388	"	" R-38	"	" "	.003		.007	.008	.19
52389	"	" R-37	"	" "	.041		.02	.17	.92
52390	"	" R-36	"	" "	.008		.01	.03	.42
52391	"	" R-35	"	" "	.020		.02	.09	.68
52392	"	" R-34	"	" "	.012		.01	.02	.20
52393	"	" R-33	"	" "	.004		.01	.02	.16
52394	"	" R-32	"	" "	.004		.02	.03	3.03
52395	"	" R-31	"	" "	.342		.04	.08	.84
52396	"	" R-30	"	" "	.004		.02	.03	.14
52397	"	" R-29	"	" "	.010		.01	.005	.06
52398	"	" R-28	"	" "	.003		.02	.03	.26
52399	"	" R-27	"	" "	.010		.02	.04	5.88

GULF INTERNATIONAL MINERALS LTD

Date _____

Sample Record

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52400	AK Adit	I-50→S.E. R-26	1.0m	(Alt$_x$) STWK. po 30%, sph 1-6% py 3%	.008		.02	.02	.47
52401	COPPER DOME ZONE	Lenses South CK.	0.20m	Py (20%) Lens in Sili. R$_x$	.027		.06	.002	.009
52402	AK Adit	I-50→S.E. R-25	1.0m	(Alt$_x$) STWK. py 30% py 3%, sph 1-6%	.013		.02	.02	.14
52403	"	" R-24	"	" "	.004		.03	.05	.39
52404	"	" R-23	"	" "	.001		.02	.05	.30
52405	"	" R-22	"	" "	.116		.05	.06	2.78
52406	"	" R-21	"	" "	.001		.02	.04	.44
52407	"	" R-20	"	" "	.004		.02	.09	.24
52408	"	" R-19	"	" "	.003		.04	.10	.42
52409	"	" R-18	"	" "	.003		.03	.09	.21
52410	"	" R-17	"	Banded Seds. Diss. py 2-5%	.004		.04	.14	.13
52411	"	" R-16	"	Dacite Congl. Diss. py 5%	.001		.01	.006	.04
52412	"	" R-15	"	" " "	.002		.007	.002	.03
52413	"	" R-14	"	Banded Seds. Diss.+ string po 10% py 2%	.005		.008	.005	.04
52414	"	" R-13	"	" "	.002		.010	.003	.05
52415	"	" R-12	"	" "	.002		.010	.004	.04
52416	"	" R-11	"	" "	.001		.03	.010	.07
52417	"	" R-10	"	" "	.001		.01	.01	.11

GULF INTERNATIONAL MINERALS LTD

Date _____

Sample Record

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52418	AK Adit	I-50→SE. R-9	1.0m	Banded Seds. Diss. + strings po tr. py 2%	.001		.01	.002	.01
52419	"	" R-8	"	" "	.004		.01	.002	.04
52420	"	" R-7	"	" "	.007		.008	.004	.04
52421	"	" R-6	"	" "	.004		.01	.003	.03
52422	"	" R-5	"	" "	.001		.02	.002	.02
52423	"	" R-4	"	" "	.001		.01	.003	.03
52424	"	" R-3	"	" "	.001		.01	.003	.03
52425	"	" R-2	"	" "	.001		.01	.003	.05
52426	"	" R-1	"	Dacite Conglomerate. Diss. py 5%	.003		.008	.01	.12
52427	AK Adit	I-42→S. L-1	1.0m.	Syenite. Diss. py 5%, sph 2%	.052	.85	.06	.30	2.74
52428	"	" L-2	0.90m	Vein (0.90) py 30%, sph 5%, Qtz chlorite	.032	1.70	.05	1.38	7.66
52429	"	" L-3	0.90m.	Vein " "	.008		.07	.04	2.25
52430	"	" L-4	1.0m	Syenite partly min. py 15%, sph 2%	.029		.14	.05	2.73
52431	"	" L-5	"	chlorite hybrid Rx. py 4-8%	.044		.03	.02	.60
52432	"	" L-6	"	" "	.094		.05	.008	.08
52433	"	" L-7	"	" "	.022		.01	.007	.06
52434	"	" R-1	1.0m	Syenite. Diss. py 5%	.006		.02	.05	.36
52435	"	" R-2	0.30m	Vein. Qtz, py 15%, sph 4%, chlorite	.032		.04	.05	0.59
52436	"	" R-3	1.0 m	Syenite. Diss. py 5%	.015		.02	.03	0.47
52437	"	" R-3A	1.2m	" "	.014		.007	.01	0.85

GULF INTERNATIONAL MINERALS LTD

Date _____

Sample Record

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52438	AK Adit	I-42→S R-3B	1.2 m.	Syenite. Diss. py 5%	.007		.006	.007	0.55
52439	"	" R-4	1.0 m.	" "	.004		.01	.02	1.55
52440	"	" R-5	0.70 m	Vein 20-30% py, sph 5%, Qtz chlor.	.383		.10	.02	0.63
52441	"	" R-6	1.0 m.	Hybrid Rx. diss. py 5-10%	.136		.03	.007	.06
52442	"	" R-7	1.0 m	" "	.035		.02	.006	.11
52443	"	" R-8	1.0 m.	" "	.051		.04	.05	.11
52444	"	" R-9	1.0 m.	" "	.007		.009	.02	.07
52445	Superior ZONE	at 1,145 m. Elev.	chips across 1m	Bx Sili- + Rusty diss. py 10%	.005		.02	.03	.34
52446	"	"	" "	Bx, Rusty outcrop py 20%	.005		.02	.002	.03
52447	Below Discovery Portal	Road at 1470m Elev.	" "	StwK diss. py 15%, cpy 2% malachite.	.005		.14	.006	.02
52448	Copper DOME	Rounded py Struct.	" "	Bx struct. diss. py 15%, cpy <1%	.039		.48	.10	.09
52449	INEL CK. ZONE	D.D. 130 : 283'-287'	4.0'		.001		.005	.004	.01
52450	"	" 287'-291'	4.0'		.001		.003	.002	.01
52451	"	" 291'-295'	4.0'		.001		.003	.002	.01
52452	"	" 295'-299'	4.0'		.001		.005	.003	.04
52453	"	" 299'-303'	4.0'		.022		.01	.01	.45
52454	"	" 303'-307'	4.0'		.007		.01	.01	.45
52455	"	" 307'-310.5'	3.5'		.009		.01	.03	.36

GULF INTERNATIONAL MINERALS LTD

Date _____

Sample Record

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52456	INEL CK ZONE	D.D.H: 130: 310.5'-313'	2.5'		.004		.01	.03	.09
52457	INEL Ridge	D.D.H: 24/ 26'-30'	4.0'		.004		.03	.001	.04
52458	"	" 30'-34'	4.0'		.007		.05	.002	.03
52459	"	" 34'-38'	4.0'		.010		.03	.002	.05
52460	"	" 38'-42'	4.0'		.027		.03	.004	.02
52461	ICE CAVE ZONE	See Map 1:2500 S-1	chips 2 metres	StwK Qtz, py 30%, cpy 1%, malaquite	.036		1.26	.03	.20
52462	"	" S-2	chips 1 metre	Qtz ose vuggy partially leached py 5% cpy traces	.001		.02	.002	.005
52463	"	" S-3	Grab	StwK py 20%, cpy < 1%	.004		.28	.0005	.007
52464	"	" S-4	chips 4 metres	Chloritic Rx, StwK Qtz, py 40% malag-stains.	.008		.32	.007	.02
52465	"	" S-5	Chips 3 metres	StwK py 20%, cpy traces	.003		.14	.005	.009
52466	"	" S-6	chips 1 metre	StwK Qtz py 15% grey soft mineral	.002		.02	.001	.003
52467	"	" S-7	chips 2 metres	Aphanitic green Rx (StwK) py 10% traces cpy	.001		.005	.002	.006
52468	INEL Ridge	DD.H-24: 174'-178'	4.0'		.021		.05	.006	.04
52469	"	" 178'-182'	4.0'		.031		.29	.004	.18
52470	"	" 182'-186'	4.0'		.015		.05	.002	.02
52471	"	" 186'-190'	4.0'		.004		.01	.004	.16
52472	"	" 190'-194'	4.0'		.055		.01	.01	.06
52473	"	" 194'-199'	5.0'		.014		.03	.002	.04

GULF INTERNATIONAL MINERALS LTD

Date _____

Sample Record

Sample Number	Mine Heading or Drill Hole	Survey Location or Footage	Panel Size length x width	Description	Au	Ag	Cu	Pb	Zn
52474	Super Bowl CK Area	Lower Zone (SEE MAP) S-1	chips 1 metre	Qtz struct., strings + diss. py 20%	.016		.02	.006	.01
52475	"	" S-2	"	Dark grey intrusive diss. py 10%	.017		.06	.005	.09
52476	"	" S-3	"	Sili. Rx strings py 20%, malaquite stains	.017		.26	.005	.02
52477	"	" S-4	chips 2 metres	Sili. Rx diss. py 10%	.011		.004	.004	.003
52478	"	" S-5	chips 1 metre	strings, diss. conc. kpy 30%, py 5%, malaquite stains in Sili. Rx.	.024	1.09	4.02	.01	.05
		— END OF 1991 FIELD SEASON —							

13.3 GEOCHEMICAL AND ASSAY CERTIFICATES

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

GEOCHEMICAL/ASSAY CERTIFICATE

Gulf International Minerals Ltd. File # 91-3016

200 - 675 W. Hastings St., Vancouver BC V6B 1N2 Submitted by: VICTOR JARAMILLO

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Cu %	Pb %	Zn %	Ag** oz/t	Au** oz/t
D 52001	3	27	2335	2193	4.4	15	10	2465	3.09	59	5	ND	1	519	20.8	4	3	9	4.47	.078	5	9	.96	52	.01	2	.37	.03	.24	1	.01	.26	.26	.14	.001
D 52002	2	404	228	4300	4.4	3	12	1752	4.33	6	5	ND	1	358	34.1	3	7	5	3.16	.070	3	3	.62	63	.01	2	.36	.03	.25	1	.04	.03	.49	.11	.003
D 52003	4	338	42	118	2.1	73	22	735	6.86	27	5	ND	1	131	1.1	2	9	14	1.91	.117	2	15	1.17	20	.01	2	.48	.01	.39	1	.03	.01	.01	.05	.005
D 52004	5	68	40	62	1.8	80	25	551	7.92	28	5	ND	1	96	.6	2	6	7	1.31	.109	2	10	.69	13	.01	2	.31	.01	.22	1	.01	.01	.01	.04	.005
D 52005	2	182	106	167	5.0	87	77	440	13.28	33	5	ND	1	97	1.7	2	16	5	1.17	.078	2	11	.62	8	.01	2	.30	.01	.22	1	.02	.01	.02	.14	.009
D 52006	3	175	30	50	3.5	123	79	899	15.68	79	5	ND	1	152	.8	2	7	5	1.54	.074	2	15	.90	10	.01	2	.19	.01	.15	1	.02	.01	.01	.10	.010
D 52007	6	378	27	117	2.8	62	54	601	10.37	64	5	ND	2	93	1.0	2	14	5	1.55	.127	2	5	.46	11	.01	2	.29	.01	.21	1	.04	.01	.01	.07	.005
D 52008	8	252	18	56	1.2	65	37	390	9.12	40	5	ND	1	81	.2	2	10	10	1.16	.112	2	19	.48	17	.02	2	.51	.01	.42	1	.02	.01	.01	.03	.012
D 52009	2	18	3	47	.1	1	8	1188	1.37	4	5	ND	3	147	.3	2	2	6	2.68	.087	11	1	.78	158	.01	2	.50	.01	.38	1	.01	.01	.01	.01	.001
D 52010	7	64	14	40	1.7	6	7	480	4.70	45	5	ND	2	6	.4	2	8	3	.06	.050	7	3	.02	32	.01	2	.28	.01	.18	1	.01	.01	.01	.05	.004
D 52011	4	654	7	86	1.5	66	28	824	5.88	32	5	ND	1	110	.9	2	6	11	2.31	.101	2	13	1.02	21	.02	2	.45	.01	.36	1	.06	.01	.01	.04	.011
D 52012	22	115	38	278	2.2	148	54	1981	11.18	34	5	ND	1	115	2.6	2	11	15	1.90	.087	2	34	1.29	9	.01	2	.42	.01	.33	1	.01	.01	.03	.06	.007
D 52013	8	344	76	445	4.7	126	56	783	13.77	29	5	ND	1	57	4.1	2	12	4	.96	.083	2	15	.38	10	.01	2	.22	.01	.18	1	.03	.01	.05	.12	.011
D 52014	2	148	95	642	5.0	138	183	569	21.09	29	5	ND	1	68	6.4	2	13	3	.91	.023	2	14	.66	6	.01	2	.20	.01	.14	1	.01	.01	.07	.14	.014
D 52015	11	152	40	219	4.2	160	203	210	13.12	74	5	ND	1	46	2.7	2	12	6	.86	.060	2	24	.50	10	.01	2	.29	.01	.23	1	.01	.01	.02	.12	.015
D 52016	2	391	127	207	16.2	120	105	253	19.48	218	6	2	1	21	2.1	2	189	15	.60	.028	2	58	1.06	12	.04	2	.89	.01	.44	1	.04	.01	.02	.49	.081
STANDARD	19	60	42	133	7.0	73	32	1061	4.01	42	20	6	40	52	18.7	15	22	56	.48	.092	40	58	.90	178	.09	33	1.90	.06	.15	11	.83	1.37	2.32	.99	.098

