Daiwan Engineering Ltd.
1030-609 Granville Street, Vancouver, B.C. Canada. V7Y 1G5
Phone: (604) 688-1508

ASSESSMENT REPORT

DIAMOND DRILLING

ON THE

WANN PROPERTY

NORTH VANCOUVER ISLAND, BRITISH COLUMBIA

NTS: 92L/12

Latitude: 50° 37'
Longitude: 127° 40'

For

Moraga Resources Ltd.
1507 - 1030 W. Georgia Street
Vancouver, B.C.
V6E 2Y3

By

David J. Pawliuk, P. Geol.

May 19, 1992

B:\wan02

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SUMMARY

Moraga Resources Ltd. optioned the WANN property from Acheron Resources Ltd. in May 1990. The property adjoins both the Expo property of Moraga Resources Ltd./BHP-Utah Mines Ltd. and the Apple property of BHP-Utah Mines Ltd. Both of these adjacent properties are currently being explored for porphyry copper-gold deposits.

The WANN property formed part of the Expo property until 1982, at which time it was staked by the current owner, a former BHP-Utah Mines Ltd. geologist.

The property overlies a significant airborne magnetometer anomaly, similar in size and intensity to that over the nearby Island Copper mine. Fieldwork by BHP-Utah in the 1970's identified significant copper in soils and two zones of high induced polarization chargeability adjacent to inferred intrusive dykes. These anomalies fit local models for porphyry copper-style mineralization.

Two diamond drill holes were completed in 1974 within the eastern half of the property. Both holes, though not adjacent, showed strong argillic-phyllic alteration, and thus are indicated to be within the alteration halo of a porphyry copper deposit.

1990 exploration by Moraga focused on reconnaissance soil geochemistry for assessment purposes, and the assembly of data pertaining to the property. This data fits a model of copper mineralization adjacent to a porphyry dyke system(s) in the central and northeastern parts of the property. Outcrop in these areas is sparse, however the soil geochemistry, IP and magnetometer surveying indicate significant sulphide mineralization at depth.

IP and magnetometer surveying were performed on cut lines within the west-central part of the property during early 1992 to extend the geophysical coverage present on the eastern half of the property.

A program of 1786.34 metres (5861 feet) of diamond drilling was undertaken in March and April 1992 to test for bedrock mineralization in anomalous areas of significant copper geochemical and geophysical responses. The drilling program, costing $ 222,051.54, is detailed in this report.

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INTRODUCTION

At the request of Mr. Maurice Young, President of Moraga Resources Ltd., a program of diamond drilling was completed on the WANN property. This program began on March 30 and was completed April 28, 1992.

LOCATION AND ACCESS

The WANN property is located on northern Vancouver Island, approximately 360 km (225 miles) northwest of Vancouver, British Columbia, Canada (Figure 1). This claim group, on the northern side of Holberg Inlet in N.T.S. topographic map-sheet 92L/12, consists of 15 contiguous claims (see Figure 2). Most areas of the property can be reached by well-maintained logging roads and forest tracks. The main access to the claim block is by forest road "P Main" a branch of "Wanokana Main" which commences on the outskirts of Coal Harbour.

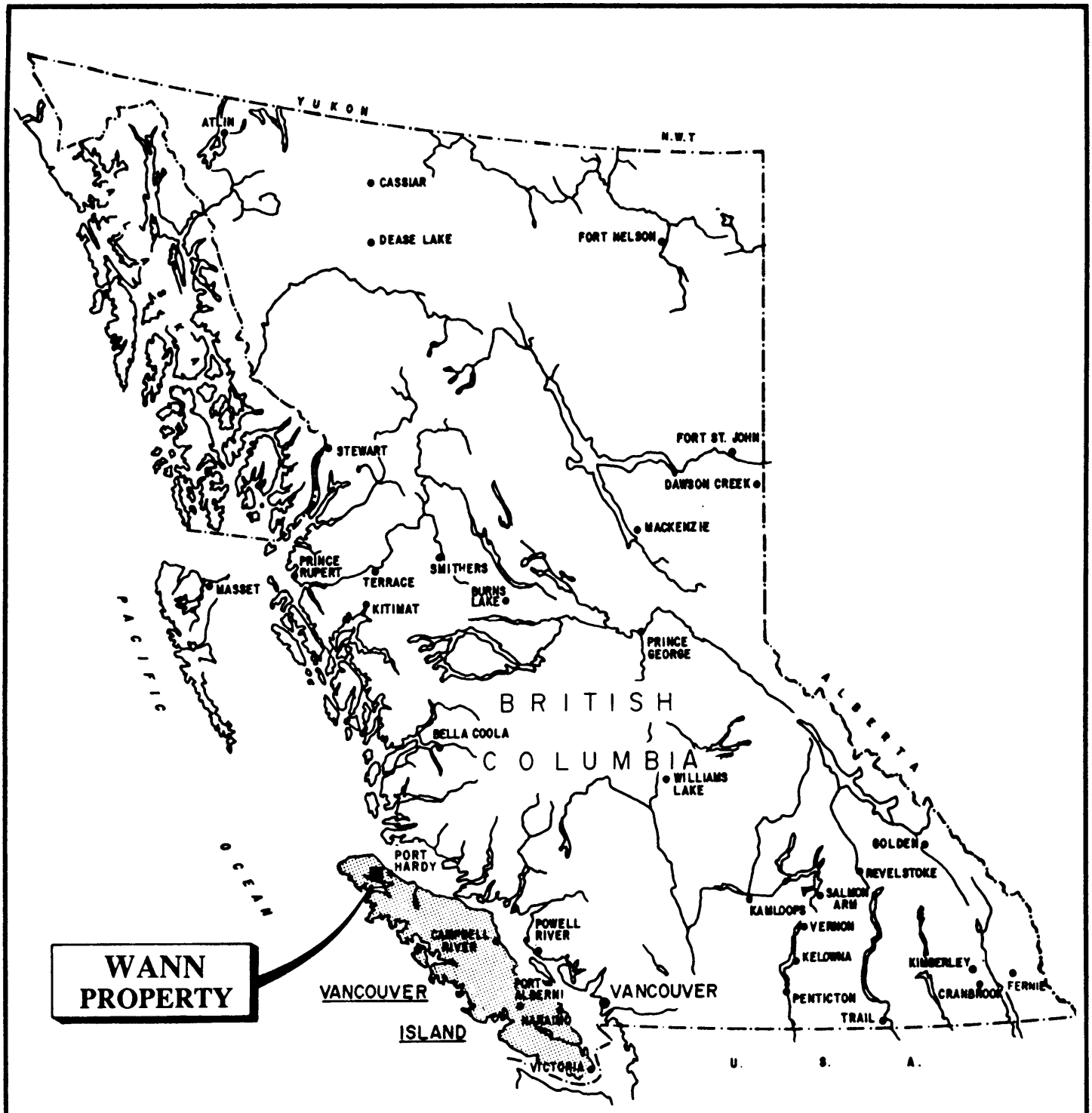
Regular airline service is provided by Time Air from Vancouver to Port Hardy on a twice daily schedule. There is also good highway access, with travel from Vancouver taking 8 hours.

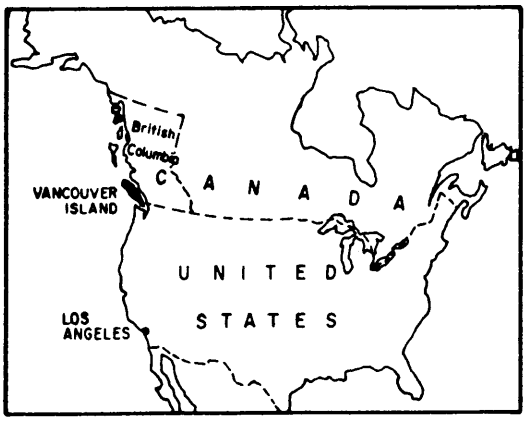
Port Hardy is the local commercial centre, and there are forestry and fishing centres at Coal Harbour and Holberg.

TOPOGRAPHY AND VEGETATION

The property is characterized by a central plateau-like area which has been deeply incised by Wanokana Creek valley and rises steeply to the north. This plateau area drops approximately 150 metres to sea level in the southern part of the property. Elevations range from sea level to over 490 metres (1,600 ft).

The claims are located within an active logging area, consequently forest cover varies from mature stands of fir, hemlock, spruce and cedar to dense second growth to large open clear-cut areas of recent logging. Low areas, especially along creeks, have thick brush and berry bushes. Wanokana and Youghpan creeks are deeply incised into the local topography. These creeks form steep-sided canyons along most of their length.





MORAGA RESOURCES LTD.

WANN PROPERTY

Northern Vancouver Island

LOCATION MAP

DAIWAN ENGINEERING LTD.

SCALE	DATE	FIG.
As Shown	May '92	1

Rock exposure is abundant in areas of high relief, and on the higher ridges. However, thick humus development on the forested and logged slopes and scattered residual glacial gravels in the valley floors restrict geological mapping in these areas to logging road cuts and to the creek gullies.

PROPERTY

The WANN property consists of the following contiguous claims:

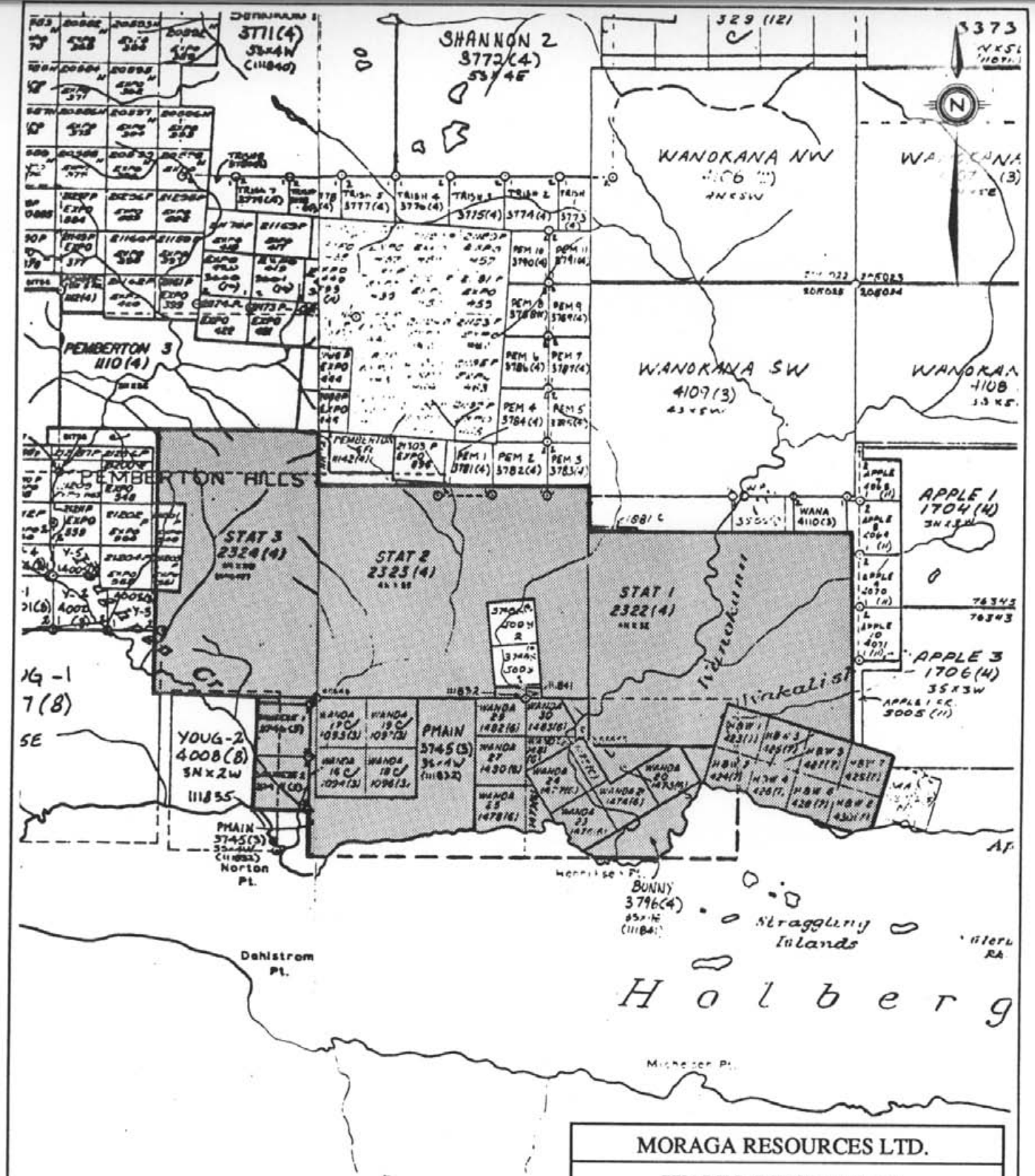
	Rec. No.	Units	Expiry	Owner
Stat 1	2322	20	14 April 99	M. Pearson
Stat 2	2323	20	14 April 99	M. Pearson
Stat 3	2324	15	14 April 99	M. Pearson
H & W 1-8	423-430	8	19 July 99	R. McBean
Bunny	3796	12	17 April 99	B. Pearson
P. Main	3745	12	15 March 96	B. Pearson
Squeeze 1	3746	1	15 March 96	B. Pearson
Squeeze 2	3747	1	15 March 96	B. Pearson
		89		

Acheron Resources Ltd. optioned the property from Western Pocasset Resources Ltd., and subsequently entered into an exploration agreement with Moraga Resources Ltd. The detail of these agreements is beyond the scope of this report. The P. Main, Squeeze and Bunny claims were staked after the signing of the exploration agreement with Acheron Resources Ltd. to cover adjacent mineralized claim blocks, and to consolidate the claim group.

The drilling program referred to in this report will be filed as assessment.

HISTORY

In 1963, the B.C. Department of Mines published the results of a recently completed aeromagnetic survey covering the northern end of Vancouver Island[2]. Since porphyry deposits were of interest at the time, considerable exploration activity was generated in the area examining all magnetic anomalies of interest.



MORAGA RESOURCES LTD.		
WANN PROPERTY Northern Vancouver Island B.C.		
CLAIM MAP		
DAIWAN ENGINEERING LTD.		
SCALE As Shown	DATE May '92	FIG. 2

One magnetic anomaly of fairly large areal extent was outlined on the eastern end of Rupert Inlet. Diligent prospecting in this area located a number of poorly exposed copper occurrences. A large number of claims were located in 1966 and subsequently the property was acquired by Utah Construction and Mining Company, now BHP-Utah Mines Ltd. Over the years, they added to the claim block and conducted extensive geological-geochemical-geophysical surveying and diamond drilling throughout the claim block. This work resulted in locating the large copper-molybdenum deposit which was developed into Island Copper Mine (Figure 4). The mine commenced production in October 1971. Production to 1987 had been in excess of 200 million tonnes milled, for concentrate sales of 753,000 tonnes of copper, 23.1 million grams gold, 168 million grams silver and 15.3 tonnes molybdenum[14].

With the discovery of significant copper mineralization on the Utah property, a great deal of interest was generated in the area by individuals and companies searching for copper. Many copper occurrences were located but none were found to be economic.

During the height of the exploration activity, Utah Mines Ltd. controlled most of the ground extending from the east end of Rupert Inlet to the west end of Holberg Inlet. Their properties included the large block of claims covering the Island Copper deposit, as well as the favourable rocks on trend to the northwest (most of the present Expo group). After exploring the area extensively to 1975, Utah dropped some of the claims; the dropped claims include the present WANN group.

BHP-Utah and Moraga Resources Ltd. have continued to develop the Hushamu copper-gold porphyry deposit which is 8 km northwest of the WANN property and along the regional geological trend.

The Hushamu deposit and the other alteration zones along a northwesterly trend from the WANN property are the targets for gold and copper exploration. The urgency for developing another copper deposit in the area is prompted by the expected closure of the Island Copper Mine in 1996 due to the exhaustion of the pit reserves.

Work on the current WANN property consisted of prospecting, mapping at 1:2400 scale, IP and magnetometer surveying and diamond drilling by Utah Mines in the late 1960's and early 1970s, when it was part of the Expo group.

Two diamond drill holes were completed 950 metres apart within the eastern half of the property in 1974. Rock cored in both holes shows strong argillic-phyllic alteration, and thus the area is indicated to be within the alteration halo of a porphyry copper deposit.

In late 1982 the claims lapsed and Mr. B. Pearson, a former Utah Mines Ltd. geologist, staked the property. He has maintained the claims by limited geological prospecting of the areas surrounding the anomalies found by Utah Mines Ltd.

In 1987 Searchlight Resources Ltd., on behalf of Rochester Minerals Ltd., conducted reconnaissance sediment sampling on the property to locate epithermal-type gold mineralization. Three zones of significant gold mineralization were identified from the program.

Since 1984 the majority of the property has been clear cut logged, providing excellent access and several road cut exposures and pits which reveal the extensive zones of clay and silica alteration.

1990 exploration by Moraga Resources Ltd. focused on reconnaissance soil geochemistry for assessment purposes, and the assembly of data pertaining to the property. This data fits a model of copper mineralization adjacent to a porphyry dyke system(s) in the central and northeastern parts of the property.

IP and magnetometer surveying were performed on cut lines within the west-central part of the property during early 1992 to extend the existing geophysical coverage on the property[35]. This work aided in spotting drill holes for the latest diamond drill program.

REGIONAL GEOLOGY

Vancouver Island north of Holberg and Rupert inlets is underlain by rocks of the Vancouver Group. These rocks range in age from Upper Triassic to Lower Jurassic. They are intruded by rocks of Jurassic and Tertiary age and are disconformably overlain by Cretaceous sedimentary rocks. Figure 3 shows the geological map of the northern part of the island.

Faulting is prevalent in the area. Large-scale block faults with hundreds to thousands of metres of displacement are offset by younger strike-slip faults with displacements up to 750 metres (2,500 feet).

The Vancouver Group is composed as follows[6]:

(a) Basal Sediment - Sill Unit: Middle and Upper Triassic Age

(b) Karmutsen Formation: Upper Triassic Age

(c) Quatsino Formation: Upper Triassic Age

(d) Parson Bay Formation: Upper Triassic Age

(e) Harbledown Formation: Lower Jurassic Age

(f) Bonanza Formation: Lower Jurassic Age

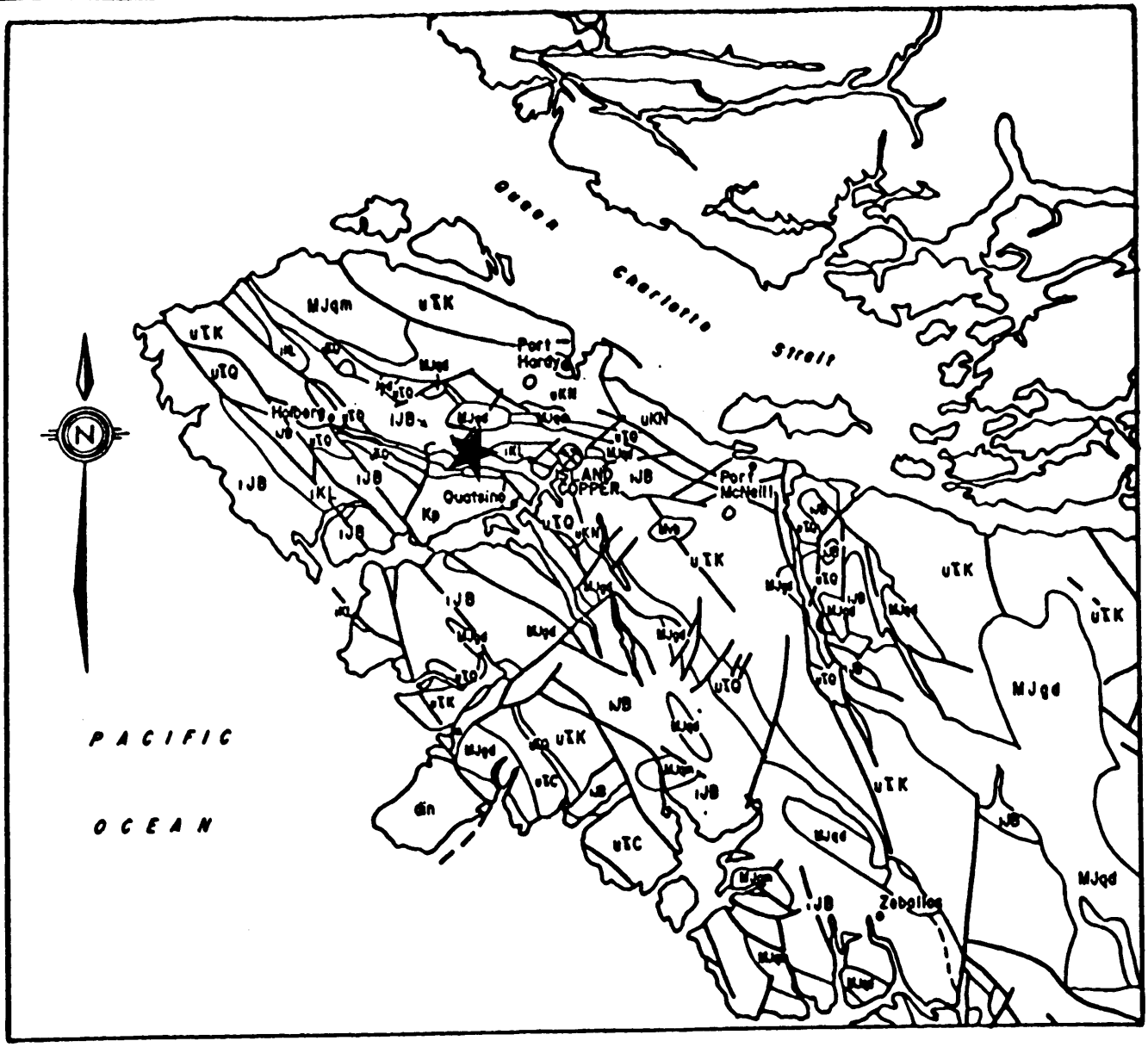
Cretaceous Sediments

The Vancouver Group is unconformably overlain by non-marine Cretaceous sediments of the Longarm Formation which are estimated to be about 300 metres (1,000 feet) thick in the Port Hardy area. These sediments consist of conglomerate, sandstone, greywacke, siltstone and some carbonaceous and impure coal seams; the sediments occupy local basins. Early coal mining in the district was from several of these basins.

Intrusive Rocks

The Vancouver Group rocks are intruded by a number of Jurassic-aged stocks and batholiths. In the Holberg Inlet area a belt of northwest-trending stocks extend from the east end of Rupert Inlet to the mouth of Stranby River on the north coast of Vancouver Island[15].

Quartz-feldspar porphyry dykes and irregular bodies occur along the south edge of this belt of stocks. Dykes are characterized by coarse grained, subhedral quartz and plagioclase phenocrysts set in a pink, very fine grained, quartz and feldspar matrix. They are commonly extensively altered and pyritized. At Island Copper Mine, these porphyries are enveloped by altered, brecciated and mineralized Bonanza Formation wallrocks. Where they have been brecciated the porphyries are also cut by quartz veins, pyritized, extensively altered, and are mineralized. The quartz-feldspar porphyries are thought to be differentiates of middle Jurassic felsic intrusive rocks.



LEGEND

MIOCENE
- Mvb basalt flows,sills and dykes

UPPER CRETACEOUS, PALEOCENE,EOCENE
- Kp QUEEN CHARLOTTE GROUP: siltstone,shale,greywacke

UPPER CRETACEOUS
- uKN NANAIMO GROUP: sandstone,shale,conglomerate

LOWER CRETACEOUS
- iKL LONGARM:greywacke,conglomerate

JURASSIC
- Jgd granodiorite,quartz diorite

MIDDLE JURASSIC
- MJqm quartz monzonite,granite,monzonite
- MJgd granodiorite
- MJqd quartz diorite

LOWER JURASSIC
- IJB BONANZA;andesite,dacite,rhyolite

UPPER TRIASSIC
- uTQ QUATSINO and PARSON BAY: limestone,argillite
- uTK KARMUTSEN:basalt, pillow lava

SCALE

0 25 50

kilometers

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WANN PROPERTY
Nanaimo Mining Division

REGIONAL GEOLOGY MAP

DAIWAN ENGINEERING LTD.

SCALE	DATE	FIG.
As shown	May '92	3

Other intrusive rocks of lesser significance include felsic dykes and sills around the margins of some intrusive stocks; dykes of andesitic composition, which cut the Karmutsen, Quatsino and Parson Bay formations, and represent feeders for Bonanza volcanism; and Tertiary basalt-dacite dykes intruding Cretaceous sediments.

Structure

The rocks north of Holberg and Rupert inlets are folded into shallow synclines along northwesterly fold axes. The steeper southwesterly limbs of these folds have apparently been truncated by faults roughly parallel to the fold axes. Failure of limestone during folding may have influenced the location of some of the faults as indicated by the proximity of the Dawson and Stranby River faults to the Quatsino Formation limestone. Transverse faulting is pronounced and manifested by numerous north and northeasterly trending faults and topographic lineaments (Figure 3).

The northeasterly trending faults comprise a subordinate fault system. In some cases, apparent lateral displacement in the order of several hundred metres can be measured on certain horizons. Movement, however, could be entirely vertical with the apparent offset resulting from the regional dip of the beds.

Recent computer modelling of the airborne magnetometer data has provided a very clear understanding of the relationship of secondary conjugate sets of northeast and northwesterly faults related to the major west-northwest trending breaks[7]. These conjugate fault sets appear to be directly related to the significant mineralization at the Island Copper, Hushamu, Hep and Red Dog copper/gold deposits, and are present on the WANN property.

Generally, regional dip of the bedding is gentle to moderate southwesterly. West of Holberg dips are locally much steeper in close proximity to major faults. There is little folding or flexuring of bedding visible except along loci of major faults where it is particularly conspicuous in thinly bedded sediments of lower Bonanza Formation. Bedding is generally inconspicuous in massive beds of Karmutsen, Quatsino and Bonanza formation rocks, particularly inland where outcrop exposure is limited.

REGIONAL MINERALIZATION

A number of types of mineral occurrences are known on northern Vancouver Island (Figure 4). These include:

1. Skarn deposits: copper-iron and lead-zinc skarns

2. Copper in mafic volcanic rocks (Karmutsen): in amygdules, fractures, small shears and quartz-carbonate veins, with no apparent relationship to intrusive activity

3. Veins: with gold and/or base metal sulphides, related to intrusive rocks

4. Porphyry copper deposits: largely in the country rock surrounding or enveloping granitic rocks and their porphyritic phases.

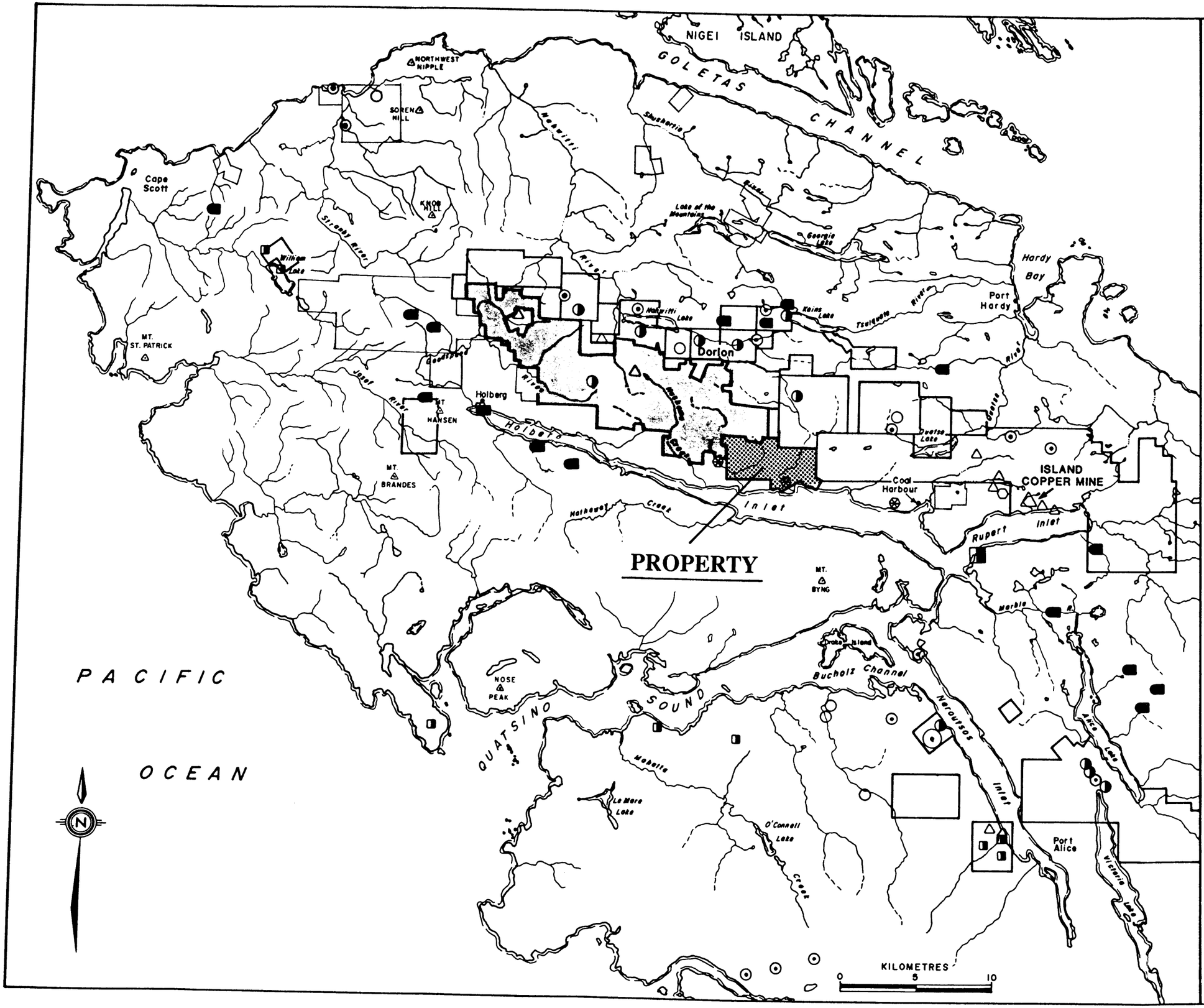
PROPERTY GEOLOGY

The property is underlain by Bonanza Formation volcanics which are intruded by stocks of quartz monzonite or diorite, and bounded on the southwest side by a major zone of hot spring(?) silica deposits with associated bedded pyrite horizons and re-mobilized pyrite in veins. A large portion of the central part of the property is low-lying and covered by thick overburden. A summarized geological map (Figure 5) has been prepared for this report from 1:2400 and 1:2500 scale base maps.

There are large alteration zones: silica and pyrite replacement in the volcanics, and clay alteration alongside highly silicified zones in volcanics, the intrusive to the north, and in Wanokana Creek canyon. The rock alteration is typical of zonation (phyllic) within a porphyry copper system, with further imprints of late epithermal re-mobilization.

DRILL PROGRAM

The drill program was performed using a Longyear 38 diamond drill with NQ and HQ wireline equipment between March 30 and April 28, 1992. It consisted of 1786.34 metres (5,861 feet) in fourteen holes.



LEGEND

- Bog Iron
- Potassium-alumina
- Porphyry copper
- Gold quartz veins
- Copper-bearing veins
- Lead-zinc skarn or replacement in limestone
- Copper skarn
- Iron skarn
- Copper in volcanics
- Mineral occurrence
- Properties recording production

(Data from British Columbia Department of Mines and Petroleum Resources, mineral inventory maps and cards; by E.V. Jackson and G.E.P. Eastwood)

- Current Mineral Titles

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WANN PROPERTY
Nanaimo Mining Division

REGIONAL MINERALIZATION OF NORTHERN VANCOUVER ISLAND

DAIWAN ENGINEERING LTD.

SCALE	DATE	FIG.6
1:250,000	May '92	4

The drilling information is summarized in Table 1. Drill hole locations are shown on Figure 5. The drill core analytical certificates form Appendix 1; drill hole logs form Appendix 2. The core is stored at central Wann property, at the southern end of a spur road branching off of logging road P500.

The split core samples were shipped by bus to Chemex Labs Ltd. at North Vancouver, B.C. The samples were ground to minus 80 mesh then 0.500 gm was digested in 3 ml of 3-2-1 HCl-HNO3-H2O at 95° for one hour. This solution is then diluted to 10 ml with water and analyzed by ICP methods for nine or thirty-two elements. Gold analysis was by fire assay and atomic absorption using a 10 gm sample.

Summary of Diamond Drill Holes

Hole	Inclination	Azimuth	Depth	Co-ordinates*
W-92-1	-90	-	166.72	225977/262049
W-92-2	-90	-	79.85	230204/254661
W-92-3	-90	-	163.97	225959/255486
W-92-4	-90	-	105.76	227486/262033
W-92-5	-90	-	146.60	228424/262082
W-92-6	-50	181	29.26	225555/269105
W-92-7	-90	-	78.33	227058/265918
W-92-8	-60	180	221.27	228852/261554
W-92-9	-60	180	108.50	228585/265841
W-92-10	-90	-	199.94	230190/254586
W-92-11	-60	180	113.08	228802/267186
W-92-12	-90	-	134.41	228697/258926
W-92-13	-60	180	117.65	228661/261014
W-92-14	-60	176	121.00	229004/268544
		TOTAL	1786.34 m (5861 ft)	

* Co-ordinates from Western Forest Products Imperial grid.

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DISCUSSION OF RESULTS

No economic grades of copper mineralization were encountered in any of the drill holes although visible chalcopyrite occurs in eleven of the fourteen holes. The analytical results indicate lower copper concentrations than the visual grade estimates made during core logging.

The inferred economic copper mineralization within the property area may be located east and northeast of drill holes W-92-5 and -8. This area is characterized by broad, easterly trending magnetic highs and is near the presumed contact between altered andesitic rocks and intrusive diorite.

Another area that remains to be tested is the westerly trending linear magnetic high between holes W-92-4 and -12, although the southern edge of this feature was penetrated by 1990 reverse circulation drill hole T.

The area of intensely clay altered, white, siliceous volcanic rock at southeastern Wann property also warrants attention because of the presence of up to 2.3 % copper within the area.

CONCLUSIONS

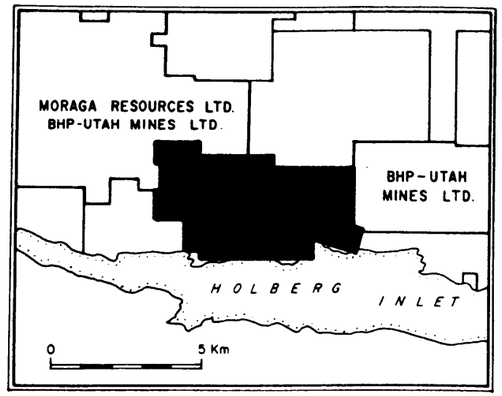
1. The diamond drill program was not successful in defining economic grades of copper mineralization although chalcopyrite was seen in eleven of the fourteen holes.

2. Pyritic (quartz) feldspar porphyry dykes intrude siliceous breccia and tuff in holes W-92-2 and -10 at northwestern Wann property. A BHP-Utah diamond drill hole approximately 700 m to the west intersected copper-bearing pyritic polylithic breccia/tuff below the silica capping.

3. Chalcopyrite occurs near the contact between silicified, chloritized and biotite-altered diorite and andesite at north central Wann property in diamond drill hole W-92-8. The alteration minerals seen in the core from this hole are identical to those seen at the Island Copper and Hushamu deposits.

4. Chalcopyrite occurs in magnetite-pyrite veins within diorite from hole W-92-14, 150 m southwest of hole W-92-8.

5. A moderately to intensely silicified andesite breccia within hole W-92-5 locally contains moderate amounts of chlorite, and up to 20 % pyrite both finely disseminated and as lenticular masses. This rock is similar to that which overlies much of the mineralized zone at the Hushamu deposit.



