

LOG NO: FEB 14 RD.

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REPORT

on the

Haida-CATSPAW PROPERTY  
STEWART GOLD CAMP AREA  
SKEENA MINING DIVISION, B.C.

LATITUDE 56 DEGREES 18 MINUTES NORTH  
LONGITUDE 130 DEGREES 06 MINUTES WEST  
MAP REFERENCE - N.T.S. 104B/8E

on behalf of

BIG I DEVELOPMENTS LTD.  
and  
LAYFIELD RESOURCES INC.

by

JAMES W. McLEOD, B.Sc.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

November 7, 1991  
Vancouver, British Columbia

22,124

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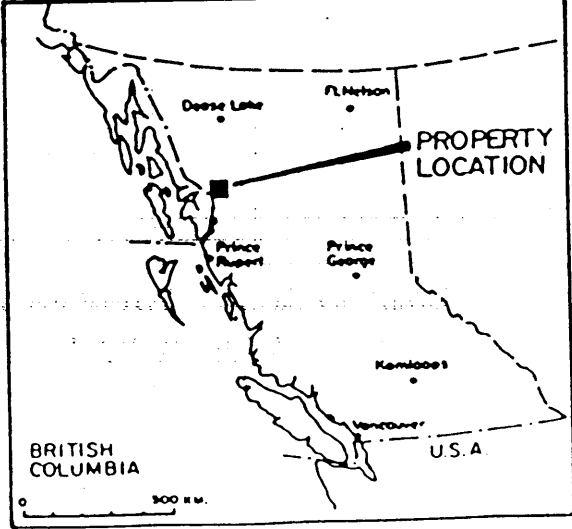
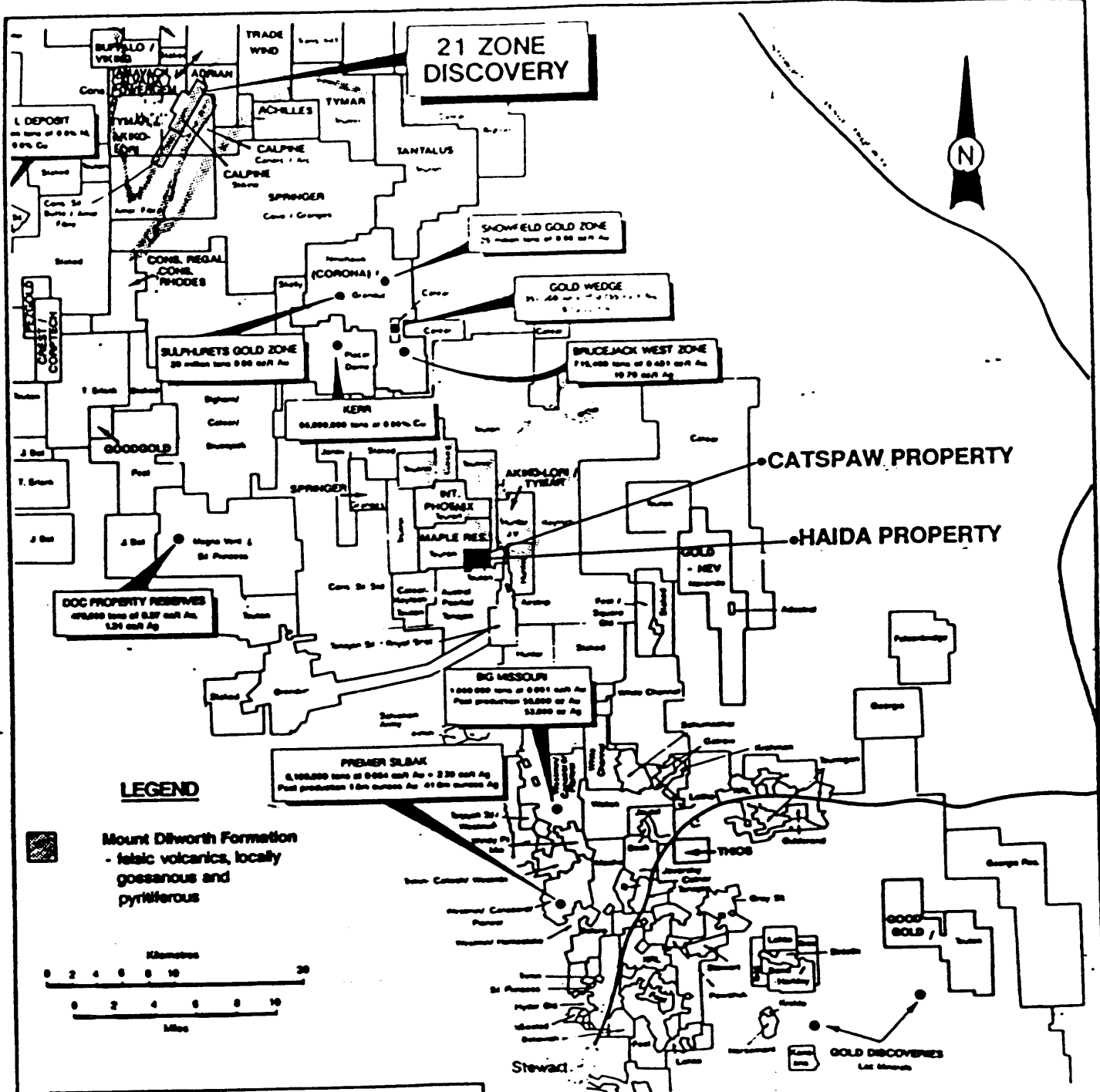
## SUMMARY

A diamond core drilling and rock trenching program was undertaken on the Haida-Catspaw mineral claims during the summer of 1991.

Of the two zones that were drilled only one, on the Catspaw mineral claim (Site #1 - DDH 91-2), encountered anomalous gold-silver values in a quartz-carbonate-sulphide fissure zone.

While the values encountered were low ie. 0.011 oz/ton gold and 0.79 oz/ton silver over an 11 metre section, the zone may have east-west and down-dip potential. The 1990 VLF-EM survey indicates a possible east-west conductor trend which may correspond to this mineralized section. Some very high gold and silver values have been reported in the past from the East Gold Mine which lies to the southeast of this zone.

For these reasons further exploration work on the mineral claims is recommended. The cost of the recommended program is \$120,000.00.