Standard is STANDARD C/R-1/AG-1/AU-1.

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CRUSHED ROCK AG** + AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.

DATE RECEIVED: JUL 30 1991 DATE REPORT MAILED: Aug 2/91. SIGNED BY.....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Gulf International Minerals Ltd. FILE # 91-3283 Page 1
200 - 675 W. Hastings St., Vancouver BC V6B 1N2 Attn: VICTOR JARAMILLO

SAMPLE#	AU* ppb
D 52019	350.0
D 52021	250.0
D 52023	84.2
RE D 52021	270.0

- SAMPLE TYPE: P1 SOIL P2 TO P3 ROCK P1 TO P2 GEO/P3 ASSA
AU* ANALYSIS BY ACID LEACH/AA FROM 30 GM SAMPLE.
Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 8 1991 **DATE REPORT MAILED:** Aug 13/91.

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

SAMPLE#	Au* ppb
D 52017	370
RE D 52018	34
D 52018	33
D 52020	91
D 52022	240
D 52024	54
D 52025	340
STANDARD AU-R	490

Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu %	Pb %	Zn %	Ag** oz/t	Au** oz/t
D 52026	.06	.01	1.67	.28	.102
D 52027	.13	.16	9.40	1.05	.152
D 52028	.15	.02	4.80	.91	.329
D 52029	.07	.06	.50	.56	.124
D 52030	.12	.03	4.82	.87	.198
D 52031	.03	.06	.60	.61	.674
D 52032	.05	.01	.11	.57	.118

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Gulf International Minerals Ltd. PROJECT INEL FILE # 91-3555

200 - 675 W. Hastings St., Vancouver BC V6B 1N2 Attn: R. GIFFORD

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Au** oz/t
D 52033	539	221	9324	15.5	12.40	.098
D 52034	89	32	499	.8	4.51	.004
D 52035	142	16	563	.6	5.02	.009
D 52036	137	53	495	.9	5.07	.006
RE D 52041	995	625	1865	31.2	18.92	.082
D 52037	160	119	1375	1.2	4.53	.001
D 52038	130	296	1490	2.2	5.49	.005
D 52039	1336	1525	63132	31.0	25.48	.040
D 52040	354	277	691	22.3	20.36	.147
D 52041	970	624	1862	30.2	18.56	.079
D 52042	332	669	50733	25.9	13.08	.018
D 52043	1181	74	619	23.6	1.46	.002
D 52044	69	69	323	2.0	7.44	.004
STANDARD C/AU-1	64	40	131	7.4	4.02	.097

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU • 1000 PPB
- SAMPLE TYPE: ROCK AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 16 1991 DATE REPORT MAILED: Aug 20/91

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

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

ASSAY CERTIFICATE

Gulf International Minerals Ltd. PROJECT INEL FILE # 91-3555R

SAMPLE#	Zn %
D 52039	5.02
D 52042	4.07

- 1 GM SAMPLE LEACHED IN 50 ML AQUA - REGIA, ANALYSIS BY ICP.
- SAMPLE TYPE: ROCK PULP

DATE RECEIVED: AUG 21 1991 **DATE REPORT MAILED:** Aug 23/91

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

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

GEOCHEMICAL/ASSAY CERTIFICATE

Gulf International Minerals Ltd. FILE # 91-3607
200 - 675 W. Hastings St., Vancouver BC V6B 1N2 Attn: VICTOR JARAMILLO

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Au** oz/t
D 52045	1358	752	1246	53.0	22.14	.185
D 52046	675	602	984	24.9	15.51	.078
D 52047	282	1305	1558	22.6	21.65	.080
RE D 52051	153	428	288	13.2	19.92	.221
D 52048	140	158	1071	6.9	8.12	.028
D 52049	129	169	3350	3.3	9.07	.001
D 52050	188	687	674	12.8	13.69	.076
D 52051	143	406	254	12.6	20.36	.213
D 52052	123	1383	565	59.1	11.90	.071
D 52053	277	403	505	22.7	21.01	.129
D 52054	166	415	943	10.4	12.40	.027
D 52055	324	301	676	15.1	17.35	.041
D 52056	143	191	1828	6.2	7.84	.022
STANDARD C/AU-1	56	40	132	6.9	4.02	.097

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 19 1991 DATE REPORT MAILED: Aug 22/91

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

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

GEOCHEMICAL/ASSAY CERTIFICATE

Gulf International Minerals Ltd. PROJECT INEL FILE # 91-3768 Page 1
200 - 675 W. Hastings St., Vancouver BC V6B 1N2 Attn: VICTOR JARAMILLO

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Au** oz/t
D 52057	4887	57	196	5.8	18.40	.023
D 52058	306	157	2784	1.4	4.06	.001
D 52059	312	325	3220	4.9	4.24	.002
D 52060	183	172	2140	2.8	5.32	.005
D 52061	215	107	1919	3.0	6.09	.003
D 52062	185	76	366	1.8	5.80	.003
D 52063	209	129	1190	3.3	5.03	.005
D 52064	151	275	1531	3.5	5.20	.002
D 52065	162	433	1592	3.3	4.84	.001
D 52066	160	149	2054	3.0	6.35	.006
D 52067	125	113	1665	2.9	4.87	.002
D 52068	158	121	2543	3.1	5.15	.002
D 52069	165	225	4473	4.0	5.27	.004
D 52070	225	410	5150	7.6	6.89	.012
D 52071	242	238	2592	6.2	5.96	.008
D 52072	227	302	5172	5.8	4.93	.008
D 52073	191	357	2790	4.4	4.84	.002
D 52074	158	117	2304	3.3	5.36	.002
D 52075	158	150	3784	2.8	6.45	.003
RE D 52071	229	247	2587	6.2	5.93	.007
D 52076	153	219	2211	3.9	6.59	.006
D 52077	140	205	1659	3.4	5.91	.006
D 52078	131	212	2142	3.6	5.68	.009
D 52079	129	248	1488	3.6	4.86	.008
D 52080	189	266	2262	3.8	5.04	.002
D 52081	168	182	2581	2.4	4.35	.001
D 52082	150	229	2282	3.7	4.90	.003
D 52083	91	145	2133	2.8	4.96	.003
D 52084	113	187	3484	4.2	5.97	.013
D 52085	152	606	2978	4.1	4.99	.007
D 52086	163	320	1923	6.0	7.49	.009
D 52087	461	349	3489	10.2	11.07	.012
D 52088	464	842	11064	19.3	12.66	.049
D 52089	137	147	1463	2.7	4.43	.001
D 52090	480	88	1951	4.4	14.59	.016
D 52091	133	169	4297	2.2	4.74	.002
D 52092	168	163	2515	3.5	6.67	.004
STANDARD C/AU-1	58	37	126	7.2	3.88	.098

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CRUSHED ROCK AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 22 1991 DATE REPORT MAILED: Aug 26/91.

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

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Au** oz/t
D 52093	201	238	3375	4.7	6.94	.007
D 52094	210	400	1689	10.3	8.39	.028
D 52095	199	246	1204	6.4	7.29	.015
D 52096	147	193	3114	2.8	5.24	.002
D 52097	140	118	2631	2.2	6.06	.002
D 52098	169	131	2951	2.4	5.18	.003
D 52099	117	116	1872	2.8	5.14	.011
D 52100	164	182	2537	3.6	6.49	.004
D 52101	142	168	2283	2.5	6.41	.005
D 52102	145	220	2426	2.8	5.17	.006
D 52103	214	266	3007	6.9	6.91	.016
D 52104	140	178	3086	2.8	6.14	.011
D 52105	248	117	4704	4.6	7.42	.005
D 52106	181	205	2659	4.0	6.85	.009
D 52107	238	512	6685	7.8	9.93	.021
D 52108	380	555	4477	11.2	10.28	.039
D 52109	144	167	1861	2.7	5.71	.002
D 52110	93	20	418	.6	4.75	.003
D 52111	347	48	5250	2.1	6.52	.005
D 52112	172	136	1953	1.7	5.00	.003
D 52113	122	67	4833	1.8	4.89	.010
D 52114	127	92	6350	3.1	4.84	.021
RE D 52110	97	22	483	.6	4.97	.001
D 52115	160	82	1684	3.8	6.30	.020
D 52116	138	57	1723	2.2	5.82	.027
D 52117	159	233	828	5.8	7.51	.019
D 52118	205	209	2187	6.3	6.81	.022
D 52119	251	279	1182	5.9	7.27	.033
D 52120	118	264	2457	3.9	5.78	.031
D 52121	75	157	3967	3.0	5.43	.011
D 52122	174	144	1862	4.2	6.32	.013
D 52123	170	462	2184	14.6	8.12	.048
D 52124	151	111	2090	4.1	5.69	.009
D 52125	203	204	2789	6.5	6.55	.013
D 52126	480	234	1582	5.7	6.59	.026
D 52127	137	104	2195	2.8	5.11	.022
D 52128	116	130	2025	3.7	5.45	.059
STANDARD C/AU-1	58	38	131	7.0	3.96	.098

Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Au** oz/t
D 52129	116	110	3683	2.7	4.33	.041
D 52130	141	207	4284	3.5	5.35	.045
RE D 52132	144	258	432	3.3	5.71	.011
D 52131	148	192	1068	3.3	5.07	.012
D 52132	149	264	424	3.4	5.74	.012
D 52133	148	147	1742	1.7	5.13	.003
D 52134	113	57	1441	.6	5.32	.005
D 52135	117	25	1608	.7	5.89	.002
D 52136	1782	11	107	2.0	8.95	.009
STANDARD C/AU-1	58	35	133	7.0	4.01	.098

Samples beginning 'RE' are duplicate samples.