Intrusives
Volcanics
Silica Cap
Road
Int
EC 156
W-92-10
W-92-2
W-92-12
W-92-14
W-92-8
W92-5
W-92-4
W-92-3
W-92-1
W-92-7
W-92-9
W-92-11
W-92-13
W-92-6
EC-72
EC 71
EC-45
EC 44
EC 49
EC 42,46
EC 50
EC 43
EC 47,48
T
G
H
C
E
J
K
L
M
N
O
P
Q
R
S
V
U
Intrusive
227000 N
255000
272000
Property Boundary
Holberg Inlet

LEGEND

- Geological Contact
- W-92-2 ⊙ 1992 Drill Hole
- M ● 1990 Drill Hole
- EC 71 ⊙ Utah Drill Hole

NORTHERN VANCOUVER ISLAND, BRITISH COLUMBIA

Scale in Kilometres
0 1

MORAGA RESOURCES LTD.		
WANN PROPERTY Nanaimo Mining Division, B.C.		
PROPERTY GEOLOGY & DRILL HOLE LOCATIONS		
DAIWAN ENGINEERING LTD.		
SCALE: As Shown	DATE: May '92	FIG. 5

6. Sparse chalcopyrite occurs within andesite and diorite in diamond drill holes W-92-9, -11 and -13 at northeastern Wann property. There is enough magnetite within the cores from these holes to explain the magnetic anomalies tested by the drill holes.

RECOMMENDATIONS

1. Further drilling should be performed across the magnetic highs east and northeast of drill holes W-92-5 and -8 to follow-up on the chalcopyrite mineralization within altered, magnetite-bearing rocks in drill hole -8. The magnetic anomalies coincide with the presumed location of the contact between the dioritic intrusive rock to the north and the altered andesitic volcanic rocks to the south.

2. Further diamond drill holes should be attempted across the westerly trending magnetic high between holes W-92-4 and -12. Reverse circulation drill hole T only tested the southern edge of this large feature.

3. Detailed magnetometer surveying should be carried out east of Wanokana Creek north and east of the dumortierite showing. This should extend across to the large IP anomaly.

4. Further diamond drilling should be used to evaluate the mineralization under the northeast silica cap.

5. Diamond drilling could also be done to evaluate the area of intensely clay-altered and siliceous volcanic rock containing significant copper in the southeastern corner of the Wann property.

STATEMENT OF COSTS

The following expenses were incurred on the WANN project to complete the diamond drill program:

Personnel		
P. Dasler - Manager - 14.35 days @ $380/day	$ 5,453.00	
L. Allen - Site Prep. - 7 days @ $260/day	1,820.00	
D. Pawliuk - Geologist - 60.4 days @ $340/day	20,536.00	
G. McGilvray - Geologist - 31.5 days @ $260/day	8,190.00	
S. Oakley - Coresplitter - 39 days @ $260/day	10,140.00	
T. Sheridan - Drafting - 9.85 Days @ $220/day	2,167.00	
		$ 48,306.00
Field Costs		
Food and Accommodation - 90 man-days @ $33.48/day		$ 3,013.30
Field Supplies		737.58
Equipment Rental - radios		1,045.00
Vehicles - 2 4x4's - 30 days @ $83.45/day		5,007.30
Airline		348.12
Drafting - supplies		171.61
Office/Secretarial - report		91.85
Telephone		406.40
Analyses		7,536.10
Miscellaneous		63.89
Hiab Truck		908.74
Drilling Cost (including mobilization)		131,001.63
Helicopter		7,090.23
Disbursement Fee		1,797.05
GST		14,526.74
TOTAL		**$222,051.54**

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CERTIFICATE OF QUALIFICATIONS

I, David J. Pawliuk, do hereby certify that:

1. I am a geologist for Daiwan Engineering Ltd. with offices at 1030-609 Granville Street, Vancouver, British Columbia.

2. I am a graduate of the University of Alberta, Edmonton, Alberta with a degree of B.Sc., Geology.

3. I am a member, in good standing, of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.

4. I have practised my profession continuously since 1975.

5. This report is based upon my personal fieldwork including supervision of the diamond drilling program, geological logging of two of the drill holes, and upon reports of others working in the area.

6. I have no interest, either direct or indirect, nor do I expect to receive any such interest, in the properties or securities of Moraga Resources Ltd.

7. This report has been prepared for British Columbia Ministry of Energy, Mines and Petroleum Resources assessment purposes only.

David J. Pawliuk, B.Sc., P.Geol.
May 19, 1992

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APPENDIX I

GEOCHEMICAL ANALYSIS CERTIFICATES

Chemex Labs Ltd.

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

To: JORDEX RESOURCES INC.
ATTN: MOE YOUNG
1507 - 1030 W. GEORGIA ST.
VANCOUVER, BC
V6E 2Y3

Project : WANN-1
Comments: CC: DAIWAN ENGINEERING

Page Number :1
Total Pages :1
Certificate Date: 10-APR-92
Invoice No. :I9213035
P.O. Number :
Account :EEP

CERTIFICATE OF ANALYSIS A9213035

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
79101	205	274	< 5	< 0.5	13	38	4.93	1085	< 1	6	5	68
79102	205	274	< 5	< 0.5	14	34	5.70	580	< 1	6	5	78
79103	205	274	15	< 0.5	15	32	4.96	525	< 1	7	< 5	90
79104	205	274	< 5	< 0.5	19	52	5.86	120	< 1	8	5	48
79105	205	274	< 5	< 0.5	17	75	4.46	125	< 1	9	10	8
79106	205	274	< 5	< 0.5	15	38	5.77	15	< 1	6	5	72
79107	205	274	< 5	< 0.5	16	41	5.67	190	< 1	8	5	56
79108	205	274	< 5	< 0.5	13	34	4.52	695	< 1	5	< 5	58
79109	205	274	< 5	< 0.5	15	37	4.20	840	< 1	6	< 5	56
79110	205	274	< 5	< 0.5	13	31	4.14	740	< 1	6	< 5	54
79111	205	274	< 5	< 0.5	16	33	4.57	965	< 1	7	< 5	82
79112	205	274	< 5	< 0.5	17	37	4.82	855	< 1	6	< 5	64
79113	205	274	< 5	< 0.5	13	41	4.52	600	1	7	< 5	60
79114	205	274	< 5	< 0.5	15	36	4.39	1360	< 1	6	< 5	76
79115	205	274	< 5	< 0.5	14	34	4.31	1380	< 1	5	< 5	54
79116	205	274	< 5	< 0.5	17	37	4.24	905	1	5	5	72
79117	205	274	< 5	< 0.5	18	42	5.11	195	< 1	7	5	80
79118	205	274	< 5	< 0.5	16	38	4.63	310	< 1	7	5	68
79119	205	274	< 5	< 0.5	14	42	4.29	710	< 1	7	< 5	84
79120	205	274	< 5	< 0.5	17	33	4.52	1575	< 1	8	< 5	86
79121	205	274	< 5	< 0.5	14	21	4.34	1325	< 1	6	< 5	90
79122	205	274	< 5	< 0.5	14	30	4.15	1360	< 1	5	< 5	76
79123	205	274	< 5	< 0.5	15	34	3.93	1605	< 1	7	< 5	84
79124	205	274	< 5	< 0.5	16	30	4.41	1495	< 1	6	< 5	74

CERTIFICATION: Jhai D Ma

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To: JORDEX RESOURCES INC.
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V6E 2Y3

Project : WANN-2
Comments: CC: DAIWAN ENGINEERING LTD.

Page Number :1
Total Pages :1
Certificate Date: 15-APR
Invoice No. :I921310
P.O. Number :
Account :EEP

CERTIFICATE OF ANALYSIS A9213107

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
79125	205 274	< 5	< 0.5	15	31	3.76	1720	< 1	9	< 2	58
79126	205 274	< 5	< 0.5	17	34	4.67	1515	< 1	11	< 2	78
79127	205 274	< 5	< 0.5	19	38	5.45	345	< 1	10	2	212
79128	205 274	< 5	< 0.5	23	49	6.02	50	1	13	4	54
79129	205 274	< 5	< 0.5	19	38	5.64	235	1	8	2	150
79130	205 274	< 5	< 0.5	17	36	5.26	1035	< 1	7	< 2	102
79131	205 274	< 5	< 0.5	17	25	4.45	1650	< 1	6	4	84
79132	205 274	< 5	< 0.5	17	26	4.78	1490	< 1	8	< 2	180
79133	205 274	< 5	< 0.5	19	32	5.35	905	< 1	6	2	148
79134	205 274	< 5	< 0.5	20	41	5.92	405	1	9	< 2	54
79135	205 274	< 5	< 0.5	28	46	5.53	210	1	35	< 2	42
79136	205 274	< 5	< 0.5	24	45	6.01	360	1	28	< 2	92
79137	205 274	< 5	< 0.5	19	50	5.32	1215	1	21	< 2	224
79138	205 274	< 5	< 0.5	22	55	5.49	635	1	28	< 2	184
79139	205 274	< 5	< 0.5	24	65	6.43	1990	< 1	49	< 2	204
79140	205 274	< 5	< 0.5	31	69	7.61	820	< 1	68	6	156
79141	205 274	< 5	< 0.5	23	50	4.95	2900	< 1	47	2	158
79142	205 274	< 5	< 0.5	23	48	4.18	2320	< 1	45	< 2	116
79143	205 274	< 5	< 0.5	22	49	4.52	2900	< 1	48	< 2	122
79144	205 274	< 5	< 0.5	27	51	5.81	625	< 1	43	< 2	68
79145	205 274	< 5	< 0.5	22	44	4.64	1020	1	41	< 2	46
79146	205 274	< 5	< 0.5	23	98	5.84	470	< 1	28	< 2	114
79147	205 274	< 5	< 0.5	24	56	5.65	2580	< 1	13	< 2	212
79148	205 274	< 5	< 0.5	23	53	4.49	495	1	14	< 2	74
79149	205 274	< 5	< 0.5	28	37	4.90	75	1	26	2	46
79150	205 274	< 5	< 0.5	20	38	5.40	735	2	12	< 2	104
79901	205 274	< 5	< 0.5	23	46	5.92	1020	1	15	< 2	106
79902	205 274	< 5	< 0.5	23	46	7.00	380	2	11	< 2	106

CERTIFICATION: Jhai D'Ma

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Project : WANN-3
Comments: CC: DAIWAN ENGINEERING LTD.

Page Number :1
Total Pages :1
Certificate Date: 15-APR-9
Invoice No. :I9213106
P.O. Number :
Account :EEP

CERTIFICATE OF ANALYSIS A9213106

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
79903	205 274	25	< 0.5	18	147	5.23	75	6	16	4	20
79904	205 274	10	< 0.5	7	38	4.42	5	14	10	14	6
79905	205 274	< 5	< 0.5	< 1	14	1.56	10	4	2	22	2
79906	205 274	< 5	< 0.5	< 1	60	9.79	15	8	4	16	16
79907	205 274	< 5	< 0.5	< 1	68	7.19	15	5	5	20	12
79908	205 274	< 5	< 0.5	< 1	46	6.67	10	7	3	6	10
79909	205 274	5	< 0.5	21	107	5.61	100	4	24	8	38
79910	205 274	10	< 0.5	24	136	6.14	615	5	24	12	124
79911	205 274	< 5	< 0.5	21	215	6.26	85	16	9	10	126
79912	205 274	< 5	< 0.5	19	121	5.53	1600	3	15	10	90
79913	205 274	10	< 0.5	22	98	5.96	495	1	14	10	112
79914	205 274	< 5	< 0.5	23	95	6.36	75	1	15	18	114
79915	205 274	< 5	< 0.5	18	77	4.24	40	2	10	28	84
79916	205 274	< 5	< 0.5	14	117	2.94	5	8	6	14	8
79917	205 274	10	< 0.5	10	187	1.77	5	26	8	8	6
79918	205 274	< 5	< 0.5	21	48	6.59	10	9	17	16	8

CERTIFICATION: Thai D Ma

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To: JORDEX RESOURCES INC.
ATTN: MOE YOUNG
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Project : WANN-4
Comments: CC: DAIWAN ENGINEERING LTD.

Page Number :1
Total Pages :1
Certificate Date: 15-APR-
Invoice No. :I921316
P.O. Number :
Account :EEP

CERTIFICATE OF ANALYSIS A9213166

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
79919	205	274	< 5	< 0.5	17	91	5.64	10	4	8	4	8
79920	205	274	< 5	< 0.5	20	169	5.76	220	2	13	4	38
79921	205	274	< 5	< 0.5	17	76	5.42	10	2	9	< 2	24

CERTIFICATION: Jhai D'Ma

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Project : WANN-4
Comments: CC: DAIWAN ENGINEERING LTD.

Page Number :1-A
Total Pages :1
Certificate Date: 15-APR-9
Invoice No. :19213167
P.O. Number :NONE
Account :EEP

CERTIFICATE OF ANALYSIS A9213167

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
79922	205	274	< 5	< 0.2	2.26	5	70	< 0.5	< 2	1.28	< 0.5	17	89	103	3.74	< 10	< 1	0.09	< 10	1.37	460
79923	205	274	< 5	< 0.2	2.54	10	80	< 0.5	< 2	1.56	< 0.5	15	56	63	3.56	< 10	2	0.10	< 10	1.12	480
79924	205	274	< 5	< 0.2	2.38	10	100	< 0.5	< 2	1.99	< 0.5	20	46	37	5.07	< 10	2	0.07	< 10	1.21	730
79925	205	274	< 5	0.2	3.62	5	70	< 0.5	< 2	3.05	< 0.5	23	82	138	5.26	< 10	2	0.13	< 10	1.97	580
79926	205	274	< 5	< 0.2	3.32	10	80	< 0.5	< 2	3.40	< 0.5	20	49	59	4.63	< 10	1	0.15	< 10	1.24	790
79927	205	274	< 5	< 0.2	4.51	< 5	260	< 0.5	< 2	2.71	< 0.5	17	16	53	4.21	< 10	1	0.34	< 10	1.58	1620
79928	205	274	< 5	0.2	4.35	< 5	90	< 0.5	< 2	2.23	< 0.5	14	19	53	4.07	< 10	2	0.27	10	1.39	1405
79929	205	274	< 5	< 0.2	5.39	5	100	2.5	< 2	1.82	5.0	15	9	70	3.26	< 10	1	0.66	< 10	0.98	765
79930	205	274	< 5	< 0.2	2.25	5	160	1.0	< 2	1.05	2.5	35	13	58	4.02	< 10	6	0.31	< 10	0.32	180
79931	205	274	< 5	< 0.2	3.73	< 5	130	0.5	< 2	1.41	1.0	25	16	72	4.96	< 10	< 1	0.50	10	0.70	275
79932	205	274	< 5	< 0.2	3.07	5	80	< 0.5	< 2	3.17	< 0.5	27	15	77	5.17	< 10	< 1	0.28	< 10	1.02	805
79933	205	274	< 5	< 0.2	3.26	10	100	< 0.5	< 2	2.35	< 0.5	41	13	254	6.56	< 10	3	0.27	< 10	0.90	465
79934	205	274	< 5	< 0.2	3.62	25	130	< 0.5	< 2	1.43	< 0.5	74	17	388	4.99	< 10	1	0.34	10	0.81	300
79935	205	274	< 5	< 0.2	4.08	25	90	< 0.5	< 2	1.34	< 0.5	48	35	105	8.84	< 10	1	0.53	< 10	0.64	270
79936	205	274	< 5	< 0.2	4.06	5	260	< 0.5	< 2	1.95	< 0.5	33	101	72	5.83	< 10	< 1	0.24	< 10	2.46	1245
79937	205	274	< 5	< 0.2	3.69	5	70	< 0.5	< 2	2.44	< 0.5	32	125	79	5.73	< 10	< 1	0.11	< 10	2.85	1525
79938	205	274	< 5	< 0.2	3.56	< 5	50	< 0.5	< 2	2.36	< 0.5	27	111	61	5.18	< 10	< 1	0.05	< 10	2.48	1345
79939	205	274	< 5	0.2	3.90	< 5	40	< 0.5	< 2	2.35	< 0.5	26	104	89	5.60	< 10	< 1	0.01	< 10	3.04	1715
79940	205	274	< 5	< 0.2	3.98	< 5	50	< 0.5	< 2	3.19	< 0.5	35	81	98	6.98	< 10	1	0.21	< 10	2.46	1445
79941	205	274	< 5	0.2	3.34	10	110	< 0.5	< 2	1.43	< 0.5	45	38	125	8.75	< 10	< 1	0.31	< 10	1.25	670
79942	205	274	< 5	0.2	4.68	< 5	180	< 0.5	< 2	1.22	< 0.5	40	25	142	6.26	< 10	< 1	0.34	< 10	1.57	790
79943	205	274	< 5	0.2	3.97	< 5	80	< 0.5	< 2	1.21	< 0.5	38	38	126	9.82	< 10	2	0.24	< 10	0.86	490
79944	205	274	< 5	0.2	3.41	< 5	80	< 0.5	< 2	0.70	< 0.5	25	21	97	8.03	< 10	1	0.08	< 10	0.39	165
79945	205	274	< 5	< 0.2	4.31	5	90	< 0.5	< 2	1.05	< 0.5	26	21	91	7.34	< 10	1	0.16	< 10	0.79	220
79946	205	274	< 5	0.2	5.44	< 5	120	< 0.5	< 2	2.73	< 0.5	25	25	91	5.55	< 10	< 1	0.24	< 10	1.66	985
79947	205	274	< 5	< 0.2	5.00	< 5	180	< 0.5	< 2	2.40	< 0.5	16	13	95	5.36	< 10	< 1	0.26	< 10	1.42	925
79948	205	274	< 5	< 0.2	3.92	< 5	100	< 0.5	< 2	1.82	< 0.5	10	11	117	5.71	< 10	< 1	0.18	< 10	1.05	475
79949	205	274	< 5	< 0.2	3.62	5	90	< 0.5	< 2	1.82	< 0.5	14	27	121	6.73	< 10	< 1	0.28	< 10	0.90	530

CERTIFICATION: Jhai D Ma

Chemex Labs Ltd.

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To: JORDEX RESOURCES INC.
ATTN: MOE YOUNG
1507 - 1030 W. GEORGIA ST.
VANCOUVER, BC
V6E 2Y3

Project : WANN-4
Comments: CC: DAIWAN ENGINEERING LTD.

Certificate Date: 15-APR-
Invoice No. :I921316
P.O. Number :NONE
Account :EEP

CERTIFICATE OF ANALYSIS A9213167

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
79922	205	274	< 1	0.16	36	790	< 2	< 5	4	66	0.24	< 10	< 10	105	< 10	54
79923	205	274	< 1	0.23	25	690	< 2	< 5	3	73	0.21	< 10	< 10	119	< 10	48
79924	205	274	1	0.15	19	930	< 2	< 5	8	61	0.40	< 10	< 10	125	< 10	60
79925	205	274	< 1	0.34	50	840	< 2	< 5	7	125	0.46	< 10	< 10	162	< 10	64
79926	205	274	1	0.17	17	700	< 2	< 5	8	94	0.29	< 10	< 10	122	< 10	56
79927	205	274	1	0.26	8	800	6	< 5	11	134	0.13	< 10	< 10	97	< 10	64
79928	205	274	< 1	0.30	10	820	< 2	< 5	10	138	0.11	< 10	< 10	85	< 10	62
79929	205	274	1	0.26	6	830	22	5	10	171	< 0.01	< 10	< 10	71	< 10	64
79930	205	274	2	0.09	13	870	32	< 5	9	120	< 0.01	< 10	< 10	59	< 10	54
79931	205	274	< 1	0.13	10	700	14	< 5	15	170	< 0.01	< 10	< 10	80	< 10	74
79932	205	274	< 1	0.17	12	730	6	< 5	13	130	< 0.01	< 10	< 10	98	< 10	56
79933	205	274	< 1	0.15	12	670	10	< 5	11	169	< 0.01	< 10	< 10	65	< 10	78
79934	205	274	2	0.15	34	1040	12	< 5	15	174	< 0.01	< 10	< 10	72	< 10	76
79935	205	274	< 1	0.14	44	960	8	< 5	16	165	< 0.01	< 10	< 10	80	< 10	82
79936	205	274	< 1	0.14	60	760	< 2	< 5	20	104	0.01	< 10	< 10	160	< 10	58
79937	205	274	< 1	0.27	55	780	< 2	< 5	22	85	0.28	< 10	< 10	193	< 10	64
79938	205	274	< 1	0.29	53	710	2	< 5	18	98	0.32	< 10	< 10	178	< 10	62
79939	205	274	< 1	0.27	48	680	4	< 5	18	88	0.31	< 10	< 10	184	< 10	62
79940	205	274	1	0.14	51	710	6	< 5	15	113	< 0.01	< 10	< 10	137	< 10	70
79941	205	274	2	0.12	43	840	12	< 5	11	157	< 0.01	< 10	< 10	65	< 10	98
79942	205	274	1	0.14	31	650	12	5	14	168	< 0.01	< 10	< 10	95	< 10	100
79943	205	274	2	0.12	34	720	10	< 5	14	160	< 0.01	< 10	< 10	81	< 10	108
79944	205	274	3	0.09	22	410	2	< 5	15	101	< 0.01	< 10	< 10	96	< 10	108
79945	205	274	1	0.12	19	610	6	< 5	26	151	< 0.01	< 10	< 10	97	< 10	244
79946	205	274	3	0.13	15	1100	8	< 5	18	149	< 0.01	< 10	< 10	135	< 10	94
79947	205	274	< 1	0.19	11	590	< 2	< 5	15	213	< 0.01	< 10	< 10	99	< 10	50
79948	205	274	< 1	0.18	6	670	4	< 5	15	230	< 0.01	< 10	< 10	77	< 10	38
79949	205	274	< 1	0.12	5	240	< 2	5	12	154	0.01	< 10	< 10	88	< 10	38

CERTIFICATION: Thai D Ma

Chemex Labs Ltd.

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Project : WANN-5
Comments: CC: DAIWAN ENGINEERING LTD.

Page Number :1-A
Total Pages :1
Certificate Date: 17-APR-92
Invoice No. :19213228
P.O. Number :
Account :EEP

CERTIFICATE OF ANALYSIS A9213228

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
79950	205	274	< 5	< 0.2	3.70	< 2	50	< 0.5	< 2	0.93	< 0.5	8	30	107	6.10	10	< 1	0.28	< 10	0.81	270
79951	205	274	< 5	< 0.2	3.06	< 2	30	< 0.5	< 2	0.96	< 0.5	11	11	103	5.89	10	< 1	0.18	< 10	0.88	255
79952	205	274	< 5	< 0.2	2.56	< 2	30	< 0.5	< 2	1.00	< 0.5	15	14	108	4.95	10	< 1	0.11	< 10	0.75	265
79953	205	274	< 5	< 0.2	2.78	2	30	< 0.5	< 2	1.15	< 0.5	14	11	108	4.68	10	< 1	0.13	< 10	0.76	255
79954	205	274	< 5	< 0.2	2.54	8	20	< 0.5	< 2	0.72	< 0.5	23	19	85	6.75	10	< 1	0.12	< 10	0.71	145
79955	205	274	< 5	< 0.2	1.97	< 2	20	< 0.5	< 2	0.65	< 0.5	21	11	64	4.81	10	< 1	0.05	< 10	0.65	155
79956	205	274	< 5	< 0.2	2.53	8	30	< 0.5	2	0.78	< 0.5	18	25	93	5.86	10	< 1	0.11	10	0.71	140
79957	205	274	< 5	< 0.2	3.22	< 2	20	< 0.5	< 2	1.16	< 0.5	25	22	78	5.30	10	< 1	0.18	< 10	0.73	185
79958	205	274	< 5	0.4	2.62	10	30	< 0.5	< 2	1.02	< 0.5	23	12	92	4.97	10	< 1	0.25	< 10	0.35	115
79959	205	274	< 5	< 0.2	3.20	4	40	< 0.5	< 2	1.14	< 0.5	21	18	87	5.09	10	< 1	0.29	< 10	0.62	250
79960	205	274	< 5	< 0.2	2.94	6	50	< 0.5	2	2.94	< 0.5	20	26	86	4.14	10	< 1	0.30	< 10	0.48	860
79961	205	274	< 5	< 0.2	4.22	14	50	< 0.5	< 2	1.79	0.5	21	16	103	4.98	10	< 1	0.21	< 10	1.05	535
79962	205	274	< 5	< 0.2	5.58	28	60	< 0.5	10	2.34	< 0.5	18	50	121	4.71	10	< 1	0.70	< 10	0.22	80
79963	205	274	< 5	< 0.2	5.12	30	80	< 0.5	4	1.93	< 0.5	18	22	113	5.18	10	< 1	0.86	< 10	0.30	75
79964	205	274	< 5	< 0.2	5.58	22	70	< 0.5	2	2.26	< 0.5	17	28	102	4.79	10	< 1	0.99	< 10	0.34	40
79965	205	274	< 5	< 0.2	3.80	28	30	< 0.5	2	1.90	< 0.5	18	18	102	4.90	10	< 1	0.32	< 10	0.76	95
79966	205	274	< 5	< 0.2	4.19	36	30	< 0.5	2	1.60	< 0.5	17	46	83	4.89	10	< 1	0.27	< 10	1.12	240
79967	205	274	< 5	< 0.2	4.00	30	30	< 0.5	2	1.00	< 0.5	17	20	84	4.23	10	< 1	0.19	< 10	1.06	150
79968	205	274	< 5	< 0.2	4.02	72	20	< 0.5	< 2	1.32	< 0.5	20	34	124	5.64	10	< 1	0.23	< 10	0.09	30
79969	205	274	< 5	< 0.2	2.37	68	20	< 0.5	2	0.86	< 0.5	19	31	118	5.12	10	< 1	0.21	< 10	0.08	25
79970	205	274	< 5	< 0.2	1.12	38	20	< 0.5	2	0.26	< 0.5	15	32	122	4.20	< 10	< 1	0.02	< 10	0.01	15

CERTIFICATION: Jhai D'Ma

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To: JORDEX RESOURCES INC.
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Project : WANN-5
Comments: CC: DAIWAN ENGINEERING LTD.

Certificate Date: 17-APR-92
Invoice No. :19213228
P.O. Number :
Account :EEP

CERTIFICATE OF ANALYSIS A9213228

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
79950	205	274	2	0.10	4	280	12	< 2	12	132	< 0.01	< 10	< 10	86	10	34
79951	205	274	1	0.09	3	240	10	< 2	11	111	< 0.01	< 10	< 10	70	10	40
79952	205	274	1	0.09	4	450	8	< 2	9	103	< 0.01	< 10	< 10	54	10	30
79953	205	274	1	0.10	5	660	8	2	10	119	< 0.01	< 10	< 10	54	10	36
79954	205	274	2	0.07	6	380	8	2	7	84	< 0.01	< 10	< 10	55	10	40
79955	205	274	2	0.06	9	440	10	< 2	7	72	< 0.01	< 10	< 10	46	10	36
79956	205	274	2	0.06	5	1160	20	< 2	9	82	< 0.01	< 10	< 10	64	10	28
79957	205	274	1	0.08	8	560	8	< 2	11	104	< 0.01	< 10	< 10	58	10	50
79958	205	274	1	0.10	11	700	20	< 2	9	122	< 0.01	< 10	< 10	43	10	50
79959	205	274	1	0.10	11	570	12	< 2	11	135	< 0.01	< 10	< 10	63	10	112
79960	205	274	< 1	0.11	9	620	8	< 2	12	142	< 0.01	< 10	< 10	56	10	122
79961	205	274	3	0.10	9	600	22	< 2	14	134	< 0.01	< 10	< 10	81	20	100
79962	205	274	8	0.06	10	610	58	2	17	53	< 0.01	< 10	< 10	142	10	36
79963	205	274	6	0.06	8	640	68	< 2	17	60	< 0.01	< 10	< 10	122	20	22
79964	205	274	4	0.07	9	620	52	< 2	16	78	< 0.01	< 10	< 10	105	20	18
79965	205	274	7	0.07	10	580	36	2	12	92	< 0.01	< 10	< 10	64	20	26
79966	205	274	5	0.06	7	540	28	< 2	12	82	< 0.01	< 10	< 10	75	10	26
79967	205	274	2	0.05	7	560	16	< 2	12	59	< 0.01	< 10	< 10	83	10	40
79968	205	274	7	0.03	10	610	22	2	14	30	< 0.01	< 10	< 10	106	10	20
79969	205	274	7	0.03	9	560	28	< 2	10	26	< 0.01	< 10	< 10	75	10	18
79970	205	274	4	0.01	8	830	16	< 2	5	15	< 0.01	< 10	< 10	26	< 10	40

CERTIFICATION: Thai D Ma

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Project : WANN-6
Comments: CC: DAIWAN ENGINEERING LTD.

Certificate Date: 17-APR-92
Invoice No. :19213255
P.O. Number :
Account :EEP

CERTIFICATE OF ANALYSIS A9213255

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm Aqua R	As ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm		
79971	205 274	25	< 0.2	78	60	5	3	2.0	63		
79972	205 274	45	0.4	140	86	4	< 1	2.6	72		
79973	205 274	25	< 0.2	58	65	13	4	1.0	59		
79974	205 274	< 5	< 0.2	2	51	9	2	0.2	48		
79975	205 274	10	0.3	4	95	3	1	0.2	62		
79976	205 274	< 5	< 0.2	4	71	4	1	0.2	56		
79977	205 274	< 5	< 0.2	4	26	3	1	< 0.2	40		
79978	205 274	< 5	< 0.2	1	11	3	2	0.2	34		
79979	205 274	< 5	< 0.2	4	36	3	< 1	0.4	28		
79980	205 274	< 5	< 0.2	2	52	2	< 1	< 0.2	30		
79981	205 274	< 5	< 0.2	4	52	2	< 1	0.2	34		
79982	205 274	< 5	< 0.2	2	46	2	< 1	0.2	36		
79983	205 274	< 5	< 0.2	1	47	4	< 1	< 0.2	33		
79984	205 274	< 5	< 0.2	2	36	3	2	0.2	33		
79985	205 274	< 5	< 0.2	1	56	2	10	< 0.2	26		
79986	205 274	< 5	< 0.2	1	30	1	< 1	< 0.2	18		

CERTIFICATION: Stewart Bichler

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Project : WANN-7
Comments: CC: DAIWAN ENGINERING LTD

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CERTIFICATE OF ANALYSIS A9213326

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
79987	205 274	< 5	< 0.5	7	30	2.19	190	1	2	< 5	14
79988	205 274	< 5	< 0.5	7	22	3.03	245	< 1	3	< 5	18
79989	205 274	< 5	< 0.5	8	19	2.59	325	< 1	7	5	22
79990	205 274	< 5	< 0.5	6	16	1.93	230	< 1	3	5	14
79991	205 274	< 5	< 0.5	9	33	2.89	255	1	4	< 5	18
79992	205 274	< 5	< 0.5	7	16	2.23	290	< 1	2	5	36
79993	205 274	< 5	< 0.5	20	61	4.73	945	< 1	12	5	110
79994	205 274	< 5	< 0.5	19	89	4.79	970	< 1	9	10	80
79995	205 274	< 5	< 0.5	19	66	4.96	835	1	11	5	70
79996	205 274	< 5	< 0.5	21	67	5.13	805	2	11	5	86
79997	205 274	< 5	< 0.5	22	45	5.18	360	< 1	14	5	74
79998	205 274	< 5	< 0.5	21	33	5.39	445	< 1	11	< 5	54
79999	205 274	< 5	< 0.5	26	23	6.07	195	2	19	5	22
80000	205 274	< 5	< 0.5	22	64	5.10	390	< 1	17	< 5	12
90751	205 274	< 5	< 0.5	41	84	6.49	520	2	33	< 5	20
90752	205 274	< 5	< 0.5	33	73	6.16	595	< 1	24	< 5	30
90753	205 274	< 5	< 0.5	30	122	6.38	670	2	27	< 5	30
90754	205 274	< 5	< 0.5	24	38	6.60	425	2	18	< 5	14
90755	205 274	< 5	< 0.5	27	80	7.02	625	1	26	< 5	26

CERTIFICATION: Jhai D'Ma

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Project : WANN-8
Comments: CC: DAIWAN ENGINEERING LTD.

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CERTIFICATE OF ANALYSIS A9213414

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
90756	205	274	< 5	< 0.5	23	84	6.59	1030	1	33	10	50
90757	205	274	< 5	< 0.5	26	57	5.98	875	1	33	15	42
90758	205	274	< 5	< 0.5	25	63	5.92	670	2	39	15	32
90759	205	274	< 5	< 0.5	32	90	7.26	1055	2	60	15	50
90760	205	274	< 5	< 0.5	33	76	6.39	1385	< 1	122	20	68
90761	205	274	< 5	< 0.5	32	94	6.55	1190	< 1	112	10	54
90762	205	274	< 5	< 0.5	30	34	6.59	835	1	75	10	42
90763	205	274	< 5	< 0.5	30	24	6.52	580	1	56	10	34
90764	205	274	< 5	1.0	17	32	4.32	520	111	15	15	30
90765	205	274	< 5	< 0.5	23	47	5.78	1105	1	5	5	44
90766	205	274	< 5	< 0.5	17	55	5.63	1175	< 1	4	5	44
90767	205	274	< 5	< 0.5	16	53	5.49	1285	< 1	2	15	48
90768	205	274	< 5	< 0.5	20	31	5.56	1185	< 1	5	5	44
90769	205	274	< 5	< 0.5	23	27	6.32	1075	< 1	5	10	44
90770	205	274	< 5	< 0.5	18	37	5.87	1035	< 1	3	5	44
90771	205	274	< 5	< 0.5	18	52	5.78	1060	1	6	10	42
90772	205	274	< 5	< 0.5	17	42	5.76	1000	1	5	5	44
90773	205	274	< 5	< 0.5	17	68	4.90	1060	1	13	5	38
90774	205	274	< 5	< 0.5	28	79	7.02	1130	1	41	10	46
90775	205	274	< 5	< 0.5	26	56	7.01	1505	< 1	26	10	72

CERTIFICATION: Thai D Ma

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Project : WANN-9
Comments: CC: DAIWAN ENGINEERING LTD.

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CERTIFICATE OF ANALYSIS A9213415

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
90776	205	274	< 5	< 0.5	32	73	7.34	1420	< 1	32	5	62
90777	205	274	< 5	< 0.5	33	83	7.32	1150	1	31	10	60
90778	205	274	< 5	< 0.5	12	47	4.13	585	19	10	20	54
90779	205	274	< 5	< 0.5	18	64	4.49	1060	< 1	14	5	64
90780	205	274	< 5	< 0.5	15	73	4.56	1225	< 1	14	5	100
90781	205	274	< 5	< 0.5	15	38	4.38	1305	1	14	5	80
90782	205	274	< 5	< 0.5	19	65	4.62	1025	< 1	14	30	68
90783	205	274	< 5	< 0.5	15	37	3.80	1160	1	12	15	84
90784	205	274	< 5	< 0.5	13	39	3.60	670	2	12	10	34
90785	205	274	< 5	< 0.5	16	37	4.26	1240	1	11	10	56
90786	205	274	< 5	< 0.5	13	25	3.84	1495	1	15	5	56
90787	205	274	< 5	< 0.5	23	43	4.50	485	< 1	28	5	28
90788	205	274	< 5	< 0.5	16	33	3.83	320	< 1	19	5	16
90789	205	274	< 5	< 0.5	17	57	4.43	285	< 1	23	10	18
90790	205	274	< 5	< 0.5	20	44	4.74	330	< 1	27	< 5	24
90791	205	274	< 5	< 0.5	18	96	4.70	400	< 1	25	< 5	20
90792	205	274	< 5	< 0.5	19	31	4.72	440	< 1	25	< 5	30
90793	205	274	< 5	< 0.5	16	86	4.35	415	< 1	24	< 5	30
90794	205	274	< 5	< 0.5	19	123	4.52	560	< 1	27	< 5	36
90795	205	274	< 5	< 0.5	21	54	4.65	665	< 1	25	5	40

CERTIFICATION: Thai D Ma

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Project : WANN-10
Comments: CC: DAIWAN ENGINEERING

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CERTIFICATE OF ANALYSIS A9213480

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
90796	205 274	< 5	< 0.5	14	87	3.45	395	< 1	6	5	58
90798	205 274	< 5	< 0.5	12	65	3.39	400	< 1	5	< 5	52
90800	205 274	< 5	< 0.5	15	74	4.17	590	< 1	5	5	56
90802	205 274	< 5	< 0.5	17	117	3.63	545	< 1	6	5	70
90804	205 274	< 5	< 0.5	10	75	3.27	405	< 1	6	< 5	44
90806	205 274	< 5	< 0.5	13	89	3.50	485	< 1	5	< 5	52
90808	205 274	< 5	< 0.5	13	60	3.23	550	< 1	4	5	52
90810	205 274	< 5	< 0.5	22	64	4.32	685	< 1	5	5	66
90812	205 274	< 5	< 0.5	13	64	3.86	475	< 1	8	< 5	52
90814	205 274	< 5	< 0.5	12	70	3.60	565	2	5	5	50
90816	205 274	< 5	< 0.5	13	51	3.64	505	< 1	5	5	44
90818	205 274	< 5	< 0.5	12	64	3.57	610	< 1	4	< 5	58
90820	205 274	< 5	< 0.5	12	86	3.45	625	2	4	5	72

CERTIFICATION: Jhai D'Ma

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Project : WANN-11
Comments: CC: DAIWAN ENGINEERING LTD.