<b>BIG I DEVELOPMENTS LTD.</b>		
<b>CATSPA W-HAIDA CLAIMS LOCATION MAP</b>		
N.T.S. 104B-8E	SKEENA M.D., B.C.	
SCALE: AS SHOWN	MAY 1990	FIG. 1

**INTRODUCTION**

The fieldwork program described in this report was conducted on the Haida-Catspaw property under the writers' supervision during the period July - September 1991. The program includes diamond core drilling and rock trenching.

This report is being prepared at the request of the Board of Directors of Big I Developments Ltd. and Layfield Resources Inc. of Vancouver, British Columbia.

**LOCATION AND ACCESS**

The property is located 40 kilometres north of British Columbia's most northerly coastal town of Stewart, B.C. in the northwestern part of the Province near the eastern International Boundary of the Alaska Panhandle.

Access, to within 2 kilometres of the property, is afforded by travelling by road for approximately 55 kilometres from Stewart, B.C. passing a number of historic sites on the way. The drive begins by travelling through the Town of Hyder, Alaska and on through a southeastern portion of the Alaska Panhandle, back into British Columbia past the Premier Gold Mine (Westmin), continuing past the terminus of the Salmon Glacier, through the Scottie Gold Mine Summit Lake Camp, continuing past the former site of the Granduc millsite and portal of the famous 11 mile haulage tunnel and on to the Tide Lake airstrip. The Tide Lake strip is essentially the end of the road.

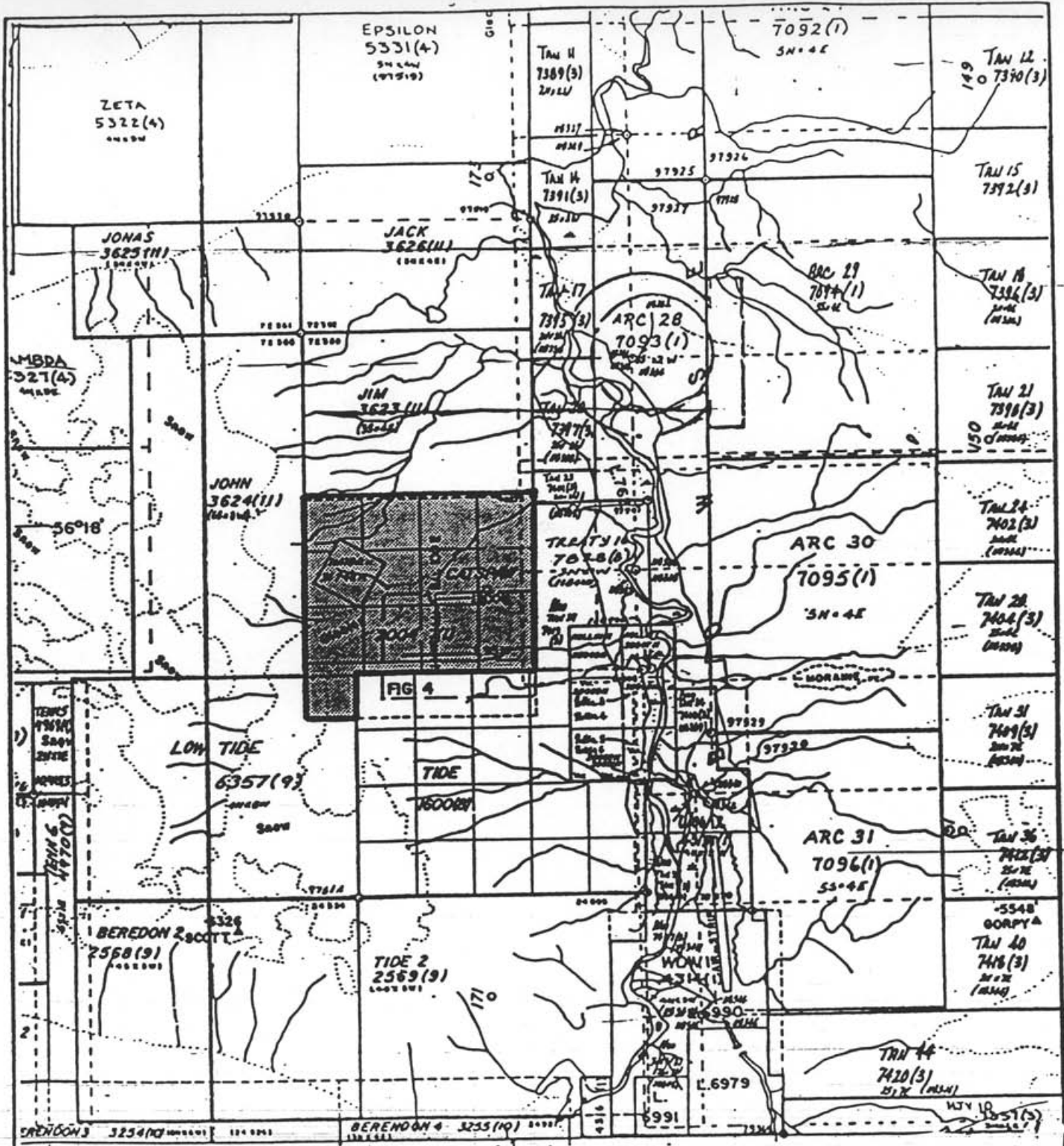
When the airstrip is open, normally during the summer and fall, access is provided to charter fixed-wing and helicopter air service. The equipment was transported by truck and trailer to the airstrip. The equipment was airlifted and support was provided by helicopter from the airstrip to the two separate sites on the property (Site #1 and Site #2).

The property may be located on N.T.S. Map Sheet 104B/8E at latitude 56 degrees 18 minutes N. and longitude 130 degrees 06 minutes W.

**PROPERTY AND OWNERSHIP**

The Haida-Catspaw property consists of two mineral claims. The Haida #1 claim lies within the Catspaw claim (see Figure 2) which are listed as follows:

<u>Claim Name</u>	<u>No. of Units</u>	<u>Record No.</u>	<u>Anniversary Date</u>
Haida #1	1	31748	July 5, 1996
Catspaw	16	2004	January 9, 1996



130° 05'



<b>BIG I DEVELOPMENTS LTD.</b>		
<b>CATSPAW-HAIDA CLAIMS</b>		
<b>CLAIM MAP</b>		
N.T.S. 104B-8E		SKEENA M.D., B.C.
SCALE: 1:50,000	MAY 1990	FIG. 2

The area of the property is approximately 350 hectares (865 acres). The property is in the Skeena Mining Division, British Columbia.