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

GEOCHEMICAL/ASSAY CERTIFICATE

Gulf International Minerals Ltd. PROJECT INEL FILE # 91-3858 Page 1
200 - 675 W. Hastings St., Vancouver BC V6B 1N2 Attn: VICTOR JARAMILLO

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Au** oz/t
D 52137	150	428	3123	3.3	5.19	.002
D 52138	100	248	3948	3.0	5.63	.005
D 52139	152	139	4518	3.8	5.38	.022
D 52140	98	27	414	.6	4.33	.003
D 52141	85	37	483	.6	3.93	.001
D 52142	128	42	1068	.8	4.76	.002
D 52143	116	290	1848	2.0	5.09	.001
D 52144	208	92	1870	1.7	5.17	.003
D 52145	152	115	1502	1.8	5.04	.001
D 52146	123	32	676	.7	4.77	.002
D 52147	102	24	646	.5	4.25	.001
D 52148	111	58	303	.6	4.20	.001
D 52149	116	42	299	.6	4.12	.001
D 52150	107	31	246	.5	3.90	.001
D 52151	166	30	1696	.7	4.70	.001
D 52152	204	49	566	.8	4.00	.001
D 52153	700	373	2413	4.1	4.65	.002
D 52154	308	174	1649	1.8	3.82	.001
D 52155	390	183	3619	5.5	5.33	.003
D 52156	347	154	2779	8.9	5.49	.005
D 52157	101	28	1337	.8	4.54	.001
D 52158	45	10	194	.4	5.11	.001
D 52159	85	10	185	.3	5.37	.001
D 52160	90	51	588	.4	4.18	.001
RE D 52156	352	162	2823	8.6	5.63	.006
D 52161	118	106	894	.7	4.27	.002
D 52162	100	74	149	.4	3.66	.001
D 52163	130	39	214	.5	4.17	.001
D 52164	78	27	161	.3	3.44	.001
D 52165	82	114	435	.5	3.60	.001
D 52166	78	64	420	.4	3.53	.001
D 52167	79	25	124	.3	3.41	.001
D 52168	70	6	157	.2	3.71	.001
D 52169	85	18	549	.3	3.94	.001
D 52170	78	17	239	.4	3.44	.001
D 52171	89	10	165	.4	3.80	.001
D 52172	68	20	96	.3	3.17	.001
STANDARD C/AU-1	57	41	130	6.7	3.96	.099

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CRUSHED ROCK AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 26 1991 DATE REPORT MAILED: Aug 30/91

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

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Au** oz/t
D 52173	109	39	150	.6	3.85	.001
D 52174	81	64	442	.5	3.14	.001
D 52175	78	54	415	.6	3.15	.001
D 52242	421	54	260	3.4	4.98	.002

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

GEOCHEMICAL/ASSAY CERTIFICATE

Gulf International Minerals Ltd. FILE # 91-4035 Page 1
200 - 675 W. Hastings St., Vancouver BC V6B 1N2

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Au** oz/t
D 52176	54	55	1118	.6	2.57	.001
D 52177	52	222	877	1.2	2.72	.001
D 52178	63	360	2621	1.4	1.43	.001
D 52179	112	537	3109	3.2	4.20	.001
D 52180	363	1780	41685	28.5	19.19	.054
D 52181	251	1421	38197	25.9	14.17	.042
D 52182	129	190	1767	1.6	5.00	.001
D 52183	77	31	453	.5	4.03	.005
D 52184	115	50	893	.9	4.07	.001
D 52185	131	38	935	.7	4.59	.001
D 52186	102	25	262	.4	3.89	.001
D 52187	104	9	212	.4	4.74	.001
D 52188	116	45	269	.4	4.95	.002
RE D 52192	134	452	2862	2.1	4.20	.006
D 52189	169	22	234	.5	5.14	.001
D 52190	123	10	214	.4	4.99	.001
D 52191	119	8	156	.3	5.09	.001
D 52192	135	416	2828	2.2	4.27	.008
D 52193	440	73	400	2.6	5.19	.005
D 52194	101	16	305	.4	4.81	.003
D 52195	282	740	4630	5.0	8.44	.002
D 52196	141	236	2352	2.4	8.97	.006
D 52197	97	21	219	.4	4.40	.003
D 52198	78	13	165	.3	4.41	.003
D 52199	76	11	183	.4	4.25	.004
D 52200	82	11	101	.5	4.21	.005
D 52202	89	20	337	.5	4.16	.004
D 52203	393	4054	50653	45.6	19.36	.042
D 52204	850	5239	40714	62.3	16.38	.088
D 52205	920	9647	35085	87.9	18.82	.036
D 52206	244	1012	2599	9.4	11.90	.002
D 52207	320	1307	5557	17.6	17.46	.010
D 52208	169	468	3164	5.4	9.83	.001
D 52209	118	241	1117	2.5	5.82	.010
D 52210	90	298	627	3.8	6.95	.002
D 52211	151	595	3436	5.9	7.77	.003
D 52212	184	821	4918	6.6	9.50	.004
STANDARD C/AU-1	57	38	133	6.9	4.00	.099

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CRUSHED ROCK AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 30 1991 DATE REPORT MAILED: Sept 5/91

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

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Au** oz/t
D 52213	309	517	7351	4.8	13.30	.008
D 52214	271	727	4845	5.6	9.54	.001
D 52215	279	660	22021	8.5	10.50	.004
D 52216	441	1792	7845	22.5	13.58	.019
D 52217	31	26	1055	.5	3.02	.001
D 52218	109	103	1013	1.0	5.35	.001
D 52219	126	90	482	.9	4.69	.001
D 52220	186	908	12834	3.8	5.95	.001
D 52221	78	254	1317	1.4	4.87	.001
D 52222	143	535	1081	2.4	6.22	.001
D 52223	102	292	441	1.2	4.51	.001
D 52224	120	110	1316	.9	4.26	.001
D 52225	123	134	483	1.2	4.54	.002
D 52226	173	701	7182	3.9	4.23	.017
D 52227	852	837	58020	14.5	4.44	1.576
D 52228	237	634	6799	5.2	6.34	.013
D 52229	105	118	1719	1.2	4.24	.011
D 52230	136	844	9093	5.4	5.28	.005
D 52231	135	643	1351	3.7	3.19	.001
D 52232	143	857	1908	3.9	4.98	.002
D 52233	118	223	2086	2.1	4.94	.005
D 52234	212	519	2952	3.4	6.99	.003
D 52235	55	35	398	1.3	3.34	.001
D 52236	57	59	841	.8	3.41	.004
D 52237	347	664	38088	16.5	13.60	.080
D 52238	146	234	3318	3.8	7.03	.002
D 52239	219	763	73357	8.3	6.57	.009
D 52240	240	812	69885	12.6	13.32	.053
D 52241	83	107	1361	1.5	3.91	.001
D 52243	49	32	1950	.7	3.28	.008
D 52244	67	181	1033	1.0	3.26	.001
D 52245	164	1014	4117	5.2	6.50	.007
RE D 52240	207	736	59961	12.7	11.04	.050
D 52246	56	169	1767	1.2	3.14	.001
D 52247	86	37	559	.8	3.71	.001
D 52248	75	40	615	.6	3.18	.002
D 52249	112	41	589	1.2	3.92	.003
STANDARD C/AU-1	58	42	130	7.3	3.95	.100

Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Au** oz/t
D 52250	73	33	250	.3	3.29	.001
D 52251	104	47	313	.5	4.17	.001
D 52252	59	71	1091	.5	2.90	.001
D 52253	59	59	994	.8	3.47	.007
D 52254	62	49	231	.4	3.33	.002
D 52255	68	82	348	.6	3.42	.002
D 52256	102	175	5040	2.4	5.26	.005
D 52257	89	87	6717	1.6	5.34	.001
D 52258	133	376	8855	4.4	8.95	.021
D 52259	96	357	6244	4.5	7.73	.035
D 52260	114	471	7922	4.6	10.33	.020
RE D 52265	79	89	4811	1.6	8.90	.022
D 52261	193	509	17830	6.4	12.95	.069
D 52262	120	337	14606	7.5	7.99	.053
D 52263	322	363	99999	5.0	7.71	.019
D 52264	84	262	2940	3.5	12.37	.019
D 52265	80	91	4860	1.6	9.22	.021
D 52266	62	191	2760	1.5	5.76	.010
D 52267	100	132	1496	2.4	7.94	.017
D 52268	523	691	2033	9.0	13.56	.002
D 52269	466	302	1135	4.8	5.60	.001
D 52270	272	248	1067	4.0	5.12	.001
D 52271	200	117	413	2.7	5.75	.001
D 52272	433	421	771	8.3	8.68	.004
D 52273	315	356	986	5.2	5.95	.001
D 52274	455	555	1787	7.3	6.15	.002
D 52275	536	660	790	15.4	12.02	.005
D 52276	331	132	388	3.4	5.08	.001
D 52277	234	219	719	4.0	5.46	.003
D 52278	231	160	566	3.4	4.87	.001
D 52279	258	599	1339	7.1	7.19	.007
D 52280	311	424	1588	6.4	7.36	.013
D 52281	335	331	1344	4.4	5.64	.006
D 52282	408	1013	2008	14.4	10.39	.014
D 52283	240	426	1103	4.2	5.58	.010
D 52284	351	1410	1484	6.1	6.30	.011
D 52285	323	244	3206	7.7	6.15	.023
STANDARD C/AU-1	56	36	131	6.8	3.91	.098

Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Au** oz/t
D 52286	108	29	1178	.9	4.81	.001
D 52287	145	145	1765	2.7	4.95	.002
D 52288	299	70	620	2.3	5.72	.004
D 52289	225	65	221	2.3	5.68	.004
D 52290	267	94	393	2.9	5.68	.005
RE D 52287	141	152	1790	2.5	5.04	.002
D 52291	132	126	595	2.7	6.18	.008
D 52292	187	87	270	1.9	5.67	.002
D 52293	119	156	295	2.8	6.01	.002
D 52294	296	289	590	5.2	7.14	.005
D 52295	172	227	1496	2.8	5.51	.002
D 52297	65	19	190	.6	14.39	.004
STANDARD C/AU-1	59	39	134	7.1	3.99	.097

Samples beginning 'RE' are duplicate samples.

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

ASSAY CERTIFICATE

Gulf International Minerals Ltd. FILE # 91-4035 Page 5
200 - 675 W. Hastings St., Vancouver BC V6B 1N2

SAMPLE#	Cu %	Pb %	Zn %	Ag** oz/t	Au** oz/t
D 52296	27.90	.02	.21	4.25	.064

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

DATE RECEIVED: AUG 30 1991 DATE REPORT MAILED: Sept 5/91.

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

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Gulf International Minerals Ltd. FILE # 91-4071 Page 1
200 - 675 W. Hastings St., Vancouver BC V6B 1N2 Attn: VICTOR JARAMILLO

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Au** oz/t
D 52175	69	89	578	.7	2.99	.004
D 52201	283	22	59	3.2	17.48	.034
D 52298	130	372	12381	8.1	11.44	.061
D 52299	61	27	411	.7	3.72	.002
D 52300	109	148	2807	4.2	7.89	.028
D 52301	129	648	4063	4.1	9.09	.022
D 52302	95	186	3177	1.8	6.28	.008
D 52303	112	286	8870	3.4	5.44	.003
D 52304	237	229	31575	5.7	6.36	.017
D 52305	115	212	14680	5.2	10.33	.030
D 52306	125	422	25276	9.3	11.72	.039
D 52307	261	467	24337	19.1	12.50	.089
D 52308	92	583	7489	1.9	3.82	.001
D 52309	229	381	2236	2.1	5.12	.006
D 52310	328	125	354	1.5	5.64	.001
D 52311	182	267	548	2.6	4.32	.001
D 52312	2177	204	709	12.3	5.61	.004
D 52313	172	70	1812	1.3	3.53	.001
D 52314	82	341	364	3.0	4.68	.001
D 52315	176	555	431	4.3	5.11	.001
D 52316	104	136	267	1.7	3.07	.001
D 52317	285	767	14620	6.8	10.77	.081
D 52318	85	26	1347	.5	3.69	.001
D 52319	83	22	452	.6	3.81	.002
D 52320	226	155	1111	2.3	4.94	.002
D 52321	133	23	1564	.9	5.04	.009
D 52322	356	278	20726	9.0	5.14	.079
D 52323	138	115	623	1.2	4.67	.001
D 52324	154	26	176	.6	4.50	.001
D 52325	123	51	1074	1.0	4.99	.001
D 52326	143	28	2896	1.6	6.71	.001
D 52327	361	42	4914	1.7	6.54	.001
D 52328	551	119	17030	5.3	21.23	.057
RE D 52324	144	22	178	.6	4.38	.001
D 52329	543	398	44666	8.3	10.99	.070
D 52330	86	29	3851	1.1	6.32	.001
D 52331	229	47	2115	1.6	8.45	.003
STANDARD C/AU-1	56	39	129	6.7	3.93	.099

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CRUSHED ROCK AU** ANALYSIS BY FA/ICP FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: SEP 3 1991 DATE REPORT MAILED: Sept 6/91.