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Invoice No. :I9213560
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Account :EEP

CERTIFICATE OF ANALYSIS A9213560

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
90821	205 274	10	< 0.5	16	99	5.78	360	< 1	10	6	110
90822	205 274	20	< 0.5	16	92	5.85	250	< 1	13	4	64
90823	205 274	10	< 0.5	17	100	5.29	845	< 1	11	6	50
90824	205 274	5	< 0.5	13	66	4.68	705	< 1	10	4	42
90825	205 274	20	< 0.5	21	100	4.80	530	1	17	< 2	30
90826	205 274	15	< 0.5	22	94	4.68	515	1	26	4	32
90827	205 274	5	< 0.5	21	108	5.06	470	< 1	22	2	30
90828	205 274	15	< 0.5	14	77	5.51	915	1	49	6	44
90829	205 274	10	< 0.5	13	60	4.26	875	2	8	10	46
90830	205 274	45	< 0.5	14	108	4.88	635	2	9	4	46
90831	205 274	10	< 0.5	16	154	4.94	680	< 1	11	4	48
90832	205 274	< 5	< 0.5	13	92	5.04	720	< 1	11	4	48
90833	205 274	5	< 0.5	16	123	5.10	860	< 1	12	6	62
90834	205 274	10	< 0.5	15	121	4.51	920	< 1	13	2	64
90835	205 274	40	< 0.5	13	86	4.09	685	1	9	10	48
90836	205 274	< 5	< 0.5	16	143	4.57	785	1	11	2	56
90837	205 274	10	< 0.5	20	257	4.77	615	< 1	14	4	52
90838	205 274	< 5	< 0.5	12	32	4.70	645	< 1	9	2	58
90839	205 274	< 5	< 0.5	13	61	4.50	580	< 1	7	< 2	56
90840	205 274	< 5	< 0.5	8	51	3.49	315	1	6	4	34
90841	205 274	< 5	< 0.5	10	63	3.49	450	< 1	7	4	40
90842	205 274	< 5	< 0.5	10	67	4.03	380	1	6	4	42

CERTIFICATION: Jhai D Ma

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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

To: JORDEX RESOURCES INC.
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1507 - 1030 W. GEORGIA ST.
VANCOUVER, BC
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Project : WANN-12
Comments: CC: DAIWAN ENGINEERING LTD.

Page Number :1
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Certificate Date: 01-MAY-9
Invoice No. :19213679
P.O. Number :
Account :EEP

CERTIFICATE OF ANALYSIS A9213679

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
90843	205	274	< 5	< 0.5	13	90	4.46	385	1	8	15	38
90844	205	274	< 5	< 0.5	11	78	4.31	455	1	7	10	42
90845	205	274	< 5	< 0.5	15	68	4.87	495	2	9	15	40
90846	205	274	< 5	< 0.5	16	120	4.89	430	1	10	10	46
90847	205	274	< 5	< 0.5	11	77	3.95	300	1	8	5	32
90848	205	274	< 5	< 0.5	12	79	4.24	360	< 1	7	5	32
90849	205	274	< 5	< 0.5	15	80	4.58	410	1	9	5	30
90850	205	274	< 5	< 0.5	9	83	3.39	285	1	6	5	22
90851	205	274	< 5	< 0.5	13	72	4.12	390	1	8	10	32
90852	205	274	< 5	< 0.5	10	95	4.23	370	< 1	10	5	32
90853	205	274	< 5	< 0.5	15	109	4.64	465	1	10	10	42
90854	205	274	< 5	< 0.5	17	90	4.72	410	1	10	5	36
90855	205	274	< 5	< 0.5	18	111	4.77	415	1	9	5	40
90856	205	274	< 5	< 0.5	15	77	4.81	400	1	10	10	40
90857	205	274	< 5	< 0.5	17	99	4.83	415	< 1	10	5	40
90858	205	274	< 5	< 0.5	14	113	4.42	400	2	8	5	42
90859	205	274	< 5	< 0.5	18	110	4.98	725	1	10	10	70
90860	205	274	< 5	< 0.5	16	93	4.99	1015	1	11	10	144
90861	205	274	< 5	< 0.5	16	86	4.18	580	1	10	10	56
90862	205	274	< 5	< 0.5	16	122	4.46	700	3	8	10	70
90863	205	274	10	< 0.5	17	115	4.46	750	5	9	10	70
90864	205	274	< 5	< 0.5	16	135	4.52	775	5	9	15	62
90865	205	274	< 5	< 0.5	14	83	4.54	765	1	10	10	64
90866	205	274	< 5	< 0.5	16	82	4.53	685	< 1	9	5	56

CERTIFICATION: Jhai D Ma

Chemex Labs Ltd.

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Project : WANN-13
Comments: CC: DAIWAN ENGINEERING LTD.

Certificate Date: 30-APR-92
Invoice No. : I9213680
P.O. Number :
Account :EEP

CERTIFICATE OF ANALYSIS A9213680

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
90867	205 274	< 5	< 0.5	13	110	3.95	465	1	8	6	48
90868	205 274	< 5	< 0.5	11	55	4.09	410	1	9	4	40
90869	205 274	< 5	< 0.5	11	97	4.28	380	< 1	7	2	36
90870	205 274	< 5	< 0.5	12	68	4.58	465	1	8	4	38
90871	205 274	< 5	< 0.5	13	401	4.62	480	2	10	4	50
90872	205 274	< 5	< 0.5	12	83	4.01	470	2	9	6	52
90873	205 274	< 5	< 0.5	17	146	5.33	555	< 1	19	2	44
90874	205 274	< 5	< 0.5	17	117	5.89	805	< 1	21	2	52
90875	205 274	< 5	< 0.5	16	81	5.57	935	< 1	21	6	70
90876	205 274	< 5	< 0.5	16	92	5.03	1005	< 1	21	8	72
90877	205 274	< 5	< 0.5	15	68	5.07	1140	< 1	22	8	76
90878	205 274	< 5	< 0.5	15	91	4.89	1055	< 1	23	12	82
90879	205 274	< 5	< 0.5	21	566	5.01	1065	< 1	25	10	84
90880	205 274	< 5	< 0.5	40	416	4.45	950	22	35	4	82
90881	205 274	< 5	< 0.5	47	148	4.19	1110	1	37	6	82
90882	205 274	< 5	< 0.5	30	164	4.50	940	1	22	6	72
90883	205 274	< 5	< 0.5	29	298	4.68	1280	2	25	8	106
90884	205 274	< 5	< 0.5	49	293	5.10	970	11	54	4	86
90885	205 274	< 5	< 0.5	18	150	4.74	820	1	22	4	66
90886	205 274	< 5	< 0.5	15	135	4.79	500	1	14	8	44
90887	205 274	< 5	< 0.5	19	147	5.26	665	1	28	2	58
90888	205 274	< 5	< 0.5	23	745	5.23	540	1	21	4	42
90889	205 274	< 5	< 0.5	26	703	5.29	685	< 1	22	6	58
90890	205 274	< 5	< 0.5	9	46	3.61	550	1	2	2	42
90891	205 274	< 5	< 0.5	7	23	3.74	505	1	1	4	40
90892	205 274	< 5	< 0.5	7	40	3.88	515	1	< 1	2	36
90893	205 274	< 5	< 0.5	14	104	3.40	520	2	2	2	40
90894	205 274	< 5	< 0.5	16	105	3.53	580	1	2	< 2	50
90895	205 274	< 5	< 0.5	14	120	3.24	540	3	2	4	50

CERTIFICATION: Thai D Ma

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Project : WANN-14
Comments: CC: DAIWAN ENGINEERING LTD.

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Invoice No. :I9213681
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Account :EEP

CERTIFICATE OF ANALYSIS A9213681

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
90896	205	274	< 5	< 0.5	6	6	3.28	440	< 1	< 1	2	34
90897	205	274	< 5	< 0.5	7	50	3.58	490	1	< 1	6	36
90898	205	274	< 5	< 0.5	8	49	3.51	450	< 1	< 1	4	40
90899	205	274	< 5	< 0.5	10	45	3.69	565	< 1	1	2	50
90900	205	274	< 5	< 0.5	9	132	3.77	650	1	< 1	2	48
90901	205	274	< 5	< 0.5	10	89	3.67	640	5	< 1	20	56
90902	205	274	< 5	< 0.5	16	75	3.48	540	2	2	4	42
90903	205	274	< 5	< 0.5	9	42	3.77	400	1	1	< 2	32
90904	205	274	< 5	< 0.5	9	63	3.83	500	3	< 1	4	46
90905	205	274	< 5	< 0.5	8	45	3.44	455	1	1	2	52
90906	205	274	< 5	< 0.5	8	23	3.73	440	2	< 1	4	38
90907	205	274	< 5	< 0.5	11	52	4.01	715	1	< 1	< 2	52
90908	205	274	< 5	< 0.5	9	151	3.84	575	< 1	1	< 2	38
90909	205	274	< 5	< 0.5	7	45	3.34	400	1	< 1	< 2	26
90910	205	274	< 5	< 0.5	8	156	3.74	560	2	1	4	36
90911	205	274	< 5	< 0.5	9	247	3.87	605	2	< 1	2	44
90912	205	274	< 5	< 0.5	8	85	3.59	435	3	< 1	4	32
90913	205	274	< 5	< 0.5	8	33	3.63	425	1	1	2	34
90914	205	274	< 5	< 0.5	8	20	2.74	395	< 1	1	< 2	24
90915	205	274	< 5	< 0.5	7	17	2.65	440	1	3	< 2	28
90916	205	274	< 5	< 0.5	7	39	2.55	380	1	2	2	34
90917	205	274	< 5	< 0.5	9	36	2.84	420	1	3	< 2	30
90918	205	274	< 5	< 0.5	8	19	2.78	455	1	3	< 2	30
90919	205	274	< 5	< 0.5	8	9	2.94	450	2	3	< 2	26
90920	205	274	< 5	< 0.5	10	70	3.02	350	2	1	2	22
90921	205	274	< 5	< 0.5	6	10	3.39	460	1	< 1	2	30
90922	205	274	< 5	< 0.5	7	15	3.17	475	1	< 1	2	34
90923	205	274	< 5	< 0.5	10	33	3.01	410	< 1	< 1	2	30

CERTIFICATION: Johan D'Mar

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Project : WANN-15
Comments: CC: DAIWAN ENGINEERING LTD

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CERTIFICATE OF ANALYSIS A9213847

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
90924	205 274	< 5	< 0.5	21	120	6.50	370	9	13	10	102
90925	205 274	< 5	< 0.5	15	131	5.38	1790	3	12	6	54
90926	205 274	< 5	< 0.5	15	129	5.21	2780	4	11	6	68
90927	205 274	< 5	< 0.5	18	132	5.84	285	17	14	12	80
90928	205 276	< 5	< 0.5	3	54	4.67	55	41	4	32	6
90929	205 276	115	< 0.5	6	150	4.92	45	31	7	32	22
90930	205 276	< 5	< 0.5	2	62	4.72	10	13	3	38	8
90931	205 276	< 5	< 0.5	< 1	37	4.39	10	9	< 1	36	4
90932	205 276	25	< 0.5	< 1	111	8.85	15	25	< 1	28	10
90933	205 276	10	< 0.5	4	87	4.30	10	4	4	18	4
90934	205 276	15	< 0.5	< 1	73	6.20	15	23	2	10	8
90935	205 276	10	< 0.5	< 1	31	2.86	10	10	1	8	4
90936	205 274	10	< 0.5	< 1	26	2.23	10	20	2	6	4
90937	205 274	< 5	< 0.5	< 1	49	7.11	10	38	< 1	14	8
90938	205 274	15	< 0.5	13	88	5.92	10	11	8	14	10
90939	205 274	< 5	< 0.5	23	221	7.76	20	12	11	10	86
90940	205 274	< 5	< 0.5	20	100	7.26	20	13	10	6	110
90941	205 274	< 5	< 0.5	24	108	8.48	15	8	13	16	72
90942	205 274	< 5	< 0.5	15	37	4.33	5	3	7	14	4
90943	205 274	< 5	< 0.5	5	110	7.32	440	17	7	20	32
90944	205 274	< 5	< 0.5	14	72	7.71	30	5	8	34	16
90945	205 274	< 5	< 0.5	18	124	8.98	20	14	10	48	10
90946	205 274	< 5	< 0.5	24	238	9.83	15	9	10	42	14
90947	205 274	< 5	< 0.5	16	156	5.90	10	5	6	34	62
90948	205 274	< 5	< 0.5	9	75	3.99	10	200	3	38	8
90949	205 274	< 5	< 0.5	13	168	5.28	15	44	6	28	8
90950	205 276	< 5	< 0.5	12	153	5.49	10	17	5	10	34
90951	205 276	< 5	< 0.5	9	140	6.06	10	8	4	16	40
90952	205 274	< 5	< 0.5	12	37	4.38	685	1	7	8	54
90953	205 274	< 5	< 0.5	12	34	4.12	835	< 1	7	8	76
90954	205 274	< 5	< 0.5	10	28	3.64	735	2	6	6	52
90955	205 274	< 5	< 0.5	6	11	2.22	430	1	2	6	32
90956	205 274	< 5	< 0.5	4	11	2.24	280	1	2	6	22
90957	205 274	< 5	< 0.5	5	13	1.93	260	1	2	4	22
90958	205 274	< 5	< 0.5	5	22	2.01	275	2	2	4	22
90959	205 274	< 5	< 0.5	4	10	1.88	235	1	2	2	24
90960	205 274	< 5	< 0.5	5	9	2.06	220	2	2	4	20
90961	205 274	< 5	< 0.5	14	412	4.00	510	1	6	4	56
90962	205 274	< 5	< 0.5	12	38	4.10	410	< 1	7	4	40

CERTIFICATION: Thai D Ma

Chemex Labs Ltd.

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To: JORDEX RESOURCES INC.
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Project : WANN-16
Comments: CC: DAIWAN ENGINEERING LTD.

Page Number :1
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Account :EEP

CERTIFICATE OF ANALYSIS A9213928

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
90963	205	274	< 5	< 0.5	13	47	4.08	380	< 1	8	2	38
90964	205	274	< 5	< 0.5	13	35	4.06	295	< 1	7	4	24
90965	205	274	< 5	< 0.5	10	24	3.23	215	< 1	5	6	24
90966	205	274	< 5	< 0.5	8	435	1.88	215	< 1	4	4	30
90967	205	274	< 5	< 0.5	6	83	2.06	180	< 1	4	2	22
90968	205	274	< 5	< 0.5	10	7	2.87	285	< 1	5	4	34
90969	205	274	< 5	< 0.5	9	10	2.92	245	< 1	2	4	28
90970	205	274	< 5	< 0.5	10	12	3.53	300	< 1	6	4	32
90971	205	274	< 5	< 0.5	10	19	3.79	250	< 1	4	6	26
90972	205	274	< 5	< 0.5	9	17	2.88	270	1	3	2	34
90973	205	274	< 5	< 0.5	7	13	2.62	375	< 1	4	6	44
90974	205	274	< 5	< 0.5	6	6	1.46	365	< 1	3	2	40
90975	205	274	< 5	< 0.5	6	12	2.60	255	< 1	4	4	30
90976	205	274	< 5	< 0.5	6	18	3.06	320	< 1	3	4	30
90977	205	274	< 5	< 0.5	5	88	2.77	265	1	3	6	24
90978	205	274	< 5	< 0.5	9	15	2.94	275	< 1	4	4	26
90979	205	274	< 5	< 0.5	13	63	3.70	290	< 1	4	6	30
90980	205	274	< 5	< 0.5	15	45	4.31	360	< 1	6	4	40
90981	205	274	< 5	< 0.5	18	48	4.88	500	< 1	8	10	50
90982	205	274	10	< 0.5	17	59	4.99	655	< 1	8	8	50
90983	205	274	< 5	< 0.5	17	55	5.26	670	< 1	6	8	64
90984	205	274	< 5	< 0.5	15	13	4.86	380	< 1	5	8	54
90985	205	274	< 5	< 0.5	16	33	5.06	425	< 1	7	8	60
90986	205	274	< 5	< 0.5	14	46	4.55	380	< 1	5	8	56
90987	205	274	< 5	< 0.5	15	55	4.63	400	< 1	6	6	66

CERTIFICATION: Jhai D Ma

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Project : WAWN-17
Comments: CC: DAIWAN ENGINEERING LTD.

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Invoice No. :I9213931
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CERTIFICATE OF ANALYSIS A9213931

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
90988	205 274	< 5	< 0.5	9	209	5.20	10	< 1	4	8	20
90989	205 274	< 5	< 0.5	9	142	6.12	10	3	4	12	16
90990	205 274	< 5	< 0.5	9	62	4.46	95	< 1	6	16	158
90991	205 274	< 5	< 0.5	9	90	4.81	10	< 1	3	8	30
90992	205 274	< 5	< 0.5	12	57	4.70	135	< 1	9	14	76
90993	205 274	< 5	< 0.5	12	62	4.61	115	< 1	8	14	90
90994	205 274	< 5	< 0.5	13	74	4.45	15	1	8	8	26
90995	205 274	< 5	< 0.5	7	31	3.37	10	< 1	4	14	18
90996	205 274	< 5	< 0.5	7	60	4.41	20	< 1	4	14	22

CERTIFICATION: Jhai D Ma

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Project : WANN-18
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Invoice No. :I9213976
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Account :EEP

CERTIFICATE OF ANALYSIS A9213976

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
37251	205 274	< 5	< 0.5	29	171	5.56	535	< 1	20	36	362
37252	205 274	< 5	< 0.5	17	215	4.22	500	1	10	32	202
37253	205 274	< 5	< 0.5	21	210	5.12	515	29	12	18	220
37254	205 274	< 5	< 0.5	23	210	5.99	615	49	17	24	224
37255	205 274	< 5	< 0.5	22	157	5.31	530	11	14	26	146
37256	205 274	< 5	< 0.5	21	159	5.32	500	9	14	24	162
37257	205 274	< 5	< 0.5	19	187	4.25	645	12	14	26	224
37258	205 274	< 5	< 0.5	18	223	5.12	755	4	12	32	188
90997	205 274	< 5	< 0.5	10	61	3.61	125	< 1	7	16	84
90998	205 274	< 5	< 0.5	19	124	5.32	485	4	12	16	114
90999	205 274	< 5	< 0.5	25	232	7.28	770	5	18	28	90
91000	205 274	< 5	< 0.5	27	111	6.63	635	< 1	22	28	100

CERTIFICATION: Jhai D Ma

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Project : WANN-19
Comments: CC: DAIWAN ENGINEERING LTD.

Page Number :1
Total Pages :1
Certificate Date: 06-MAY-9
Invoice No. :I9214029
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Account :EEP

CERTIFICATE OF ANALYSIS A9214029

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
37259	205	274	< 5	< 0.5	11	92	4.60	555	3	6	30	148
37260	205	274	< 5	< 0.5	13	97	4.38	385	3	7	14	90
37261	205	274	< 5	< 0.5	12	121	5.48	695	1	8	18	164
37262	205	274	< 5	< 0.5	12	88	5.01	635	3	8	14	62
37263	205	274	< 5	< 0.5	10	82	4.39	460	1	7	8	26
37264	205	274	< 5	< 0.5	13	83	4.23	410	1	8	8	18
37265	205	274	< 5	< 0.5	11	76	4.52	675	< 1	7	6	32
37266	205	274	< 5	< 0.5	11	61	4.21	685	< 1	6	4	28
37267	205	274	< 5	< 0.5	12	76	4.63	770	< 1	8	2	26
37268	205	274	< 5	< 0.5	12	67	4.29	515	< 1	7	2	16
37269	205	274	< 5	< 0.5	12	91	4.13	475	1	7	4	16
37270	205	274	< 5	< 0.5	12	57	3.74	245	3	5	2	10
37271	205	274	< 5	< 0.5	11	63	3.75	215	1	7	2	10
37272	205	274	< 5	< 0.5	14	107	5.23	110	< 1	8	4	16
37273	205	274	< 5	< 0.5	14	138	5.44	255	1	6	4	22
37274	205	274	< 5	< 0.5	13	53	5.32	40	3	4	10	54
37275	205	274	< 5	0.5	11	37	4.59	55	6	4	14	72
37276	205	274	< 5	< 0.5	14	24	4.25	85	3	4	6	84
37277	205	274	< 5	< 0.5	12	30	4.48	175	1	3	8	52
37278	205	274	< 5	< 0.5	14	63	5.14	380	1	5	4	40
37279	205	274	< 5	< 0.5	11	48	6.23	390	< 1	4	10	54
37280	205	274	< 5	< 0.5	12	34	5.01	270	< 1	5	14	66
37281	205	274	< 5	< 0.5	12	62	4.75	330	< 1	4	6	78
37282	205	274	< 5	< 0.5	10	47	4.60	400	< 1	5	12	82
37283	205	274	< 5	< 0.5	12	42	4.20	210	< 1	5	10	68
37284	205	274	< 5	< 0.5	11	23	4.97	50	3	5	10	20

CERTIFICATION: John D'Ma

Chemex Labs Ltd.

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

To: JORDEX RESOURCES INC.
ATTN: MOE YOUNG
1507 - 1030 W. GEORGIA ST.
VANCOUVER, BC
V6E 2Y3

Project : WANN-20
Comments: CC: DAIWAN ENGINEERING LTD.

Certificate Date: 05-MAY-9
Invoice No. : 19214071
P.O. Number :
Account : EEP

CERTIFICATE OF ANALYSIS A9214071

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
37285	205 274	< 5	< 0.5	15	58	4.34	185	14	7	20	22
37286	205 274	< 5	< 0.5	14	81	4.38	1470	2	6	14	80
37287	205 274	< 5	< 0.5	14	76	5.14	1705	2	8	20	162
37288	205 274	< 5	< 0.5	18	80	5.38	1435	< 1	9	22	132
37289	205 274	< 5	< 0.5	19	100	5.61	1890	< 1	10	18	108
37290	205 274	< 5	< 0.5	19	137	5.27	2650	< 1	10	12	110
37291	205 274	< 5	< 0.5	13	41	3.89	1200	< 1	5	14	80
37292	205 274	< 5	< 0.5	10	21	2.90	920	1	4	16	110
37293	205 274	< 5	< 0.5	15	29	3.66	1290	1	7	14	114
37294	205 274	< 5	< 0.5	17	37	4.79	1735	< 1	9	14	94
37295	205 274	< 5	< 0.5	14	38	6.02	1550	< 1	7	12	106
37296	205 274	< 5	< 0.5	18	48	5.08	1250	3	15	18	84
37297	205 274	< 5	< 0.5	29	50	5.99	2050	< 1	31	12	82
37298	205 274	< 5	< 0.5	24	58	3.93	685	1	37	6	76
37299	205 274	< 5	< 0.5	16	108	3.50	990	1	21	8	82
37300	205 274	< 5	< 0.5	21	47	6.46	1480	< 1	17	8	68
37301	205 274	< 5	< 0.5	18	37	5.77	1100	1	10	10	88
37302	205 274	< 5	< 0.5	19	46	6.47	1595	< 1	17	10	72
37303	205 274	< 5	< 0.5	24	70	6.05	1095	< 1	22	8	60
37304	205 274	< 5	< 0.5	21	65	5.91	2120	< 1	19	14	116
37305	205 274	< 5	< 0.5	14	33	4.21	1280	1	6	10	76
37306	205 274	< 5	< 0.5	14	31	4.98	1945	< 1	5	12	82
37307	205 274	< 5	< 0.5	17	26	4.37	505	2	7	12	34
37308	205 274	< 5	< 0.5	13	21	4.37	1620	1	7	8	74

CERTIFICATION: Jhai D Ma

Chemex Labs Ltd.

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To: JORDEX RESOURCES INC.
ATTN: MOE YOUNG
1507 - 1030 W. GEORGIA ST.
VANCOUVER, BC
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Project : WANN-21
Comments: CC: DAIWAN ENGINEERING

Page Number :1
Total Pages :1
Certificate Date: 10-MAY-92
Invoice No. :19214190
P.O. Number :
Account :EEP

CERTIFICATE OF ANALYSIS A9214190

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
37309	205	274	< 5	< 0.5	19	27	4.49	950	< 1	10	5	64
37310	205	274	< 5	< 0.5	22	78	5.72	1090	1	16	10	62
37311	205	274	< 5	< 0.5	24	47	5.24	900	2	15	10	60
37312	205	274	< 5	< 0.5	21	32	3.93	790	2	13	10	68
37313	205	274	< 5	< 0.5	19	43	5.30	855	16	9	15	60
37314	205	274	< 5	< 0.5	19	77	5.00	1020	< 1	11	5	58

CERTIFICATION: Thai D Ma

Chemex Labs Ltd.

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To: JORDEX RESOURCES INC.
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Project : WANN-22
Comments: CC: DAIWAN ENGINEERING

Page Number :1
Total Pages :1
Certificate Date: 10-MAY-92
Invoice No. :I9214191
P.O. Number :
Account :EEP

CERTIFICATE OF ANALYSIS A9214191

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
37315	205	274	< 5	< 0.5	27	67	6.35	535	1	5	10	28
37316	205	274	< 5	< 0.5	18	70	5.03	530	3	5	10	42
37317	205	274	< 5	< 0.5	13	44	3.44	485	< 1	4	15	54
37318	205	274	< 5	< 0.5	16	32	4.66	480	1	7	5	50
37319	205	274	< 5	< 0.5	17	60	4.69	460	< 1	5	10	60
37320	205	274	< 5	< 0.5	17	89	4.63	710	6	7	15	112
37321	205	274	< 5	< 0.5	16	50	4.39	575	3	5	10	78
37322	205	274	< 5	< 0.5	17	96	4.44	630	4	6	5	68
37323	205	274	< 5	< 0.5	25	116	5.12	920	1	9	< 5	82
37324	205	274	< 5	< 0.5	16	39	4.42	410	< 1	7	< 5	42
37325	205	274	< 5	< 0.5	15	44	4.48	700	1	5	< 5	68
37326	205	274	< 5	< 0.5	10	103	3.68	340	1	3	10	32
37327	205	274	< 5	< 0.5	10	33	3.36	310	< 1	4	5	26
37328	205	274	< 5	< 0.5	10	44	3.40	315	< 1	3	< 5	26
37329	205	274	< 5	< 0.5	9	52	3.46	275	< 1	4	5	40
37330	205	274	< 5	< 0.5	9	28	3.24	410	1	4	< 5	44

CERTIFICATION: Jhai D'Ma

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V6E 2Y3

Project : WANN-22
Comments: CC: DAIWAN ENGINEERING LTD.

Page Number :1-A
Total Pages :1
Certificate Date: 13-MAY-92
Invoice No. :19214520
P.O. Number :
Account :EEP

CERTIFICATE OF ANALYSIS A9214520

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
37315	244	205	< 5	< 0.2	3.99	14	50	< 0.5	< 2	1.88	< 0.5	26	43	70	6.61	< 10	1	0.16	10	2.08	555
37316	244	205	< 5	< 0.2	4.33	18	40	< 0.5	< 2	2.60	< 0.5	18	39	68	4.89	< 10	< 1	0.11	10	1.89	525
37317	244	205	< 5	< 0.2	3.71	12	40	< 0.5	2	2.43	< 0.5	12	26	45	3.73	< 10	1	0.07	10	1.43	540
37318	244	205	< 5	< 0.2	3.02	14	70	< 0.5	< 2	2.16	< 0.5	17	39	33	4.89	< 10	< 1	0.11	10	1.69	525
37319	244	205	< 5	< 0.2	3.05	6	60	< 0.5	< 2	1.90	< 0.5	17	37	60	4.81	< 10	< 1	0.10	10	1.55	455
37320	244	205	< 5	< 0.2	3.32	2	60	< 0.5	< 2	1.99	< 0.5	17	29	87	4.54	< 10	< 1	0.08	< 10	1.75	700
37321	244	205	< 5	< 0.2	2.87	2	50	< 0.5	< 2	1.72	< 0.5	16	31	49	4.32	< 10	1	0.06	< 10	1.46	560
37322	244	205	< 5	< 0.2	3.11	12	60	< 0.5	< 2	1.82	< 0.5	18	35	93	4.35	< 10	< 1	0.09	< 10	1.32	615
37323	244	205	< 5	< 0.2	3.35	6	60	< 0.5	< 2	1.88	< 0.5	25	22	113	5.00	< 10	< 1	0.10	< 10	1.91	875
37324	244	205	< 5	< 0.2	3.34	8	70	< 0.5	< 2	2.34	< 0.5	16	27	40	4.59	< 10	< 1	0.10	< 10	1.52	425
37325	244	205	< 5	< 0.2	3.54	10	60	< 0.5	2	2.52	< 0.5	16	27	47	4.70	< 10	2	0.09	10	1.76	725
37326	244	205	< 5	< 0.2	3.29	10	20	< 0.5	< 2	2.30	< 0.5	11	28	103	3.85	< 10	2	0.08	< 10	0.98	355
37327	244	205	< 5	< 0.2	2.80	8	20	< 0.5	< 2	1.91	< 0.5	10	29	31	3.13	< 10	< 1	0.08	< 10	0.75	290
37328	244	205	< 5	< 0.2	2.53	6	30	< 0.5	< 2	1.66	< 0.5	11	33	46	3.72	< 10	1	0.09	< 10	0.90	340
37329	244	205	< 5	< 0.2	3.12	16	20	< 0.5	< 2	2.49	< 0.5	10	28	52	3.61	< 10	< 1	0.09	10	0.73	295
37330	244	205	< 5	< 0.2	2.71	8	30	< 0.5	< 2	1.76	< 0.5	10	27	30	3.53	< 10	< 1	0.07	< 10	0.96	440

CERTIFICATION: Jhai D'Ma

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: JORDEX RESOURCES INC.
ATTN: MOE YOUNG
1507 - 1030 W. GEORGIA ST.
VANCOUVER, BC
V6E 2Y3

Project : WANN-22
Comments: CC: DAIWAN ENGINEERING LTD.

Certificate Date: 13-MAY-92
Invoice No. :19214520
P.O. Number :
Account :EEP

CERTIFICATE OF ANALYSIS A9214520

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
37315	244	205	1	0.08	6	870	10	< 2	12	88	0.24	< 10	< 10	148	< 10	28
37316	244	205	2	0.09	5	780	10	< 2	13	113	0.24	< 10	< 10	144	< 10	40
37317	244	205	< 1	0.11	4	680	18	4	6	161	0.11	< 10	< 10	121	< 10	54
37318	244	205	1	0.19	8	720	10	2	5	161	0.19	< 10	< 10	186	< 10	52
37319	244	205	< 1	0.20	7	780	14	< 2	5	151	0.16	< 10	< 10	183	< 10	60
37320	244	205	5	0.15	8	710	16	2	6	133	0.15	< 10	< 10	167	< 10	110
37321	244	205	3	0.16	5	670	8	2	4	108	0.11	< 10	< 10	155	< 10	74
37322	244	205	4	0.21	7	710	10	< 2	4	119	0.13	< 10	< 10	143	< 10	66
37323	244	205	1	0.14	8	710	10	< 2	6	117	0.14	< 10	< 10	159	< 10	78
37324	244	205	1	0.17	8	760	< 2	< 2	4	148	0.14	< 10	< 10	174	< 10	44
37325	244	205	1	0.15	8	750	2	2	6	172	0.13	< 10	< 10	170	< 10	70
37326	244	205	2	0.10	5	640	2	2	3	93	0.09	< 10	< 10	132	< 10	32
37327	244	205	1	0.09	4	520	< 2	< 2	2	81	0.06	< 10	< 10	96	< 10	24
37328	244	205	1	0.14	5	580	6	2	2	94	0.08	< 10	< 10	119	< 10	28
37329	244	205	1	0.15	4	640	6	< 2	2	115	0.09	< 10	< 10	132	< 10	40
37330	244	205	< 1	0.11	5	600	4	< 2	3	98	0.06	< 10	< 10	112	< 10	44

CERTIFICATION: Thai D Ma

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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To: JORDEX RESOURCES INC.
ATTN: MOE YOUNG
1507 - 1030 W. GEORGIA ST.
VANCOUVER, BC
V6E 2Y3

Project : WANN-23
Comments: CC: DAIWAN ENGINEERING

Certificate Date: 10-MAY-92
Invoice No. :I9214192
P.O. Number :
Account :EEP

CERTIFICATE OF ANALYSIS A9214192

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
37331	205 274	< 5	< 0.5	9	40	3.34	270	1	4	5	28
37332	205 274	< 5	< 0.5	10	67	3.30	290	< 1	4	< 5	26
37333	205 274	< 5	< 0.5	8	25	3.31	220	1	4	5	22
37334	205 274	< 5	< 0.5	10	25	3.37	255	1	4	5	28
37335	205 274	< 5	< 0.5	11	44	3.72	305	< 1	6	< 5	32
37336	205 274	< 5	< 0.5	9	27	3.53	320	< 1	5	< 5	30
37337	205 274	< 5	< 0.5	10	43	3.38	290	< 1	5	5	28
37338	205 274	< 5	< 0.5	11	367	3.64	295	< 1	7	5	28
37339	205 274	< 5	< 0.5	11	55	3.62	275	< 1	6	< 5	24
37340	205 274	< 5	< 0.5	16	101	4.88	695	< 1	9	10	78
37341	205 274	< 5	< 0.5	14	83	4.46	550	1	6	< 5	62
37342	205 274	< 5	< 0.5	16	72	4.73	620	1	8	5	60
37343	205 274	< 5	< 0.5	14	86	4.34	630	1	8	5	62
37344	205 274	< 5	< 0.5	15	74	4.57	500	1	9	5	52
37345	205 274	< 5	< 0.5	13	81	4.17	395	1	7	5	54
37346	205 274	< 5	< 0.5	12	77	4.12	415	< 1	6	10	62
37347	205 274	< 5	< 0.5	12	69	3.72	385	2	5	< 5	48
37348	205 274	< 5	< 0.5	13	76	4.15	355	3	7	5	40
37349	205 274	< 5	< 0.5	12	78	3.81	265	1	6	5	28
37350	205 274	< 5	< 0.5	9	44	3.34	295	< 1	5	5	30
37351	205 274	< 5	< 0.5	10	59	3.51	315	< 1	6	< 5	30
37352	205 274	< 5	< 0.5	12	61	4.03	365	< 1	7	5	30
37353	205 274	< 5	< 0.5	11	64	3.99	500	1	8	< 5	36
37354	205 274	< 5	< 0.5	10	75	3.66	320	1	7	5	26
37355	205 274	< 5	< 0.5	14	91	3.87	275	1	6	5	24
37356	205 274	< 5	< 0.5	13	95	4.08	280	1	6	< 5	28
37357	205 274	< 5	< 0.5	10	47	3.90	325	1	5	< 5	22
37358	205 274	< 5	< 0.5	12	54	4.28	475	1	6	< 5	40
37359	205 274	< 5	< 0.5	14	66	4.26	320	< 1	6	5	22
37360	205 274	< 5	< 0.5	13	79	4.04	440	1	6	< 5	32
37361	205 274	< 5	< 0.5	21	92	4.54	565	1	10	5	40
37362	205 274	< 5	< 0.5	33	360	6.21	415	1	13	5	40
37363	205 274	< 5	< 0.5	18	169	4.27	415	1	8	10	46
37364	205 274	< 5	< 0.5	13	56	4.20	345	1	7	< 5	22
37365	205 274	< 5	< 0.5	14	79	4.21	405	1	7	5	28
37366	205 274	< 5	< 0.5	18	124	4.39	380	< 1	9	5	30
37367	205 274	< 5	< 0.5	21	168	4.30	485	< 1	9	10	42

CERTIFICATION: John D'Ma

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To: JORDEX RESOURCES INC.
ATTN: MOE YOUNG
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VANCOUVER, BC
V6E 2Y3

Project : WANN-23
Comments: CC: DAIWAN ENGINEERING LTD.