The Haida #1 mineral claim is owned by Silver Standard Resources Inc. of 400 - 1199 West Hastings Street, Vancouver, B.C. and the Catspaw mineral claim is owned by Teuton Resources Corp. of 602 - 675 West Hastings Street, Vancouver, B.C.

The claims are held under Option Agreements by Big I Developments Ltd. of 207 - 1318 56th Street, Delta, B.C., V4L 2A4. Big I Developments Ltd. assigned 50% of its' interest to Layfield Resources Inc. of Vancouver, B.C.

### TOPOGRAPHICAL AND PHYSICAL ENVIRONMENT

The property lies in rounded benched to steep mountainous glaciated terrain in what is termed the Boundary Ranges of the Coast Mountains physiographic setting between the elevations of 660 metres (2165') and 1450 metres (4760') mean sea level. The valleys in the general area have a typical glacial U-shape profile with many of the tributaries to the larger water courses exhibiting a hanging valley profile while the stream outflow in front of the numerous alpine glaciers in the area often exhibit a braided pattern. Glacial debris finding its' way to the floor of the major valleys is abundant.

The property is transected from southwest to northeast by an active (receding) glacial tongue of a portion of the Frank Mackie glacier to the centre of the property with the older valley created by the receding glacier providing present drainage to the northeast into the Bowser River. Numerous small creeks with very steep gradients whose courses often appear to be determined by the stratigraphic dip of the underlying bedrock afford drainage generally to the north and/or east and eventually into the Bowser River which flows north into Bowser Lake.

The biotic setting of the property may be described as Sub-Alpine which has undergone much recent and current glaciation. Sparse evergreen cover (often stunted and snow bent) occurs in places on the property below 1200 metres (4000') which in this location is timberline. Above this elevation grasses, mosses and lichen (and flowers) are predominant. Useable timber for underground exploration work exist in several locations on the property. Water for drilling is available in many areas below 1200 metres on the property from snowpack run-off and nowhere on the property should adequate drilling water be unavailable if some piping and pumping is utilized.

The general area receives heavy precipitation >250 cm/year with very heavy snow fall in the range of 5-8 metres accumulating during the early fall to late spring. The exploration season on

much of the property may last from June through October because of the open, generally southeasterly-facing nature of much of this particular property.

## HISTORY

The property originally called the Tide Lake Portland Mine was staked in 1928 by Mr. Alphonse Thomas of Stewart, B.C. who remained the sole owner of the property for many years. The property was examined in 1939 by Premier Gold Mining Company who undertook surface stripping, open cuts and a 50 metre (162 foot) adit in 1940. The results of this work was evidently discouraging because of grade indications and the economic conditions of the time. Mr. Thomas maintained the claims for a number of years during which time further surface and limited underground exploration was undertaken. Silver Standard Mines acquired the Haida #1 mineral claim in 1967. During 1980 Northair Mines Ltd. undertook a limited geochemical soil sampling program about the main surface and underground workings on the Haida #1 mineral claim.

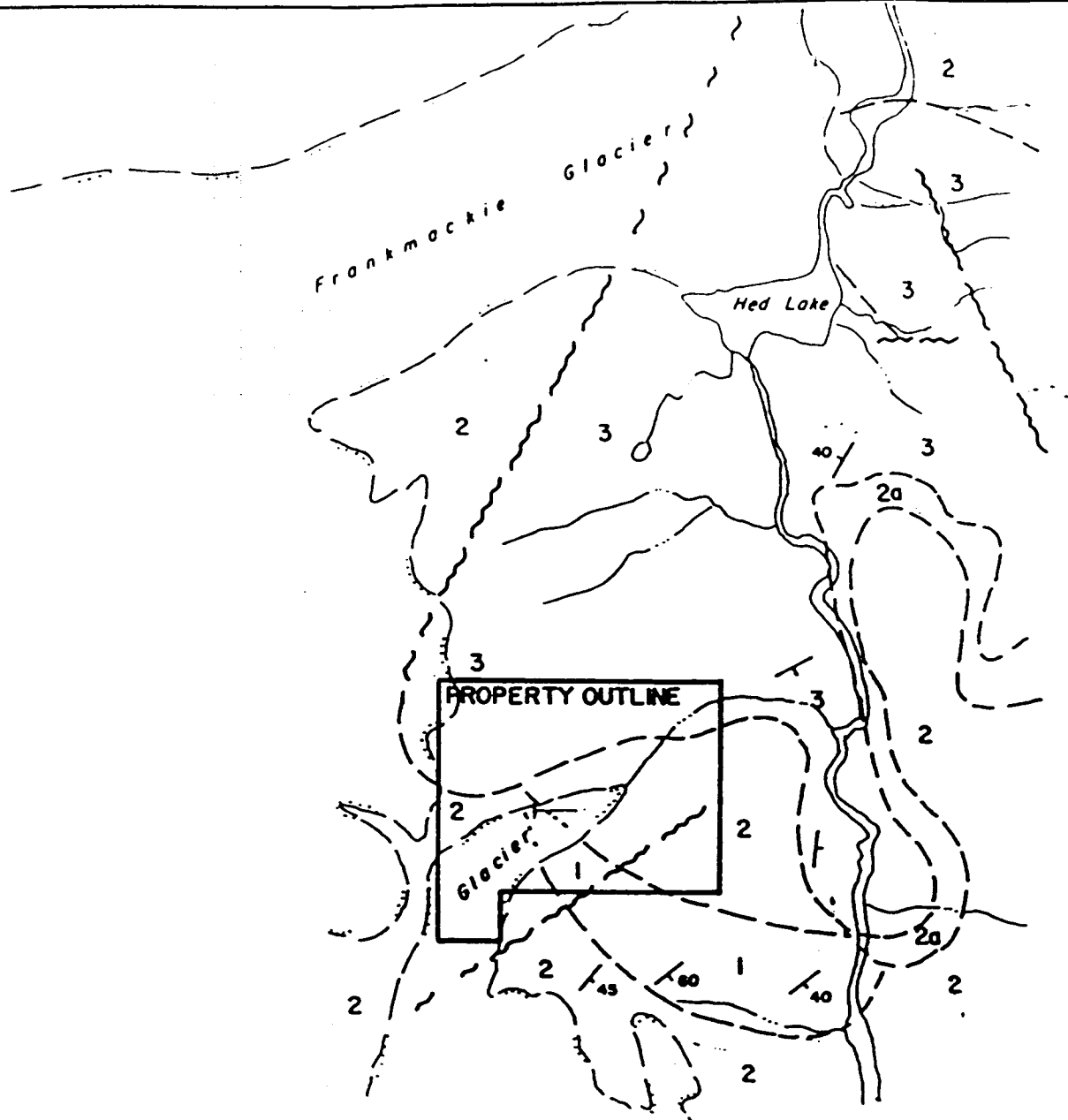
Elan Exploration Ltd. of Calgary, Alberta staked the surrounding Catspaw mineral claim in 1980. During the period 1980-82 E & B Explorations of Calgary, Alberta performed some geological mapping, sampling and prospecting on the Catspaw claim. In 1983 Teuton Resources Corp. optioned the Catspaw claim which they in turn optioned to Wedgewood Resources in 1987 at which time prospecting, rock trenching and sampling and a geochemical soil and/or rock sampling program was undertaken. Several zones of intense surface arsenic mineralization containing some gold and silver values were uncovered, subsequently trenched and sampled.