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

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Au** oz/t
D 52332	345	142	7348	3.6	7.63	.007
D 52333	55	151	898	.7	7.10	.001
D 52334	186	36	1607	1.9	7.41	.002
D 52335	126	24	980	1.2	6.49	.001
D 52336	250	35	975	1.2	7.41	.001
RE D 52332	406	151	8621	3.9	8.24	.007
STANDARD C/AU-1	57	39	134	6.8	4.01	.099

Samples beginning 'RE' are duplicate samples.

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

GEOCHEMICAL/ASSAY CERTIFICATE

Gulf International Minerals Ltd. FILE # 91-4118 Page 1
200 - 675 W. Hastings St., Vancouver BC V6B 1N2 Attn: VICTOR JARAMILLO

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Au** oz/t
D 52449	47	36	104	.4	1.50	.001
D 52450	32	24	96	.4	1.33	.001
D 52451	28	24	110	.3	1.27	.001
D 52452	46	30	427	.6	1.17	.001
D 52453	137	105	4507	2.1	1.58	.022
D 52454	141	125	4455	1.6	2.59	.007
D 52455	125	315	3610	2.1	3.78	.009
D 52456	138	259	948	2.6	2.01	.004
D 52457	325	12	412	1.6	5.01	.004
D 52458	485	15	336	2.4	5.43	.007
D 52459	292	23	519	2.0	4.86	.010
RE D 52464	3165	66	222	11.2	18.90	.007
D 52460	317	44	199	3.7	4.34	.027
D 52461	12589	252	1953	71.7	25.74	.036
D 52462	188	17	45	1.0	2.34	.001
D 52463	2771	5	72	4.0	3.69	.004
D 52464	3189	70	220	11.3	19.14	.008
D 52465	1383	51	90	3.3	9.68	.003
D 52466	241	11	29	.8	5.59	.002
D 52467	53	18	55	.4	7.37	.001
D 52468	485	62	409	4.5	3.31	.021
D 52469	2854	42	1785	10.5	6.68	.031
D 52470	541	15	245	2.5	2.79	.015
D 52471	108	40	1631	1.3	3.16	.004
D 52472	148	107	624	5.0	4.43	.055
D 52473	258	18	406	1.4	3.74	.014
D 52474	152	61	100	4.1	8.78	.016
D 52475	593	51	946	2.7	4.00	.017
D 52476	2640	46	209	5.7	8.05	.017
D 52477	41	35	26	1.3	13.93	.011
STANDARD C/AU-1	59	42	133	7.4	4.00	.099

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CRUSHED ROCK AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: SEP 4 1991 DATE REPORT MAILED: Sept 9/91.

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

SAMPLE#	Cu %	Pb %	Zn %	Ag** oz/t	Au** oz/t
D 52478	4.02	.01	.05	1.09	.024

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

ASSAY CERTIFICATE

Gulf International Minerals Ltd. FILE # 91-4035R

SAMPLE#	Zn %	Ag oz/t
D 52180	4.58	-
D 52181	4.07	-
D 52203	4.90	1.21
D 52204	4.00	1.72
D 52205	3.48	2.40
D 52207	-	-
D 52215	2.20	-
D 52216	-	-
D 52220	1.27	-
D 52227	5.26	-
D 52237	3.66	-
D 52239	7.11	-
D 52240	6.66	-
D 52261	1.87	-
D 52262	1.56	-
D 52263	13.68	-
D 52275	-	-
D 52282	-	-
RE 52205	3.45	2.37

- 1 GM SAMPLE LEACHED IN 50 ML AQUA - REGIA, ANALYSIS BY ICP.
- SAMPLE TYPE: ROCK PULP

Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: SEP 6 1991 DATE REPORT MAILED: Sept 10/91

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

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

GEOCHEMICAL/ASSAY CERTIFICATE

Gulf International Minerals Ltd. FILE # 91-4117 Page 1
200 - 675 W. Hastings St., Vancouver BC V6B 1N2 Attn: VICTOR JARAMILLO

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Au** oz/t
D 52337	72	28	168	.4	3.80	.001
D 52338	119	29	147	.3	3.98	.001
D 52339	124	16	111	.4	3.53	.001
RE D 52343	139	340	5271	2.2	4.73	.017
D 52340	96	107	442	1.0	3.22	.001
D 52341	142	217	6948	4.2	4.55	.021
D 52342	176	1244	47300	8.8	8.57	.254
D 52343	145	344	5880	2.3	4.80	.020
D 52344	143	169	892	1.2	4.65	.001
D 52345	121	488	1422	2.1	4.24	.002
D 52346	129	246	517	1.4	4.33	.001
D 52347	129	100	296	.9	4.24	.001
D 52348	116	65	434	.7	4.33	.001
D 52349	133	173	1343	1.3	3.94	.001
D 52350	163	186	872	1.1	5.05	.001
D 52351	173	29	360	.7	4.47	.003
D 52352	285	71	546	1.5	4.43	.001
D 52353	157	411	6293	2.5	4.65	.013
D 52354	147	471	10359	2.9	3.34	.041
D 52355	51	79	348	.8	3.10	.003
D 52356	50	29	271	.4	2.55	.001
D 52357	49	19	129	.3	2.54	.001
D 52358	41	16	99	.4	2.76	.001
D 52359	72	628	9177	9.6	2.60	.001
D 52360	314	645	11571	15.9	5.03	.185
D 52361	195	417	11342	7.7	6.90	.079
D 52362	162	1197	31917	18.9	10.92	.069
D 52363	251	265	33342	5.7	8.48	.017
D 52364	296	305	31343	5.9	6.74	.026
D 52365	70	117	1361	1.2	4.74	.004
D 52366	189	345	28847	3.8	5.67	.006
D 52367	41	58	1075	.5	3.21	.001
D 52368	61	47	753	1.0	4.55	.004
D 52369	33	16	324	.3	2.94	.001
D 52370	47	52	1663	1.1	6.50	.010
D 52371	82	211	3700	4.4	8.52	.034
D 52372	78	189	6445	2.9	6.71	.015
STANDARD C/AU-R	61	39	136	7.0	4.04	.096

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CRUSHED ROCK AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: SEP 4 1991 DATE REPORT MAILED: Sept 10/91

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

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Au** oz/t
D 52373	101	192	6833	3.2	8.85	.013
D 52374	114	195	28233	2.8	7.77	.011
D 52375	186	256	8546	6.9	11.31	.022
D 52376	202	158	8166	3.5	14.97	.014
D 52377	78	134	4080	1.8	5.76	.002
D 52378	107	189	10275	2.7	9.14	.014
D 52379	77	223	3548	2.2	7.27	.005
D 52380	158	162	4470	2.5	11.84	.006
D 52381	136	471	4364	5.2	12.35	.007
D 52382	51	190	1757	1.9	4.88	.002
D 52383	65	223	2022	2.9	6.93	.001
D 52384	93	261	5295	3.8	8.75	.003
D 52385	97	168	1487	2.6	12.41	.009
D 52386	121	385	4778	4.4	10.23	.002
D 52387	256	318	24276	5.1	16.38	.007
D 52388	68	79	1897	.9	4.47	.003
D 52389	202	1652	9184	16.8	13.41	.041
D 52390	133	280	4247	4.5	7.93	.008
D 52391	243	896	6754	13.4	13.22	.020
D 52392	122	150	1987	2.4	6.17	.012
D 52393	148	192	1550	2.0	5.12	.004
RE D 52389	211	1677	9374	17.6	12.08	.043
D 52394	251	302	27093	5.1	10.99	.004
D 52395	415	766	8423	14.2	9.70	.342
D 52396	167	250	1439	2.5	7.58	.004
D 52397	103	52	644	.7	5.29	.010
D 52398	213	301	2635	2.9	9.32	.003
D 52399	170	382	46667	3.5	8.79	.010
D 52400	220	218	4671	2.7	9.33	.008
D 52401	566	20	85	2.5	13.48	.027
D 52402	175	192	1384	2.2	6.36	.013
D 52403	329	537	3915	4.1	8.37	.004
D 52404	162	521	3001	4.9	8.76	.001
D 52405	558	589	25680	10.6	9.01	.116
D 52406	235	363	4352	3.3	8.32	.001
D 52407	203	853	2398	4.5	8.03	.004
D 52408	393	946	4183	6.7	14.49	.003
STANDARD C/AU-1	57	37	128	6.8	3.91	.098

Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Au** oz/t
D 52409	284	934	2052	6.8	10.15	.003
D 52410	398	1430	1324	10.4	13.54	.004
D 52411	120	55	447	.7	4.25	.001
D 52412	69	21	289	.6	3.42	.002
D 52413	83	48	411	.6	3.99	.005
D 52414	98	32	469	.8	3.73	.002
D 52415	96	40	417	.7	3.61	.002
D 52416	268	98	670	1.3	3.01	.001
D 52417	147	118	1117	.9	3.52	.001
D 52418	111	23	114	.4	3.21	.001
D 52419	102	17	381	.5	3.63	.004
D 52420	75	39	383	.6	3.39	.007
D 52421	118	29	270	.8	3.58	.004
D 52422	198	21	186	.6	3.22	.001
D 52423	106	29	262	.4	3.31	.001
D 52424	104	30	257	.4	3.19	.001
D 52425	99	25	452	.3	3.45	.001
D 52426	83	138	1192	.8	3.26	.003
D 52427	667	2802	27574	29.6	20.68	.052
D 52428	591	12143	70523	57.9	14.62	.032
D 52429	721	347	22707	5.4	8.55	.008
D 52430	1510	457	26543	10.1	19.47	.029
D 52431	284	232	6047	3.1	8.87	.044
D 52432	499	77	846	3.9	7.81	.094
D 52433	114	66	567	1.3	3.70	.022
D 52434	180	482	3596	4.7	5.32	.006
D 52435	367	492	5934	8.5	11.75	.032
D 52436	208	251	4711	3.6	6.32	.015
D 52437	73	99	8477	1.5	2.94	.014
D 52438	60	68	5530	1.3	2.43	.007
D 52439	103	208	15328	1.5	5.50	.004
D 52440	1029	150	6308	10.0	19.04	.383
D 52441	259	68	643	3.2	4.97	.136
D 52442	238	62	1135	1.5	6.23	.035
RE D 52438	62	63	5330	.8	2.40	.007
D 52443	387	479	1074	6.3	8.38	.051
D 52444	94	184	749	1.0	3.07	.007
STANDARD C/AU-1	64	40	132	7.6	3.99	.096

Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Au** oz/t
D 52445	245	255	3433	1.8	4.68	.005
D 52446	190	23	295	2.3	7.08	.005
D 52447	1364	64	193	4.2	4.58	.005
D 52448	4841	971	942	64.8	14.91	.039
RE D 52447	1457	76	206	4.8	4.83	.005

Samples beginning 'RE' are duplicate samples.