Page Number :1-A
Total Pages :1
Certificate Date: 13-MAY-92
Invoice No. :19214530
P.O. Number :
Account :EEP

CERTIFICATE OF ANALYSIS A9214530

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
37331	244	205	< 5	< 0.2	2.98	12	30	< 0.5	< 2	2.28	< 0.5	10	32	41	3.41	< 10	< 1	0.11	10	0.75	285
37332	244	205	< 5	< 0.2	2.92	10	50	< 0.5	< 2	2.11	< 0.5	11	30	71	3.55	< 10	1	0.11	10	0.84	325
37333	244	205	< 5	< 0.2	2.55	2	40	< 0.5	< 2	1.92	< 0.5	8	30	26	3.46	< 10	< 1	0.11	10	0.72	235
37334	244	205	< 5	< 0.2	2.51	6	50	< 0.5	< 2	1.91	< 0.5	10	27	25	3.39	< 10	< 1	0.10	10	0.86	255
37335	244	205	< 5	< 0.2	2.62	4	80	< 0.5	< 2	1.95	< 0.5	12	36	45	3.78	< 10	< 1	0.13	10	1.02	310
37336	244	205	< 5	< 0.2	2.51	2	50	< 0.5	< 2	2.18	< 0.5	10	32	26	3.41	< 10	< 1	0.10	10	0.91	310
37337	244	205	< 5	< 0.2	2.40	2	60	< 0.5	< 2	1.80	< 0.5	10	34	44	3.44	< 10	< 1	0.11	10	1.05	295
37338	244	205	< 5	< 0.2	2.56	< 2	40	< 0.5	< 2	1.92	< 0.5	11	43	372	3.60	< 10	1	0.08	10	1.02	280
37339	244	205	< 5	< 0.2	2.34	< 2	60	< 0.5	< 2	1.69	< 0.5	11	43	56	3.63	< 10	< 1	0.11	10	1.02	260
37340	244	205	< 5	< 0.2	2.79	26	60	< 0.5	< 2	2.44	< 0.5	15	40	96	4.72	< 10	< 1	0.10	10	1.59	675
37341	244	205	< 5	< 0.2	2.82	14	60	< 0.5	< 2	2.27	< 0.5	16	39	84	4.55	< 10	< 1	0.14	10	1.24	560
37342	244	205	< 5	< 0.2	3.23	22	40	< 0.5	< 2	2.40	< 0.5	17	38	75	4.96	< 10	< 1	0.18	10	1.80	655
37343	244	205	< 5	< 0.2	3.70	52	50	< 0.5	< 2	3.47	< 0.5	16	38	92	4.68	< 10	< 1	0.11	10	1.63	685
37344	244	205	< 5	< 0.2	3.01	22	210	< 0.5	< 2	2.91	< 0.5	15	42	71	4.50	< 10	< 1	0.17	10	1.22	500
37345	244	205	< 5	< 0.2	2.78	8	30	< 0.5	< 2	2.25	< 0.5	13	33	83	4.33	< 10	< 1	0.14	10	0.95	430
37346	244	205	< 5	< 0.2	2.76	10	20	< 0.5	< 2	2.26	< 0.5	13	31	79	4.20	< 10	< 1	0.12	10	1.01	430
37347	244	205	< 5	< 0.2	3.04	26	20	< 0.5	< 2	2.75	< 0.5	13	25	73	4.00	< 10	< 1	0.09	10	0.96	410
37348	244	205	< 5	< 0.2	2.64	18	40	< 0.5	< 2	2.25	< 0.5	13	31	79	4.33	< 10	< 1	0.13	10	0.91	370
37349	244	205	< 5	< 0.2	2.70	8	30	< 0.5	< 2	2.11	< 0.5	13	31	83	4.06	< 10	< 1	0.11	10	0.69	275
37350	244	205	< 5	< 0.2	2.64	12	50	< 0.5	< 2	1.91	< 0.5	10	42	47	3.55	< 10	2	0.11	10	1.01	315
37351	244	205	< 5	< 0.2	2.51	< 2	60	< 0.5	< 2	1.75	< 0.5	11	46	62	3.74	< 10	< 1	0.10	10	1.05	350
37352	244	205	< 5	< 0.2	3.45	16	40	< 0.5	< 2	2.71	< 0.5	12	33	65	4.35	< 10	< 1	0.13	10	0.95	405
37353	244	205	< 5	< 0.2	3.95	34	50	< 0.5	< 2	3.77	< 0.5	14	31	70	4.42	< 10	< 1	0.09	10	1.35	555
37354	244	205	< 5	< 0.2	3.64	8	30	< 0.5	< 2	2.91	< 0.5	13	29	82	4.03	< 10	1	0.12	10	0.84	355
37355	244	205	< 5	< 0.2	3.09	< 2	40	< 0.5	< 2	2.43	< 0.5	16	30	98	4.18	< 10	< 1	0.12	10	0.75	300
37356	244	205	< 5	< 0.2	3.15	18	50	< 0.5	< 2	2.32	< 0.5	15	34	106	4.51	< 10	< 1	0.16	10	0.88	325
37357	244	205	< 5	< 0.2	2.95	28	40	< 0.5	< 2	3.02	< 0.5	12	37	57	4.59	< 10	< 1	0.15	10	0.95	390
37358	244	205	< 5	< 0.2	3.15	18	50	< 0.5	< 2	3.06	< 0.5	14	41	60	4.69	< 10	< 1	0.16	10	1.43	530
37359	244	205	< 5	< 0.2	2.95	4	30	< 0.5	< 2	2.05	< 0.5	13	40	71	4.64	< 10	1	0.12	10	0.97	345
37360	244	205	< 5	< 0.2	3.25	2	30	< 0.5	< 2	2.15	< 0.5	14	37	84	4.39	< 10	< 1	0.12	< 10	1.43	470
37361	244	205	< 5	< 0.2	3.66	16	20	< 0.5	< 2	2.10	< 0.5	22	38	98	4.83	< 10	< 1	0.09	10	2.13	595
37362	244	205	< 5	< 0.2	3.86	42	30	< 0.5	< 2	2.34	< 0.5	36	37	418	7.21	< 10	1	0.10	10	2.10	480
37363	244	205	< 5	< 0.2	3.67	12	40	< 0.5	< 2	2.40	< 0.5	19	36	180	4.62	< 10	< 1	0.12	10	1.71	450
37364	244	205	< 5	< 0.2	2.93	14	40	< 0.5	< 2	2.16	< 0.5	12	33	58	4.43	< 10	< 1	0.13	10	0.83	365
37365	244	205	< 5	< 0.2	2.96	12	30	< 0.5	< 2	2.68	< 0.5	15	33	86	4.57	< 10	< 1	0.12	10	0.99	450
37366	244	205	< 5	< 0.2	2.84	10	20	< 0.5	< 2	2.07	< 0.5	18	29	121	4.37	< 10	< 1	0.11	10	0.97	385
37367	244	205	< 5	< 0.2	2.99	12	30	< 0.5	< 2	2.10	< 0.5	23	34	175	4.48	< 10	< 1	0.12	10	1.35	505

CERTIFICATION: Thai D Ma

Chemex Labs Ltd.

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PHONE: 604-984-0221

To: JORDEX RESOURCES INC.
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1507 - 1030 W. GEORGIA ST.
VANCOUVER, BC
V6E 2Y3

Project : WANN-23
Comments: CC: DAIWAN ENGINEERING LTD.

Certificate Date: 13-MAY-92
Invoice No. :I9214530
P.O. Number :
Account :EEP

CERTIFICATE OF ANALYSIS A9214530

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
37331	244 205	1	0.15	5	580	2	< 2	3	108	0.09	< 10	< 10	122	< 10	28
37332	244 205	1	0.19	6	600	< 2	2	2	133	0.10	< 10	< 10	131	< 10	28
37333	244 205	2	0.22	5	600	4	2	2	106	0.09	< 10	< 10	134	< 10	24
37334	244 205	< 1	0.18	5	570	4	< 2	2	96	0.09	< 10	< 10	131	< 10	28
37335	244 205	1	0.23	6	640	< 2	< 2	3	99	0.15	< 10	< 10	153	< 10	32
37336	244 205	< 1	0.17	5	590	4	< 2	3	87	0.12	< 10	< 10	131	< 10	30
37337	244 205	< 1	0.16	6	600	2	< 2	3	74	0.11	< 10	< 10	132	< 10	30
37338	244 205	1	0.20	7	620	8	< 2	2	88	0.12	< 10	< 10	140	< 10	28
37339	244 205	< 1	0.20	7	580	< 2	< 2	2	83	0.12	< 10	< 10	144	< 10	24
37340	244 205	1	0.10	9	770	2	< 2	12	81	0.17	< 10	< 10	155	< 10	74
37341	244 205	1	0.20	9	800	8	< 2	7	108	0.19	< 10	< 10	160	< 10	62
37342	244 205	2	0.12	10	800	8	< 2	12	101	0.19	< 10	< 10	149	< 10	60
37343	244 205	< 1	0.11	9	810	2	< 2	13	107	0.19	< 10	< 10	159	< 10	64
37344	244 205	2	0.20	9	810	4	< 2	6	114	0.19	< 10	< 10	158	< 10	50
37345	244 205	1	0.20	8	790	10	< 2	4	105	0.18	< 10	< 10	145	< 10	54
37346	244 205	< 1	0.13	8	750	4	< 2	5	84	0.19	< 10	< 10	143	< 10	64
37347	244 205	1	0.10	7	710	8	< 2	5	86	0.14	< 10	< 10	132	< 10	50
37348	244 205	1	0.20	8	750	6	< 2	4	106	0.17	< 10	< 10	152	< 10	40
37349	244 205	1	0.19	8	700	2	< 2	2	105	0.13	< 10	< 10	141	< 10	28
37350	244 205	< 1	0.23	6	620	< 2	< 2	3	102	0.14	< 10	< 10	140	< 10	30
37351	244 205	< 1	0.24	7	630	< 2	< 2	3	104	0.16	< 10	< 10	150	< 10	32
37352	244 205	1	0.17	8	790	6	< 2	5	110	0.17	< 10	< 10	150	< 10	30
37353	244 205	1	0.11	9	800	8	< 2	11	114	0.16	< 10	< 10	145	< 10	40
37354	244 205	1	0.15	8	790	6	< 2	4	112	0.14	< 10	< 10	140	< 10	26
37355	244 205	1	0.18	8	780	6	< 2	3	115	0.12	< 10	< 10	143	< 10	26
37356	244 205	< 1	0.23	7	840	4	< 2	5	123	0.17	< 10	< 10	162	< 10	30
37357	244 205	2	0.18	8	850	8	< 2	6	120	0.16	< 10	< 10	165	< 10	26
37358	244 205	< 1	0.17	8	820	8	< 2	13	115	0.21	< 10	< 10	176	< 10	46
37359	244 205	< 1	0.22	10	840	6	< 2	5	109	0.16	< 10	< 10	165	< 10	24
37360	244 205	< 1	0.15	9	810	8	< 2	8	120	0.17	< 10	< 10	155	< 10	34
37361	244 205	1	0.09	10	780	8	< 2	12	97	0.19	< 10	< 10	156	< 10	42
37362	244 205	3	0.10	17	820	8	< 2	16	142	0.25	< 10	< 10	160	< 10	44
37363	244 205	1	0.13	10	820	6	< 2	11	150	0.21	< 10	< 10	163	< 10	50
37364	244 205	< 1	0.20	8	740	6	< 2	3	125	0.16	< 10	< 10	154	< 10	22
37365	244 205	1	0.17	9	790	4	< 2	4	116	0.17	< 10	< 10	160	< 10	30
37366	244 205	< 1	0.13	10	740	6	< 2	3	116	0.18	< 10	< 10	148	< 10	30
37367	244 205	1	0.14	10	780	8	< 2	7	116	0.24	< 10	< 10	157	< 10	42

CERTIFICATION: Thai D'Ma

Chemex Labs Ltd.

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To: JORDEX RESOURCES INC.
ATTN: MOE YOUNG
1507 - 1030 W. GEORGIA ST.
VANCOUVER, BC
V6E 2Y3

Project : WANN
Comments: CC: DAIWAN ENGINEERING LTD.

CERTIFICATE OF ANALYSIS A9213514

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
57764	205	274	< 5	< 0.2	3.01	< 2	110	< 0.5	< 2	1.35	< 0.5	15	20	18	3.77	< 10	< 1	0.23	< 10	0.88	720
57765	205	274	< 5	< 0.2	3.30	14	120	< 0.5	< 2	1.54	< 0.5	14	22	20	4.39	< 10	< 1	0.25	< 10	0.85	590
57766	205	274	< 5	< 0.2	3.86	4	80	< 0.5	< 2	1.68	< 0.5	16	25	38	4.56	10	< 1	0.19	< 10	1.35	735
57767	205	274	< 5	< 0.2	2.99	6	80	< 0.5	< 2	2.09	< 0.5	16	20	23	4.37	< 10	< 1	0.23	< 10	0.98	640
57768	205	274	< 5	< 0.2	0.63	8	20	< 0.5	< 2	0.21	< 0.5	22	15	28	5.07	< 10	< 1	0.28	< 10	0.06	90
57769	205	274	< 5	< 0.2	2.82	2	70	< 0.5	< 2	1.52	< 0.5	17	23	73	5.03	< 10	< 1	0.30	< 10	1.48	570
57770	205	274	< 5	< 0.2	3.10	< 2	50	< 0.5	< 2	0.59	< 0.5	14	19	15	4.96	10	< 1	0.14	< 10	1.80	460
57771	205	274	< 5	< 0.2	3.60	16	160	< 0.5	< 2	0.95	< 0.5	24	118	199	5.11	10	< 1	0.07	< 10	2.49	645
57772	205	274	< 5	< 0.2	1.82	< 2	60	< 0.5	< 2	0.85	< 0.5	4	32	6	1.44	< 10	< 1	0.08	< 10	0.65	355
57773	205	274	< 5	< 0.2	2.12	< 2	40	< 0.5	< 2	0.71	< 0.5	5	28	16	2.83	< 10	< 1	0.10	< 10	0.86	415
57774	205	274	< 5	< 0.2	1.80	< 2	40	< 0.5	< 2	0.74	< 0.5	10	21	44	3.11	< 10	< 1	0.10	10	0.94	425
57775	205	274	< 5	< 0.2	4.63	< 2	60	< 0.5	< 2	2.32	< 0.5	13	30	129	4.36	10	< 1	0.10	< 10	0.92	510

CERTIFICATION: Thai D'Ma

Chemex Labs Ltd.

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V6E 2Y3

Project : WANN
Comments: CC: DAIWAN ENGINEERING LTD.

Page Number :1-B
Total Pages :1
Certificate Date: 29-APR-9
Invoice No. :I9213514
P.O. Number :
Account :EEP

CERTIFICATE OF ANALYSIS A9213514

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
57764	205	274	2	0.04	9	630	6	2	4	69	0.10	< 10	< 10	51	< 10	46
57765	205	274	1	0.05	9	620	4	< 2	4	83	0.08	< 10	< 10	56	< 10	32
57766	205	274	5	0.04	15	610	8	2	5	85	0.09	< 10	< 10	71	< 10	56
57767	205	274	6	0.02	10	740	4	4	4	46	0.06	< 10	< 10	50	< 10	50
57768	205	274	6	0.02	17	720	10	2	1	16	< 0.01	< 10	< 10	11	< 10	6
57769	205	274	2	0.04	14	620	8	< 2	8	36	0.06	< 10	< 10	90	< 10	38
57770	205	274	1	0.03	14	440	8	< 2	12	32	0.17	< 10	< 10	136	< 10	30
57771	205	274	< 1	0.04	69	780	14	< 2	14	91	0.21	< 10	< 10	119	< 10	66
57772	205	274	< 1	0.04	3	320	< 2	< 2	5	43	0.08	< 10	< 10	35	< 10	38
57773	205	274	3	0.03	4	390	4	< 2	6	40	0.09	< 10	< 10	47	< 10	28
57774	205	274	1	0.05	6	550	4	2	4	59	0.12	< 10	< 10	102	< 10	52
57775	205	274	< 1	0.35	13	710	10	2	4	254	0.16	< 10	< 10	129	< 10	64

CERTIFICATION: Jhai D. Ma

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To: JORDEX RESOURCES INC.
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Project : WANN
Comments: CC: DAIWAN ENGINEERING LTD.

Page Number :1-A
Total Pages :1
Certificate Date: 03-MAY-9
Invoice No. :I9213830
P.O. Number :
Account :EEP

CERTIFICATE OF ANALYSIS A9213830

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
57776	205	274	< 5	< 0.2	1.86	6	50	0.5	2	1.27	< 0.5	17	100	79	4.24	10	< 1	0.17	10	1.35	630
57777	205	274	< 5	< 0.2	2.04	< 2	70	< 0.5	< 2	1.19	< 0.5	16	58	68	4.32	< 10	< 1	0.14	< 10	1.29	480
57778	205	274	< 5	< 0.2	2.57	2	250	< 0.5	< 2	1.48	< 0.5	16	73	60	4.09	10	< 1	0.14	< 10	1.46	525
57779	205	274	< 5	< 0.2	2.66	< 2	180	< 0.5	< 2	1.57	< 0.5	16	59	55	4.14	10	< 1	0.14	< 10	1.52	570
57780	205	274	< 5	< 0.2	2.43	14	120	< 0.5	2	1.40	< 0.5	15	70	41	3.99	< 10	< 1	0.16	< 10	1.16	470
57781	205	274	< 5	< 0.2	2.21	8	50	< 0.5	2	0.69	< 0.5	19	70	157	3.93	< 10	< 1	0.23	< 10	1.76	445
57782	205	274	< 5	1.6	4.24	10	80	< 0.5	2	3.49	1.0	10	119	1615	2.02	< 10	< 1	0.13	< 10	0.73	1110

CERTIFICATION: Jhai D'Ma

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To: JORDEX RESOURCES INC.
ATTN: MOE YOUNG
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VANCOUVER, BC
V6E 2Y3

Project : WANN
Comments: CC: DAIWAN ENGINEERING LTD.

Certificate Date: 03-MAY-9
Invoice No. :19213830
P.O. Number :
Account :EEP

CERTIFICATE OF ANALYSIS A9213830

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
57776	205	274	1	0.09	12	820	< 2	2	11	48	0.16	< 10	< 10	134	< 10	44
57777	205	274	1	0.17	9	760	2	< 2	4	80	0.17	< 10	< 10	158	< 10	40
57778	205	274	< 1	0.13	8	620	2	2	8	217	0.19	< 10	< 10	145	< 10	42
57779	205	274	< 1	0.16	11	730	< 2	2	8	277	0.18	< 10	< 10	148	< 10	44
57780	205	274	< 1	0.20	9	730	2	2	5	129	0.18	< 10	< 10	137	< 10	34
57781	205	274	7	< 0.01	10	620	18	2	4	26	0.03	< 10	< 10	47	< 10	30
57782	205	274	9	0.04	5	220	56	4	2	213	0.03	< 10	< 10	22	< 10	486

CERTIFICATION: Thai D Ma

APPENDIX 2

DRILL LOGS

Daiwan Engineering Ltd.
1030 - 609 Granville Street, Vancouver, B.C. V7Y 1G5
Phone: (604) 688-1508

DRILL NO. W-92-1

DRILL LOG

PROJECT Wann

CONTRACTOR Olympic Drilling

DATE STARTED March 30/92 COMPLETED April 1/92

LOGGED BY G. McGilvray

T.D. 166.72m (547') COLLAR ELEVATION 460' (140.24

INCLINATION -90° BEARING —

COORDINATES 26209E / 22597N N

SURVEY REFERENCES

NOTE: Acid test -87° at 166.72 m CASING LEFT IN HOLE

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Argil	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_5FeS_4	Fe_2O_3	MoS_2	Sample No & Interval	LOG: BASIC GEOLOGY (rock types, metallization, structures, alterations, one column system)	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
15																			1			Tr		15.15 Start carb vlts to 2 mm	0.0 – 15.15 Ovb + Casing 15.15 – 26.85 ANDESITE PORPHYRY – Approx. 40-55% subhedral Feldspar phenos within pale bluish-green chlorite matrix, numerous narrow (10-40 cm) intervals of fault gouge. Dissem py throughout 1-2% av. Rock is moderately to locally intensely fractured; soft, with clays lining irregular fracture sfcs. Feldspar phenos weakly altered; milky white rims locally. Local specks red-brown hematite	
17																	L-1						79101	2 fault; 1 cm light grey gouge + f. bkn core @ 15°		
19																	L-1						79102	3cm fault gouge @ 50° pale grey clayey gouge.		
21																										
23																	L-1						79103	abund. pale grey clayey gouge over 30 cm.		
25																	L-1		1-2				79104	26.14 Silicification (mod.) to 30.8	26.85-28.40 SILICIFIED ANDESITE PORPHYRY – pervasive siliceous milky white color, weak argillic ALT (maroon color), no visible feldspar phenos, ~8% finely dissem py along interval.	
27																			8							

DDH NO. W-92-1 **DRILL LOG** Page 2 of 13

PROJECT Wann
CONTRACTOR
DATE STARTED COMPLETED
LOGGED BY

T.D.
INCLINATION -90°
COORDINATES
SURVEY REFERENCES

COLLAR ELEVATION
BEARING

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE / BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
27																							79105	10cm brecciated zone, subangular clasts (3cm) within brown clay mtx sooty py bands to 2 cm.	28.40 - 90.25 ANDESITE PORPHYRY: 40-45%, subhedral feldspar phens, pale blueish green f.g. chl mtx., narrow (<50cm) fault/shear zones, py dissem. throughout, <1% carb stringers, chloritized hnbd laths	
29																			8							
31																			2				79106			
																			3							
33																			10							
																							79107	pinkish brown clay blobs 2mm across. Fault/Shear - mod. to locally intensely fract. light grey clays lining fract. surfaces		
35																			12							
37																							79108	1cm carb vft @ 50°.		
39																										

DLE NO. W-92-1 **DRILL LOG** Page 3 of 13

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
39																		1-2	Tr							
41																	L-1						79109			
43																	L-1						79110	△△ 15cm zone of mod. brecciation 4cm carb. rich faultgouge 3-5 mm qtz.-carb. veinlet CA ≈ 25°		
45																		Tr?					79111	2 ft faultgouges △ 10cm zone of mod. broken core		
47																	L-1									
49																	L-1						79112	1-5mm faultslip, CA≈30°		
51																		1-2	Tr							

DDH NO. W-92-1 **DRILL LOG** Page 4 of 13

PROJECT Wann
CONTRACTOR
DATE STARTED COMPLETED
LOGGED BY

T.D. COLLAR ELEVATION
INCLINATION -90° BEARING
COORDINATES
SURVEY REFERENCES

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_3FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE / BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
51																			1-2		Tr		79113	516-526 - Zone of mod deform partially brecciated + broken core, Py stringers + clots		
53																	L.1		4-5							
																			1-2							
55																							79114	550-585 Numerous 1-5 mm carb. veinlets erratic orient		
																	L.1								
57																							79115	2cm faultgouge, CA≈60°		
																								2/1 1-2cm faultgouges CA≈50-60		
																	L.1							4cm faultgouge, CA=60°		
59																								590-652 Dark grey py veinlets + stringers? 1-5 mm wide, finely dissem		
																			5-6					pale brown argillic (wk) clay specs + blots ≈2 mm diam. L17.		
61																	L.1						79116			
63																					Tr					

HOLE NO. W-92-1 **DRILL LOG** Page 5 of 13

PROJECT Waan T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION -90° BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_3$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
63																			5-6		Tr					
65																	L.1						79117	mod. silicif over 2.5 m int.		
67																	L.1		5-6 / 1-2				79118	50cm zone of brecciated & wkly brk core 60cm zone same as above		
69																	L.1						79119	50cm zone of mod. brecciated & brk core. 25cm same as above 15cm weak shear CA = 40°		
71																	L.1						79120	10cm broken core 71.8 - 73.0 1-2% carb. vlts & stringers, erratic orient.		
73																	L.1									
75																										

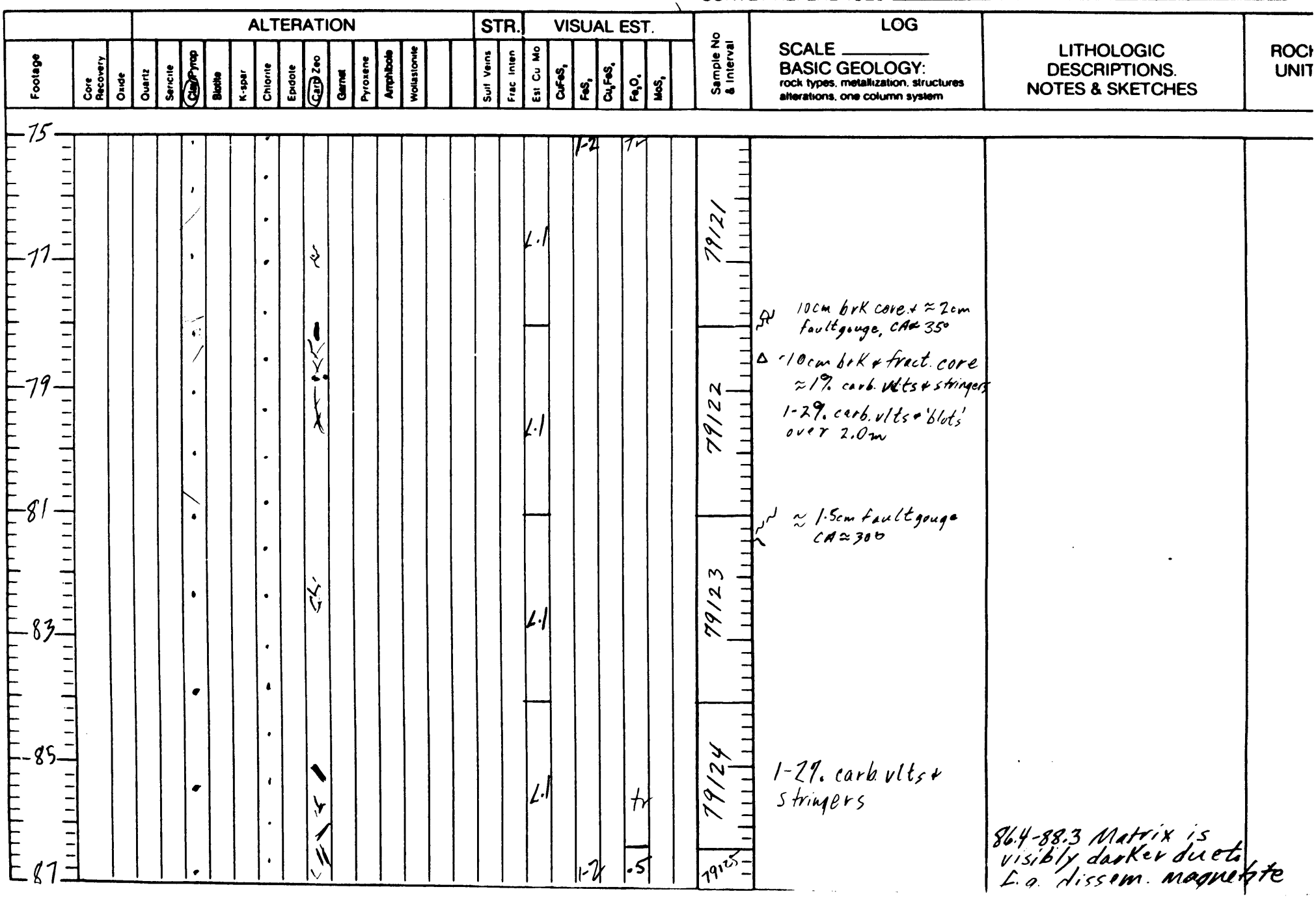
OLE NO. W-92-1 | D L LOG | Page 6 of 13

PROJECT Wann | T.D. _____ | COLLAR ELEVATION _____

CONTRACTOR _____ | INCLINATION -90° | BEARING _____

DATE STARTED _____ COMPLETED _____ | COORDINATES _____

LOGGED BY _____ | SURVEY REFERENCES _____



DDH NO. W-92-1 **DRILL LOG** Page 7 of 13

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_3$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
87																										
																	0.1		1-2		0.5		79125	88.3		
89																	<0.1				Tr		79126	1.0cm fault gouge, CA≈30°		
																			3-4				79127	1.0cm fault gouge CA≈45°	90.25-99.30 FELSIC CRYSTAL TUFF - locally distinct white feld crystals, over intervals of up to 30cm, wk. primary bedding (S$_0$) throughout @ approx. 60° pale grey mod. silicified fine grained to aphanitic mtx., av. xystal size 1-3mm, up to 5mm, narrow intervals intensely fract'd soft (<30cm) 3-4% py, dissem, irregular masses + minor erratic py vlts. Transitional contact with 94.74-95.27 Breccia band with wk-mod. planar fabric @ ≈60	
91																	<0.1									
93																							79128	mod sil. → subang. clasts to 4mm		
95																	<0.1									
																							79129		92.8-95.0 'Patchy' mod. silicif.	
97																	<0.1									
99																										

DDH NO. W-92-1 **DRILL LOG** Page 8 of 13

PROJECT Wann
CONTRACTOR
DATE STARTED COMPLETED
LOGGED BY

T.D. COLLAR ELEVATION
INCLINATION -90° BEARING
COORDINATES
SURVEY REFERENCES

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE / BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
99																			3-4			Tr			99.30–113.26 ANDESITE PORPHYRY – as for previous descrip. from 28.40–90.25 m except matrix is light to dark grey in appearance & feldspar phenocrysts are partially obscure.	
																			1-2							
101																	L.1						79130	50cm int. of mod. fracturing		
103																	L.1		4-5				79131			
105																	L.1						79132			
107																								5mm fault slip CA ≈ 35°		
109																	L.1						79133			
111																										

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PROJECT Wann
CONTRACTOR
DATE STARTED COMPLETED
LOGGED BY

T.D. COLLAR ELEVATION
INCLINATION -90° BEARING
COORDINATES
SURVEY REFERENCES

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Gar/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS2	FeS2	Cu2FeS3	Fe2O3	MoS2	Sample No & Interval	LOG: SCALE / BASIC GEOLOGY: rock types, metallization, structures alterations, ore column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
111																										
113																	L.1		4.5 / 3				79134		113.26–118.45 FAULT/SHEAR ZONE – mod. cataclastic (brittle) deform. producing a weak granulated fabric expressed by subangular clast within a clay-rich mtx, wkly defined fabric @ ≈50°, 20-30% remnant subangular fragments	
115																	L.1						79135	py vlt ~1 mm wide @ 35°		
117																								py	118.45–124.75 ANDESITIC TUFF – faintly visible feldspar xystals, pale grey-brown aphanitic to f.g. ash mtx. larger feld. crystals up to 3 mm diam., wkly defined planar (So) bedding @ 50°	
119																	L.1		20 / 10				79136	py vlts; finely dissem. py within 'wispy' bands		
121																	L.1		3				79137			
123																										

HOLE NO. W-92-1 **DRILL LOG** Page 10 of 13

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Ca-Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb-Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Infen	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_5$FeS$_4$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
123																			8-10		Tr					
125																	.1		2-3				79138	NN Fault slip @ 45°	124.75 – 155.15 ANDESITE PORPHYRY – 50-55% subhedral feldspar phenocrysts within aphanitic to f.g. chloritic matrix, locally moderate epidotization of feld. pheno's ≈1% carb. veinlets & stringers no visible bedding, narrow (<30cm) intervals of WK cataclastic deformation. This unit is in fault contact with overlying Tuff unit.	
127																							79139	NN 1.0 cm fault gouge @ 30°		
																	.1				1-2			Δ 10cm broken core		
129																					Tr					
131																	.1				1-2		79140	NN 10cm fault/shear partially clay gouge @ 30° Δ	148.2 – 155.2 Significant decrease in % of feldspar pheno's towards lower section of this unit; increasingly more ash-rich tuff	
																					Tr					
133																	.1						79141			
135																			2-3							

PROJECT
CONTRACTOR
DATE STARTED COMPLETED
LOGGED BY
T.D. INCLINATION COORDINATES SURVEY REFERENCES
COLLAR ELEVATION BEARING

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Calc/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_3$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE / BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
135																			2-3		Tr		79142			
137																	L1									
139																	L1						79143			
141																			1-9					4 pyrite stringers ≈1mm	@141.1 Visible color change in mtx, from green chloritic to pale grey argillic? mtx.	
																			2-3				79144			
143																	L1									
145																	L1		5-6				79145	3cm breccia, py		
																			2-3					5cm Fault Breccia 40-45% remnant fragments CA: 30°		
147																					Tr					

DLE NO. W-92-1 | D' .L LOG | Page 12 of 13

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_3$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
147																			Tr							
																			2-3				19146	≈20cm Fault Breccia, 40-50% remnant fragments WK fabric @ 35°		
149																	L.1		6-8					WK Fault/Shear fabric @ 60°		
																								20cm of anastomosing pyrite stringers	@150.0m Transitional color change in matrix from pale grey to pale green chloritic with 'patchy' pale red hematite	
																			12-15							
151																			6-8				19147			
																	L.1									
153																										
																	L.1									
155																			6-8				19148	1.0cm fault gouge @ 40°	155.15 – 156.35 INTENSELY SILICIFIED ANDESITE PORPH pervasive silicification, superimposed on WK-mod pale brown argillic alt'n at top of unit, no vis. phen's lower 20cm weakly brecciated	
																			1-2							
																								156.35 – 158.60 FAULT BRECCIA – Approx. 30-35% subangular remnant fragments within a semi-cohesive pale grey clay matrix, no visible fabric		
157																	L.1		6-8				19149			
159																			11-9							

'OLE NO. W-92-1 D 'L LOG

PROJECT
CONTRACTOR
DATE STARTED COMPLETED
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BEARING

Footage	Chlorite	Est Cu Mo	FeS_2	Cu_5FeS_4	Fe_2O_3	Sample No & Interval	LOG: BASIC GEOLOGY	LITHOLOGIC DESCRIPTIONS, NOTES & SKETCHES
159	•		10-12 / 5-6		Tv		50cm interval of Anastosmosing py stringers	158.60 – 166.72 ANDESITE PORPHYRY – as for previous A.P. from 124.75-155.15 m
	•	L.1				79150		
161	•						50 cm weak fault breccia	
	•						40cm fault bx 50-55% remnant frags, wk fabric @ 30°	
163	•	L.1			1-2 / Tv	79901	162.5-163.5 'patchy' red hematite	
165	•						1.0cm fault gouge @ 50°	
	•	L.1	9-10	5-6	1-2	79902	60cm 'patchy' red hematite & 'wispy' dissem py	
167							E.O.H. 166.72 m	

Other column headings (blank): SCALE; Core Recovery; Oxide; Quartz (entries at ~166); Sericite; Clay/Pyrop; Biotite; K-spar; Epidote; Carb Zeo; Garnet; Pyroxene; Amphibole; Wollastonite; STR.: Sulf Veins, Frac Inten; $CuFeS_2$; MoS_2; ROCK UNIT

LE NO. W-92-2

DRILL LOG

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PROJECT Waap
CONTRACTOR Olympic Drilling & Consulting
DATE STARTED April 1/92 COMPLETED April 2/92
LOGGED BY G. McGILVRAY

T.D. 79.85m (262 ft) COLLAR ELEVATION 1050' ± (320.
INCLINATION -90° BEARING —
COORDINATES 230204 N / 254661 E ±
SURVEY REFERENCES

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_5FeS_4	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE / BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
23			NOTE: No acid test. CASING PULLED																							
25																	L-1		3-5				79903	23.82 Start of log ≈10cm silicified w.r. xenolith	0.00-23.82 Ovb + Casing Poor core recovery (L50%) is characteristic of this hole. Moderately to Intensely fractured + broken core is evident throughout.	
27																	L-1		Tr2 Tr				79904		23.82-27.60 MV Feldspar Porphyry - Approx. 30-35% subhedral milky (some albite) white feldspar phenocrysts (av. 1-2mm) and only a trace (<0.5%) of blue qtz. eyes within a WK-moderately silicified aphanitic pale-brownish (clay) - dk. grey matrix. WKly defined planar fabric expressed by elongated feldspar pheno's over narrow (<10cm) intervals CA≈40°, py mineralization as blebs + disseminations well-defined 'sharp' distinct contact with under-lying unit CA≈50°	
29																	L-1		1-2				79905			
31																	L-1						79906			
33																	L-1									
35																										

DDH NO. W-92-2 **DRILL LOG** Page 2 of 5

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_3$FeS$_4$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
35		X																								
		X																								
37		X															L.1		1-2				79907		(av. ≈5mm f.g.	
		X																		Tr						
		X																								
39		X																							Minor fault slip @ 30°	
																	L.1						79908			
41		X																								
		X																								
		X															L.1		3-4	1-2			79909			
43		X																								
45																	L.1						79910			
47																										

27.60-31.60 FELSIC CRYSTAL TUFF - 10-15%. subrounded felsic crystals/cla within a moderately silicified pale brownish white matrix, narrow zones (10-20cm) of limonite-stained clay-filled fractures, Tr Py along interval

31.60-43.20 SILICEOUS BRECCIA - poorly sorted subangular felsic clasts (av. 0.5-1.0cm) within a mod. intensely silicified matrix, 'patchy' zones of pervasive orange brown limonitization very vuggy, 2 narrow (20-30c zones of extremely broken core, below 38.5m significant decrease in intensity of silicificat poorly defined gradational contac with overlying Tuffanit, Tr Bornite

43.20-60.10 FAULT BRECCIATIO OF ANDESITE CRYSTAL TUFF

Approx. 40-45% subrounded, poo sorted remnant fragments within a cohesive partially clay grey mtx, WK-mod. cataclastic deformation cont...