In 1990 Big I Developments Ltd. optioned both the Haida #1 and Catspaw mineral claims and performed some geological rock exposure mapping, limited VLF-EM and magnetometer surveys, rock trenching and a short prospect diamond core drill hole.

## REGIONAL GEOLOGY

The general area occurs between the eastern margin of the Coast Plutonic Complex and the western boundary of the Bowser Basin. The Bowser Basin is described as a tectonic basin bounded by the Cassiar Crystalline Belt on the north and east and the Coast Crystalline Belt (Complex) on the west. This border area between the Coast Plutonic Complex and the Bowser Basin is underlain by deformed sediments, volcanics and metamorphic rocks which comprise the Stewart Complex. The Stewart Complex extends from the Alice Arm area south of Stewart, B.C. north to the Iskut River area. In our general area of interest the underlying rocks have been assigned to the upper Triassic to lower Jurassic Hazelton Group and the middle Jurassic Spatsizi Group. In this area the Hazelton Group has been subdivided into three





**LEGEND**

- 1 Jurassic : metamorphics, schist, phyllite & semi schist, black argillite & siltstone
- 2 Lower Jurassic : Unuk River Fm., volcanic breccia (2a), conglomerate, greywacke, siltstone
- 3 Middle Jurassic : Salmon River Fm., siltstone, greywacke, argillite & conglomerate

After E.W. Grove (1964-1970)

- Geological contact
- ~ Fault
- Bedding
- Glacier or ice field



**BIG I DEVELOPMENTS LTD.**

**CATSPA W-HAIDA CLAIMS  
PROPERTY GEOLOGY**

N.T.S. K04B-8E

SKEENA M.D., B.C.



SCALE : 1:50,000

FIG. 3

formations and the Spatsizi Group comprised of one formation which are listed from oldest to youngest as follows:

a) Hazelton Group: 1) Unuk River Formation, 2) Betty Creek Formation and 3) Mount Dillworth Formation.

b) Spatsizi Group: 1) Salmon River Formation.

The following synopsis is derived from works on the area by Grove, E.W., 1971 and 1986 and Alldrick, D.J., 1987 and later for the British Columbia Ministry of Mines and Petroleum Resources and from other property reports and publications (see References).

**a) Hazelton Group:**

**1) Unuk River Formation:**

The Unuk River Formation of upper Triassic to lower Jurassic age is thought to have formed in an island arc setting to shallow-water marine environment with alternating periods of submergence-emergence with siltstone markers (Alldrick) bracketing periods of emergence and predominantly sub-aerial epiclastic and volcanoclastic accumulations. This style of deposition could evolve behind an island arc with the siltstone deposition marking relatively short periods of volcanic quiescence. The direction of sediment transport appears to be from an offshore topographic high toward the east. Grove (1987) divided the Unuk River Formation into lower, middle and upper members with intervening (dividing) unconformities. Alldrick made seven sub-divisions of the Unuk River Formation on lithological distinctions often with an upper and lower bracketing siltstone unit marking a change of depositional character. The Unuk River Formation of interbedded sediments and volcanics can generally be divided into a lower sedimentary and upper volcanic sequence. In this area the upper and lower sequences appear to form a continuous depositional period although erosional periods may have existed and as yet remain unrecognized. The formation is thought to be in excess of 2,000 metres in thickness. This formation has been characterized as the "Andesitic Sequence".

**2) Betty Creek Formation:**

This early Jurassic unit unconformably (angular) overlies the Unuk River Formation and although similar lithologically it is markedly more epiclastic. The basal dacite member attains 1200 metres in thickness and is seen to be laterally traceable for 170 km. from Alice Arm in the south to the Iskut River valley in the north (Grove, E.W., 1987). The upper sedimentary member is composed of a series of conglomerates, sandstones and siltstones. It is thought that the sediment comprising this unit is locally derived. This is a trough-filling formation which has been termed the "Epiclastic Sequence".

### 3) Mount Dillworth Formation:

This early Jurassic felsic volcanic unit, although relatively thin has considerable areal extent with marked lateral compositional and facies variation hence its' distinctiveness as a regional facies marker. Added to this is the distinction of being intimately associated with a major precious-base discovery (possibly a Kuroko-type of mineral occurrence) at Eskay creek, 48 km. northwest of the property. The Mount Dillworth formation has been divided into six members which from oldest to youngest are the basal pumice, massive aphanitic dust (lithic) tuff, welded ash flow tuff, siliceous lapilli (breccia) tuff, a relatively thick black tuff - carbonaceous crystal, lithic lapilli tuff and the upper most pyritic felsic tuff which have been observed to contain normal to bedding fumarolic, pyrite encrusted vents. This formation is characterized as the "Felsic Volcanic Sequence".

#### b) Spatsizi Group:

##### 1) Salmon River Formation:

This early to middle Jurassic unit is described as disconformably overlying the Betty Creek and Mount Dillworth Formations and unconformably overlying the Unuk River Formation. The essentially sedimentary unit is seen to be comprised of siltstone, greywacke, sandstone, minor limestone, argillite and conglomerate, volcanic sediments and flows exhibiting lithologic uniformity, distinctive bedding and complex fold patterns. The appearance of the formation displays a trend of subsidence from coarser clastic sedimentation of sandstones and turbidites to siltstone units. The formation is described as being in excess of 1,000 metres in thickness and has been termed the "Siltstone Sequence".