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

ASSAY CERTIFICATE

Gulf International Minerals Ltd. FILE # 91-4035R

SAMPLE#	Cu %	Pb %	Zn %	Ag oz/t
D 52180	.03	.21	4.58	-
D 52181	.02	.17	4.07	-
D 52203	.04	.46	4.90	1.21
D 52204	.08	.59	4.00	1.72
D 52205	.09	1.16	3.48	2.40
D 52215	.03	.08	2.20	-
D 52220	.02	.08	1.27	-
D 52227	.07	.08	5.26	-
D 52237	.03	.07	3.66	-
D 52239	.03	.07	7.11	-
D 52240	.02	.08	6.66	-
D 52261	.02	.05	1.87	-
D 52262	.01	.04	1.56	-
D 52263	.04	.04	13.68	-
RE 52205	.09	1.15	3.45	2.37

- 1 GM SAMPLE LEACHED IN 50 ML AQUA - REGIA, ANALYSIS BY ICP.
- SAMPLE TYPE: ROCK PULP

Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: SEP 6 1991 DATE REPORT MAILED: Sept 11/91.

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

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

ASSAY CERTIFICATE

Gulf International Minerals Ltd. FILE # 91-4071R

SAMPLE#	Cu %	Pb %	Zn %
D 52298	.01	.05	1.51
D 52304	.02	.03	3.35
D 52305	.01	.03	1.74
D 52306	.01	.05	2.70
D 52307	.02	.05	2.51
D 52317	.03	.09	1.78
D 52322	.04	.03	2.37
D 52328	.06	.02	1.99
D 52329	.06	.04	4.79
RE D 52298	.01	.05	1.53
STANDARD R-1	.85	1.37	2.33

- 1 GM SAMPLE LEACHED IN 50 ML AQUA - REGIA, ANALYSIS BY ICP.
- SAMPLE TYPE: ROCK PULP

Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: SEP 6 1991 DATE REPORT MAILED: Sept 12/91

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

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Gulf International Minerals Ltd. FILE # 91-3283R

SAMPLE#	Cu ppm	Pb ppm	Ag ppm	Fe %
D 52017	1613	455	11.4	15.29
D 52018	177	64	2.1	10.51
D 52020	98	14	.8	6.66
D 52022	130	22	.8	8.02
D 52024	404	12	.5	4.55
D 52025	497	21	1.8	9.20
RE D 52017	1653	473	11.9	15.96
STANDARD C	61	40	6.9	4.00

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK PULP Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: SEP 10 1991 DATE REPORT MAILED: Sept 13/91

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

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

ASSAY CERTIFICATE

Gulf International Minerals Ltd. FILE # 91-4118R

SAMPLE#	Cu %	Pb %	Zn %
D 52461	1.17	.04	.26

- 1 GM SAMPLE LEACHED IN 50 ML AQUA - REGIA, ANALYSIS BY ICP.
- SAMPLE TYPE: ROCK PULP

DATE RECEIVED: SEP 10 1991 DATE REPORT MAILED: Sept 16/91.

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

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

ASSAY CERTIFICATE

Gulf International Minerals Ltd. FILE # 91-4117R

SAMPLE#	Cu %	Pb %	Zn %	Ag oz/t
D 52342	.02	.13	5.84	-
D 52360	.03	.07	1.42	-
D 52361	.02	.05	1.42	-
D 52362	.02	.14	3.38	-
D 52363	.03	.03	4.00	-
D 52364	.03	.04	3.69	-
D 52366	.02	.04	3.19	-
D 52374	.01	.02	3.11	-
D 52378	.01	.02	1.34	-
D 52387	.02	.04	2.91	-
D 52394	.02	.03	3.03	-
D 52399	.02	.04	5.88	-
D 52405	.05	.06	2.78	-
D 52427	.06	.30	2.74	.85
D 52428	.05	1.38	7.66	1.70
D 52429	.07	.04	2.25	-
D 52430	.14	.05	2.73	-
D 52439	.01	.02	1.55	-
STANDARD R-1	.84	1.37	2.33	2.93

- 1 GM SAMPLE LEACHED IN 50 ML AQUA - REGIA, ANALYSIS BY ICP.
- SAMPLE TYPE: ROCK PULP

DATE RECEIVED: SEP 13 1991 **DATE REPORT MAILED:** Sept 19/91.

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

13.4 LIST OF ROCK SAMPLES COLLECTED DURING 1991

13.4 LIST OF ROCK SAMPLES COLLECTED IN 1991

Sample No.	Description
91 - 1	Basalt (South-end AK Drift).
91 - 2	Basalt (Middle Zone, Discovery Adit).
91 - 3	Banded Sediments, with K-Spar alt. of selective bands (South-end Discovery South Adit).
91 - 4	Syenite Porphyry (Discovery South Adit).
91 - 5	Intrusive (Dioritic) (Discovery South Adit).
91 - 6	3rd vein from south-end of the South Discovery Adit.
91 - 7	4th vein from south-end of the South Discovery Adit.
91 - 8	1st vein from south-end of the South Discovery Adit.
91 - 9	Intrusive Breccia (1st breccia as one goes in the AK Adit).
91 - 10	Intrusive 2 (Alaskite) from cross-cut NE Discovery North Adit.
91 - 11	Intrusive (chloritized) from cross-cut North, Discovery North Adit.
91 - 12	Black banded Argillites from cross-cut North, Discovery North Adit.
91 - 13	Vein in the South Drift, south of three lenses in Discovery Adit.
91 - 14	Dacite Conglomerate (AK Adit).
91 - 15	Banded Sediments. Discovery North cross-cut.
91 - 16	Vein (contact) with South Breccia AK Adit.
91 - 17	Altered Stockwork Zone po-py-sph in AK Adit.
91 - 18	Basalt Agglomerate with epidote alteration in matrix. Discovery Adit cross-cut east.
91 - 19	Altered (Altx) zone with stringers and veinlets, po, sph. Ak Adit.

Sample No.	Description
91 - 20	Intrusive breccia. AK Adit, 1st breccia.
91 - 21	Veinlets of sphalerite from altered (Altx) zone. AK Adit.
91 - 22	Intrusive breccia. Stained sample shows sand size particles of K-spar. From 1st breccia AK Adit.
91 - 23	Altered zone in Dacite Conglomerate. AK Adit.
91 - 24	Intrusive breccia from trench (Sample 52291) in which was V.G. observed. Surface AK Portal Zone.
91 - 25	AK Zone, Syenite Porphyry.
91 - 26	Samples of massive cpy from veinlet South Western Slopes Zone.
91 - 27	Felsic breccia from small knoll in South Western Slopes Zone showing pyritic subrounded fragments of felsic composition.
91 - 28	Felsic breccia sample from South Western Slope Zone with diss. py, minor sph (2 m from sample 91-27).
91 - 29	Black argillite with slaty cleavage. Lower area of Zinc Knob.
91 - 30	Py, cpy stockwork, volcanic host. South Western Slopes Zone. Debris from basin above.
91 - 31	Alaskite. LCP INEL 1, 2, 3, 4. Campsite EL. 1,390 m.
91 - 32	Alaskite. End of road below Discovery (Road) Portal.
91 - 33	Dyke rock debris. Source, toe area of south ice patch.
91 - 34	Dyke rock debris with sphalerite and galena diss. Source; toe area of south ice patch.
91 - 35	Banded qtz, py, sph mineralization. Discovery Adit.
91 - 36	Banded qtz, py, chlorite mineralization. Discovery Adit.
91 - 37	Large sample intrusive breccia. From 2nd breccia AK Adit.

SEE DWG 1:1000

INEL 1
1243

INEL 2
1244

INEL 3
1245

INEL 4
1246

INEL CAMP

INEL CREEK

AK ZONE

DDH 192

INEL CREEK ZONE

INEL RIDGE ZONE

WESTERN SLOPES

DISCOVERY ZONE

INEL BLUFF

ZINC KNOB

LEGEND

Rehabilitated Road

New Road

3 1991 Trench

DDH 192

N

Date/Time	Revision	Init.	Date/Time	Revision	Init.
Oct., 1991	Assess. Report				

0 INEL PROPERTY 250

metres

GULF INTERNATIONAL MINERALS LTD.

1991 ROAD CONSTRUCTION

Scale 1:5000

Figure 6

SEE DWG 1:1000

AK ZONE

INEL CREEK ZONE

INEL RIDGE ZONE

WESTERN SLOPES

DISCOVERY ZONE

INEL BLUFF

INEL BASIN ZONE

HIGH STAKE ZONE

ZINC KNOB

INEL CREEK

Mineralized Talus; Malaquite, Azurite, Cpy

Alaskite Diss. Py 1-5%

Mafic Intrusives (Diorite); Mafics 10%, Magnetite 4%

Silicified Rock with massive strings + diss. Cpy 2-4% (52478)

Quartzose Rock Diss. Py 15%

Alaskite Diss. Py 4%

Strongly Silicified Rock Diss. Py 25% (52477)

Strongly Silicified Rock Diss. Py 10%

Black Metasediments Platy Fracture. Strings + diss. Py 1-5%

Strongly Silicified Rock with diss. strings Py 20%. Few malaquite stains. Orange Limo.

52476

Alaskite Diss. Py 1%

Strongly Silicified Rock Diss. Py 15%

Alaskite Diss. Py <1%

52475

Metasediments Light gray aphanitic Diss. Py 1% Tabular platy fractures

Quartzose Structure Strings + diss. Py 20% (52474)

Alaskite with Limo. stains

Alaskite Diss. Py 5-10% Limo stains

Alaskite with diss. Py 1-3%

Breccia dyke: 60% frag. 2-5 cm >30cm 40%

Breccia Fragments 1-4 cm Cherty-like frag. (w. Argillic) with fine grained diss. Py in frag. 30% Traces Cpy - Sph.

Chloritic Intrusive Diss. Py 1-3%

Ferrodolomite, Chloritic Intrusive Diss. + strings Py 15-30 % with carbonate veinlets

30cm Breccia frag

Breccia Fragments 1-2cm 60%; >20cm 30%

Chlorite Alt. Breccia Frag 1-6 cm Diss. Py <1%

Alaskite Diss. Py 1-3%

BL 14+00W

15 cm wide massive Cpy lenses (52296)

Rounded Py structure, covered Limo. stain. (52448) Trace Cpy - Sph

Py Veinlets 15-20cm width (52401)

BL 15+00W

Ferrodolomite alteration Cherty + brown frag. 1-4cm. Diss. Py 4%

Ferrodolomite overprint Breccia frag. 1-5 cm 60% brown, 10% light grey cherty. Diss Py 3%

Basalt (10)

Banded sediments

Andesite 12

Ferrodolomite overprint few cherty frag.

Ferrodolomite overprint Diss. Py 1-3%

Qtz at contact Breccia/Argillites

Banded Sediments

Basalt

Black Argillites Slaty Cleavage

Chilled margin Epidote, Py, Qtz.

Alaskite

Base metal breccia

Pyritic Andesite

Aphanitic light green rock with strings + diss. Py 5-15%, traces Cpy (52467)

Strongly chloritic pyritic rock. Qtz - Py stockwork (brecciated) Strings + diss. Py 20-40%, Malaquite stains. (52464)

Strongly silicified pyritic rock. Py 20%, Cpy 1% (52463)

Quartz vuggy rock. Partially leached. Py 5%, traces Cpy (52462)

Stockwork in strongly silicified rock. Strings Py 20%, trace Cpy (52465)

Intrusive chloritic stockwork, veinlets, Qtz, strings Py 20%

Weathered green friable Chloritic rock Py 1%

Alaskite weathered light green (9)

Stockwork of Qtz, Py, Malaquite stain veinlets. All in a chloritic rock Py 15-40%, Cpy <1% (Site of old blasting) (52461)

Silicified stockwork, strings Qtz, Py 15-20% in intrusive (leucocratic) Alaskite (52466) (15)

Massive Barite talus frag. Minor Qtz, Py 4%, Ga<1%, Cpy <1%

Basalt talus frag.

Py talus frag.