DDH NO. W-92-2 **DRILL LOG** Page 3 of 5

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_2$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
47																										
																	L.1		3-4				79911		no visible fabric; enclaves of undeformed host rock from 50.3 to 52.70 (only brk core) and 58.95 to 59.90; h.r. has silica saturated & strongly pyritic matrix; throughout fault breccia zones py occurs within the remn fragments as clots and as seams around fragments, this unit is in fault contact with underlying polylithic breccia tuff unit.	
49																										
																	-		12-15				79912			
51																										
53																	L.1		4-5	Tr			79913			
55																										
57																	L.1						79914			
59																										

HOLE NO. W-92-2 | DRILL LOG | Page 4 of 5

PROJECT ____
CONTRACTOR ____
DATE STARTED ____ COMPLETED ____
LOGGED BY ____
T.D. ____
INCLINATION ____
COORDINATES ____
SURVEY REFERENCES ____
COLLAR ELEVATION ____
BEARING ____

Footage	Core Recovery	Oxide	Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	Sulf Veins	Frac Inten	Est Cu Mo	CuFeS2	FeS2	Cu5FeS4	Fe3O4	MoS2	Sample No & Interval	LOG (Scale ___; Basic Geology: rock types, metallization, structures, alterations, one column system)	Lithologic Descriptions, Notes & Sketches	Rock Unit
59–63			•														L.1		15-20 / 4-5				79915	~10cm minor fault bx	60.10-79.85 POLYLITHIC BRECCIA TUFF - Approx. 20-25% chaotic v. poorly sorted sub-angular rock fragments within a pale to dark grey matrix.	
63–65		[illegible]	•		•												L.1						79916		~64.0-68.8m unit is vuggy and displays 'patchy' wk pale brown argillic alt'n, as well as wk silicic. 68.8-71.7 matrix is moderately silicified; mode of occurrence for py: stringers + 'clots' 71.7-75.3 wkly silicified mtx	
65–68			•		•												L.1						79917		75.30-79.85m matrix mod.ly silicified; py mode of occurrence: blebs + "clots"	
68–71			•		•												L.1		12-15 / 4-5				79918			

DDH NO. W-92-2 **DRILL LOG** Page 5 of 5

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_3$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
71																			12-15				79919			
73																			8-10							
75																			12-15				79920			
77																							79921	3.0 cm wKly brecciated qtz. vein		
79																										
81																								79.85m E.O.H.		

DLE NO. W-92-3 **D' L LOG** Page 1 of 13 (99

PROJECT WANN
CONTRACTOR Olympic Drilling & Consulting
DATE STARTED April 13/92 COMPLETED April 15/92
LOGGED BY G. McGilvray

T.D. 163.97 metres (538 ft) COLLAR ELEVATION 325' asl ±
INCLINATION -90° BEARING —
COORDINATES 225959 N / 255486 E ±
SURVEY REFERENCES

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE / BASIC GEOLOGY: rock types, metallization, structures alterations, ore column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT

Acid test -88° at 163.97 metres. CASING PULLED

17 — 17.37 Start of log — 0.00–17.37 Casing

17.37–31.90 Glacial Till - unconsolidated, poorly sorted, angular rx fragments within pale grey semi-cohesive clay matrix; also strongly broken core wkly dissem. py.

Note that till gave higher magnetic susceptibility readings than did the bedrock within the hole.

19 — L.1 — 79922

21 — L.1 — 79923

23 — L.1 — 79924

25 — L.1 — 79925

27 — L.1

29

1-2

HOLE NO. W-92-3 **DRILL LOG** Page 2 of 13

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
29																										
31								•									L-1						79926	1-1.5cm carbonate (>90%) minor hematite veinlet // to CA	31.90-39.40 ANDESITE PORPHYRY - Approx. 40-45% pale green subhedral + minor euhedral feldspar laths and 5-10% chloritized subhedral mafic phenocrysts within a green chloritic matrix well defined chloritic banding bedding @ 55°; minor py blebs 37.90-39.40 wk to moderate silicification; matrix slightly bleached. This unit is in sharp fault contact with underlying unit @ 60°	
33								•									L-1		1-2				79927	⊬ minor fault gouge/carb. veinlet		
35								•									L-1						79928			
37								•									L-1							3 dark grey py/TrCpy veinlets // to chlorite bands		
39								•									L-1	Tr	3-4				79929	5mm py vlt at fault contact		
41																			45							

'OLE NO. W-92-3 | D' '.L LOG | Page 3 of 13

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Infen	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_3$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
41																			4-5				79930		39.40-60.20 MAJOR FAULT/SHEAR ZONE - moderate cataclastic deformation of Lithic Lapilli Tuff and minor intercalated And. Porpy. unit; approx 5-10% remnant subrounded fragments within a semi-cohesive grey clay matrix; poorly defined planar fabric visible over narrow sections (<20cm) only @ ≈50-60°. py disseminations throughout 40.66-41.76m enclave of undeformed pale brown lithic breccia - tuff displaying well-defined air-fall bedding (S$_0$) @ 50°+ minor (<10%) poorly sorted subangular fragments	
																	Tr		12-15							
43																	L-1		3-4							
45																	L-1						79931	av. fragment size ≈ 3mm		
47																	L-1						79932	3.0cm of 11 carb. vlts @ 25°		
49																	L-1		5-6					2-3% carb./py vlts over 1.0m	47.45-49.10m Narrow enclave of undeformed And. Porpy; same as previous description from 31.9-39.4m	
51																	L-1		10				79933	5mm py-carb vlt		
53																	L-1		5-6						54.90-56.20 enclave of undeformed Lithic lapilli Tuff displaying clots & euhedral crystals of py	

PROJECT ______ T.D. ______ COLLAR ELEVATION ______
CONTRACTOR ______ INCLINATION ______ BEARING ______
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LOGGED BY ______ SURVEY REFERENCES ______

Footage	ALTERATION (Core Recovery, Oxide, Quartz, Sericite, Clay/Pyrop, Biotite, K-spar, Chlorite, Epidote, Carb Zeo, Garnet, Pyroxene, Amphibole, Wollastonite)	STR. (Sulf Veins, Frac Inten)	VISUAL EST. Est Cu Mo	VISUAL EST. FeS_2 (CuFeS₂, Cu₅FeS₄, Fe₂O₃, MoS₂ blank)	Sample No & Interval	LOG (SCALE ___ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system)	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
53–55			L.1	5-6	79934			
55–56	Clay/Pyrop: /			15				
56–60			L.1	8-10	79935	py stringers + bands (1-5mm) // to wK fabric		
60–62	Quartz: · ; Chlorite: ·		L.1	1-2	79936		60.20-73.40 ANDESITE PORPHYRY - Approx. 20% subhedral to euhedral pale greyish green feldspar laths (≈1mm) + ≈ 5-10% chloritized mafic phenocrysts within a medium green chloritic mtX.; This unit has significantly fewer feldspar pheno's than other And. Porpy's, also the pheno's are poorly defined + obscure; wKly dissem. py throughout; at	
62–65	Quartz: · ; Chlorite: ·		L1		79937	73.40m	Fault contact @ 30° with unde[rlying]	

Footage marks: 53, 55, 57, 59, 61, 63, 65

DLE NO. W-92-3 **D' L LOG** Page 5 of 13

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	(Carb)/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
65																									65.4-73.4 Moderate Silicification producing slightly pale green bleached mtx.; increase in amount of feldspar phen's to ≈ 40%.	
67																	L.1		1-2				79938			
69																	L.1						79939			
71																	L.1		6-8%				79940	1-2% carb. vlts (≈1mm) with associated dark grey pyritic envelopes	73.40-91.38 LITHIC LAPILLI Tuff — Approx. 10-15% lapilli size subrounded rx fragments within a pale brown fine-grained ash matrix displaying a wkly defined air-fall bedding fabric @ 50°; finely disempy ⊥ to bedding + wispy clots	
73																										
75																	.1		12-15%				79941	@ 75.6m 3cm crystal of Anthracite coal, black vitreous lustre, soft (H 2-3); carbonaceous material		
77																			6-8%							

'OLE NO. W-92-3 **DRILL LOG** Page 6 of 13

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_3$FeS$_4$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
77																										
79																	L-1		4-5				79942		73.40 – 82.30 Weak to Moderate Cataclastic deform. of lithic lapilli Tuff exhibiting 20-25% remnant fragments within a partially cohesive clayey (pale grey) matrix no visible fabric, py wkly dissem. throughout.	
81																			15							
																	Tr		35				79943	3cm bx zone, strongly pyritic		
83			1														-		4-5							
																			35-40					Pyrophyllite "flake		
85																	÷		12-15				79944	50° 60% finely dissem. py, well-bedded, laminated, 30 cm wide pyritic tuff.		
																	Tr		60							
																			12-15							
87																			10					1cm band of finely dissem py		
																	L-1		12-15				79945	3-4cm zone, strongly py		
																			8-10					30cm section of intense white clay (Kaolin) Altn.		
89			2																							

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PROJECT
CONTRACTOR
DATE STARTED COMPLETED
LOGGED BY
T.D. INCLINATION COORDINATES SURVEY REFERENCES
COLLAR ELEVATION BEARING

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Ca2+Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS2	FeS2	Cu2FeS2	Fe2O3	MoS2	Sample No & Interval	LOG: SCALE / BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
89																										
91																	L-1		8-10				79946	1mm py vlt	91.38-92.07 Quartz Feldspar Porphyry Dyke — ≈30-35% bluish grey subhedral to euhedral feldspars in the within moderately silicified pale greyish green mtx, Tr of qtz eyes only	
93																	L-1		12-15				79947	2m section, py in well-defined laminations and bands	92.07-109.25 MAJOR FAULT ZONE - moderate to locally intense cata clastic deformation of Lithic Tuff displaying (L109. remnant subrounded (x3mm) fragments; pale bluish-whitish cohesive clay rich matrix; 103.80-109.25 moderate whitish Kaolin clay alt'n superimposed on primary clay gouge due to deformation; no visible fabric; py mainly in the form of irregular 'wispy' laminae/bands + minor clots	
95																	L-1		8-10				79948			
97																	L-1		15					Dissem py		
99																	L-1		8-10				79949		96.62-97.12 pale brownish grey mtx; strongly dissem py	
																	L-1		10					irregular wispy py		
101																										

HOLE NO. W-92-3 **DRILL LOG** Page 8 of 13

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Intens	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_5$FeS$_4$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
101																							79950		104.80 – 109.25 mainly undeformed broken core; wkly silicified	
103																	L.1		8-10					'wispy' clots py		
																			25							
																			5-10				79951	@ 104.4 narrow (≈10cm) section of visible fabric, CA = 20°		
105																	L.1									
107																							79952	3 (0.5cm) wispy bands py	109.25 – 122.35 SILICIFIED BRECCIA – Approx 20-25% whitish grey – bluish grey siliceous subangular clasts within a mainly bluish grey weak to moderately silicified aphanitic to fine-grained mtx.; py forms irregular 'wispy' masses in the interstices surrounding the clasts. majority of this unit has been subjected to weak cataclastic deformation.	
109																	L.1		15							
																			5-10							
																			15							
111																	L.1		10-13				79953			
113																										

DRILL NO. W-92-3 **DRILL LOG** Page 9 of 13

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
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DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Sec	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Infen	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_3FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
113																										
115																	.1 Tr		10-13				79954		110.95-112.10 moderately deformed section displaying a partially cohesive, clay-rich matrix.	
										X X									10-13							
117																	.1		17-20	Tr			79955		Δ116.4-116.9 Matrix has an intense blue hue possibly due to finely disem. bornite (bluish spec visible	
119																			8-10				79956		122.35-138.03 FAULT ZONE moderate cataclastic deformat of mainly siliceous breccia and minor interbanded sections of And. porphy produ a wkly granulated + micro-fractured fabric within th sil. breccia unit and a cohesive bluish clay rich gouge with approx. 10% remnant fragments display a fault gouge fabric, py occurs mainly as irregular 'wispy' masses + also finely disem. throughout	
121																	L.1									
																			17-20							
123																	L.1		5-7				79957		@124.05-124.30 well-defined planar Fault Bx fabric @ ≈ 60°	
125																										

DRILL NO. W-92-3 **DRILL LOG** Page 10 of 13

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
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DATE STARTED _____ COMPLETED _____ COORDINATES _____
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Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_3FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
125																										
127																	L-1		8-10				79958	'wispy' dissem pyleneses		
129																	L-1						79959			
131																	L-1		20				79960	strongly dissem. py		
133																	L-1		5-7				79961			
135																	L-1							136.7-136.8 Well-defined planar fabric @ ≈55°		
137																										

PROJECT
CONTRACTOR
DATE STARTED ____ COMPLETED ____
LOGGED BY

T.D. ____ COLLAR ELEVATION
INCLINATION ____ BEARING
COORDINATES
SURVEY REFERENCES

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_3FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE ____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
137																										
139																	L.1		5-7				79962			
141																	L.1		10-12				79963			
143																	L.1						79964			
145																	L.1		6-8				79965			
147																	L.1									
149																										

~40cm fault bx, CA not possible

3.0cm fault gouge @ 46°

~1% amethystal qtz vlts (1-2mm) wide along this interval

138.03-163.97 SILICEOUS BRECCIA — Approx. 5-10% partially obscure pale brown grey - whitish grey subrounded to minor subangular siliceous clasts within a moderately silicified grey aphanitic ash-matrix; py occurs mainly along irregular hairline fractures + also finely dissem. from 138.03 to 144.75

144.75 to 154.09 Weak deformation of Sil. Bx. unit producing narrow sections (20-40cm) of fractured + broken core, same % of clasts as above, although only weakly silicified and the mineralization is mainly finely dissem + minor 'clots' + veinlets

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PROJECT _____ T.D. _____ COLLAR ELEVATION _____
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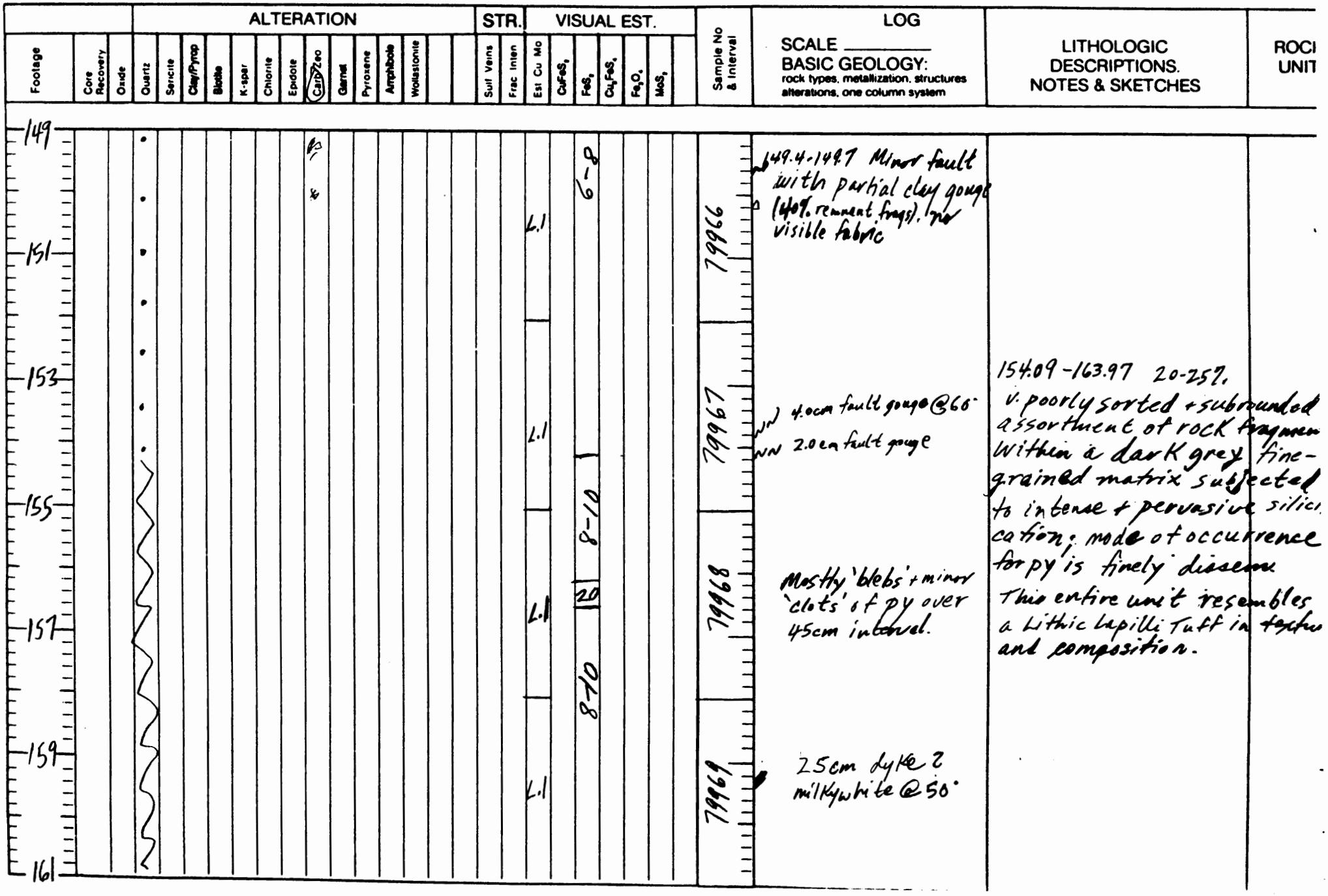
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____



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PROJECT _____ T.D. _____ COLLAR ELEVATION _____

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DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_5FeS_4	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
161																			8-10				79970	finely disem. irregular 'wispy' masses.		
163																			8-10							
165																								E.O.H. 163.97m		

LE NO. W-92-4 **DI L LOG** Page 1 1 6

PROJECT Warm
CONTRACTOR Olympic
DATE STARTED April 5 92 COMPLETED April 6 92
LOGGED BY G. McGilvray

T.D. 105.76m
INCLINATION -90°
COORDINATES 227486 N / 262 033 E ±
COLLAR ELEVATION 370' ± (112.8
BEARING —
SURVEY REFERENCES

NO ACID TEST; CASING PULLED; ARTESIAN FLOW

0.0-39.62 CASING

39.62 Start of Log

39.62-46.35m FAULT ZONE - Moderate to Intense Cataclastic deform of Greyish Lapilli Tuff transitional to med-green Monz./Diorite produc a cohesive, clay rich matrix (40% remnant fragments), no visible fabric, 4-5% Dissem. py

46.35-49.05m SILICEOUS BRECCIA - Approx 40-45% poorly sorted, subrounded pale grey (clay) fragments with a moderately siliceous 'milky white' matrix; 2-3% 'blebs' py

4.0cm fault gouge (grey)

Chlorite pseudomorphs of clasts over 30cm

49.05-55.30 ANDESITE TUFF - massive, fine-grained to aphanitic green chloritic ash-rich tuff, no visible feld laths or matic phenocrysts; moderately silicified 3-4% pale blue-bluish white qtz ± (80%)

3cm breccia

Footage	Core Recovery	Oxide	Quartz	Sericite	Clay Prop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	Sulf Veins	Frac Inten	Est Cu Mo	CuFeS2	FeS2	Cu2FeS3	Fe2O3	MoS2	Sample No & Interval
39																	L-1		4-5				79471
41																	L-1						79472
43																	L-1						79473
45				X													L-1		2-3				79474
47				X													L-1						
49																	L-1		8-10				
51																							

HOLE NO. W-92-4

DRILL LOG

PROJECT
CONTRACTOR
DATE STARTED ____ COMPLETED ____
LOGGED BY

T.D. ____ COLLAR ELEVATION ____
INCLINATION ____ BEARING ____
COORDINATES
SURVEY REFERENCES

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS2	FeS2	Cu2FeS3	Fe2O3	MoS2	Sample No & Interval	LOG: SCALE ____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
51																							79715	1.0cm pale bluish gray qtz veinlet	carbonate (20%) veinlets, displaying erratic orientations over entire unit; 'blebs' + dissem py	
53																	L.1		8-10							
55																							79716	1.5 orange zeolite along fracture surface	55.30-67.80 Qtz. Diorite- Superimposed secondary silicification has overprinted primary textures; this intrusive displays a medium grained subhedral granular texture of approx. composition: ≈15% anhedral quartz, ≈50% flag. feldspar & ≈35% chloritized amphibole laths; 2-3% greyish white qtz. (70%) - carbonate (30%) veinlets (av. width 3-5mm) weak to mod. secondary ornamental pink K-spar alt'n with increasing qtz. carb. vlts intensity; mode of occurrence for py: blebs & disseminated	
57																	L.1		5-6							
59																	L.1						79717			
61																	L.1						79718	61.0-62.2m 5-6% qtz. carb. veinlets @ 50° 'blebs' + dissem py		
63																			15 8-10							

HOLE NO. W-92-4 **DRILL LOG** Page 3 of 6

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_3$FeS$_4$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
63																										
																							79877	≈66.8-75.3 (≥1%) finely dissem. magnetite throughout interval		
65																	L.1		8-10							
																							79878	66.6-66.8 Three (1-1.5cm) And. Tuff xenol. thr with 4-5% finely dissem magnetite		
67																					Tr					
																	.1				6			6% 'wispy' dissem Magnetite	67.80-79.28 ANDESITE TUFF - as previously described from 49.15-55.30m except for clots of finely dissem. magnetite; 3-4% qtz. carb. vlts @ ≈45°	
69																	Tr		5-6		3			@68.7 finely Dissem Fe_3O_4 + Hke of Cpy		
																			10					py along qtz veinlets		
																			5-6				79881		69.66-70.30 Dyke of Qtz. Diorite with gradational contact	
71																	L.1				5					
																								pale pistachio green epid. along qtz. veinlets		
73																	L.1						79882			
75																										

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PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_5$FeS$_4$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
75																										
																	L-1	P>10			1.2		79983		75.60-77.05 Dyke of Qtz. Diorite with irregular contact	
77																										
																					1.4				79.28-105.76 Qtz. Monzonite	
79																								△ 30cm breccia vein @ ≈45°	Secondary Moderate to Intense Silicification masks origin	
																	L-1						79984		texture & composition; this unit has an increase in pale pink K-feldspar crystals (≈20%) and a decrease in chlorite-green amphibole lathe (≈1 and ≈1% reddish brown biot as compared to the previous Qtz. Diorite from 55.3-67.8m	
81																					Tr					
																	L-1	4-5					79985		2-3% pale bluish white qtz(& - white carb.(2%) veinlets (av. width 2-5mm) along unit; 4-5% Dissem. py throughout	
83																										
																	L-1									
85																							79986			
87																										

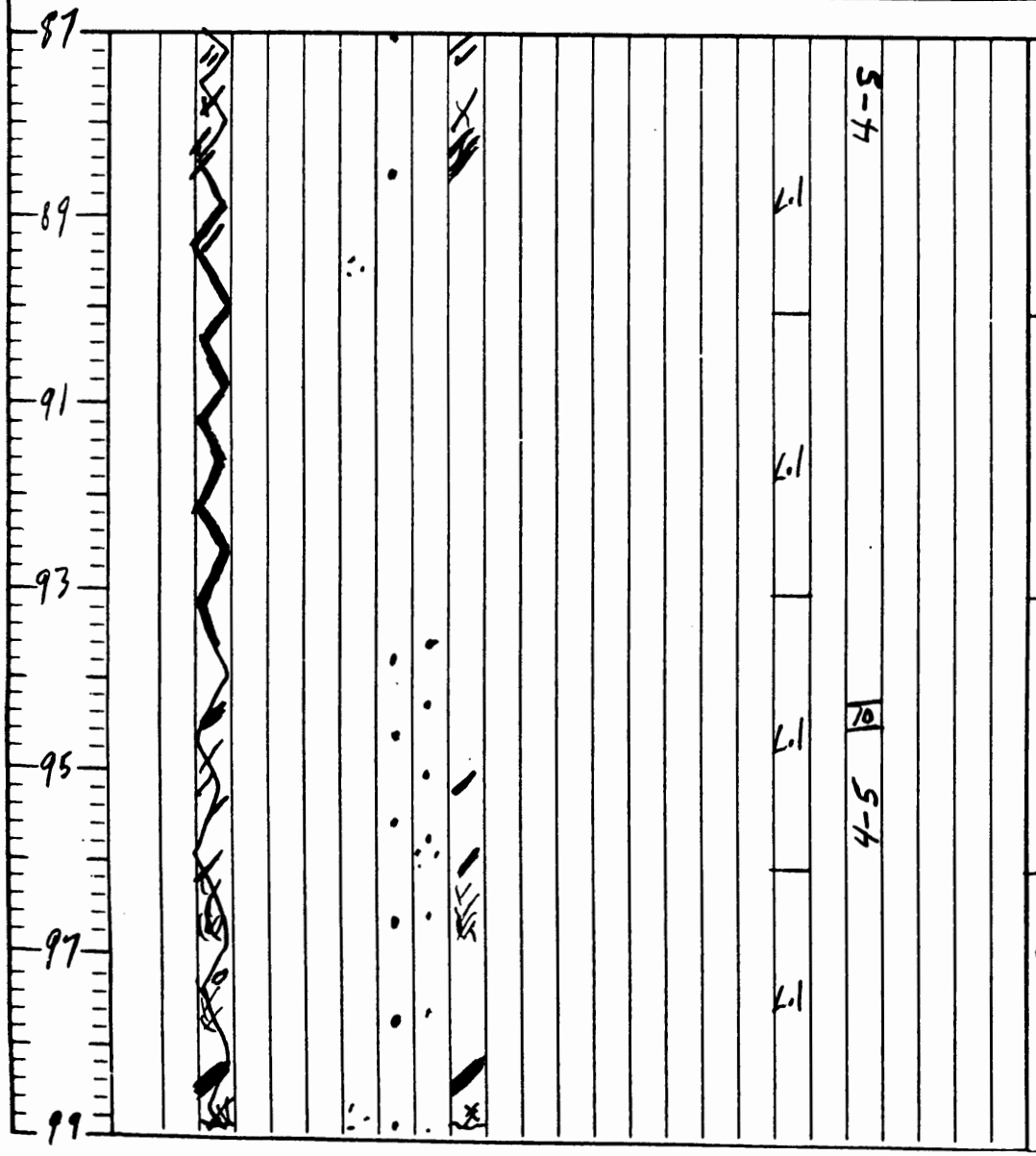
DDH NO. W-92-4 **DRILL LOG** Page 5 of 6

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____



Sample No & Interval	LOG SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
79987		88.60-93.57 Intense Silicification producing a pale bluish grey altération	
79988			
79989		93.59-95.75 Weak pale pistachio green epid. altn Py along qtz veinlet	
79990		4.0cm qtz-carb vein @ 70°	

DDH NO. W-92-4 **DRILL LOG** Page 6 of 6

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_5FeS_4	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
99																										
																					Tr		76991	100.1 - 101.5 ≈ 1% Fe_3O_4		
101																	L.1		4-5		1					
																					Tr			102.35 - 104.0 0.5-1% Fe_3O_4		
103																					0.9		76992			
																	L.1									
105																			8-10		Tr			Two (4-8cm) Greyish blue Qtz. Veins with associated Py Mobs		
																								E.O.H. 105.76 m		

DDH NO. W-92-5 **DRILL LOG** Page 1 of 11

PROJECT Waaay
CONTRACTOR Olympic
DATE STARTED Apr 16/92 COMPLETED Apr 18/92
LOGGED BY G. McGilvray

T.D. 146.60m (481') COLLAR ELEVATION 406' ± (12378.
INCLINATION -90° BEARING —
COORDINATES 228424 N / 262082 E
SURVEY REFERENCES

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_3$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE / BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT

Acid test -88.5° at 139.29 m depth

CASING PULLED

15

17

19

21

23

25

27

L.1

L.1

L.1

.1 Tr

7-9

15

20-25

79993

79994

79995

79996

15.54 Start of Log

25.9-26.4 py occurs as lenticular streaks (3 mm), 1 spec cpy

0.0-15.54 CASING

15.54-23.12m SILICIFIED ANDESITE PORPHYRY- Moderate silicification partially obscures subhedral greyish-white feldspar phenocrysts within a pale-brownish grey fine-grained matrix; ~1% qtz (90%) - carbonate (10%) veinlets (av. width 1mm) displaying erratic orientations. Py dissem. throughout

23.12-35.60m SILICEOUS ANDESITE BRECCIA- partially distinct subangular + poorly sorted pale green felsic clasts within a pale brown-brownish grey fine-grained clay matrix; moderate to intense pervasive silicification has partially obscured clasts; <1% qtz veinlets; py occurs finely dissem. and also in thin wispy lenticular

LE NO. W-92-5 **DRILL LOG** Page 2 of 11

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

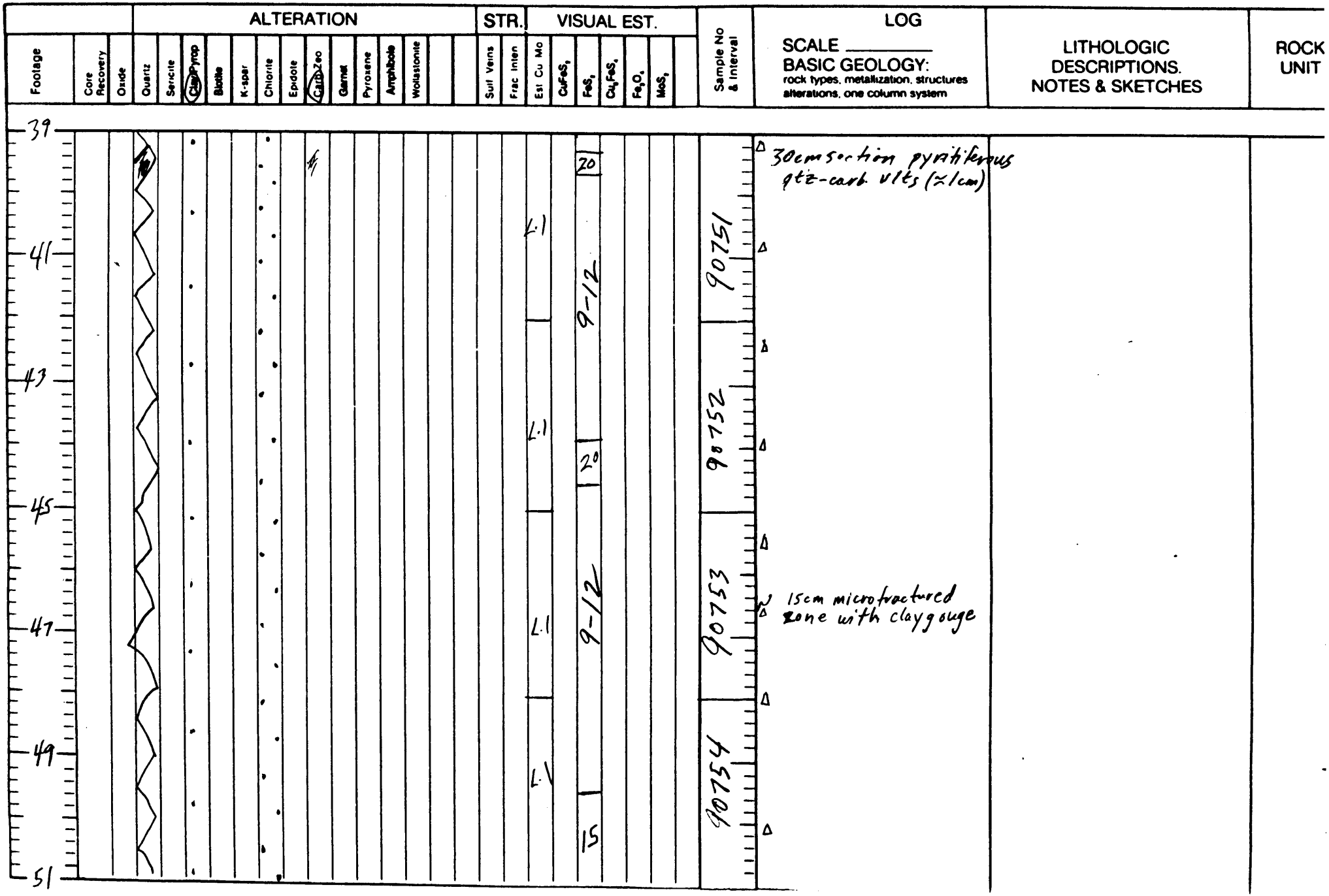
DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_3$FeS$_4$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
27																							79997			
29																	L-1	20-23	Tr							
31																	L-1	16-19					79998	32.60-34.05 Broken core 34.50-35.42 py occurs as 'clots' (av. 8-10mm)	35.60-36.50m Minor Fault Zone ~10% remnant fragments within a partially cohesive clay+sand fine grained matrix; no visible fabric	
33																										
35																	L-1						79999	3mm fault slip @ 30° + some qtz. veinlets	36.50-78.33 SILICEOUS ANDESITE BRECCIA- as previously described for Sil. And. Bx. from 23.12 to 35.60 m except for moderate chloritization; dark green chlorite occurs as narrow envelopes or rims surrounding pale green clasts and as minor dark green clots; also a decrease in py content and py occurs mainly as 'blebs'	
37																	L-1	2-3 9-12					80000	5cm fault bx @ 50°		
39																										

DLE NO. W-92-5 **D[illegible] L LOG** Page 3 of 11

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____



DDH NO. W-92-5 **DRILL LOG** Page 4 of 11

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_5FeS_4	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
51																										
																	L.I		15				90755	49.5 - 53.9 Py mainly as 'blebs' (av. diameter ≈ 5mm)		
53																										
																	L.II		8-10				90756			
55																										
57																										
																	L.II		12-15		Tr		90757	59.05 - 60.90 Significant decrease in chloritic alt'n		
59																										
61																										
																	L.II						90758	60.90 - 78.33m 30-35% dark green chlorite clots (av. 3-5 mm) and composed of (95% chl., 5% Fe_3O_4), pale green clasts totally obscured, chlorite clots are well-defined		
63																										

DLE NO. W-92-5 | D[L LOG | Page 5 of 11

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
63																										
65																	L.1		12-15				90759	2mm fault slip @ 50° + 1.0cm qtz-carb. vein		
67																	L.1						90760			
69																							90761			
71																	.1	Tr								
73																	L.1		12-15				90762	0.5cm fault gouge + 1.0cm qtz-carb. veinlet @ 30°		
75																										