#### Intrusive Rocks:

The sedimentary, volcanic and metamorphic rocks of the general area have been effected several times by intrusive events. The following generalizations are made:

a) The larger intrusive bodies as described on the westside of the Stewart Complex area are more or less of a granodiorite composition which is maintained in the overlying generally andesitic volcanic pile. The Hyder Pluton is more quartz monzonite to granodiorite in composition and is known to host numerous quartz-sulphide mineral occurrences.

b) Two major intrusive events appear to have most effected the general area: late Triassic (210-195 million years) - Texas Creek granodiorite, Premier porphyry, Summit Lake granodiorite and 'Mill Porphyry' at the Scottie Gold Mine. The others are Tertiary (Eocene) granodiorites (approx. 50 million years) -

Boundary granodiorite, Hyder quartz monzonite and various crosscutting? dyke swarms in both the southwest and northwest areas of the Stewart Complex.

The following table is derived from (Alldick, D.J., 1985) to illustrate a possible general geological history of the area:

Age (million years)	Event
Eocene (approx. 50 Ma)	Formation of argentiferous vein deposits and spatially associated molybdenum and tungsten deposits.
Eocene (50 Ma)	Intrusion of Hyder quartz monzonite and Boundary granodiorite stocks.
Eocene (approx. 50 Ma)	Crustal extension and intrusion of major dyke swarms.
?	Deformation, north-trending fold axis.
Lower Jurassic (approx. 180 Ma)	Marine transgression, onset of sedimentation. Spatsizi Group - Salmon River Formation. "Siltstone Sequence".
Early Jurassic (approx. 180 Ma?)	Formation of gold-silver deposits. Haida-Catspaw mineralization?
Early Jurassic (approx. 180 Ma)	Felsic volcanism, predominantly subaerial. Hazelton Group - Mount Dillworth Formation. "Felsic Volcanic Sequence".
Early Jurassic (190 Ma)	Deposition of epiclastic sediments and interbedded dacitic tuffs and flows. Betty Creek Formation. "Epiclastic Sequence".
Early Jurassic to late Triassic (approx. 200 Ma)	Emplacement of Premier porphyry dykes and flows.
Late Triassic (210 Ma)	Intrusion of Texas Creek granodiorite and Summit Lake granodiorite stocks.
Early Jurassic to late Triassic (200-230 Ma)	Andesitic volcanic activity; predominantly subaerial, with two periods of marine transgression (subsidence?). Unuk River Formation. "Andesitic Sequence".

Note the implication that the Texas Creek granodiorite and related intrusions as described are integral to the "Andesitic Sequence" and not part of the Coast Plutonic Complex.

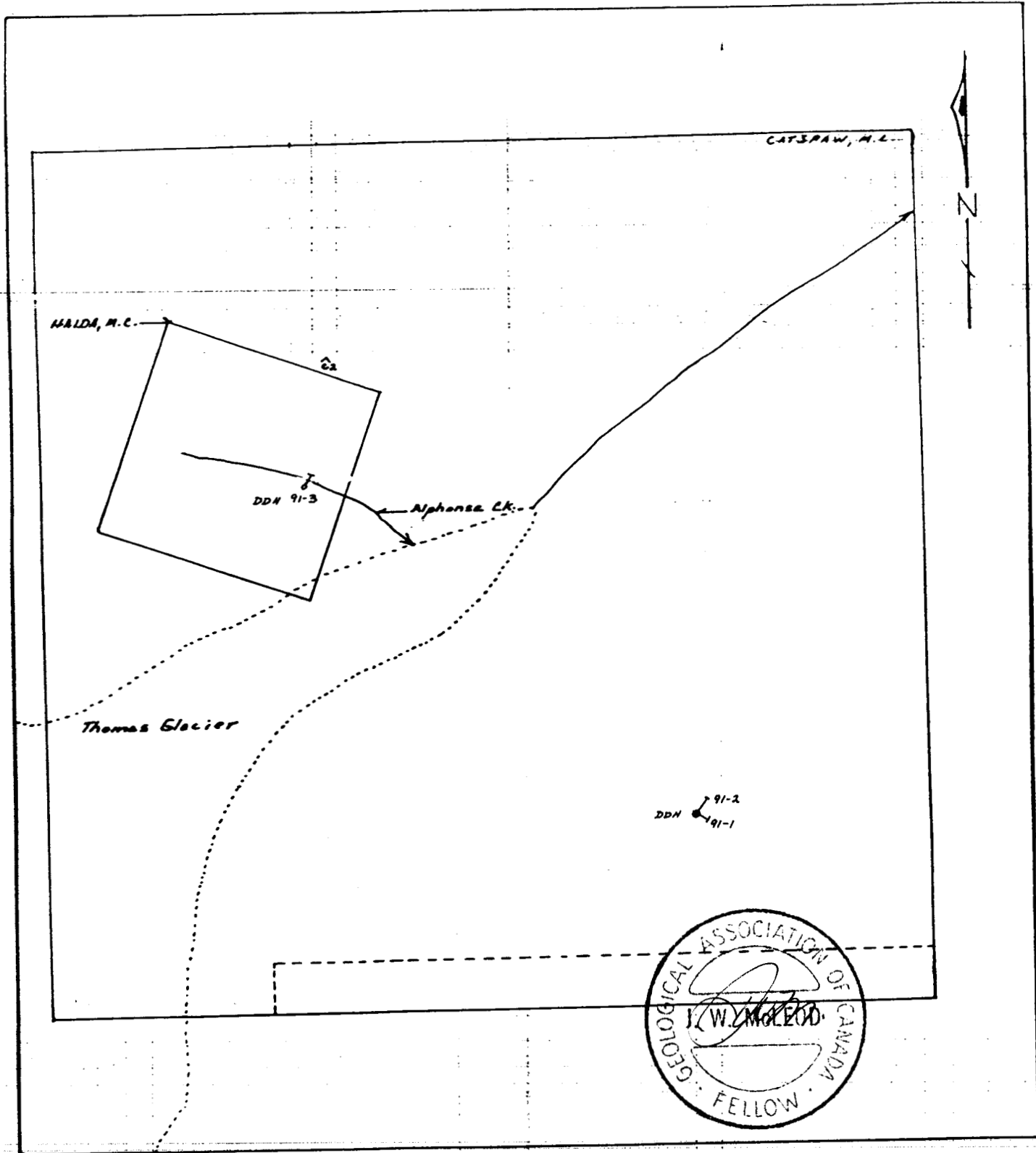
Note: Figure 3 - Property Geology is after E.W. Grove (1964-70).