Banded sediments Diss. Py 1%

52045

52046

52050

(52051)

Vein: Py 80% Qtz in silicified rock

Vein: conc. PY 20-40%

Chilled Margin Brittle

Basalt

Alaskite Diss. Py 1%

Chilled Margin

Alaskite traces Py

Pyritic 10-25% zone, qtz.

Alaskite Py <1%

Basalt strings Py 20% (10)

Alaskite Diss. Py 1% (9)

Hornfelsed Sediments (brittle) strings + diss. Py 10-20% (4)

Banded to Massive Sediments (1)

Syenite (7)

Py Vein

Banded Sediments (1)

Basalt (10)

Syenite (7)

Basalt (10)

Banded Sediments (1)

Syenite Intrusive (9)

Chloritic Basalts (10)

Py Vein

Diorite (8)

Syenite Porphyry (6)

Banded Sediments; K-spar altered zone (1)

Py Vein

Chloritized Sediments

Syenite Porphyry

Intrusive Breccia

Chloritic Banded Sediments

Hornfelsed Sediments

Banded Sediments (1)

Dacite Conglomerates (5)

Intrusive Breccia (13)

Basalt (10)

Contaminated Syenite

Hybrid Intrusive

Banded sediments (1)

Mineralized Stockwork (14)

Altered Dacite Conglomerate (5)

Basalt (10)

Basalt diss., strings Py 15-20%

ROCK SAMPLE:

Py stringers

Quartz veinlet 1 cm

Intrusive chloritic stockwork with brecciated Qtz veinlets, +20% Py stringers

SECTION A-A'
Looking NW
Scale - N.T.S.

LEGEND

SEDIMENTARY ROCKS

1. Massive/banded Seds.; fresh to weak argillic altered, light to medium gray color.
2. Chloritized massive/banded seds.; green color.
3. Metasediments (Argillites); black to gray color.
4. Hornfelsed banded seds.
5. Dacite conglomerate; dark gray color.

INTRUSIVE ROCKS

6. Syenite porphyry.
7. Syenite
8. Diorite
9. Alaskite (Quartz monzonite)

VOLCANIC ROCKS

10. Chloritized basalts
11. Volcanic breccia
12. Andesite flows

ALTERATION

- Chlorite alteration
- Ferrodolomite alteration
- Chilled rock (brittle); Qtz - Py ± epidote

MINERALIZED STRUCTURES

13. Intrusive breccia
14. Mineralized stockwork: moderate to strong argillic altered, very light to light gray color; stringers + diss. pyrrhotite, sphalerite and pyrite.
- Pyrite - sphalerite - chalcopyrite veins
15. Quartzose stockwork: diss. + stringers pyrite
16. Silicified structure with massive stringers and diss. chalcopyrite
- Mineralized (pyrite) breccia fragments

STRUCTURE

- Fault with dip
- Bedding (strike - dip)

SYMBOLS

- Trench
- Road
- (52401) Sample number

LEGEND

Selected Drillholes only in the AK Zone

N

Date/Time	Revision	Init.	Date/Time	Revision	Init.
15 Oct 1991, 1:05pm	Original				
March, 1991	Geology Comp.	V.A.J.			
October, 1991	Geology Update	V.A.J.			

TONY CLARK CONSULTING

0 INEL PROPERTY 250

metres

GULF INTERNATIONAL MINERALS LTD.

GEOLOGY PLAN

Scale 1:2500

Figure 7

GEOLOGICAL BRANCH ASSESSMENT REPORT

22,026

10500E

10600E

10700E

N

20100N

20000N

19900N

19800N

19700N

1510

Banded to thick beds.
Sediments: Siltstones, Argillites.
Black to dark grey with some
dark green colour (chlorite).
Decrease in diss. Py 3-5%

Fault with orange Limo stains.
Walls are bleached creamy colour.

Mineralized Fault 10 cm
Py 45%, Qtz-Cal.

Vein 30cm
Py 90%

Fault with orange
Limo stains.

Syenite

Banded Sediments:
Argillites/Siltstones with
diss. Py 5%. Fewer strings -
Veinlets Py

5cm Qtz-Py 15%
Veinlet cut by
flat fault.

1.0 cm Qtz Veinlet

VEIN: Massive Py 90%, Chlorite,
Qtz calcite. Width = 0.40-0.6 m

5cm Qtz-calcite
Veinlet, Py 8%

Fault with 2-4 cm
Qtz-calc.

Faults with gouge +
orange Limo stains

Syenite: K-spar phenos = 20% (1-2 mm),
Qtz not seen, plag. 35%, hornbl. 10%,
chlor. 5%. Colour dark green.

Increment // strings calcite, Py Veinlets (1cm)

Sediments: Banded siltstone/Argillites.
Some massive to poorly bedded black
Argillites. These with strong // fracturing
with strings calcite -Qtz, Py (10-20%)
along bedding trend.

Massive Py 80%, stratabound (0.10-0.40 m)
Lenses, Qtz-calcite-chlorite.
Lenses strike 140°, dip 30°E.

VEIN (0.45 m) Qtz-chlorite-Py 20%

VEIN: Massive Py 90%,
width = 40-60 cm

Fault with Qtz-Calcite-Chlorite
Py 15% (0.10-0.5 m)

2cm Qtz-Calcite-Py 4%

Basalt Flow

Fault with Bx frag. mainly Qtz
in a Chlorite Matrix with Py 15%
Center Mafic dyke

VEIN (0.60 m) Qtz,
Py 65%, Sph 10%

1-5cm Qtz-Chlorite
Py < 3%

1-3 cm Qtz-Calcite Veinlet

1-2cm Py 80% Veinlet

Fault with orange Limo stains.
Also Qtz-Py 20%

Fault with 1-2cm Qtz-calcite
also Py 10%

2cm Py (85%)
Veinlets

Agglomerate: Frag. Basaltic 1-10 cm.
in an Epidote-chlorite matrix.
Diss. + strings Py 5-15%

Agglomerate: Frag. Basalt, matrix
Chloritic < Epidote.
Py diss 5-8%

Chloritized Basalts with increase
in coarse diss. Py 15%

Fault with Qtz-Py 10%,
Sph 3%, Chlorite (1-2cm)

East Wall: 2.0 m Vein with Py 35%, Sph 4%, Cpy 1%,
Pinches into horse tail West

Veinlet Qtz-Py < 2%, 1cm wide

Qtz Veinlet Py 3%
1-2 cm wide

Argillite/Siltstone 1-2 cm
bands - Light to dark brown
colour. Has diss. + strings Py

Fault with Limonite stains (orange)

Sediment bands
with apparent dip 19°N.,
striking 160° and dipping
46° NE.

Felsic Sill (K-spar alt). diss. Py 15%, Cpy < 1%

1-2 cm Veinlet Py

10cm Vein Qtz-Py 30%, chlorite

Banded Sediments, diss. Py 5%, perpendicular
strings Py to bedding

Basalts, Massive with
diss. Py 4%

VEIN: 30 cm, Qtz, Py 20%, Sph 5%,
Cp 1%, Calcite, chlorite

Felsic Sill (10 cm) fine grained
diss. Py 15%

Fault Calcite-gouge

Fault with Calcite-Qtz-Chlorite-Py (6%)
(3-10 cm). Minor gouge

Fault with high Limonite

Few 20°-30° Qtz-Calcite-
Py Veinlets (2-5 cm).

Strong
Limonite
Stains

Fault 1-3 cm white gouge

Decrease in Py as Veinlets
+ diss. Increase in calcite veinlets

Flat Vein: 0.40 m, Qtz-Calcite-
Chlorite, Cpy 5%, Py 3%

VEIN: 0.90 m, Qtz-Py (60%)

Massive Basalts (chlorite alt.) diss.,
strings Py-Calcite-Qtz

K-spar
Alt, bleaching

VEIN: 0.65 m, Qtz, Py (60%) K-spar

VEIN: 0.60 m Ave., Qtz, Py (20%) K-spar

0.30 m, gouge, bk. Rx.

Diorite: (Skyline = Felds. Po). Alt. Feldsp., Chlorite,
prob. Hornbl. Rare Qtz. Diss. Py 4%.

Strong stockwork strings, diss., Veinlets Py (20-30%)
Veinlets K-spar. strong K alt.

Syenite Porphyry, 1-2 cm K-spar crystals
pinkish colour. Fine diss. Py 2%
specks Chlorite.

VEIN: 0.35 m wide. Qtz, Py (50%),
Chlorite, K-spar

VEIN: Qtz-Py (25%) K-spar, Chlorite,
Calcite, 2.0 m wide.

Banded Seds. (K-alt). Irreg.
strings Qtz-Py (8%) diss.
Intermittent light-dark
1-2 cm bands.

LEGEND

SEDIMENTARY ROCKS

- Massive/banded Seds. (Argillite/Siltstone): fresh to mod. silicified, black to light grey to brown.
- Banded Seds. (Argillite/Siltstone): strong K-spar alteration, bleached to light brown.

VOLCANIC ROCKS

- Chloritized Basalts, green colour
- Basalt Agglomerate, green colour

INTRUSIVE ROCKS

- Syenite Porphyry: 1-2 cm K-spar phenos.
- Diorite: Plagioclase, 20% mafics
- Syenite: 20% K-spar phenos 1-2 mm, plagioclase 35%, mafics 15%. Light grey to green colour.

MINERALIZED STRUCTURES

- Pyrite (± Sphalerite, Galena, Chalcopyrite), Quartz Veins
- Mineralized Stockwork Zone: Strong K-spar alteration; mainly mineralized with pyrite strings, Veinlets and veins (minor Chalcopyrite)
- Quartz - Calcite Veinlet

STRUCTURE

- Fault with dip
- Bedding (strike-dip)
- Joint (strike-dip)
- Contact with dip
- Flow (strike-dip)

NOTE: ⇐△ Indicates drift surveyed by compass and tape; otherwise with theodolite.

ALA Alaskite
ALT Argillic, bleach
AND Andesite
ARG Argillite
BAS Basalt
BR Breccia
CAS Casing
CAT Cataclasite
CGL Conglomerate
CHL Chlorite
DAC Dacite
DCGL Dacite Conglomerate
DIO Diorite
F Fault
FEL Felsite
FPP Feldspar Porphyry
IBR Intrusive Breccia
ICE Ice
KSP K-felspar Alteration
MON Monzonite
MSX Massive Sulphide Zone
Alt with ZnS
SED Undiff. SST/STS/ARG
SHR Shear
SPO Syenite Porphyry
SST Sandstone
STS Siltstone
SYN Syenite
TUF Felsic Tuff
UND Undetermined
X Mineralised
G Gouge Seam
RUF Approx. conditions

IBR
Geology

fault zone

drillhole collar, elevation
end of hole: DDH_NO, EOH_ELEV, DIP
drillhole crosses into section
drillhole crosses out of section

Date/Time	Revision	Init.
10 Oct 1991, 9:50am	Original	RGG
October, 1991	Geology Re-map	VAJ

TONY CLARK CONSULTING

DISCOVERY ZONE
metres 0 10 20 30 40 50
feet 0 50 100 150
GULF INTERNATIONAL MINERALS LTD.

1510m LEVEL PLAN
GEOLOGY

Scale 1:500

Figure 8

GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,026

All DDHs are plotted in their entirety
except for DDHs 12, 13, 15 and 16
which are plotted only
between elevations 1500m and 1520m.

AK ZONE

INEL CREEK ZONE

10500 E | 10600 E | 10700 E | 10800 E | 10900 E

20600 N | 20500 N | 20400 N | 20300 N

Bleached, pale greenish yellow rock with diss. Py 1-3% aphanitic texture

Intrusive Breccia: Polylithic Bx frag. Py 20%, Sph 2%

Stringer + diss. Py 20% zone

No sampling information

Chloritic banded Seds. Diss. Py 1-3%

Syenite porphyry. 1-3cm white Kspar phenos

Dusky green chloritic banded seds with f.g. diss. Py 1-3%

Hornfelsed seds with intermittent 1-2cm bands of dark yellowish green and dark yellowish orange color. (G.S.A. color chart).