LE NO. W-92-5 **DF LOG** Page 6 11

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
75																										
77																	.1	Tr	12-15				90763			
79																	L.1		8-10				90764	4.0cm grey fault gouge	78.33-80.60 Re-healed Fault Zone - 75-80% silica flooding this zone, well-indurate fabric displaying a brecciated appearance, lower 60cm is chloritized, py occurs as blebs & minor (1-2mm) veinlets	
81																									80.60 - 119.96m ANDESITE TUFF - 10-15% fairly well-defined (1-2mm) dark green chlorite clots within an aphanitic to fine-grained pale purplish grey transitional to pale greyish green matrix; notisible feldspar laths or mafic phenocryst moderately silicified throughout 4% Carbonate (80%) - qtz (20% veinlets displaying erratic orientations; py mineralization	
83																	L.1		5-7				90765	1mm fault slip + assoc. qtz. veinlets @ 60°; 15-20% streaky dissem. py		
85																	L.1			1			90766	84.1 - 85.3 1% finely dissem. Fe_3O_4		
87																					0.8					

DDH NO. W-92-5 **DRILL LOG** Page 7 of 11

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_3FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
87																					0.8		90767		within the dark green chlorite clots, py replacement of chlorite clots.	
89																	L.1		5-7					10cm pyritiferous qtz. vlt.		
91																	L.1		12				90768	4.0cm fault breccia with assoc. int. silicif envelope (15cm width)		
93																	L.1		10-12				90769			
95																	L.1		5-7					10cm siliceous bx + 5 mm fault gouge @ 60°		
97																	L.1						90770	1.0cm fault slip + assoc carb-qtz vlts @ 60°		
99																								30cm int. silicified zone		

DLE NO. W-92-5 **D .L LOG** Page 8 of 11

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Chl/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_4	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
99																										
101																	L.1		7-9				90771	99.52-119.96m Significant increase in size of dark green chlorite 'clots' to (≈ 7-10mm) in diameter, as well as abundance to ≈ 20-25%.		
103																	L.1						90772			
105																										
107																	L.1						90773	secondary pale brown clay? alth.		
109																	L.1		7-9				90774	2.0cm pyritiferous qtz.-carb. vlt, ≈60% py		
111																										

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
111																										
113																	L.1		7-9				90775		2.0cm layered qtz. vein weakly py 113.20 - 119.96m 1-2% finely disseminated Fe_3O_4 enclosed within 'chlorite clots'	
115																	L.1						90776			
117																	Tr								119.96 - 121.72m FAULT ZONE - approx. 20-25% remnant sub-rounded grey fragments within a white cohesive + clay rich matrix; v. weak fabric @ 40°; prominent pale grey to pale brownish grey 'bleached' alteration envelope surrounding actual fault zone of width 10cm	
119																	.1		15		1-2%		90777			
121																			2-3		10-15%		90778			
123																	L.1				1-2%				121.72 - 123.20 1-2% finely disseminated Fe_3O_4 enclosed within 'chlorite clots'	

DRILL LOG

FILE NO. W-92-5

PROJECT
CONTRACTOR
DATE STARTED ____ COMPLETED ____
LOGGED BY

T.D. ____ COLLAR ELEVATION ____
INCLINATION ____ BEARING ____
COORDINATES
SURVEY REFERENCES

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS2	FeS2	CuFeS2	Fe2O3	MoS2	Sample No & Interval	LOG: SCALE ____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
123																										
																	L.1				<0.5%		90779		121.72-146.60m ANDESITE TUFF - as previously described from 80.60 to 119.96m except significantly less (~5%) dark green chlorite clots which are now disseminated throughout the matrix (av. ~1 mm); py also finely disseminated and much less abundant (2-3%)	
125																										
127																	L.1						90780	126.0-135.0m ~1.0-1.5% finely disseminated Fe_2O_3		
129																			2-3							
																	L.1				1-1.5%		90781	129.55-146.6 ~1% pale reddish white zeol-qtz-carb. veinlets displaying erratic orientations.		
131																										
133																	L.1						90782	Δ3.0cm brecciated qtz. vein		
																			8-10							
135																										

DLE NO. W-92-5 **D .L LOG** Page 11 of 11

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_4	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
135																										
137																	L.1		1-2		Tr		90783			
139																	L.1				>1%		90784	138.0–146.6 >1% finely dissem Fe_3O_4		
141																							90785			
143																	L.1						90786			
145																	L.1							145.0–146.6 Broken core		
147																								E.O.H 146.6m		

.E NO. W-92-6 DR .LOG Page 1 3

PROJECT WANN
CONTRACTOR OLYMPIC
DATE STARTED April 8/92 COMPLETED Apr. 9/92
LOGGED BY G. McGILVRAY

T.D. 29.26m (96')
INCLINATION -50°
COORDINATES 269105 E / 225555 N
SURVEY REFERENCES
COLLAR ELEVATION 465' a.s.l. ±
BEARING 181°

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS2	FeS2	Cu5FeS4	Fe3O4	MoS2	Sample No & Interval	LOG (SCALE ___) BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS, NOTES & SKETCHES	ROCK UNIT
NO ACID TEST; CASING PULLED																										
2																								2.13 Start of Log	0.0-2.13 CASING	
2–5																	L.1		<1 (2.13–14)				90787	2.13-6.40 Light green chloritic mtx	2.13-29.26m ANDESITE PORPHYRY – Approx. 20-25% subhedral to euhedral weakly chloritized amphibole crystals (av. diam. 3-5mm) and ≈ 3-5% pale greenish white, faint euhedral feldspar laths within a moderately silicified fine-grained dark green chloritic matrix; <1% Py throughout; 1-2% amphibole phenocrysts oxidized (reddish brown color)	
5–8																	L.1						90788			
8–11																	L.1						90789	10.5-29.26 Approx 2-2.5% finely dissem. Magnetite		
11–14																	L.1				2-2.5%		90790			

LE NO. W-92-6 **DF L LOG** Page 2 3

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite			STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
14																												
16																			L.1						90791			
18																									90792			
20																			L.1									
22																			.1						90793			
24																			Tr									
26																			L.1						90794			

HOLE NO. W-92-6 DRILL LOG Page 3 of 3

PROJECT ______
CONTRACTOR ______
DATE STARTED ______ COMPLETED ______
LOGGED BY ______

T.D. ______
INCLINATION ______
COORDINATES ______
SURVEY REFERENCES ______

COLLAR ELEVATION ______
BEARING ______

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_5FeS_4	Fe_3O_4	MoS_2	Sample No & Interval	LOG — SCALE ______ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
26																								26.15 - 29.26m, ≈1% carbonate veinlets.		
28																	<.1		<1				90795			
																								1mm fault slip + assoc. carb-qtz veinlets		
30																								E.O.H. 29.26m		

HOLE NO. W-11-1

DRILL LOG

Page 1 of 7

PROJECT WANN

CONTRACTOR Olympic Drilling & Consulting

DATE STARTED April 9/92 COMPLETED April 10/92

LOGGED BY G. McGILVRAY

T.D. 78.33m (257') COLLAR ELEVATION 524' ± (159.8m)

INCLINATION -90° BEARING —

COORDINATES 265918E / 227058N

SURVEY REFERENCES

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite		STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS2	FeS2	CuFeS2	Fe2O3	MoS2	Sample No & Interval	LOG: SCALE / BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
NO ACID TEST ; CASING PULLED																											
3																											
5																		L.1						90796			
7																		L.1						90797			
9																		L.1						90798			
11																		L.1						90799			
13																		L.1									
15																											

3.35 Start of Log

8.10 3cm carb-qtz. frac fill, ≈20% py @ 60°

0.0 - 3.35 CASING

3.35 - 78.33m DIORITE INTRUSIVE - medium grained subhedral granular massive texture; Approx. 60-65% pale greenish white tabular Plag Feldspar, 30-35% chloritized & epid. prismatic hnbd+L3% anhedral qtz. defines the composition of this unit; ≈1% carbonate (60% -qtz (35%) - zeolite (5%) fracture fillings of av. width (5-8 mm) displaying erratic orientations, ≈1-2% Disseminated py throughout; orange zeol. alt'n halo surrounds intervals of increased carb-qtz fracture filling intensity; Approx. 1-1.5% Disseminated Magnetite throughout

HOLE NO. W-92-1 **DRILL LOG** Page 2 of 7

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Calc-Si	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
15																										
17																	L1		10-12		12		90800	15.20-16.76 m moderately silicified; 3cm breccia @ 50°; ≈ 15% Disseminated Py		
19																	L1				<0.8		90801			
21																	L1						90802			
23																	L1				12					
25																	L1				≈0.8		90803	25.1 m 3cm carb-qtz frac. fill @ 55°; 5-7% Py		
27																										

HOLE NO. W-92-7

DRILL LOG

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_3FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
27																										
29																	L.1						90804			
31																	L.1				> 2		90805			
33																							90806			
35																	L.1									
37																	L.1				> 1		90807			
39																										

@ 38.2 3.0-3.5cm grey qtz vein @ 30°, 2-3%. Dissem py

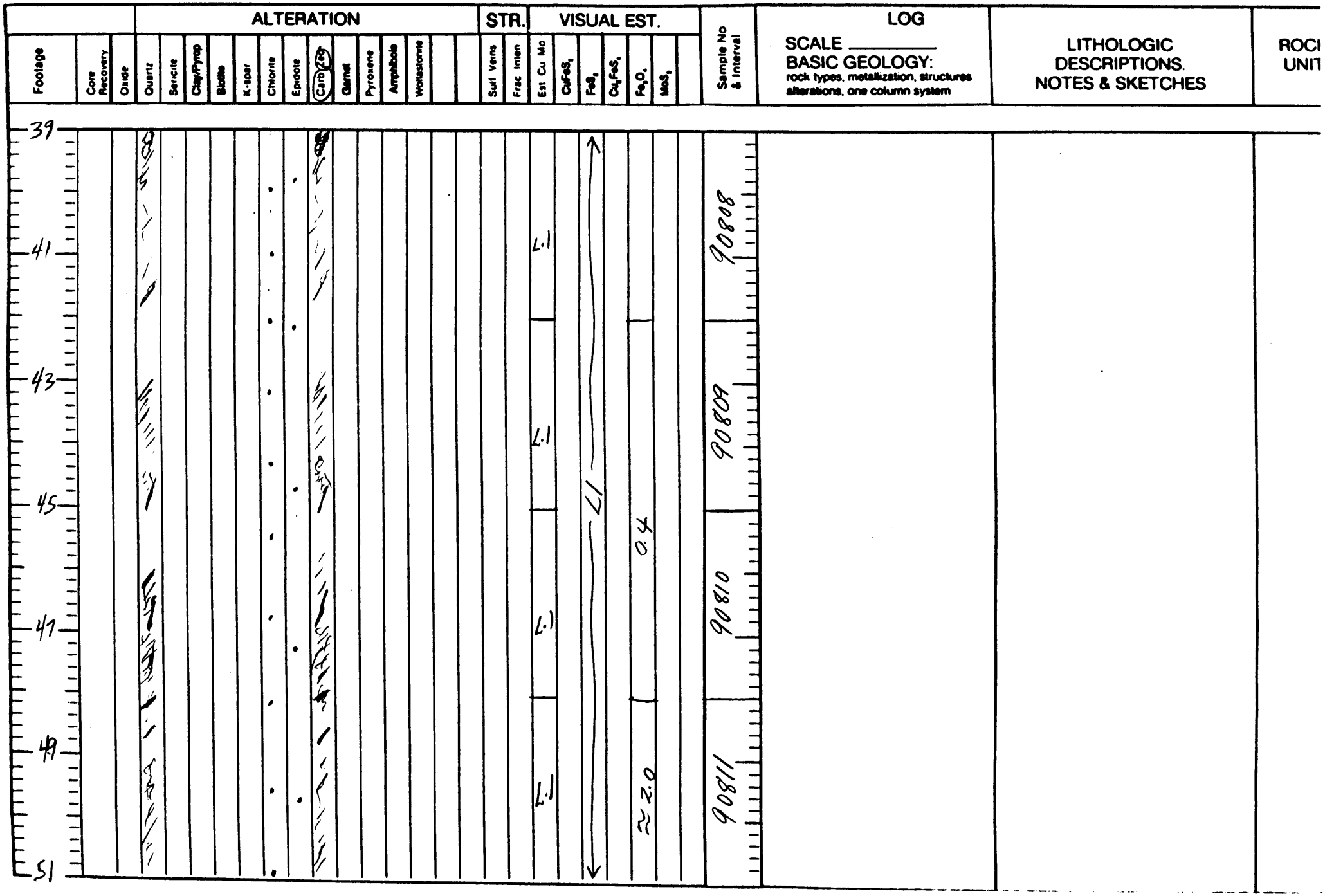
HOLE NO. W-42-7 **DRILL LOG** Page 4 of 7

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____



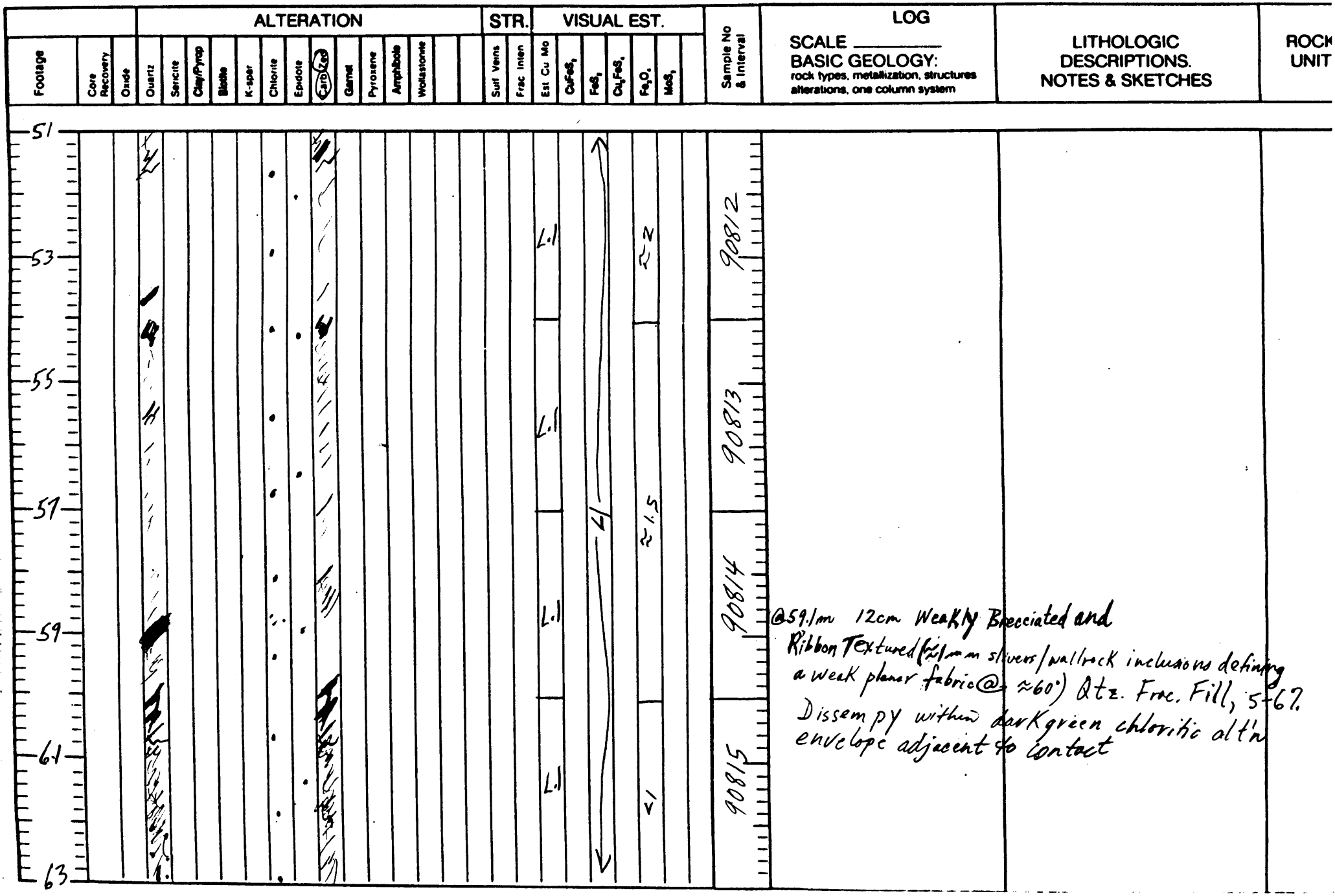
HOLE NO. W-92-7 **DRILL LOG** Page 5 of 7

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____



@59.1m 12cm Weakly Brecciated and Ribbon Textured (<1mm slivers/wallrock inclusions defining a weak planar fabric @ ≈60°) Qtz. Frac. Fill, 5-6% Dissem py within dark green chloritic alt'n envelope adjacent to contact

HOLE NO. W-92-7 **DRILL LOG** Page 6 of 7

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb (Zeol)	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROC UNI
63																										
65																	L.1						90816		≈3 cm Ribbon Textured Qtz. Frac Fill // to CA @ 64.1m Qz 6cm Brittle Shear, 10-15% rotated, subrounded fragments defining a well-defined planar fabric @ 50° set in a qtz matrix; 4-5% Py in wallrock adjacent to Shear	
67																	L.1						90817		@ 65.2m Qz 10cm Fault Breccia - ≈30% subangular (1-3mm) Qtz. + Wallrock fragments set in a partial clay + qtz matrix Well-defined planar fabric @ 40°; 3-4% Disem Py within Fault Bx	
69																		<	<	<						
71																	L.1						90818			
73																	L.1						90819		@ 72.9m 8cm Ribbon Textured Qtz Vein displaying a well-deh. planar fabric @ 40° with associated dark green chloritic alt'n envelope (6cm); 4-5% Disem Py within vein + adjacent chl. envelope	
75																										

HOLE NO. W-42-7

DRILL LOG

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Ecc	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_2	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROC UNI
75																										
																							90820	2-3 cm Qtz. Frac. Fill @ 60°.		
																								△ 2 cm Bx		
77																										
																								3 cm Ribbon Textured Qtz. Frac. Fill @ 40°		
79																								E.O.H. 78.33 m		

HOLE NO. W-92-8 **DRILL LOG** Page 1 of 18

PROJECT WANN
CONTRACTOR Olympic
DATE STARTED April 10/92 COMPLETED April 15/92
LOGGED BY G. McGilvray

T.D. 221.27m (726') COLLAR ELEVATION 453' (138.11m)
INCLINATION -60° BEARING 180°
COORDINATES 261554E / 228852N
SURVEY REFERENCES

Acid test - 55° at 181.66 m ; casing pulled

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS2	FeS2	Cu2FeS3	Fe2O3	MoS2	Sample No & Interval
15																			4-5				
																			20				
17																	L.1		6-8				
																			20				
																			15				
19																			6-8				
																	L.1		15				
																					L0.1		
21																							
																	L.1		6-8			3	
23																							
																	L.1				L0.1		
25																							
																	L.1						
27																							

90821 90822 90823 90824

LOG
SCALE _____
BASIC GEOLOGY:
rock types, metallization, structures
alterations, one column system

15.24 Start of Log

2-3cm 'irregular py masses'

2-3cm 'irregular py masses'
1-2cm 'irregular py masses'

4.0cm fault gouge (white) @ 50°
2.0cm fault gouge @ 80°

LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES

0.0 – 15.24m Ovb + Casing

15.24 – 28.60m ANDESITE PORPHYRY - superimposed weak to moderate silicification masks primary textures + composition; 35-40% pale greenish white subhedral to euhedral plagioclase laths + ≈10% mafic phenocrysts set in a fine grained matrix; ≈1% carbonate vlts throughout; Py occurs as 'irregular masses' and also, coarsely disscm throughout

15.24 – 21.67 Pale purplish grey weakly argillic mtx.

21.67 – 28.60 Dark Green to minor pale purplish grey matrix

ROCK UNIT

HOLE NO. W-76-2 **DRILL LOG** Page 2 of 18

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_5$FeS$_4$	Fe$_3$O$_4$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
27																										
29																	L.1		6-8				90825		28.60 – 40.50 ANDESITE TUFF – moderately silicified aphanitic to fine-grained pale brownish green massive ash rich tuff; contact with underlying intrusive is gradation 2-3%. Dissem. Py	
31																	L.1						90826		28.60 – 33.20m Intensely broken core	
33																			3-4		<0.1		90827		36.5 – 37.5 Dark green hue, ≈2% finely dissem Fe$_3$O$_4$	
35																	0.1	Tr						~3 specs Cp	35.15 – 40.50 ≈10% dark bluish green 'chlorite clots' (av. 2-3mm) fairly distinct, exhibiting py replacement	
37																		Tr					90828	~~~ 2mm fault slip		
39																			1-2		2					

HOLE NO. W-94-8 **DRILL LOG** Page 3 of 18

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Ca	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_2$FeS$_3$	Fe$_3$O$_4$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
39																										
																	L.1		1-2		1-2		90829		40.50 - 221.27m DIORITE INTRUSIVE — Approx 60% tabular Plag Fe spar lath @ 30-35% interstitial chlo zed hnbd displaying a subhedral granular medium grained massi texture, characterizes the composit fabric of this unit; ≈1% carbon (70%) - qtz (30%) fracture fillings exhib erratic orientations; 2-3% finely dissem Fe_3O_4 throughout, oran Zeol alt'n envelopes around carb.-qtz. frac. fills.	
41																										
																			10			90830	≈1cm pyrite/ferroan carb. frac. fill @ 50°		
43																	L.1		≈1							
																									Py occurs mainly dissem and minor 'blebs' (av. diam. 3-5mm throughout intrusive	
45																			10							
																						90831	≈1.0cm py-carb. frac. fill @ 30°			
																		Tr			1				40.50 to 43.0m 2-3% black Magnetite 'clots' (av. 2-3mm dia	
47																	a.1									
																			≈1							
49																						90832			50.20 - 52.05 Interval of fine-grained dark purplish green And. Tuff	
																	L.1									
51																										

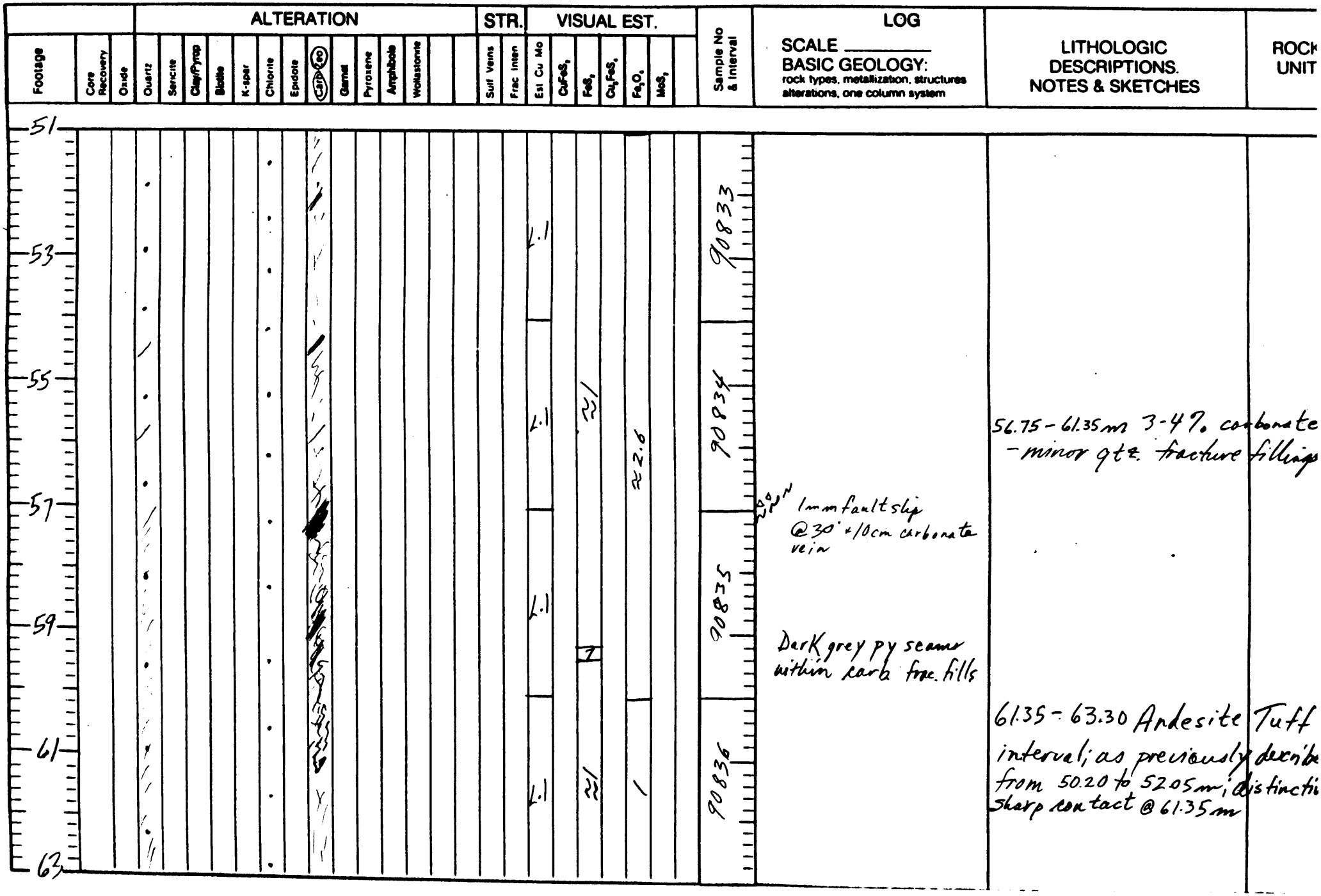
HOLE NO. W-92-8 **DRILL LOG** Page 4 of 18

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____



HOLE NO. W-92-8

DRILL LOG

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Calc	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_5FeS_4	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
63																			≈1				90837		64.75 – 65.45m Andesite Tuff as previously described	
65																	L.1									
67																	L.1						90838			
69																			≈1		2 – 2.5		90839			
71																	L.1							40cm carb-qtz frac. filling @ 25°		
73																	L.1						90840			
75																										

HOLE NO. [illegible] 8 **DRILL LOG** Page 6 of 18

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_3O_4	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
75																							90841	72.0-75.0 ≈4% finely dissem Fe_3O_4		
77																	L.1		≈1		≈4			≈0.5mm qtz. frac. fill within 6cm orange Fesh. alt'n envelope		
79																	L.1		≈1		≈1		90842		79.0-171.4m Proportion of carbonate to qtz in fracture fillings has decreased; approx. ratio qtz. (60%) carbonate (40%); predominant CA angle of frac. fills = 30°	
81																								Thin py seam enclosed within 2-3% qtz. frac. fills @ 5-10°, pale bluish green alt'n envelope (2-3cm) adjacent to frac. fills		
83																	L.1						90843		82.7-130.5m Secondary 'patchy' pervasive purplish hue due to finely dissem. magnetite	
85																	L.1				1%		90844			
87																										

HOLE NO. W-92-8

DRILL LOG

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_2$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
87																										
89																	L-1						90845	3.0cm pale green fault gouge @ 40°, 10% cubes + blebs py		
91																	L-1				>3		90846			
93																			≈1					2.0cm carb-qtz. frac hll @ 20°		
95																	L-1						90847			
97																					>4					
																	L-1						90848			
99																										

HOLE NO. W-92-8 **DRILL LOG** Page 8 of 18

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
99																										
101																	L.1				> 4		90849	99.1-99.6m Highly Broken Core carb-zeol frac fill		
103																	L.1						90850	carb.-zeol. frac. fill		
105																			≈1		≈3			90851	~10cm qtz. frac. fill ~4cm partial fault gouge @ 30°		
107																	L.1									
109																	L.1						90852			
111																										

HOLE NO. N-92-5

DRILL LOG

PROJECT ______
CONTRACTOR ______
DATE STARTED ______ COMPLETED ______
LOGGED BY ______

T.D. ______
INCLINATION ______
COORDINATES ______
SURVEY REFERENCES ______
COLLAR ELEVATION ______
BEARING ______

Footage	Est Cu Mo	FeS_2	Fe_2O_3	Sample No & Interval	LOG — SCALE ___ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS, NOTES & SKETCHES	ROCK UNIT
111–114	<.1			90853			
114–117	<.1	<1%	≈3	90854	1.0cm bluish grey qtz-minor carb. frac fill @ ≈35° 1cm qtz-carb-epid frac [illegible] @ 30°, displays crustiform appearance.		
117–120	<.1			90855			
120–123	<.1		≈4.4	90856			

Footage marks: 111, 113, 115, 117, 119, 121, 123

Column headings: Footage; Core Recovery; Oxide; ALTERATION: Quartz, Sericite, Clay/Pyrop, Biotite, K-spar, Chlorite, Epidote, Carb/Zeo, Garnet, Pyroxene, Amphibole, Wollastonite; STR.: Sulf Veins, Frac Inten; VISUAL EST.: Est Cu Mo, $CuFeS_2$, FeS_2, Cu_5FeS_4, Fe_2O_3, MoS_2; Sample No & Interval; LOG; LITHOLOGIC DESCRIPTIONS, NOTES & SKETCHES; ROCK UNIT

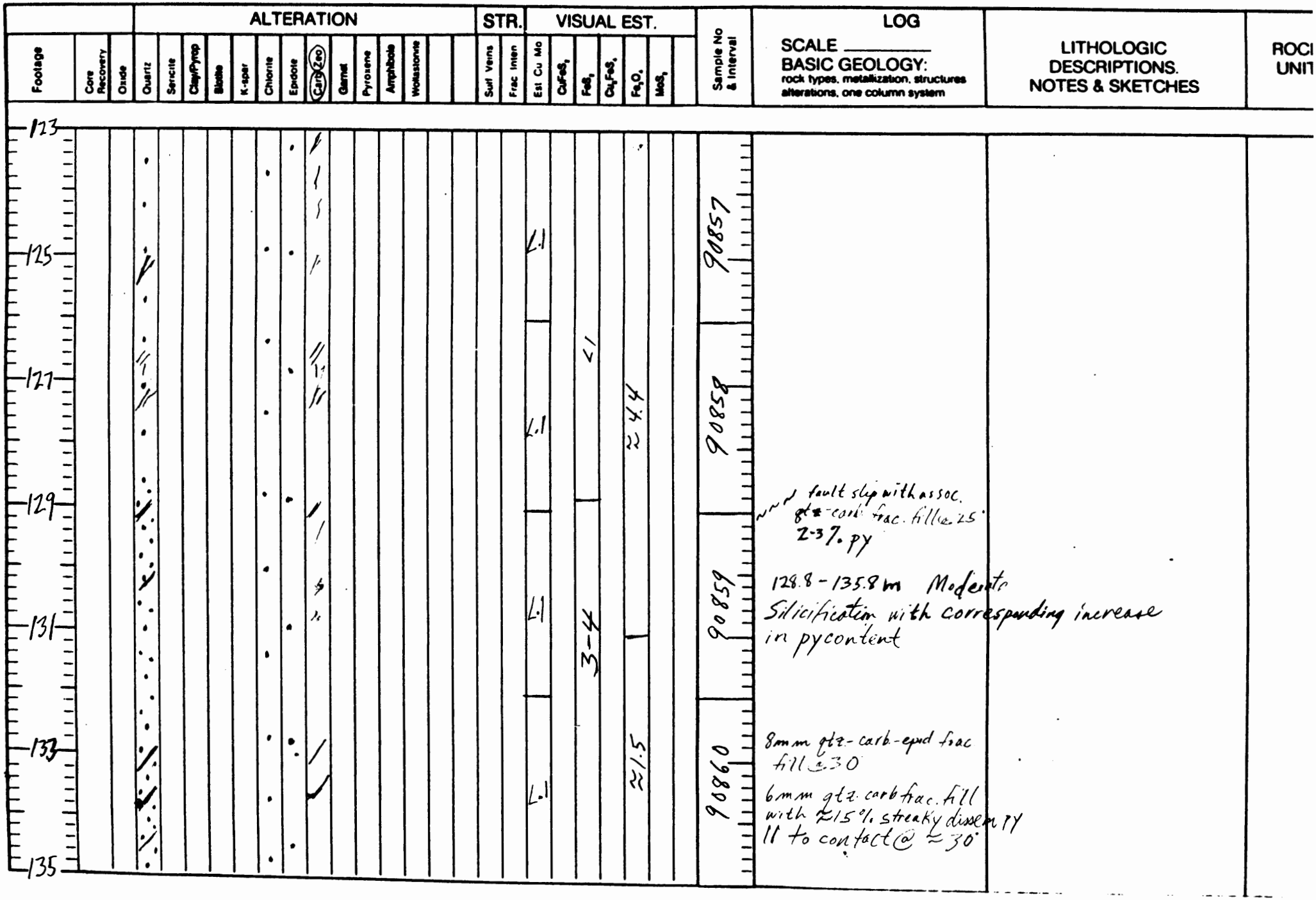
HOLE NO. W-92-8 **DRILL LOG** Page 10 of 18

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____



HOLE NO. [illegible]

DRILL LOG

PROJECT _____
CONTRACTOR _____
DATE STARTED _____ COMPLETED _____
LOGGED BY _____

T.D. _____ COLLAR ELEVATION _____
INCLINATION _____ BEARING _____
COORDINATES _____
SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite		STR.: Sulf Veins	Frac Intens	VISUAL EST.: Est Cu Mo	CuFeS2	FeS2	Cu2FeS2	Fe2O3	MoS2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
135																											
										L								L.1		3-4				90861			
137										/																	
139																		L.1		1-2		≈1.5		90862	3.0cm wk fault gouge with qtz frac fill @ 35° 2cm fault gouge, 15% dissem. py over 2cm		
141																											
																				8				90863	Δ wkly brecciated qtz. carb. frac fill 'irregular masses' py 4.0cm bluish grey qtz - minor carb. frac. fill	141.5 - 152.0m Moderately silicified, 4-5% Dissem Py	
143																		L.1									
																			Tr								
																				4-5		≈0.4					
145																								90864	1.5cm bluish grey qtz - minor carb frac. fill @ 35°		
																		L.1									
147																											

HOLE NO. W-92-8

DRILL LOG

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Intens	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_5$FeS$_4$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
147																										
149																							90865			
151																							90866	2.5cm qtz frac. fill wkly brecciated @ 20°	152.0-172.0m Dark purplish green alteration hue due to finely disseminated magnetite	
153																										
155																							90867			
157																							90868	5-6 specs Cpy over 40cm zone.		
159																										

Est Cu Mo: 0.1, 1.1, 0.1, 0.1

CuFeS$_2$: Tr, Tr, Tr, 0.2, Tr

FeS$_2$: 4-5, <1, 5, 4

Cu$_5$FeS$_4$: <0.4, ≈2.5

Fe$_2$O$_3$: MoS$_2$:

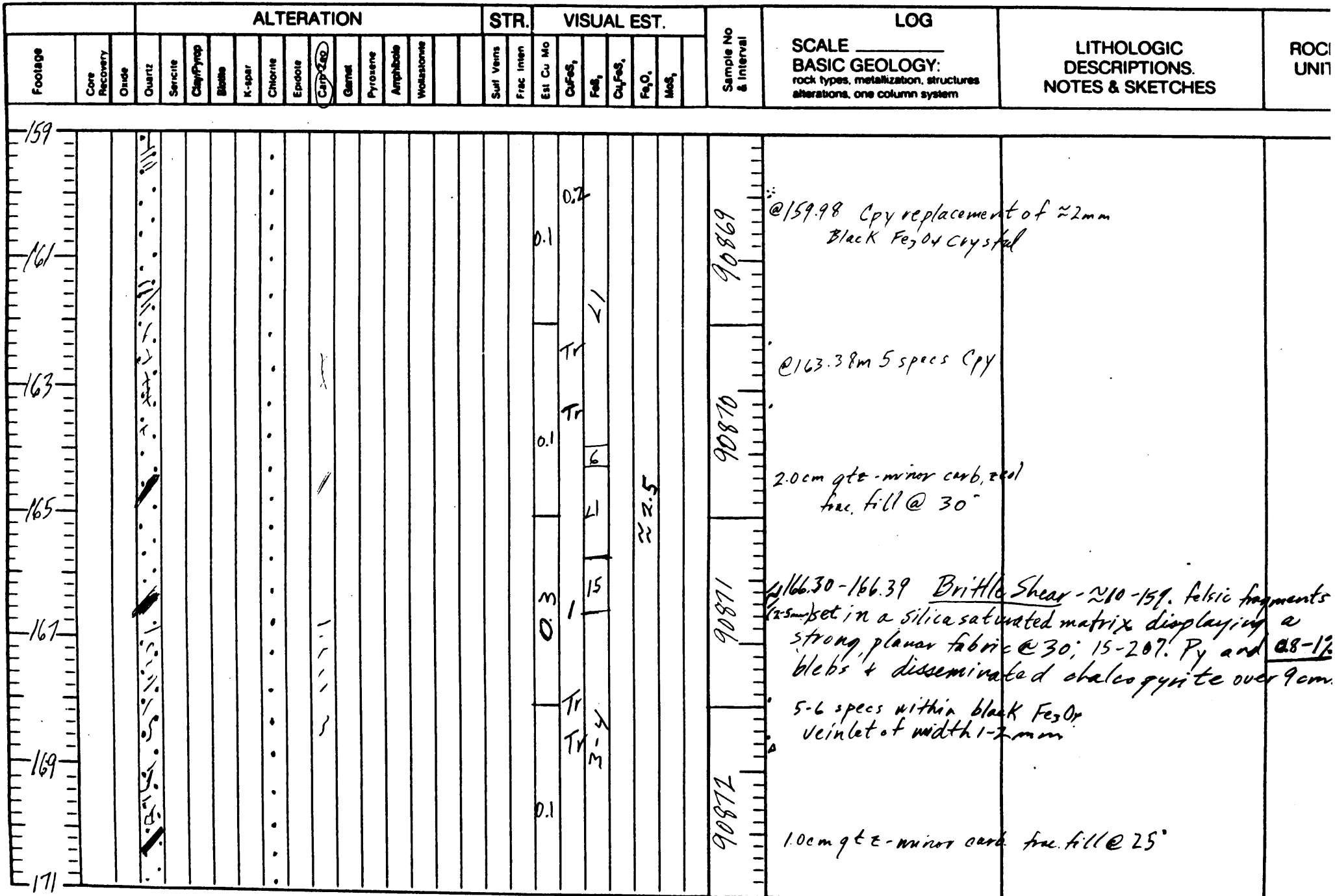
HOLE NO. W-92-8 **DRILL LOG** Page 13 of 18

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____



HOLE NO. W-92-8

DRILL LOG

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Ca/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite		STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
171																											
173																		0.1	0.2	<1		6		90873	@172.8m 2 Black "magnetite 'clots' (6-10mm diameter) with Chalcopyrite replacement on margins	171.4-221.27m Diorite exhibits a finer-grained subhedral grain texture; Dark purplish green hu due to finely dissem Fe_2O_3; Approx 4- (1-2 mm) 'blebs' of pale reddish brow micaceous Biotite alteration throughout; weak to moderate in intensity, significant increase in chalcopyrite content.	
																			Tr	5		4					
175																		<0.1						90874	@173.9 One magnetite 'clot' (≈10mm) with py +2-3 specs cpy		
177																				<1				90875			
179																		<0.1				≈5					
181																								90876			
183																		<0.1									

HOLE NO. W-92-8

DRILL LOG

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS2	FeS2	Cu2FeS2	Fe3O4	MoS2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
183																									183.1 - 186.3m Diorite displays medium grained equigranular texture; pale green hue; 2-3% milky white qtz-minor carb-zeol. fracture fillings along interval; 4-5%. faint dark green chlorite clots
185																	0.1	Tr	Tr		≈2.5		90877	@185.4m 4-5% (2-3mm) qtz. frac. fills with streaky dissem py displaying a strong planar fabric @ 35° 3-4 specs or blebs cpy		
187																	<0.1	<1	6				90878			
189																		Tr	<1				90879			
191																	0.1	Tr Tr			≈2.5			@193.10m 5cm Qtz fracture filling, weakly brecciated, wk planar fabric @ 80°, 2-3% Dissem py		
193																	0.1	Tr Tr Tr Tr Tr					90880			
195																										

HOLE NO. W-92-8 **DRILL LOG** Page 16 of 18

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Sec	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_3$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROC UNI
195																										
197																	L.1	Tr Tr					90881			
199																	L.1	Tr Tr	6		N		90882			
201																	L.1	Tr	4				90883			
203																	L.1	Tr Tr Tr				25	90884			
205																	0.15	0.3 Tr Tr Tr 0.2 Tr Tr			≈3.5					
207																										

199.7 – 202.9m Approx.
4–5% (2-3mm) dark chlorite clots exhibiting only minor py replacement.