LOCAL GEOLOGY

The Haida-Catspaw property is underlain by interbedded sediments, volcanics and metamorphic rocks of the Hazelton Group which have been assigned to the late Triassic - early Jurassic Unuk River Formation. Several intrusive rock occurrences are observed crosscutting the stratigraphic units and expressed by alteration generally as quartz-epidote-calcite-sericite with minor skarn and minor hornfels occurrences. Mineralization is found to occur most often with quartz; as crosscutting veins or siliceous zones on the southeast portion of the property and what may be a contact related occurrence at the Haida (Premier Adit) zone. Several replacement skarn massive sulphide occurrences were observed at various locations throughout the property. One massive sulphide showing occurs in a black siltstone approximately 150 metres northeast of Camp #2 (C2 - Figure 9).

The interbedded sediments and volcanics exhibit local variations in dip, but at the drill sites the rocks appear to be striking east-west and dipping toward the north ie. N280/80 degrees north.

The northwestern portion of the property, the Camp #2 (Haida) area is seen to be underlain by a sediment-volcanic sequence that has some similarities of rock types to the southeastern portion of the property. The sequence of rock exposures from south of the Premier adit toward the north ie. from oldest to youngest? are aphanitic banded tuff approximately 50 metres southeast of the entrance of the Premier adit, some of the darker layers of this tuffaceous rock are observed to contain disseminated pyrite. The area between this rock exposure and the Premier adit is occupied by a fine grained greenish-grey, white feldspar phyric crystalline rock with a color index (CI) of 15-20. The mafic mineral(s) are approximately 0.2 mm. in length and the feldspar phenocrysts are 2 mm. in length. The less altered rock contains about 10% quartz (primary?), but as the adit area and Alphonse creek is approached, the rock is highly brecciated, often containing angular angillite fragments and extensively quartz-welded. Alphonse creek appears to roughly follow the shear-contact at N290 degrees which is also found to dip 80 degrees to the south-southwest near the Premier adit. On the north-fork of Alphonse creek at elevation 1110 m. the fine grained laminated rocks exhibit slump folding of 2 cm. wide layers which are bounded by parallel non-folded layers. At the top of Alphonse creek (where the stream ceases to run on the surface) at approximately 1200 m. elevation is a glacial till occurrence (lateral moraine) which trends in a northerly direction from this point, making a bench effect from west to east which marks a previous glacial course toward the northeast.



Legend

- - Drill Hole collar
- - - - - Approx claim boundary
- ..... Boundary of Glacier
- ↗ - Stream
- 🏠 - camp

0 metres 500  
Scale 1: 12,500

Haida-Catspaw Property  
Skene M.D., B.C. 104B/8E

Drill Hole Locations

Figure: 9

J.W.M. 1991

The interlayered sediments and volcanics continue to the northern boundary of the Catspaw mineral claim and generally exhibit northwesterly strikes and eastward dips, except at the extreme northern boundary where the stratigraphy strikes northeasterly and dips to the southeast. This could indicate a syncline whose axis plunges to the northeast? Also along the northern boundary of the claim near the northwest corner a vertical fault zone (crushed gougy material containing abundant calcite) is observed trending N015 degrees. This is a similar trend to a fracture zone or fault observed between the north and south forks of Alphonse creek at elevation 1150 m.

There is a strong east-west trend of fracture and/or fault zones observed at both drill site locations. These zones may crosscut the stratigraphic sections and in some instances occur sub-parallel to the strike of the units while crosscutting the bedding ie. at the Premier adit area on the Haida claim. The overall cause of this structural style is not known although they may be tension fractures related to the development of some larger form such as a synclinal structure trending to the northwest along the Bowser River valley. These east-west structures appear to be a focus of hydrothermal alteration and the accompanying mineralization.