Strongly chloritic zone with diss. + clust Py 25% Limonite stains.

Intrusive breccia: dark grey color Breccia frag. are polylithic (syenite, black seds, basalt) 0.25-10cm. Matrix is syenitic. All rock has coarse grained diss. Py 15-20% Mod. sericitic alt.

Banded seds diss Py <2% Weak argillic alt.

0.20m fault with gouge (Limo) + broken rock

Gradational contact

Dacite Conglomerate: Polylithic rounded to subrounded felsic frag. 1-10cm. Diss Py <1% in a fine grained dark gray matrix.

Sill Elev. 1657 m

Banded seds. 1-2% Py Mod. argillic alt.

Strongly sill. seds with Limo stains

Intrusive breccia: frag. 1-10cm. Dark seds, basalt, syenite in a syenitic matrix. Diss. Py 5-15% in both frag. + matrix. Rock color grayish black.

Fresh seds dark gray color Diss. Py <1%

Banded seds diss Py <1% Weak argillic alt.

Intrusive breccia: polylithic bx frag. 1-25 cm. Diss. + string Py 10-20% in frag. and matrix. Matrix is syenitic? Alteration mod. sericitic.

Roof of x-cut is plane of flat fault

Faulted zone with strong orange Limo stains

Ap Dip = 28° SE

Strong fault with gouge + Limo stains

Felsic dyke (0.40 m)

Ap Dip = 28° SE

Sediments somewhat bleached with weak sericite alt.

Dark grey banded seds. Weakly argillic. Diss Py <2% in fractures 3%.

Major fault (0.90m) gouge, Limo, broken rock

Syenite (Leucocratic)

Basalt remnant

Basalt lenses with clust. Py 15%

Bleached seds with Limo stains

Fault with 4cm gouge with Limo stains

Banded seds Mod. argillic alt. diss Py 2%

4cm fault with gouge + Limo stains

2cm gouge + Limo

Chloritic hybrid rock intrusive characteristics, such as interlocking grains, plagioclase, horneblende, chlorite. Diss. Py 4-8%, few irreg. strings Py 4%

Sill Elev. 1648 m

Contaminated syenite porphyry. Kspar phenos 1-2cm have been chloritized to a greenish black colour.

Vein: widths L=1.40m, R=0.65m Py 20-30%, Sph 5%, Qtz, Chlorite

1650 Portal

Syenite, diss. Py 1% Leucocratic

Vein: (0.25m) Qtz, Py 15%, Sph 4%, Chlorite

Fault Surf: Slickensides: Trend 085° Pitch = Horiz. to West

Mineralized stockwork: strings + veinlets Po 30%, Sph 6%, Py 3% Some visible bands are strongly disrupted

Banded seds diss Py 5%

Banded seds with stockwork veinlets Po 30%, Py 5%, Sph 8%

VEIN: irreg. struct. Py 30%, Sph 10%, Qtz, Calcite

Flow band Py 1cm

Contact Zone diss. + strings Py 20%, Sph 10%

Sericitization

Stockwork Zone Py 20-30%, Sph 1%

VEIN (3-5cm) Qtz, Py 35%, Sph 5%

VEIN (0.15cm) Qtz, Py 20%, Sph 4%, Sericite, Calcite

Argillic altered Dacite Conglomerate: with rounded to sub-rounded Polylithic Frag. (1-5cm)

Fault with strong Limo stain

Slickensides: pitch = 60° trend = 140°

Silicified Zone somewhat sericitic diss. + strings Py 5%, Po 1-2% Some Po replacing rounded Frag

Diss. + strings Py 20%, Sph 5%

Strong Fault with gouge, Limo stain, partially mineralized Py 20%, Qtz 20%, Sph 3%

Massive chloritized Basalts with diss + irreg. strings Py 10%, Calcite

Sill Elev. 1659 m

Vein cut by flat fault on roof, VEIN (0.25 m) Qtz, Py 20%, Sph 4%, Calcite, gouge + Limo stain

Dacite Conglomerate Polylithic (mainly felsic) rounded to subrounded frag. 1-10cm. Diss Py <2% in a black matrix Mod. to weak argillic altered

Fault with strong Limo stain

Weak argillic

Faults 1-2 cm Qtz-calcite

Banded seds diss Py <4%

Mineralization at nose of flow or effect of drag. Qtz, Py 20%, Sph 10%, Po 20%

Banded seds with diss + strings Po 10%, Py 2%

Increase in Po 20% as stockwork

Polylithic rounded to sub-rounded frag. (mainly felsic) 1-20cm in an aphanitic black matrix

Ap. Dip = 5° SE

Irreg. contact

Basalt with strings + diss. Py 10%-20%

LEGEND

SEDIMENTARY ROCKS

- Massive/banded Seds.; fresh to weak argillic altered, light to medium gray color.
- Chloritized Massive/banded Seds; green color.
- Silicified Seds; light gray color.
- Hornfelsed Seds; brittle
- Dacite Conglomerate; dark gray color

INTRUSIVE ROCKS

- Syenite Porphyry
- Hybrid Syenite
- Felsic Dyke
- Syenite (Leucocratic)

VOLCANIC ROCKS

- Chloritized Basalts

MINERALIZED STRUCTURES

- Intrusive Breccia
- Mineralized Stockwork: mod. to strong argillic altered, local dacite fingers, very light to light gray color; commonly mineralized with pyrite (sphalerite).
- Pyrite-sphalerite Veins

STRUCTURE

- Fault with dip
- Strike-dip

Date	Revision	Init.
May 13, 1991	Original	R.G.G.
Sept., 1991	Mine outline	V.A.J.
Oct., 1991	Geology	V.A.J.

AK ZONE

0 10 50

METRES

GULF INTERNATIONAL MINERALS LTD.

Underground & Surface Geology

Scale 1 : 500

Figure 9

Certificate Number	Width (m)	Au oz/t	Zn %
52058	1.0	Tr	0.28
059	1.0	Tr	0.32
060	1.0	Tr	0.21
061	1.0	Tr	0.19
062	1.0	Tr	Tr
063	1.0	Tr	0.12
064	1.0	Tr	0.15
065	1.0	Tr	0.16
066	1.0	Tr	0.21
067	1.0	Tr	0.17
068	1.0	Tr	0.25
069	1.0	Tr	0.45
070	1.0	0.012	0.52
071	1.0	Tr	0.26
072	1.0	Tr	0.52
073	1.0	Tr	0.28
074	1.0	Tr	0.23
075	1.0	Tr	0.38
076	1.0	Tr	0.22
077	1.0	Tr	0.17
078	1.0	Tr	0.21
079	1.0	Tr	0.15
080	1.0	Tr	0.23
081	1.0	Tr	0.26
082	1.0	Tr	0.23
083	1.0	Tr	0.21
084	1.0	0.013	0.35
085	1.0	Tr	0.30
086	1.0	Tr	0.19
087	1.0	0.012	0.35
088	1.0	0.049	1.11
089	1.0	Tr	0.15
090	1.0	0.016	0.20
091	1.0	Tr	0.43
092	1.0	Tr	0.25
093	1.0	Tr	0.34
094	1.0	0.028	0.17
095	1.0	0.015	0.12
096	1.0	Tr	0.31
097	1.0	Tr	0.26
098	1.0	Tr	0.30
099	1.0	0.011	0.19
100	1.0	Tr	0.25
101	1.0	Tr	0.23
102	1.0	Tr	0.24
103	1.0	0.016	0.30
104	1.0	0.011	0.31
105	1.0	Tr	0.47
106	1.0	Tr	0.27
107	1.0	0.021	0.67
108	1.0	0.039	0.45
109	1.0	Tr	0.19
110	1.0	Tr	Tr
111	1.0	Tr	0.53
112	1.0	Tr	0.20
113	1.0	Tr	0.48
114	1.0	0.021	0.64
115	1.0	0.020	0.17
116	1.0	0.027	0.17
117	1.0	0.019	Tr
118	1.0	0.022	0.22
119	1.0	0.033	0.12
120	1.0	0.031	0.25
121	1.0	0.011	0.40
122	1.0	0.013	0.19
123	1.0	0.048	0.22
124	1.0	Tr	0.21
125	1.0	0.013	0.28
126	1.0	0.026	0.16
127	1.0	0.022	0.22
128	1.0	0.059	0.20
129	1.0	0.041	0.37
130	1.0	0.045	0.43
131	1.0	0.012	0.11
132	1.0	0.012	Tr
133	0.6	Tr	0.17
134	1.0	Tr	0.14
135	1.0	Tr	0.16
137	1.0	Tr	0.31
138	1.0	Tr	0.39
139	1.0	0.022	0.45
140	1.0	Tr	Tr
141	1.0	Tr	Tr
142	1.0	Tr	0.11
143	1.0	Tr	0.18
144	1.0	Tr	0.19
145	1.0	Tr	0.15
146	1.0	Tr	Tr
147	1.0	Tr	Tr
148	1.0	Tr	Tr
149	1.0	Tr	Tr
150	1.0	Tr	Tr
151	1.0	Tr	Tr
152	1.0	Tr	Tr
153	1.0	Tr	0.24
154	1.0	Tr	0.16
155	1.0	Tr	0.36
156	1.0	Tr	0.28
157	1.0	Tr	0.13
158	1.0	Tr	Tr
159	1.0	Tr	Tr
160	1.0	Tr	Tr
161	1.0	Tr	Tr
162	1.0	Tr	Tr
163	1.0	Tr	Tr
164	1.0	Tr	Tr
165	1.0	Tr	Tr
166	1.0	Tr	Tr
167	1.0	Tr	Tr
168	1.0	Tr	Tr
169	1.0	Tr	Tr
170	1.0	Tr	Tr
171	1.0	Tr	Tr
172	1.0	Tr	Tr
173	1.0	Tr	Tr
174	1.0	Tr	Tr
175	1.0	Tr	Tr
176	1.0	Tr	0.11
177	1.0	Tr	Tr
178	1.0	Tr	0.26
179	1.0	Tr	0.31
180	1.0	0.054	4.58
181	1.0	0.042	4.07
182	1.0	Tr	0.18
183	1.0	Tr	Tr
184	1.0	Tr	Tr
185	1.0	Tr	Tr
186	1.0	Tr	Tr
187	1.0	Tr	Tr
188	1.0	Tr	Tr
189	1.0	Tr	Tr
190	1.0	Tr	Tr
191	1.0	Tr	Tr
192	1.0	Tr	0.28
193	1.0	Tr	Tr
194	1.0	Tr	Tr
195	1.0	Tr	0.46
196	1.5	Tr	0.24
197	1.0	Tr	Tr
198	1.0	Tr	Tr
199	1.0	Tr	Tr
200	1.0	Tr	Tr