3.0cm qtz. frac. fill @30

@204 Approx 25% irregular wispy masses of hematite + 0.2–0.3% chalcopyrite over 40cm

0.2% cpy over ≈ 20cm

HOLE NO. W-92-8 **DRILL LOG** Page 17 of 18

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Intens	VISUAL EST.: Est Cu Mo	CuFeS2	FeS2	Cu2FeS3	Fe3O4	MoS2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
207																										
																	0.1	Tr			3		90885		• 204.0 – 221.27m Mode of Occurrence for chalcopyrite is replacement of magnetite along margins; also moderate to intense pervasive silicification along this interval.	
209																		Tr							• 209.0 – 210.1m 0.1% Cpy replacement along Magnetite stringers & blebs	
																		Tr								
																		0.1								
																		Tr								
																		Tr								
211																	0.1	Tr			5-6		90886		• Below 214.5m texture is much finer-grained, this unit now has a texture characteristic of an ANDESITE.	
																		Tr							• 213.1 – 214.9 Moderate Reddish Brown Biotite alt'n	
																		Tr								
																		Tr								
213																		Tr	1							
																		Tr			3		90887		• 0.2% Cpy along Fe3O4 veinlet	
																		0.2	2-3							
																	0.2	Tr							@ 214.7 8cm epidote-magnetite 'clot' with ≈ 0.5% Cpy replacement along the margins of Magnetite clots	
215																		0.5			30					
																		Tr								
																		Tr								
																		Tr								
217																		Tr	1		≈ 4.5		90888			
																		Tr								
																		Tr								
																	< 0.1	Tr								
																		Tr								
																		0.2							@ 219.7 ≈ 0.2% cpy replacement along 3mm Fe3O4 veinlet	
219																		Tr								

HOLE NO. W-92-8 | DRILL LOG | Page 18 of 18

PROJECT
CONTRACTOR
DATE STARTED | COMPLETED
LOGGED BY
T.D.
INCLINATION
COORDINATES
SURVEY REFERENCES
COLLAR ELEVATION
BEARING

Footage	Core Recovery	Oxide	Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	Sulf Veins	Frac Inten	Est Cu Mo	$CuFeS_2$	FeS_2	Cu_5FeS_4	Fe_3O_4	MoS_2	Sample No & Interval	LOG: SCALE; BASIC GEOLOGY: rock types, metallization, structures, alterations, one column system	LITHOLOGIC DESCRIPTIONS, NOTES & SKETCHES	ROCK UNIT
219–221			•			•		•									<0.1	Tr			≈4.5		90889	Gy a long 1 mm Magnetite Stringer		
																								E.O.H. 221.27m		
223																										

HOLE NO. W-92-9 **DRILL LOG** Page 1 of 9

PROJECT WANN
CONTRACTOR Olympic Drilling & Consulting
DATE STARTED April 11/92 COMPLETED April 12/92
LOGGED BY G. McGILVRAY

T.D. 108.50m COLLAR ELEVATION (486) 148m
INCLINATION -60° BEARING 180°
COORDINATES 228585N / 26584IE
SURVEY REFERENCES

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb (HCl)	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS2	FeS2	Cu2FeS3	Fe3O4	MoS2	Sample No & Interval	LOG: SCALE / BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
			NO ACID TEST; CASING PULLED																						0.0-6.10 CASING	
6																								6.10 Start of Log	6.10-14.15m ANDESITE FLOW - ≤5% chloritized & epidotized hnbd phenocrysts set in a fine-grained plag feldspar (75-80%) pale green chloritized micro-granular ground mass exhibiting a massive (no fluidal lath orient.) fabric; ≈1% white to bluish grey Qtz (80%) - carbonate (20%) fracture fillings exhibiting erratic orientations throughout; 1-2% blebs + disseminated magnetite; weakly silicified; 1-2% Disseminated py	
																					5		90890	6.10-12.5m Highly broken core.		
8																	L.1		1-2%							
10																							90891			
12																	L.1				2					
14																	L.1						90892	Two-3mm qtz. stringers with 10% py + 5cm orange zeol. alt'n envelope.	Gradational contact with Diorite Dyke unit below.	
16																	L.1		2-3%				90893	Four-(1mm) qtz. stringers with 10cm zeol envelope	14.15-23.22m DIORITE DYKE - Apophosys of Diorite composition (≈70% Plag. Feldspar laths, ≈25% chloritized hnbd + ≤3% anhedral qtz) displaying a subhedral granular med. grained texture; 2-3% coarsely disseminated PY throughout; 1-2% magnetite blebs	
18																										

HOLE NO. W-92-4

DRILL LOG

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_3$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
18																										
20																	L.1		2-3%		2		90894			
22																	L.1		6				90895	Two 1.5cm qtz frac. fills @40°, 6% py • 6cm subrounded And. Tuff inclusion/fragment.	23.22-50.44m ANDESITE - as previously described from 6.10-14.15m	
24																								1.0cm qtz frac. fill @30°		
26																	L.1		1-2%		2		90896			
28																	L.1		1%				90897	8cm Brittle Shear - 50-55% poorly sorted subangular bluish grey qtz. fragments within a dark grey pyrite ferous-silica-saturated matrix exhibiting a well-defined planar fabric @ 25°; 25% finely disem py in matrix		
30																										

HOLE NO. W-92-9

DRILL LOG

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PROJECT _____
CONTRACTOR _____
DATE STARTED _____ COMPLETED _____
LOGGED BY _____

T.D. _____ COLLAR ELEVATION _____
INCLINATION _____ BEARING _____
COORDINATES _____
SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite			STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
30																												
32																			L.1						90898	Δ 4cm qtz-carb. breccia, sharp contacts @ 50°		
34																			L.1		1/2%		N		90899	2.0cm qtz - minor carb, zeol frac. fill @ 20°		
36																										1.0cm qtz frac fill @ 10° ≈1% streaky disem py sharp contact		
38																			L.1						90900			
40																			L.1				≈1		90901	Δ 7cm minor bx 8cm qtz. frac. fill @ 30°; 2-3% streaky disem. py		
42																												

HOLE NO. WR-92-9

DRILL LOG

PROJECT
CONTRACTOR
DATE STARTED ____ COMPLETED ____
LOGGED BY

T.D. ____ COLLAR ELEVATION ____
INCLINATION ____ BEARING ____
COORDINATES
SURVEY REFERENCES

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS2	FeS2	Cu5FeS4	Fe3O4	MoS2	Sample No & Interval	LOG: SCALE ____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
42																							90902	42.9m 4cm brittle shear, strong planar fabric @ 40°, 1-5% streaky disseminated py	43.25-45.51m Diorite Dyke as previously described from 14.15-23.22m except for higher modal % (35) of hnbd. and only a trace amt. of qtz.	
44																	L.1									
46																	L.1				≈		90903	5cm swarm of 2-4mm qtz-frac. fills @ ≈35°		
48																		Tr								
50																	0.1	Tr			≈		90904	Cpy specs	50.44-80.10m DIORITE INTRUSIVE - as previously described from 14.15-23.22m except for a finer-grained texture, with corresponding increase in chalcopyrite content.	
52																		Tr								
54																	0.1	Tr					90905	Mode of Occurrence for chalcopyrite is ≈1-2mm specs replacing magnetite		

HOLE NO. W-92-9

DRILL LOG

Page 5 of 9

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carbonate	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac inten	VISUAL EST.: Est Cu Mo	CuFeS2	FeS2	Cu2FeS3	Fe2O3	MoS2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
54																										
																	Tr						90906		53.70-68.90m orange zeolite. alteration surrounding 3-4% Qtz(80%)- carb.(20%) fracfills along this section.	
56																	Tr									
																	0.2 Tr	<1								
																	Tr									
58																										
																	0.1		3-4%				90907		80cm zone of weak brecciation + 5-6% qtz fracfills + streaky disseminated py // to mod. planar fabric @ 25°.	
																	Tr								1.0cm bluish grey qtz. frac fill @ 30°	
60																					≈2					
																	0.1						90908			
62																	Tr		<1%							
64																	Tr									
																	0.1						90909			
66																										

HOLE NO. W-42-4 **DRILL LOG** Page 6 - 9

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Ep	Garnet	Pyroxene	Amphibole	Wollastonite		STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, ore column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
66																											
68																		1.1	<1					90910	@68.1m 70cm interval of weak brecciation + qtz frac. fills dark grey streaky disseminated py II to planar fabric @ 25°, 4-5%. Disseminated py throughout		
70																		Tr	4-5%								
																		0.5									
																		0.2	Tr	≈1				90911	@69.6m ≈0.5% chalcopyrite 'blebs' (2-4mm diam.), intimately assoc. with py along a qtz. frac. fill of width ≈1cm very unusual mode of occur. for Cpy		
72																			Tr								
																			Tr		≈2						
74																		0.1	Tr					90912	Cpy & pels		
																			Tr								
																			Tr	<1				90913			
76																		0.1	Tr								
																			Tr								
78																											

HOLE NO. W-42-4 **DRILL LOG** Page 7 · 9

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Fe	Garnet	Pyroxene	Amphibole	Wollastonite			STR.: Surf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
78																												
80																			L.1				2		90914		80.10 - 98.78m DIORITE exhibits a medium grained subhedral granular massive texture	
82																			L.1						90915		Gradational contact with underlying Andesite unit.	
84																					<1						Significant decrease in chalcopyrite content with increase in grain size of Diorite from fine to medium grain.	
86																			L.1				≈1		90916			
88																			L.1						90917			
90																												

HOLE NO. W-92-7

DRILL LOG

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite			STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
90																			Tr						90918			
92																			L.1									
94																			L.1						90919			
96																					✓		≈		90920			
98										//									L.1									
100										//									L.1						90921			
102																												

98.78 - 108.50 m - ANDESITE FLOW - as previously described from 6.10 - 14.15 m except groundmass is more chloritized + less Plag Feldspar rich.

HOLE NO. W-42-1

DRILL LOG

Page 4 of 9

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS2	FeS2	Cu2FeS3	Fe2O3	MoS2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
102																										
																			1/				90922	qtz-epidote frac. fills (2-5 mm width) 1% along frac. fills		
104																	L.1		6							
																								@ 105.3m 10cm breccia zone; milky white qtz fragments within a dark greenish gray chloritic matrix		
106																			1/		≈1.5		90923			
																	L.1									
108																								E.O.H. @ 108.50m		

HOLE NO. W-92-10 **DRILL LOG** Page 1 of 16

PROJECT WANN
CONTRACTOR Olympic Drilling & Consulting Ltd.
DATE STARTED April 15/92 COMPLETED April 25/92
LOGGED BY G. McGILVRAY

T.D. 199.94m (656') COLLAR ELEVATION (1050') 320.1m
INCLINATION -90° BEARING —
COORDINATES 230190 N / 254586 E
SURVEY REFERENCES

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_3FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT

Acid test - 88.5° at 196.90 m depth; casing pulled.

19.15m Start of Log

90924 90925 90926 90927

L.1 L.1 L.1 L.1 <1 <1

0.0-9.15m CASING

9.15-21.28m FAULT ZONE - Moderate to Intense Cataclastic Deformation of Feldspar Porphyry producing a cohesive clay-rich grey gouge with <5% remnant fragments. Two narrow intervals (≈30cm) of only weakly deformed Feldspar Porphyry, no visible fabric, <1% Disseminated Py throughout.

Sharp, well-defined Lower contact @25° with Feld. Porphyry

HOLE NO. W-92-10 **DRILL LOG** Page 2 of 16

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_2$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, ore column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
21			N																18				90928	21.28–21.60 Intensely silicified, 15-20% interstitial py	21.28 – 39.20m FELDSPAR PORPHYRY – Approx. 45-50% subhedral to euhedral milky white Plagioclase Feldspar phenocrysts set in a aphanitic - fine grained dark grey argillic matrix; secondary 'patchy' transitional to pervasive orange brown limonite staining partially obscures primary features; weakly silicified; 1-2% Disem Py	
23																	L.1									
25																	L.1		1-2				90929	25.50 – 27.20m Moderately silicified		
27																				L.1			90930			
29																	L.1									
31																	L.1						90931	32.80 – 36.10 m Minor fault Lt Zone – as previously described from 9.15 – 21.28 m		
33																										

HOLE NO. W-46-10

DRILL LOG

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
33																										
35																	L-1						90932			
37																	L-1						90933	3.0cm fault gouge		
39																	L-1		1-2		L-1		90934		39.20 – 52.17m SILICEOUS BRECCIA – Partially obscured + poorly sorted subangular bluish grey felsic clasts set in a dark grey siliceous – minor clay matrix; secondary orange brown pervasive limonite; vuggy throughout, 1-2% Py	
41																	L-1									
43																	L-1						90935	45.1-45.4 narrow enclave of Feldspar Porphyry Kaolinite 'Clot'		
45																										

HOLE NO. W-92-10 **DRILL LOG** Page 4 of 16

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS2	FeS2	Cu2FeS3	Fe2O3	MoS2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
45																							90936	@46.33m Change in core size from HQ to NQ		
47																	L.1		1-2							
49																	L.1						90937			
51																								51.1-51.60m Narrow Section of Feld. Porphyry.	52.17-87.40m MAJOR FAULT ZONE - Approx. 30-35% poorly sorted (1mm-35mm), subrounded grey remnant fragments set in a cohesive whitish grey clay-rich matrix; moderate cataclastic deform. of siliceous Feld. Porphyry protolith; no visible fabric; 1-2% Py	
53					W												L.1	15					90939	@52.17m 11cm zone of intense Kaolinite Alteration; weak planar fabric @ 50°		
55																	L.1	10	1-2					@54.8m 20cm enclave of remnant protolith; 10% Dissem Py		
57																		1								

HOLE NO. W-42-10

DRILL LOG

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
57																							90940	58.7-59.09 remnant undeformed protolith		
59																	L.1		2/ 15							
61																	L.1						90941	61.26 - 87.40m Very poor core recovery (50%) Highly broken core		
63																			≈1		L.1		90942	66.16 - 67.66 0% recovery		
65																	L.1									
67																	L.1						90943	67.66 - 69.0m Pebbles + sand size grains of Feld. Porphyry		
69																										

HOLE NO. W-12-10

DRILL LOG

PROJECT _____
CONTRACTOR _____
DATE STARTED _____ COMPLETED _____
LOGGED BY _____

T.D. _____ COLLAR ELEVATION _____
INCLINATION _____ BEARING _____
COORDINATES _____
SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite			STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
69																												
																			L-1		≈6-8				90941	69.0 -72.60 Highly broken + fragmented core		
71																												
73																												
																			L-1		20				90945	72.60 -74.10m Remnant undeformed protolith @73.76m change in core size from NQ to HQ. 74.10 -76.22 Fault Breccia as previously described under Major fault Zone		
75																												
																										76.22 -87.40m Highly broken + fragmented core		
																			L-1		3-4				90946			
77																												
																					30							
79																			L-1		3-4				90947	87.40 - 91.80m ALTERED FELDSPAR PORPHYRY - Original composition + texture almost totally obscured by moderate pale bluish grey clay alt'n + weak secondary silicification; narrow section (≤50cm) of visible feldspar phenocrysts		
81																												

HOLE NO. W-12-10

DRILL LOG

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Chl/Prop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite			STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_5FeS_4	Fe_3O_4	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
81																												
83																			L.1						90948			
85																			L.1		3-4				90949			
87																						L.1			90950	88.25-88.75m Faintly visible white Plag. Feldspar phenocrysts 89.90-90.30m Fault breccia - ≈40% grey fragments (≤1cm) in fluid pale grey cohesive clay rich mtx.		
89																			L.1									
91																			L.1		8-10				90951		91.8-109.11m Fault Breccia - ≈30-35% poorly sorted, grey subrounded remnant lithic fragments set in a cohesive clay matrix; no discernible fabric, 4-5% Dissem. Py throughout. Sharp distinct contact @ 109.11m	
93																			3-4									

HOLE NO. W-92-10 **DRILL LOG** Page 8 of 16

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Chl/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_2$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
93																										
95																	L.1		3-4				90988		95.35-95.62m enclave of undeformed Altered Feld Porphyry with 10% Py clots	
																			10							
97																			3-4				90989		97.45-97.73m same as above 8% Disem Py + minor veinlets	
																	L.1		8							
99																			3-4		L.1		90990		@100.55m Change in core size from HQ to NQ. 100.55-102.41m Pebbles 100.55-105.46m core recovery L50%	
101																	L.1									
103																	L.1						90991			
105																										

HOLE NO. _____ **DRILL LOG** Page 9 of 16

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_5FeS_4	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
105																										
107																	<1		3-4				90992	107.59 – 107.84 Undeformed enclave of Siliceous Breccia		
																			10							
109																			5				90993	108.8 - 109.11m 2-3mm blebs + crystals of Py	109.11 – 125.47m SILICEOUS BRECCIA - Faintly visible bluish grey subangular felsic fragments set in a fine-grained silica-minor clay saturated matrix; 6-8% finely disem 'wispy' Py	
111																	<1		6-8				90994	113.0 – 114.0 m Dark grey siliceous hue, no visible fragments		
113																	<1						90995			
115																										
117																										

HOLE NO. W-12-10

DRILL LOG

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_5FeS_4	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
117																										
119																	<1		6-8				90996			
121																	<1						90997	124.72-126.1m Pale orange brown hue pyrophyllite ? alt'n.		
123																	<1		10-12?				90998	122.5-126.30m Minor fault/shear zone-weakly deformed siliceous breccia displaying a partially cohesive and weakly fragmented matrix with <10% fragments 125.47-125.98 QFP dyke	125.47-137.40m SILICIFIED TUFF - Superimposed Pervasive silicification + clay alt'n masks original texture + composition and imparts a bluish-grey hue to this unit; fine-grained massive fabric; 10-12% finely disseminated py. throughout.	
125																	<1									
127																	<1						90999	@ 127.50-129.25m QFP dyke		
129																								@ 129.24m 20cm weak fault breccia zone	Two narrow QFP dykes exhibiting 20-25% sub-anhedral tabular feldspar laths and ~5% blue	

HOLE NO. W-92-10 **DRILL LOG** Page 11 16

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_3FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
129																										
																							91000	@129.96m 35cm fault breccia zone	set in a fine-grained pale brownish red matrix	
131																	2.1		10-12					4mm white Gypsum veinlet		
																							37251			
133																	2.1									
135																	2.1		12-15				37252	135.93-137.95m Weak fault/shear zone - weak brittle deform producing a non-cohesive weakly fragmented matrix	137.40 - 199.94m QUARTZ FELDSPAR PORPHYRY - 15-20% (1-3mm) tabular plagioclase laths + ≈ 2-3% blue qtz. eyes set in a pale brownish red fine-grained matrix; moderate pervasive argillic alt'n to 161.2m; distinct pitted outlines of weathered clay/carb. altered feldspars; 12-15% irregular masses of finely dissem. py to 154.9m; 154.9-162.3 py is present as coarse blebs	
137																										
																	2.1						37253			
139																										
141																										

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PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_5FeS_4	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
141																										
143																	<.1						37254			
145																	<.1						37255			
147																	<.1		12-15				37256			
149																	<.1									
151																	<.1						37257			
153																										

@ 141.5 - 154.9 m weak to moderate silicification

145.10 - 154.9 m Q F P matrix displays a greyish blue hue, ie more siliceous

148.60 - 150.15 wall-rock breccia zone - 1-2 cm subangular reddish brown wallrock fragments with bluish grey matrix; 2-2 1/2% disc. Py

1.5 cm qtz. frac. fill @ 45°

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PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Argp	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite			STR.: Surf Veins	Frac Intens	VISUAL EST.: Est Cu Mo	CuFeS2	FeS2	Cu2FeS3	Fe2O3	MoS2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, ore column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
153																												
155																			1.1		12-15				37258	154.9 - 158.8m V. weakly silicified brownish red mtx. 159.8 - 160.0m wk-mod silicified greyish blue mtx.		
157																			1.1						37259			
159																					5-7					1.0cm fault gouge		
161																			1.1						37260	161.20 - 169.20m Moderate Pervasive Silicification		
163																			1.1		4-5				37261	161.7 - 162.1m Feldspar phenocrysts are elongated or 'smeared out' @ 162.3 - 169.5m first occurrence of chlorite - magnetite veinlets and ...		
165																												

HOLE NO. W-92-10 — DRILL LOG — Page 14 of 16

PROJECT ______ T.D. ______ COLLAR ELEVATION ______
CONTRACTOR ______ INCLINATION ______ BEARING ______
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LOGGED BY ______ SURVEY REFERENCES ______

Footage	Est Cu Mo	FeS₂	Sample No & Interval	LOG — SCALE ___ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS, NOTES & SKETCHES	ROCK UNIT
165				pale green chlorite-pyrite veinlets, brownish red mtx.		
167	<.1	4-5	37262	PY veinlets		
169	<.1		37263	169.5-171.35 m Matrix displays a pale greyish hue; 1.0 cm fault gouge @ 30°		
171		12-15		171.35-172.90 m Matrix exhibits a pale reddish brown pyrophyllite? alt'n hue		
173	<.1		37264	@172.40 m 10 cm fault breccia @ 40°; @174.05 m 8 cm fault breccia @ 50°		
175	<.1 (Tr)	4-5	37265	172.90-188.40 m Transitional color change in matrix from pale reddish brown to a pale reddish green weakly chloritized mtx, numerous (≈5%) chloritized magnetite crystals; increase		
177		5				

Alteration columns: Quartz, Sericite, Clay/Pyrop, Biotite, K-spar, Chlorite, Epidote, Carb/Zeo, Garnet, Pyroxene, Amphibole, Wollastonite; STR.: Sulf Veins, Frac Inten; VISUAL EST.: Est Cu Mo, CuFeS₂, FeS₂, Cu₅FeS₄, Fe₂O₃, MoS₂.

HC NO. W-92-10 **DRILL LOG** Page 15 16

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb (Fe)	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Intens	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_5FeS_4	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
177																										
179																	<.1						37266	grain size (medium-coarse) of feldspar phenocrysts; Mode of occurrence for py is mainly replacement of magnetite		
181																	<.1		4-5		4-5		37267			
183																	<.1						37268	py-carb veinlet @ 5mm fault clip @ 65°		
185																	<.1									
187																	<.1						37269	188.4 - 198.40m Matrix displays a pale brownish grey hue; significant decrease in magnetite content. py occurs mainly as		
189																										

HOLE NO. W-92-10 DRILL LOG Page 16 of 16

PROJECT ______ T.D. ______ COLLAR ELEVATION ______

CONTRACTOR ______ INCLINATION ______ BEARING ______

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LOGGED BY ______ SURVEY REFERENCES ______

ALTERATION: Quartz, Sericite, Clay/Pyrop (circled), Biotite, K-spar, Chlorite, Epidote, Carb Zeo, Garnet, Pyroxene, Amphibole, Wollastonite
STR.: Sulf Veins, Frac Inten
VISUAL EST.: Est Cu Mo, $CuFeS_2$, FeS_2, Cu_5FeS_4, Fe_2O_3, MoS_2

Footage	Sample No & Interval	Visual Est.	LOG: SCALE ___ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS, NOTES & SKETCHES	ROCK UNIT
189	37270	Est Cu Mo <.1; FeS_2 4-5; Fe_2O_3 2-3	5cm fault breccia @70°		
191			1cm blue qtz-py fracture filling		
193	37271	Est Cu Mo <.1; Fe_2O_3 <1	1mm py vlt with 3cm blue silica alt'n envelope		
195	37272	Est Cu Mo <.1	195.50-199.94m 8-10% 'irregular wispy masses' of py 195.65-196.80m Minor breccia - purplish grey fragments (1-3cm) with interstitial pyrite		
197		FeS_2 8-10	198.40-199.94m 'Patchy' reddish brown alt'n		
199	37273	Est Cu Mo <.1	Py veinlets		
			E.O.H. 199.94m		

HOLE NO. W-92-11

DRILL LOG

PROJECT WANN
CONTRACTOR Olympic
DATE STARTED April 17/92 COMPLETED April 19/92
LOGGED BY G. McGilvray

T.D. 113.08 m (371') COLLAR ELEVATION (-.9') 158.2 m
INCLINATION -60° BEARING 180°
COORDINATES 228802N / 267186E
SURVEY REFERENCES

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS2	FeS2	Cu2FeS3	Fe2O3	MoS2	Sample No & Interval	LOG: SCALE / BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT

NO ACID TEST; CASING PULLED

5.79m Start of log

0.0 - 5.79m CASING

5.79 - 13.05m ANDESITE FLOW - 45% Plag. Feldspar and Amphibole phenocrysts, very fine to fine grained chloritized - Plag. Feldspar rich (75-80%) dark green groundmass, ≈1% Magnetite crystals (1-3mm m); weak to moderately silicified; ≈1% qtz (70%) - carb. (30%) fracture fillings (1-3mm m); 3-4% finely disseminated py throughout.

90952 L-1
90953 L-1 3-4 1.5
90954 L-1
90955 L-1 Tr 1-2? <1

4cm breccia at contact

13.05 - 17.30m weak - moderate (3-5%) 'patchy' pinkish - orange zeolite alt'n. ≈1% qtz-carb. fracture fillings

13.05 - 32.26m SILICIFIED DIORITE PORPHYRY -

Approx 5-10% subhedral - euhedral milky white Plag. Feldspar phenocrysts 1-2% anhedral qtz. phenocrysts set in a fine-grained equigranular Plag. Feldspar rich groundmass. Cream-colored, siliceous appearance moderately silicified; ≈5-7% subhedral Magnetite crystals (4-6mm m) with chlorite

cont..

HOLE NO. W-92-11 **DRILL LOG** Page 2 of 9

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS, NOTES & SKETCHES	ROCK UNIT
17																										
19																	L.1				< 1		90956	19.8-20.0m Groundmass has dark green hue; 5% fine Fe_3O_4 crystals	Pseudomorphs around the margins; < 1% Pyrite mainly as replacement of Magnetite crystals	
																					5					
21																	L.1						90957		Gradational Lower Contact from 31.80-32.26 metres	
23																			< 1%							
																	L.1				< 1		90958			
25																										
27																	L.1						90959			
29																										

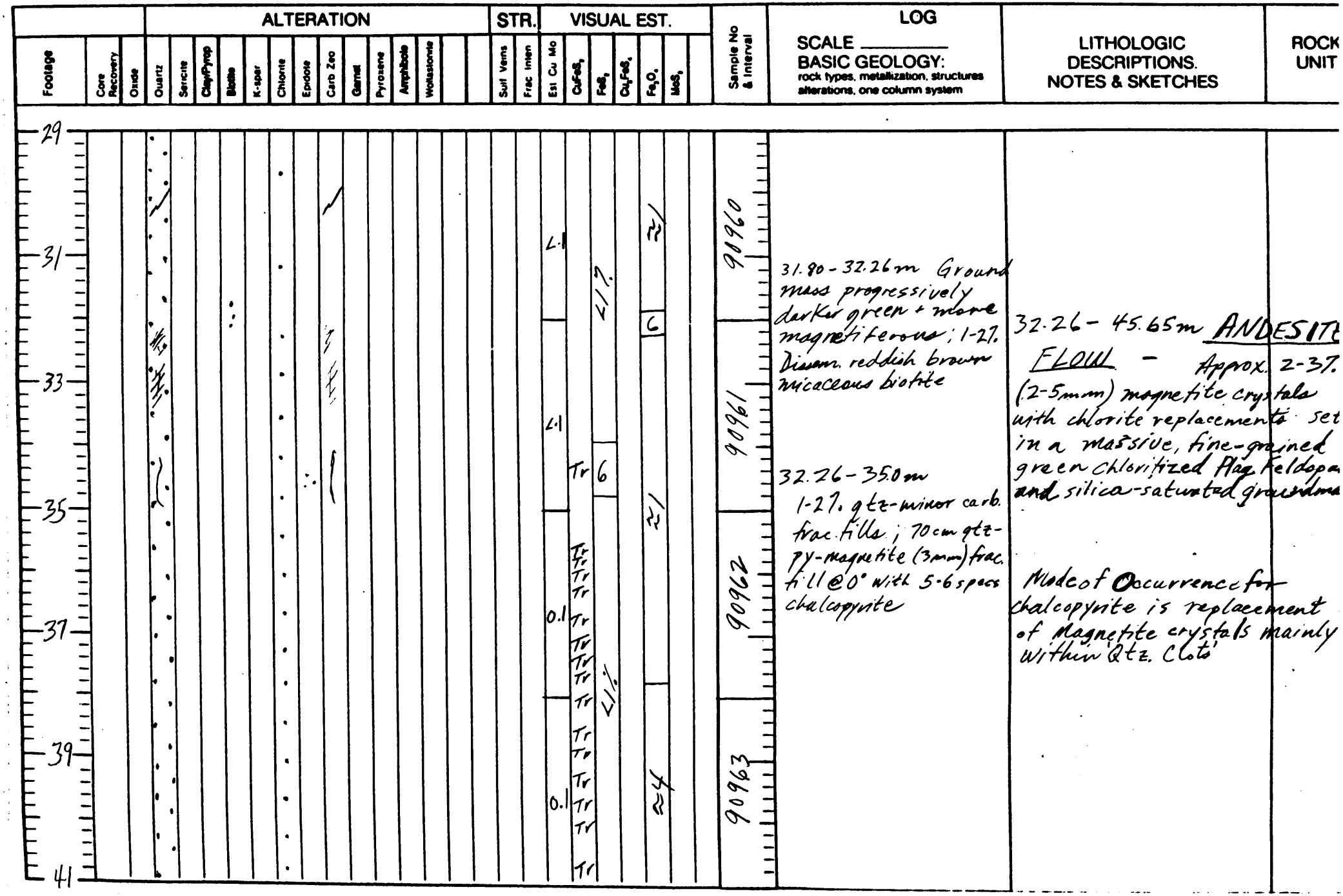
HOLE NO. W-92-11 **DRILL LOG** Page 3 of 9

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____



31.80 - 32.26m Ground mass progressively darker green + more magnetiferous; 1-2%. Diseam. reddish brown micaceous biotite

32.26 - 35.0m 1-2% qtz-minor carb. frac. fills; 70cm qtz-py-magnetite (3mm) frac. fill @ 0° with 5-6 specs chalcopyrite

32.26 - 45.65m ANDESITE FLOW - Approx. 2-3% (2-5mm) magnetite crystals with chlorite replacements set in a massive, fine-grained green chloritized Plag. feldspar and silica-saturated groundmass

Mode of Occurrence for chalcopyrite is replacement of magnetite crystals mainly within Qtz. Clots

HOLE NO. W-42-11

DRILL LOG

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Infen	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_2$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
41																										
																		Tr					90964			
43																	L.1	Tr	6							
																							90965	Sharp, well-defined contact @ 45.65m	45.65 - 89.56 metres DIORITE INTRUSIVE - Approx 75% subhedral-euhedral plag Feldspar crystals and ≈ 20% interstitial chloritized amphibole Magnetite exhibiting a med grained, massive, equi-granular texture; weak-to-moderately silicified; 1-2% Pyrite, exclusively as replacement of magnetite	
45																		Tr								
																	L.1				≈	4				
47																							90966			
																	L.1									
49																			V							
																	L.1						90967			
51																					≈	1				
53																										

HOLE NO. W-92-11

DRILL LOG

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Intens	VISUAL EST.: Est Cu Mo	CuFeS2	FeS2	Cu2FeS3	Fe2O3	MoS2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
53																										
55																										
57																										
59																										
61																										
63																										
65																										

53.60-54.06m Diorite displays a dark green color with corresponding increase in Magnetite

55.6-55.9m Dark Green Andesite Xenolith △ 2cm qtz. breccia

58.70-64.10m Numerous Dark Green Andesite Xenoliths (Av. size 4-6cm)

64.20-66.96m Large Andesite Xenoliths as previously described from 32.26-45.65m except no Chalcopyrite.