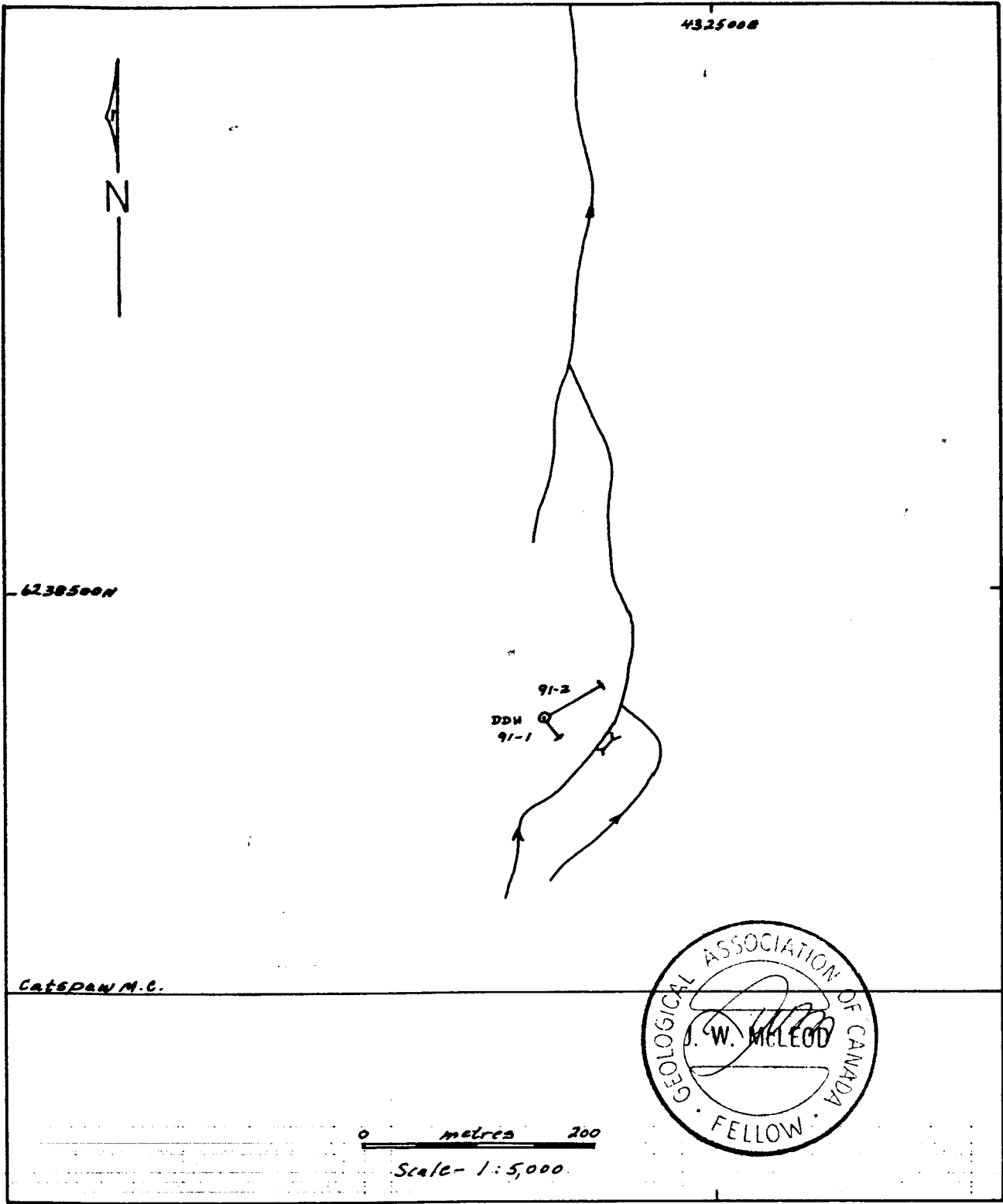
#### PRESENT WORK PROGRAM

The present work program was conducted under the supervision of the writer during the period July - September 1991. The equipment and supplies for the two drill camps was transported by truck and trailer from southern British Columbia to the Tide Lake airstrip. Equipment, materials and personnel were transported by helicopter to the two drill camps, one on the southside of the property (Site 1) and the other on the westside of the property (Site 2).

The program included drilling three holes, two from Site 1 on the Catspaw mineral claim and the other at Site 2 on the Haida mineral claim (Premier zone). The drill used was a BBS1 wireline unit drilling AQ-sized diamond drill core. The three holes are listed as follows:

<u>Hole #</u>	<u>Azimuth</u>	<u>Dip</u>	<u>Total Depth</u>
DDH 91-1	N 140	-72	228 feet
DDH 91-2	N060	-45	258 feet
DDH 91-3	N020	-60	456 feet

The drill core was boxed and logged in the field. The core was taken to Delta, B.C. where selected sections were cut-out using a diamond saw. The selected sections were bagged and sent in for



Legend

- Rock Trench
- DDH Locations
- Stream

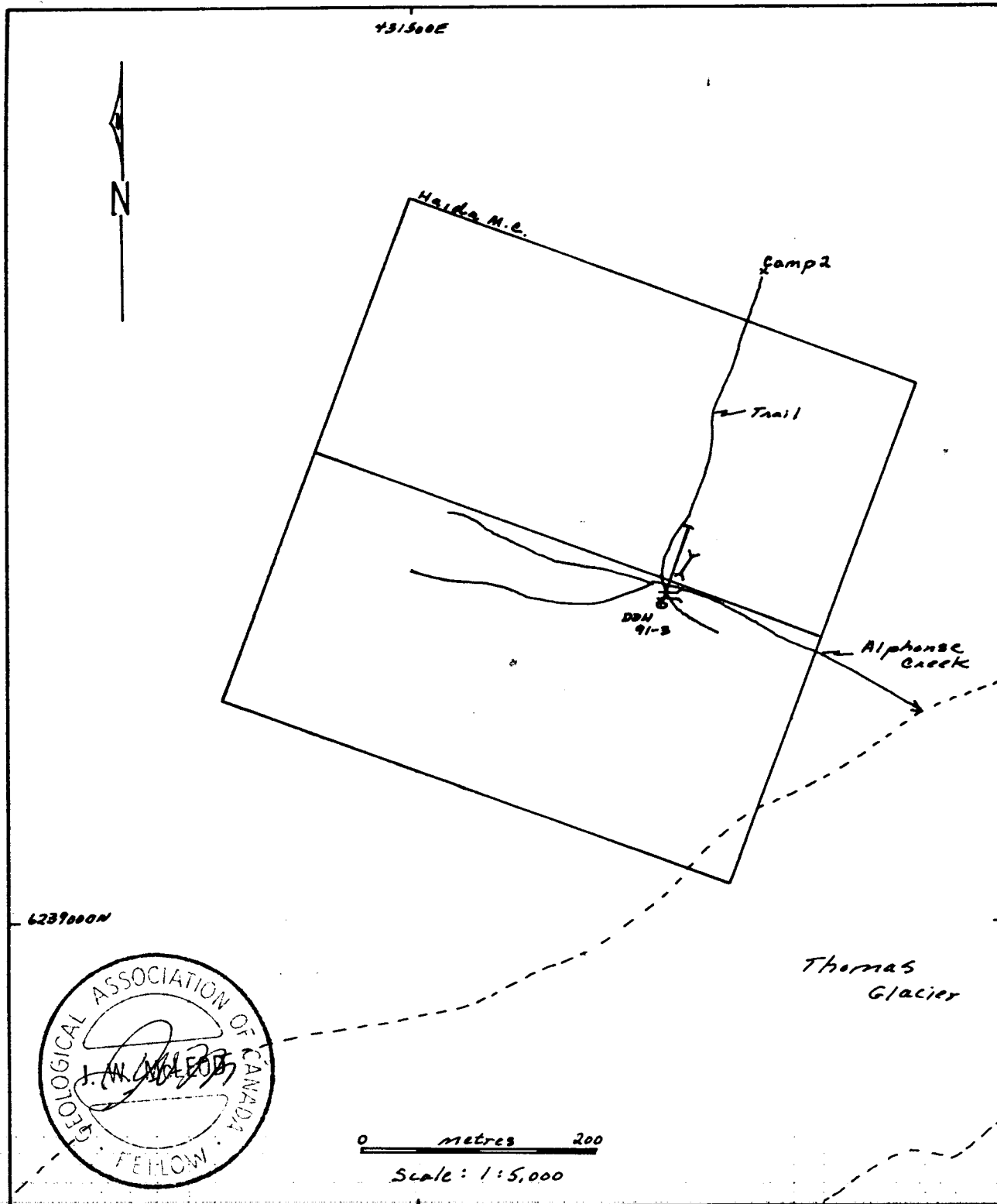
HAIDA - CATSPAW PROPERTY  
Skene M.D.B.C. map 104B/8E

SITE #1  
DDH 91-1 & 91-2 LOCATIONS  
N140°/72° & N060°/-45°

Figure 8

JWM/91





### Legend

- Premier Adit
- DDH Location
- Glacier Boundary
- Rock Trench

HAIDA - CATSPA W PROPERTY  
 Skeena M.D.B.E. Map 1045/0E

SITE # 2  
 DDH 91-3 LOCATION  
 N020°/-60°

Figure 7

JWM/91

analyses to Vangeochem Lab Limited, 1630 Pandora Street, Vancouver, B.C.