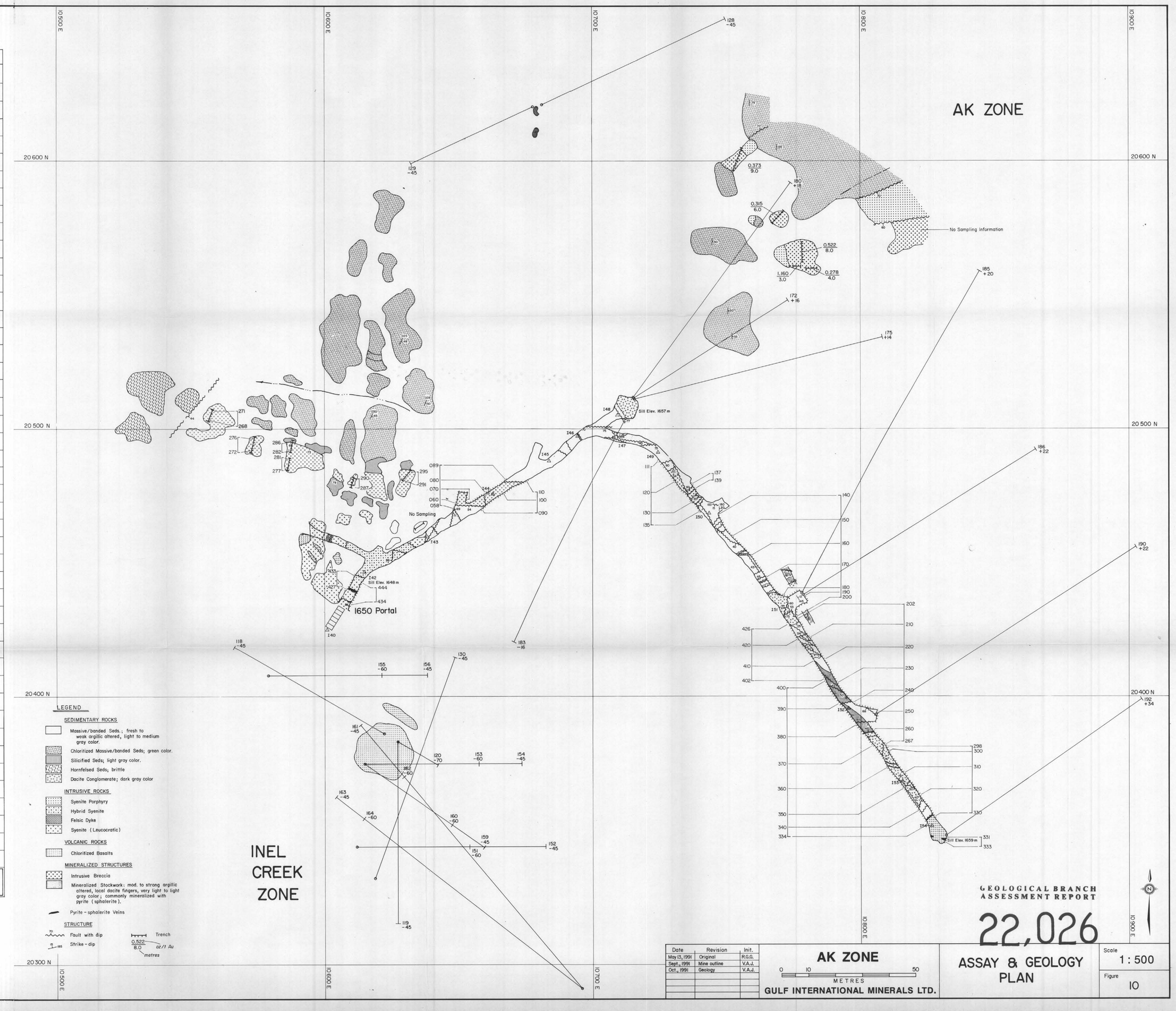
Certificate Number	Width (m)	Au oz/t	Zn %
52202	1.0	Tr	Tr
203	1.0	0.042	4.90
204	1.0	0.088	4.00
205	1.0	0.036	3.48
206	1.0	Tr	0.26
207	1.0	Tr	0.56
208	1.0	Tr	0.32
209	1.0	Tr	0.11
210	1.0	Tr	Tr
211	1.0	Tr	0.34
212	1.0	Tr	0.49
213	1.0	Tr	0.74
214	1.0	Tr	0.48
215	1.0	Tr	2.20
216	1.0	0.019	0.78
217	1.0	Tr	0.11
218	1.0	Tr	Tr
219	1.0	Tr	Tr
220	1.0	Tr	1.27
221	1.0	Tr	0.13
222	1.0	Tr	0.11
223	1.0	Tr	Tr
224	1.0	Tr	0.13
225	1.3	Tr	Tr
226	1.0	0.017	0.72
227	1.0	1.576	5.26
228	1.0	0.013	0.68
229	1.0	0.011	0.17
230	1.0	Tr	0.19
231	1.0	Tr	0.14
232	1.0	Tr	0.19
233	1.0	Tr	0.21
234	1.0	Tr	0.30
235	1.0	Tr	Tr
236	1.0	Tr	Tr
237	1.0	0.080	3.66
238	1.0	Tr	0.33
239	1.0	Tr	7.11
240	1.0	0.053	6.66
241	1.0	Tr	0.14
243	1.0	Tr	0.20
244	1.0	Tr	0.10
245	1.0	Tr	0.41
246	1.0	Tr	0.18
247	1.0	Tr	Tr
248	1.0	Tr	Tr
249	1.6	Tr	Tr
250	1.0	Tr	Tr
251	1.0	Tr	Tr
252	1.0	Tr	0.11
253	1.0	Tr	Tr
254	1.0	Tr	Tr
255	1.0	Tr	Tr
256	1.4	Tr	0.50
257	1.0	Tr	0.67
258	1.0	0.21	0.89
259	1.0	0.035	0.62
260	1.0	0.020	0.79
261	1.0	0.069	1.87
262	1.0	0.053	1.56
263	1.0	0.019	13.68
264	1.0	0.019	0.29
265	1.0	0.021	0.49
266	1.0	Tr	0.28
267	1.0	0.017	0.15
298	1.0	0.061	1.51
299	1.0	Tr	Tr
300	1.0	0.028	0.28
301	1.0	0.022	0.41
302	1.0	Tr	0.32
303	1.0	Tr	0.89
304	1.0	0.017	3.35
305	1.0	0.030	1.74
306	1.0	0.039	2.70
307	1.0	0.089	2.51
308	1.0	Tr	0.75
309	1.0	Tr	0.22
310	1.0	Tr	Tr
311	1.0	Tr	Tr
312	1.0	Tr	Tr
313	1.0	Tr	0.18
314	1.0	Tr	Tr
315	1.0	Tr	Tr
316	1.0	Tr	Tr
317	1.0	0.081	1.78
318	1.0	Tr	0.13
319	1.0	Tr	Tr
320	1.0	Tr	0.11
321	1.0	Tr	0.16
322	1.0	0.079	2.37
323	1.0	Tr	Tr
324	1.0	Tr	Tr
325	1.0	Tr	0.11
326	1.0	Tr	0.29
327	1.0	Tr	0.49
328	1.0	0.057	1.99
329	1.0	0.070	4.79
330	1.0	Tr	0.39
331	1.0	Tr	0.21
332	0.7	Tr	0.73
333	1.0	Tr	Tr
334	1.0	Tr	0.16
335	1.0	Tr	Tr
336	1.0	Tr	Tr
337	1.0	Tr	Tr
338	1.0	Tr	Tr
339	1.0	Tr	Tr
340	1.0	Tr	Tr
341	1.0	0.021	0.69
342	1.0	0.254	5.84
343	1.0	0.020	0.59
344	1.0	Tr	Tr
345	1.0	Tr	0.14
346	1.0	Tr	Tr
347	1.0	Tr	Tr
348	1.0	Tr	Tr
349	1.0	Tr	0.13
350	1.0	Tr	Tr
351	1.0	Tr	Tr
352	1.0	Tr	Tr
353	1.0	0.013	0.63
354	1.0	0.041	1.04
355	1.0	Tr	Tr
356	1.0	Tr	Tr
357	1.0	Tr	Tr
358	1.0	Tr	Tr
359	1.0	Tr	0.92
360	1.0	0.185	1.42
361	1.0	0.079	1.42
362	1.0	0.069	3.38
363	1.0	0.017	4.00
364	1.0	0.026	3.69
365	1.0	Tr	0.14
366	1.0	Tr	3.19
367	1.0	Tr	0.11
368	1.0	Tr	Tr
369	1.0	Tr	Tr
370	1.0	Tr	0.17
371	1.0	0.034	0.37
372	1.0	0.015	0.64
373	1.0	0.013	0.68
374	1.0	0.11	5.11

Certificate Number	Width (m)	Au oz/t	Zn %
52375	1.0	0.022	0.85
376	1.0	0.014	0.82
377	1.0	Tr	0.41
378	1.0	0.014	1.34
379	1.0	Tr	0.35
380	1.0	Tr	0.45
381	1.0	Tr	0.44
382	1.0	Tr	0.18
383	1.0	Tr	0.20
384	1.0	Tr	0.53
385	1.0	Tr	0.15
386	1.0	Tr	0.48
387	1.0	Tr	2.91
388	1.0	Tr	0.19
389	1.0	0.041	0.92
390	1.0	Tr	0.42
391	1.0	0.20	0.68
392	1.0	0.12	0.20
393	1.0	Tr	0.16
394	1.0	Tr	3.03
395	1.0	0.342	0.84
396	1.0	Tr	0.14
397	1.0	Tr	Tr
398	1.0	Tr	0.26
399	1.0	Tr	5.88
400	1.0	Tr	0.47
402	1.0	0.013	0.14
403	1.0	Tr	0.39
404	1.0	Tr	0.30
405	1.0	0.116	2.78
406	1.0	Tr	0.44
407	1.0	Tr	0.24
408	1.0	Tr	0.42
409	1.0	Tr	0.21
410	1.0	Tr	0.13
411	1.0	Tr	Tr
412	1.0	Tr	Tr
413	1.0	Tr	Tr
414	1.0	Tr	Tr
415	1.0	Tr	Tr
416	1.0	Tr	Tr
417	1.0	Tr	0.11
418	1.0	Tr	Tr
419	1.0	Tr	Tr
420	1.0	Tr	Tr
421	1.0	Tr	Tr
422	1.0	Tr	Tr
423	1.0	Tr	Tr
424	1.0	Tr	Tr
425	1.0	Tr	Tr
426	1.0	Tr	0.12
427	1.0	0.052	2.74
428	0.9	0.032	7.66
429	0.9	Tr	2.25
430	1.0	0.029	2.73
431	1.0	0.044	0.60
432	1.0	0.094	Tr
433	1.0	0.022	Tr
434	1.0	Tr	0.36
435	0.3	0.032	0.59
436	1.0	0.015	0.47
437	1.2	0.014	0.85
438	1.2	Tr	0.55
439	1.0	Tr	1.55
440	0.7	0.383	0.63
441	1.0	0.136	Tr
442	1.0	0.035	0.11
443	1.0	0.051	0.11
444	1.0	Tr	Tr

TRENCHES

Certificate Number	Width (m)	Au oz/t	Zn %
52268	1.0	Tr	0.20
269	1.0	Tr	0.11
270	1.0	Tr	0.11
271	1.0	Tr	Tr
272	1.0	Tr	Tr
273	1.0	Tr	Tr
274	1.0	Tr	0.18
275	1.0	Tr	Tr
276	1.4	Tr	Tr
277	1.0	Tr	Tr
278	1.0	Tr	Tr
279	1.0	Tr	0.13
280	1.0	0.013	0.16
281	1.0	Tr	0.13
282	1.0	0.014	0.20
283	1.0	Tr	0.11
284	1.0	0.011	0.15
285	1.0	0.023	0.32
286	1.0	Tr	0.12
287	1.0	Tr	0.18
288	1.0	Tr	Tr
289	1.0	Tr	Tr
290	1.0	Tr	Tr
291	1.0	Tr	Tr
292	1.0	Tr	Tr
293	1.0	Tr	Tr
294	1.0	Tr	Tr
295	1.0	Tr	0.15

NOTE
AU ≤ 0.010 oz/t = Tr
ZN ≤ 0.10 % = Tr



GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,026

Date	Revision	Init.
May 13, 1991	Original	R.G.G.
Sept., 1991	Mine outline	V.A.J.
Oct., 1991	Geology	V.A.J.

AK ZONE
0 10 50
METRES
GULF INTERNATIONAL MINERALS LTD.

ASSAY & GEOLOGY PLAN

Scale 1 : 500

Figure 10