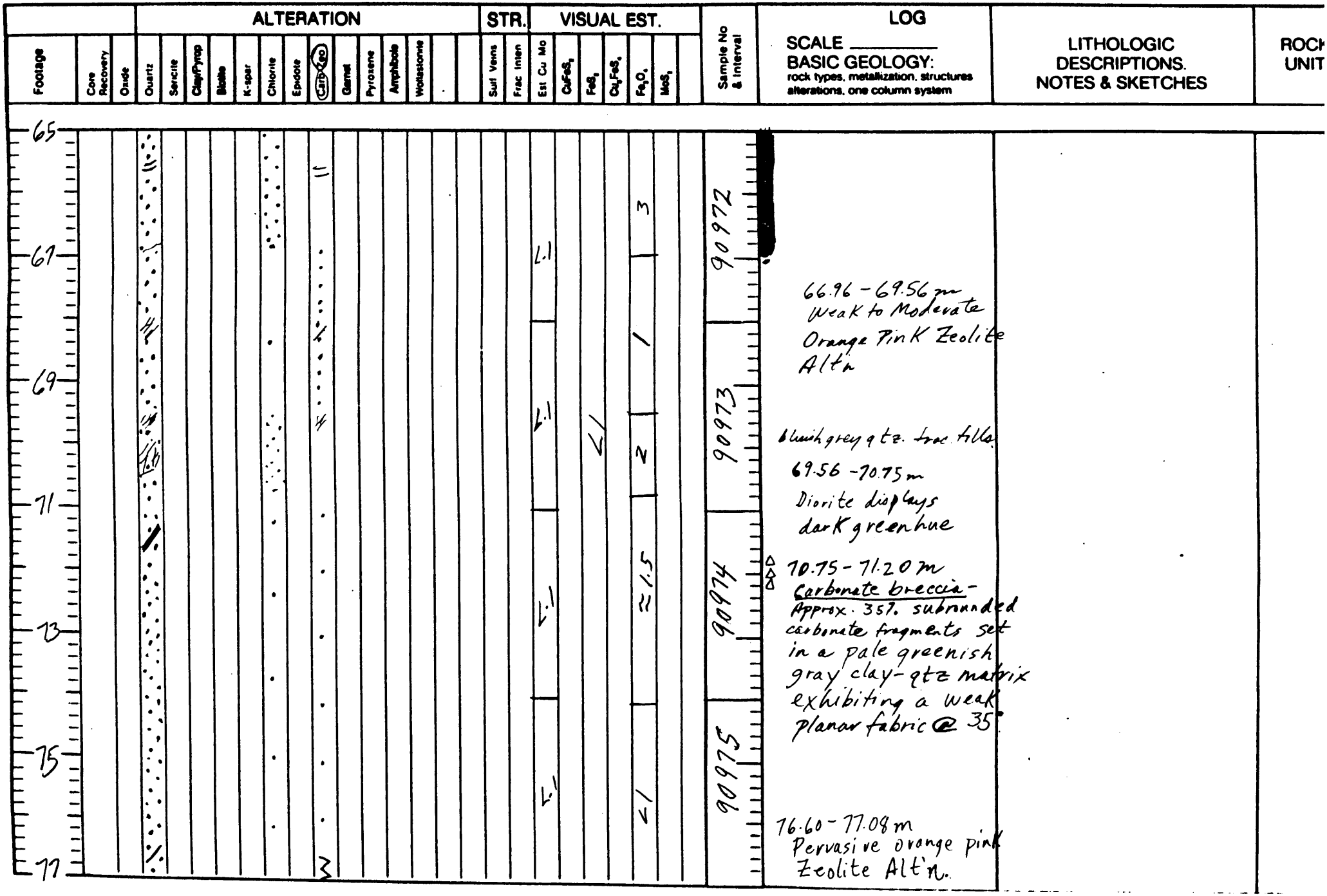
HOLE NO. W-72-11 **DRILL LOG** Page 6 of 9

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____



66.96 - 69.56 m
Weak to Moderate Orange Pink Zeolite Alt'n

Bluish grey qtz. frac fills.

69.56 - 70.75 m
Diorite displays dark green hue

70.75 - 71.20 m
Carbonate breccia - Approx. 35% subrounded carbonate fragments set in a pale greenish gray clay-qtz matrix exhibiting a weak planar fabric @ 35°

76.60 - 77.08 m
Pervasive orange pink Zeolite Alt'n.

PROJECT ____________ T.D. ____________ COLLAR ELEVATION ____________

CONTRACTOR ____________ INCLINATION ____________ BEARING ____________

DATE STARTED ____________ COMPLETED ____________ COORDINATES ____________

LOGGED BY ____________ SURVEY REFERENCES ____________

Footage	Core Recovery	Oxide	ALTERATION: Quartz, Sericite, Clay/Pyrop, Biotite, K-spar, Chlorite, Epidote, Carb Zeo, Garnet, Pyroxene, Amphibole, Wollastonite	STR.: Sulf Veins, Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_5FeS_4	Fe_3O_4	MoS_2	Sample No & Interval	LOG: SCALE ____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
77									2					
79					<.1				<1		90976			
81					<.1				2		90977			
83					<.1		<1				90978	83.80 – 84.64 m Andesite Xenolith, well-defined contacts		
85														
87					<.1	Tr			2-3		90979	85.90 – 86.95 m Andesite Xenoliths @ 86.20 m 6-8 specs Cpy within magnetite crystals		
89														

HOLE NO. W-42-11

DRILL LOG

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Intsn	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
89																								@89.56 m	89.56 – 113.08 m ANDESITE FLOW – as previously described from 32.26 to 45.65 m except that magnetite is much finer-grained and significantly less chalcopyrite.	
91																	<1				4-5		90980			
93																	<1						90981	two-1cm crustiform qtz-carb. fracture fillings 2.0cm qtz. carb. frac fill		
95																	<1		<1				90982	@96.93 m 20cm Qtz-carb. breccia weak fabric @ 50°		
97																	<1							2cm bx		
99																	<1	Tr Tr			3 2		90983	99.4 – 100.8 m visible white feldspar phenocrysts		
101																										

HOLE NO. W-92-11

DRILL LOG

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_5FeS_4	Fe_3O_4	MoS_2	Sample No & Interval
101																							
103																	<1				≈3		90984
105																	<1		<1				90985
107																	<1				4-5		90986
109																	<1						90987
111																							
113																							

LOG

SCALE _____

BASIC GEOLOGY: rock types, metallization, structures alterations, one column system

LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES

@104.0 m Gradational increase in grain size; 'Andesite' displays a fine-grained equigranular texture characteristic of Diorite; 4-5% finely disseminated Magnetite throughout

ROCK UNIT

HOLE NO. W-92-12 **DRILL LOG** Page 1 of 11

PROJECT WANN
CONTRACTOR Olympic Drilling & Consulting Ltd.
DATE STARTED April 21/92 COMPLETED April 23/92
LOGGED BY G. McGILVRAY

T.D. 134.41m (441')
COLLAR ELEVATION 540' ±
INCLINATION −90°
BEARING —
COORDINATES 228697 N / 258926 E ±
SURVEY REFERENCES

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_5FeS_4	Fe_3O_4	MoS_2	Sample No & Interval	LOG — SCALE; BASIC GEOLOGY: rock types, metallization, structures, alterations, one column system	LITHOLOGIC DESCRIPTIONS, NOTES & SKETCHES	ROCK UNIT

Acid test −88.5° at 134.41 m; casing pulled.

Footage	Clay/Pyrop	FeS_2	Sample No	Log	Lithologic Descriptions
12–14		<1	37274		0.0–12.2m CASING 12.2m – 17.80m MINOR FAULTZONE – Weak cataclastic deformation of Feld. Porphy. producing a weakly fragmented matrix; <1% Dissem Py
14–16		<1			
16–18	·· (from ~17.8)	<1	37275	17.68–31.30m Highly Broken Core.	17.80 – 32.80m ALTERED FELDSPAR PORPHYRY – Faintly visible white (clay-altered) Plag. feldspar phenocrysts set in a fine-grained bluish-grey argillic? matrix; 2–3% coarsely dissem. py throughout.
18–20	··	<1	37276		
20–22	··	2–3			30.30–32.90m weakly brecciated feld. porphy., faint bluish grey fragments, wk–mod. silicified; 8–10% coarsely dissem. py
22–24	··	<1	37277		

HOLE NO. W-92-12

DRILL LOG

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_5FeS_4	Fe_2O_3	MoS_2	Sample No & Interval	LOG — SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
24																										
26																	1:1						37278			
28																										
29																	1:1		2-3				37279			
30																									32.80 - 38.28m SILICIFIED LAPILLI TUFF. - numerous 25-30% subrounded lapilli fragments (≈1-2cm) set in a pale brownish gray V. fine grained silica-saturated matrix; 8-10% med.-coarsely disseminated py	
32																	1:1		8-10				37280	32.1 - 32.4m minor fault breccia - 30-35% poorly sorted fragments set in a white clay-rich mtx		
34																							37281	@ 33.5m 5cm fault breccia		
36																	1:1									

HOLE NO. W-92-12 **DRILL LOG** Page 3 11

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Intens	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_2$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
36																										
38																							37282	1.5cm gypsum vein fault (5cm) contact @ 38.28m	38.28 - 47.30m Altered/ Deformed Feldspar Porphyry - Faint feldspar phenocrysts set in a purplish grey matrix; weakly deformed/brecciated to 42.50m; 6-8% disseminated py throughout.	
																								gypsum veinlets		
40																							37283	40.1 - 42.0m 3-4% Anastomosing bluish grey gypsum vlts (2mm wide)		
42																								gypsum vlts @ 43.1m 5cm fault gouge	42.5 - 47.3m Moderately brecciated. Feld. Porph displaying narrow (10-30cm) intervals of fault breccia fabrics; 2-3% gypsum veins throughout, 3-4% irregular wispy masses of py	
44																							37284	1cm gypsum @ 60°		
46																							37285	8cm gypsum vein @ 50° 13cm gypsum vein @ 50° @ 46.75m 55cm fault breccia zone, sharp contact @ 50°		
48																										

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PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Argill	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_2$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
48																										
																									47.30 - 63.50m Andesite Porphyry - Approx. 30-35% fairly visible tabular Plag Feldspar laths (≈1mm) + ≈6-8% prismatic hbld. set in a fine grained pale green weakly chloritized matrix; 5-7% coarsely disseminated py throughout	
50																	4.1		5-7%				37286	2mm fault slip @ 50° Green Xenolith		
52																	4.1						37287	@ 52.20m 20cm weak fault bx zone.	50.60 - 52.30 m Moderate pale grey silicification masking primary textures + composition	
54																	4.1						37288		55.20 - 57.75m Moderately silicified; 15-20% blurrily defined 'clots' set in a pale beige weakly argillic matrix	
56																	4.1									
58																	4.1						37289	58.2-58.9 Weak fault breccia zone		
10																										

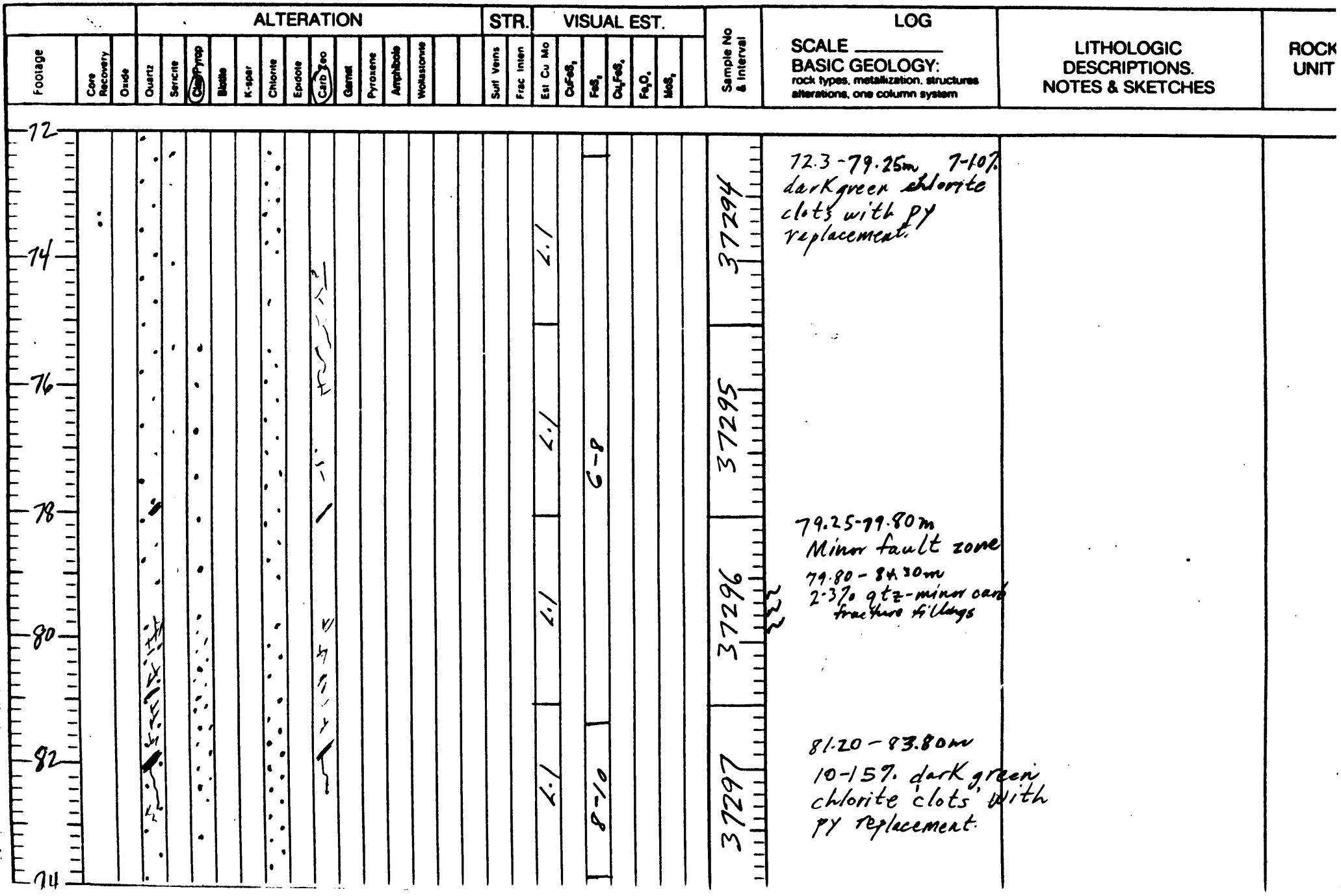
HOLE NO. W-92-12 **DRILL LOG** Page 5 of 11

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Intens	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_2$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
60																										
62																	<1	5-7					37290	≤ 2cm qtz. bx	63.50 - 134.41 m INTERMEDIATE Volcanic Flow - aphanitic to fine-grained, extensively micro-fractured to 70.30 m transitional in color from pale purplish grey to pale greenish beige; weak to moderately silicified throughout	
64																	<1	2-3					37291			
66																							37292	2.0cm fault gouge @ 60°		
68																	<1	2-3							68.31 - 69.0 m Weak Fault Breccia Zone	
70																	<1						37293	3.0cm fault gouge @ 50°		
71																										

H[illegible] E NO. W-92-12 **DR[illegible] LOG** Page 6 11

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____



HOLE NO. W-92-12 DRILL LOG Page 7 of 11

PROJECT
CONTRACTOR
DATE STARTED COMPLETED
LOGGED BY

T.D.
INCLINATION
COORDINATES
SURVEY REFERENCES

COLLAR ELEVATION
BEARING

Footage	Core Recovery	Oxide	Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	Surf Veins	Frac Inten	Est Cu Mo	CuFeS2	FeS2	Cu5FeS4	Fe3O4	MoS2	Sample No & Interval	LOG SCALE / BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS, NOTES & SKETCHES	ROCK UNIT
84–87																	4.1		3-4%				37298	83.80–89.20m Pale greyish white fine, mod. silicified 3-4% 'irregular wispy masses' of py distinct, sharp color change @ 89.2m		
87–90																	4.1						37299	89.2–100.5m 3-4% dark-aqua green chlorite 'clots' (3-7mm diam.) pervasively silicified, 6-8% 'blebs' + coarsely dissem py throughout		
90–93																	4.1	Tr	6-8%				37300			
93–96																	4.1						37301			

HOLE NO. W-92-12 **DRILL LOG** Page 8 of 11

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Intens	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_5FeS_4	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
96																										
98																	1:1						37302			
100																	1:1		6-8%				37303	100.5 - 120.20m Pale grey transitional to pale greenish gray fine, 6-8% coarsely dissem py		
102																	1:1						37304	@102.6m 5cm qtz. carb. bx. @ 55°		
104																	1:1						37305	104.95 - 105.46m 'Milky white' siliceous appearance		
106																										
108																										

HOLE NO. W-92-12 **DRILL LOG** Page 9 11

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carbonate	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_2$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, ore column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
108																										
110																	L.1				Trace		37306			
112																	L.1		6-8?		Trace		37307	2cm 6x		
114																	L.1						37308	116.0–119.20 m Highly Broken Core.		
116																	L.1		4-5?							
118																	L.1						37309			
120																										

H NO. W-92-12 **DR' LOG** Page 10 11

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Chl/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Ceo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_2$FeS$_4$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
120																										
122																	<1		4-5				37310		120.20 – 125.95m Mottled appearance due to fine-grained (1mm) bluish-aqua green chlorite 'clots' 4-5% Dissem. Py	
124																	<1						37311		125.95 – 127.2 Pale brownish beige WK-moderate argillic alt'n, 10-15% bluish qtz 'clots' and 'irregular masses' and 1cm fault gouge @ 45°	
126																	<1		8-10				37312		127.2 – 134.41m Pale gray transitional to pale beige hue @129.5m 5cm Qtz. Frac. fill @ 45°	
128																	<1						37313			
130																										
132																										

HOLE NO. W-92-12

DRILL LOG

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PROJECT _____
CONTRACTOR _____
DATE STARTED _____ COMPLETED _____
LOGGED BY _____

T.D. _____ COLLAR ELEVATION _____
INCLINATION _____ BEARING _____
COORDINATES _____
SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Chl/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite			STR.: Surf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
132																												
			/		.					/											8-10				37314			
134																										E.O.H. 134.41 m		

HOLE NO. W-92-13

DP" L LOG

PROJECT Wann
CONTRACTOR Olympic Drilling & Consulting Ltd.
DATE STARTED April 26/92 COMPLETED April 27/92
LOGGED BY D. J. Pawlink

T.D. 117.65 m (386') COLLAR ELEVATION 450' ±
INCLINATION -60° BEARING 180°
COORDINATES 228 661 N / 261014E ±
SURVEY REFERENCES

ACID TEST -56° at 117.65 m ; CASING PULLED

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Argil	Biotite	K-spar	Chlorite	Epidote	Carb/Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac	VISUAL EST.: Est Cu	CuFeS2	FeS2	CuFeS2	Fe3O4	MoS2	Sample & Interval	LOG: BASIC GEOLOGY: rock types, metallization, structures alterations, ore column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
8																										
10																	<.1	0.5-1					37315	mod. blk core fault slip at 50° minor py vlt 1 mm wide @ 70° fresh, bright flakes of secondary (?) biotite. Brown colour. slip @ 50°	0.00 - 8.23 CASING. 8.23 - 17.05 ALTERED DIORITE. Medium greenish grey with local lighter coloured pink-ora patches to 30 cm wide where rock has been stained by pervasive potassic feldspar a Generally medium grained; loca fine grained sections. Weak clay mineral alteration of feldspars throughout; often blea Weak chlorite. Local to 3 % epidote along margins of zeolite vl Pyrite locally to 1% finely diss, irreg masses to 1x8 mm an vlts to 0.5 mm wide. Magnetite to 1% finely diss and as faint clots to 3 mm.	
12																	<.1	0.5-1	tr				37316			
14																							37317			
16																	<.1	.5-1	1							
18																	tr						37318			
20																	<.1		1						17.05 - 42.13 ANDESITE. Medium grey to greenish grey, medium to coarse grained with subhedral feldspar with faint grain boundaries. Obscure granitic texture in places gives unit tho	

HOLE NO. W-92-13 **DRILL LOG** Page 2 of 10

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Ca-Fe(c)	Garnet	Pyroxene	Amphibole	Wollastonite			STR.: Surf Veins	Frac Intens	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_2$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
20																												
22																			<.1		Tr		1-2		37319	~ bright brown fresh biotite flakes.	appearance of a fine grained diorite. Local traces pyrite, wk chl, ~0.5% zeol vlts to 6 mm wide & randomly oriented. Magnetite 1% mainly v. finely diss and as local 1 mm clots. Rock appears to have undergone pervasive silicification in most places. Irregular bands and dykelets of m. gr. diorite to 6 cm wid form about 1% rock volume and are more abund (~30%) below 41.40 in depth. Biotite as fresh-looking, brown flakes; possibly primary and not a product of potassic alteration. Rock identical to lowermost silicified "diorite" in hole-8.
24																			<.1	tr	tr				37320	~ py 80%/mag 20% v/t 2 mm wide w. v.f. speck cp on rim. ~ brecciated off-white and watery grey vein qtz within band 4 cm wide @ 35° to c.a.	
26																						2						
28																			<.1						37321			
30																			<.1	tr	tr?		1-2		37322	~ poss. v.f. cp specks		
32																												

HOLE NO. W-92-13 **DRILL LOG** Page 3 of 10

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_3$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
32																										
34																	<.1		tr		1-2		37323		py as blebs and subhedral cubes av. ~3 mm across; larger py masses to 6 or 8 mm often within white qtz spot about 1 cm wide; usually magnetite and/or biotite present as well in these white qtz masses.	
36																	<.1		1				37324			
38																									42.13 - 117.65 DIORITE. Light grey to light greenish grey to greyish pink-orange where pervasive, patchy potassic feldspar (?zeolite) altn. has occurred. Medium grained; hbld weakly chloritized. Epidote as small spots. Less than 0.5% off-white to pale pinkish carb/zeol as fine vlts av. 1-2 mm wide.	
40																	<.1		tr?				37325			
42																	<.1		1		.5		37326		contact between amds + dior @ ~60°.	
44																			tr		1					

HOLE NO. W-92-13 **DRILL LOG** Page 4 of 10

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Infen	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
44																										
46																	<.1		tr		1					
48																	<.1		tr				37327			
50																	<.1		tr		1					
52																	<.1		tr				37328			
54																	<.1		tr		1					
56																										

~ py most often as f. speckles within magnetite xtals/masses.

~ greenish grey (sooty py) qtz vein 3cm wide @ ~35°.

Local moderately to weakly silicified patches av. say 5 to 10 cm across (max. 40cm throughout where rock more grey colour.
Light bluish green, earthy sericite (? chlorite), forms about 2 or 3% of unit volume below 70 m; often within faint 2-3 cm b
Brownish quartz vlts contain sooty pyrite about 0.5% o rock volume below 75 m; one of these vlts dissected by later brownish carbonat veinlet. Magnetite 1% as subhedral crystals and blebs av. 1 mm across.
Plagioclase as watery grey blocky crystals to 1 x 3 mm Hbld mainly as elongate xtals. 1-2 mm in length.

HOLE NO. W-92-13 **DRILL LOG** Page 5 of 10

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_2$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
56																										
58																	<.1		tr		1					
60																	tr (?)								prob. cp as v. fine speck on margin mag vein	
																	<.1						37329			
62																			tr							
																	tr ?				1					
64																	<.1									
																			tr							
66																					1		37330		prob. healed fault ∂ ~ 50°	
																	<.1		tr						k spar along margins cp/v ft/zeol 1 mm wide ∂ 45°	
68																										

HOLE NO. W-92-13 **DRILL LOG** Page 6 of 10

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_2$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, ore column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
68																										
70																	<.1		tr		1					
72																	<.1		tr		1		37331		~ 2 qtz vlts contain sooty py	
74																	<.1		tr		1					
76																	<.1		tr		1				~2 v.f. cp specks in mag chl 2 mm across	
78																	<.1		tr		1		37332		* ~ qtz vlt (w. sooty py) cut by late, wider carb vlt.	
80																										

HOLE NO. W-92-13 **DRILL LOG** Page 7 of 10

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_2$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
80																										
																	<.1		tr		1				generally sooty grey py within cores of qtz vlts; outer margins creamy white quartz or sometimes cream coloured zeolite.	
82																								~ands xenolith		
																							37333		nearly zero sulphide mineral content	
84																	<.1		tr		1					
86																										
																	<.1		tr		1		37334	~v. tiny cp speck		
88																										
90																	<.1				1					
92																										

HOLE NO. W-92-13 **DRILL LOG** Page 8 of 10

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Infen	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_2$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
92																										
94																	<.1				1-2		37335			
96																	<.1				1-2					
98																			tr							
100																	<.1		tr		1-2		37336			
102																			tr					~ minor ep, traces of qtz vlt	K-spar alt'n along margin 12 mm wide @ 55°.	
104																	<.1				1					

HOLE NO. W-92-13 **DRILL LOG** Page 9 of 10

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
104																										
106																	<.1				2		37337			
108																	<.1	tr			2		37350		ands xeno v. tiny cp specks in mod sil patch ~10 cm across.	
110																		tr tr							ands xeno	
112																	<.1	tr (3)	tr		2		37351			
114																	.1	1			2		37338		1% cp, 0.5% sooty py over 20 cm within + along margins of qtz vn 8 mm wide at 40° to c.a.	
116																										

HOLE NO. W-92-13 **DRILL LOG** Page 10 of 10

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_5FeS_4	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
116			/							/													37339			
																	.1				2					
118																									117.65 m END OF HOLE	

HOLE NO. W-92-14 **DRILL LOG** Page 1 of 10

PROJECT Wann
CONTRACTOR Olympic Drilling & Consulting Ltd.
DATE STARTED April 27/92 COMPLETED April 28/92
LOGGED BY D. J. Pawliuk

T.D. 121.00 m COLLAR ELEVATION 476' ±
INCLINATION -60° BEARING / 176°
COORDINATES 229004 N / 268544 E ±
SURVEY REFERENCES

ACID TEST -55.5° at 118.87 m. CASING PULLED

0.00 - 8.23 CASING

8.23 - 121.00
DIORITE Light greenish grey to grey (silica-indurated to greyish pink-orange (Kspar altered) to light bluish green (sericite altered). Medium to fine grained. Weak chlorite alteration of hornblende xtals; hbld as generally stubby euhedral crystals av. 1-5 mm in length. Pervasive very weak bluish green, earthy sericite alt'n throughout; locally moderate within fract bands up to 10 or 15 cm wide. About 1% off-white to pale pinkish orange carbonate/zeolite veinlets generally 2-3 mm wide, max. ~5 cm. Patchy pervasive silicification of the rock has occurred

~2 v. f. cp specks in mod sil interval

~2 ep along margin of orange-pink zeolite vlt.

~2 generations of carb vlts.

~ magnetite less abundant where py content increased.

HOLE NO. W-92-14 **DR . LOG** Page 2 of 10

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Silicification	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS2	FeS2	Cu2FeS3	Fe3O4	MoS2	Sample No & interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, ore column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
20																			2				37344	D 2 v. f. cp specks	Weakly to moderately fractured rock unit with carb/zeol and qtz vlts lining fracture sets; locally weakly brecciated. 2% magnetite mainly as subround masses av. 1 mm across, also v. f. diss. Pyrite local traces throughout as v fine specks; rare subhedral xtals to 1 mm across. Rock which silicified is v. similar to silicified diorite seen in hole -8 to the NE (150 m). Plagioclase euhedral elongate crystals, watery gray color	
22																										
24																										
26																							37345	2 cp as wispy irregular masses up to 0.5 mm across. One speck on margin of py bleb, other isolated in late silica.		
28																							37346			
30																										
32																										

HOLE NO. W-92-14 **DRILL LOG** Page 3 of 10

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_2$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
32																		tr						△		
																			tr		2		37347			
34																	<.1	tr								
																		tr	tr							
36																					2		37348			
																	<.1	tr	tr					2 typical v. fine cp specks in mod sil interval	little py present	with
38																		tr							sil diorite.	
40																	<.1	tr	tr		2			2 v. f. speck cp		
42																		tr					37349			
																	<.1	tr	tr		2					
44																		tr								

I E NO. W-92-14 DR .LOG

PROJECT ______ T.D. ______ COLLAR ELEVATION ______
CONTRACTOR ______ INCLINATION ______ BEARING ______
DATE STARTED ______ COMPLETED ______ COORDINATES ______
LOGGED BY ______ SURVEY REFERENCES ______

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite			STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_5FeS_4	Fe_3O_4	MoS_2	Sample No & Interval	LOG: SCALE ______ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS, NOTES & SKETCHES	ROCK UNIT
44–47																			<.1		tr		2					
47–50																			<.1	tr	tr, tr		2		37352	▷		
50–53																			<.1	tr?	tr, tr		2					
53–56																			<.1	tr	tr, tr		2		37353	▷ (95%) - qtz (5%) ~ carb vein 3 cm wide @ 25° to c.a. contains py xtals to 2 mm across.		

44
46
48
50
52
54
56

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PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Inten	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
56																										
58																	<.1		tr		2				less silica and more light bluish green seric in lower part hole.	
60																		tr						cp specks to 3 mm diameter.	0.5 mm within mag clot	
62																	<.1	tr	tr		2		37354	v.f. specks cp.		
64																	<.1		tr		2					
66																		tr								
68																	<.1	tr	tr		2		37355			

HOLE NO. W-92-14 **DRILL LOG** Page 6 10

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Sulf Veins	Frac Intens	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_5$FeS$_4$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
68																										
70																							37356			
72																									irreg. py mass 4 X 30 mm.	
74																									mag vlt py vlt	
76																							37357			
78																									irregular py vlts, lenses cut by later off-white carb vlts.	
80																										

HOLE NO. W-92-14 **DRILL LOG** Page 7 of 10

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Prop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Intens	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_2$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
80																										
																			tr							
																	<.1				2		37358		~2 brownish gray qtz vlts to 4 mm wide contain sooty py.	
82																		tr	tr						~2 v. tiny py speck	
84																					2					
																	<.1		tr							
86																										
																			tr							
																	4.1				2		37359			
88																			tr							
90																										
																	<.1		tr		2				~2 fault slip @ 50°	
																			5							
92																			2						~2 py vlts to 2 mm; irregular	

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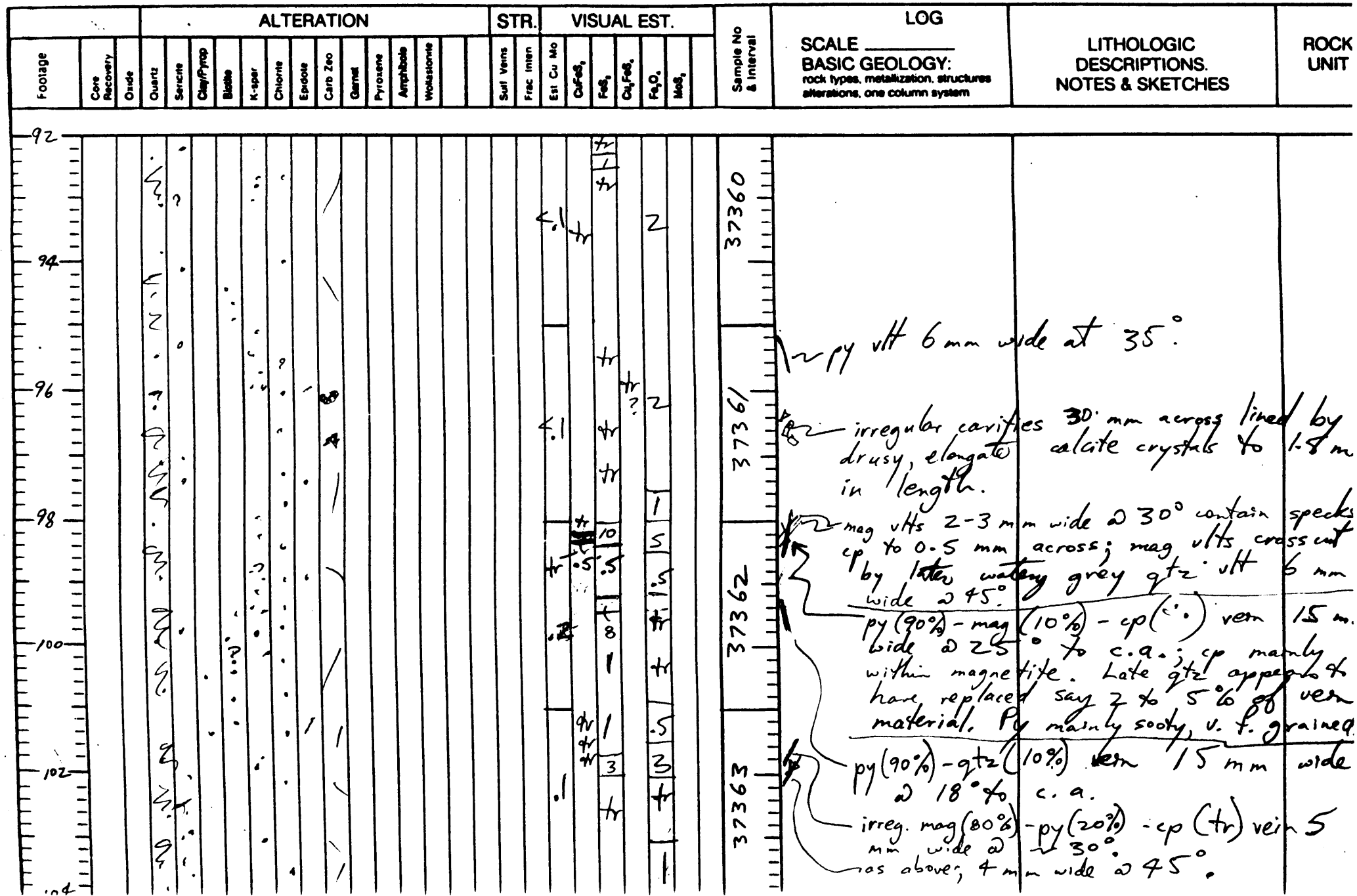
PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____



DDH NO. -14 **DRILL LOG** Page 9 of 10

PROJECT _____ T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Intens	VISUAL EST.: Est Cu Mo	$CuFeS_2$	FeS_2	Cu_2FeS_3	Fe_2O_3	MoS_2	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metallization, structures alterations, ore column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
104																										
106																			tr			1				
108																			tr							
110																						1-2	37364			
112																			tr							
114																			tr			1-2				
116																			tr				37365			

2-4 cm wide sericite most abundant within haloes of carb/zeol vlts within the hole.

light greenish qtz veinlets prob. contain v. f. diss py.

irregular py (90%) – mag (10%) vlt 0.5 mm wide contains occ. speck cp.

sulphide mineral content nearly zero in bottomost portion of hole.

cream-white carb (80%) – qtz (20%) vein 5 cm wide @ 35° to c.a. contains angular wallrock fragments. + 1% py along margins

H[illegible] NO. W-92-14 **DRI[illegible] LOG** Page 10 10

PROJECT _____ T.D. _____ COLLAR ELEVATION _____
CONTRACTOR _____ INCLINATION _____ BEARING _____
DATE STARTED _____ COMPLETED _____ COORDINATES _____
LOGGED BY _____ SURVEY REFERENCES _____

Footage	Core Recovery	Oxide	ALTERATION: Quartz	Sericite	Clay/Pyrop	Biotite	K-spar	Chlorite	Epidote	Carb Zeo	Garnet	Pyroxene	Amphibole	Wollastonite	STR.: Surf Veins	Frac Intens	VISUAL EST.: Est Cu Mo	CuFeS$_2$	FeS$_2$	Cu$_2$FeS$_3$	Fe$_2$O$_3$	MoS$_2$	Sample No & Interval	LOG: SCALE _____ BASIC GEOLOGY: rock types, metalization, structures alterations, one column system	LITHOLOGIC DESCRIPTIONS. NOTES & SKETCHES	ROCK UNIT
116																										
																	<.1						37366			
118																										
120																	<.1						37367			
121																										
122																										

1 — irreg. py (60%) – mag (40%) vn contains cp specks.

2 — cp speck 0.75 mm across.

121.00 m
END OF HOLE