The samples were ground to -100 mesh and all were analysed for gold and silver by fire assay and several samples underwent multi-element analyses by the induction coupled plasma method (ICP). The drill logs and analyses are included in the report in the Appendices.

The program also included two areas of rock trenching using a Pionjar gas-operated rock drill and dynamite. The Site #1 rock trench trends N040 degrees along the northwest-face of a small waterfall. Its' dimensions are 18m. (l) x 0.5m. (w) x 1m. (d) = 9 cu. metres. The Site #2 rock trench trends N030 degrees across the highly altered area of Alphonse creek just north of the Premier adit. Its' dimensions are 22m. (l) x 0.5m. (w) x 1m. (d) = 11 cu. metres. For drill hole and rock trench locations see Figures 7-9, inclusive. The drill core is stored in Delta, B.C.

The trail from the C2 camp to Site #2 drill station required considerable work because of snow-pack damage to the trees in the area during the past winter.

## CONCLUSIONS

The current diamond core drilling and rock trenching program was undertaken in two mineralized areas which had rendered anomalous gold and silver values and coincident VLF-EM and magnetometer results during previous exploration work conducted by the writer in 1990.

The mineralization encountered was mainly as various types of iron (arsenical) sulphides, but the gold and silver values are low. The four best sections encountered were in DDH 91-2 which are listed as follows:

Intersection	Interval	Gold oz/t.	Silver oz/t.
15.24-16.20m.	0.96m.	0.052	3.60
58.84-60.06m.	1.22m.	0.033	3.44 (weighted)
63.72-64.33m.	0.61m.	0.026	1.17
73.78-74.62m.	0.84m.	0.034	1.86

This hole contains an 11 metre section from 57.60 to 68.60m. which contains visible arsenopyrite and pyrite accompanying the alteration products calcite and abundant quartz in a light grey coloured, fine grained crystal lithic tuff. The overall values in this 11 metre section are low, 0.011 oz/ton gold and 0.79 oz/ton silver, but they are anomalous. The VLF-EM data from the 1990 survey suggested that this area may be underlain by a NW-SE

conductive zone and in fact this steeply dipping mineralized section may represent that indicated structure, hence the electromagnetic anomaly. If this is the case then even these rather low gold and silver values could point the way to better grade mineralization especially to the southeast, toward the East Gold Mine. This structure should undergo further drill testing along its' east and west extensions and down the dip of the structure.

**RECOMMENDATIONS**

On the basis of the results obtained to date on the Haida-Catspaw property the writer recommends the following exploration program.

The reconnaissance program including mapping, prospecting, VLF-EM and magnetometer surveys, rock trenching mineralized areas and heavy mineral stream sediment sampling should be continued throughout the property.

A drilling program should be undertaken on the east-west extension of the Site 1 mineralized structure.

**COST ESTIMATE**

500 metres of AQ diamond core drilling, including camp, mobilization, site prep., de-mobilization, transportation @ \$165/m.	\$ 82,500
Geology and supervision	10,000
Transportation	5,000
Camp and board	3,000
Core preparation and assaying	5,000
Report and maps	2,500
Contingency	12,000
Total	\$120,000

Respectfully submitted,

*J. W. McLeod*  
 James W. McLeod, Geologist  
 FELLOW



## STATEMENT OF COSTS

Supervision, geology, core logging and preparation for 30 days @ \$300/day	\$ 9,000
Preparation of drill sites and rebuild trail to drill Site #2	3,100
AQ-wireline diamond core drilling: 288 metres (942') @ \$100/metre and 18 metres casing @ \$200/metre, including mobilization & de-mob., bits, fuel and helicopter support	32,400
Camp and board: 120 mandays @ \$50/day	6,000
Equipment rental: Pionjar gas drill, radio telephone, chain saw, etc.	1,200
4x4 truck rental: \$55/day for 30 days and \$.20/km.	2,850
Trailer rental: \$25/day for 30 days and \$.15/km.	1,200
Analyses: Gold and silver assays and ICP	679
Supplies - Drill bits, dynamite, camp fuel and oil, filters, plugs, etc.	440
Helicopter support for camp and supervisor	2,178
Accommodation and travelling expenses	750
Report	2,100
Total	\$61,897

## REFERENCES

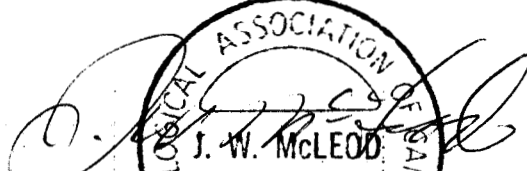
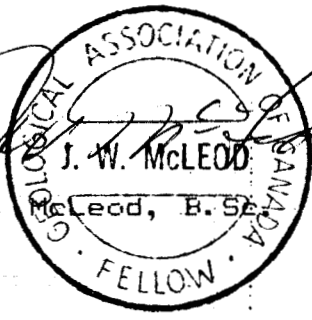
1. Alldrick, D.J. (1984): Geological Setting of the Precious Metals Deposits in the Stewart Area, Paper 84-1, Geological Fieldwork 1983, B.C. Ministry of Energy Mines and Petroleum Resources.
2. Arnold, R. (1980): Prospecting Report, Bowser-Unuk Project, Knipple Lake Area, 1980, for E&B Explorations Ltd.. by CanLake Explorations Ltd.
3. Grove, E.W. ET AL (1982) : Unuk River-Salmon River-Anyox Area. Geological Mapping 1:1000000, B.C.M.of E.M.P.R.
4. Grove, E.W. (1971): Geology of Mineral Deposits of the Stewart Area. Bulletin 58, B.C.M.of E.M.P.R.
5. Groves, W.D. (1988): Geological Report on the Frank Mackie Property on behalf of Wedgewood Resources Ltd.
6. Hemsworth, F.J., P.Eng., Report on the Tide Lake Portland Mine, Bowser River Area, Stewart, British Columbia. August 1953.
7. Kruchkowski, E.R. (1988): Report on the Catspaw Claim, Stewart British Columbia, January 1988 for Wedgewood Resources Ltd.
8. McLeod, J.W. (1991): Report on the Haida-Catspaw Property for Big I Developments Ltd., Assessment Report No.21212.

CERTIFICATE

I, JAMES W. McLEOD, of the Village of Ladner, Province of British Columbia, hereby certify as follows:

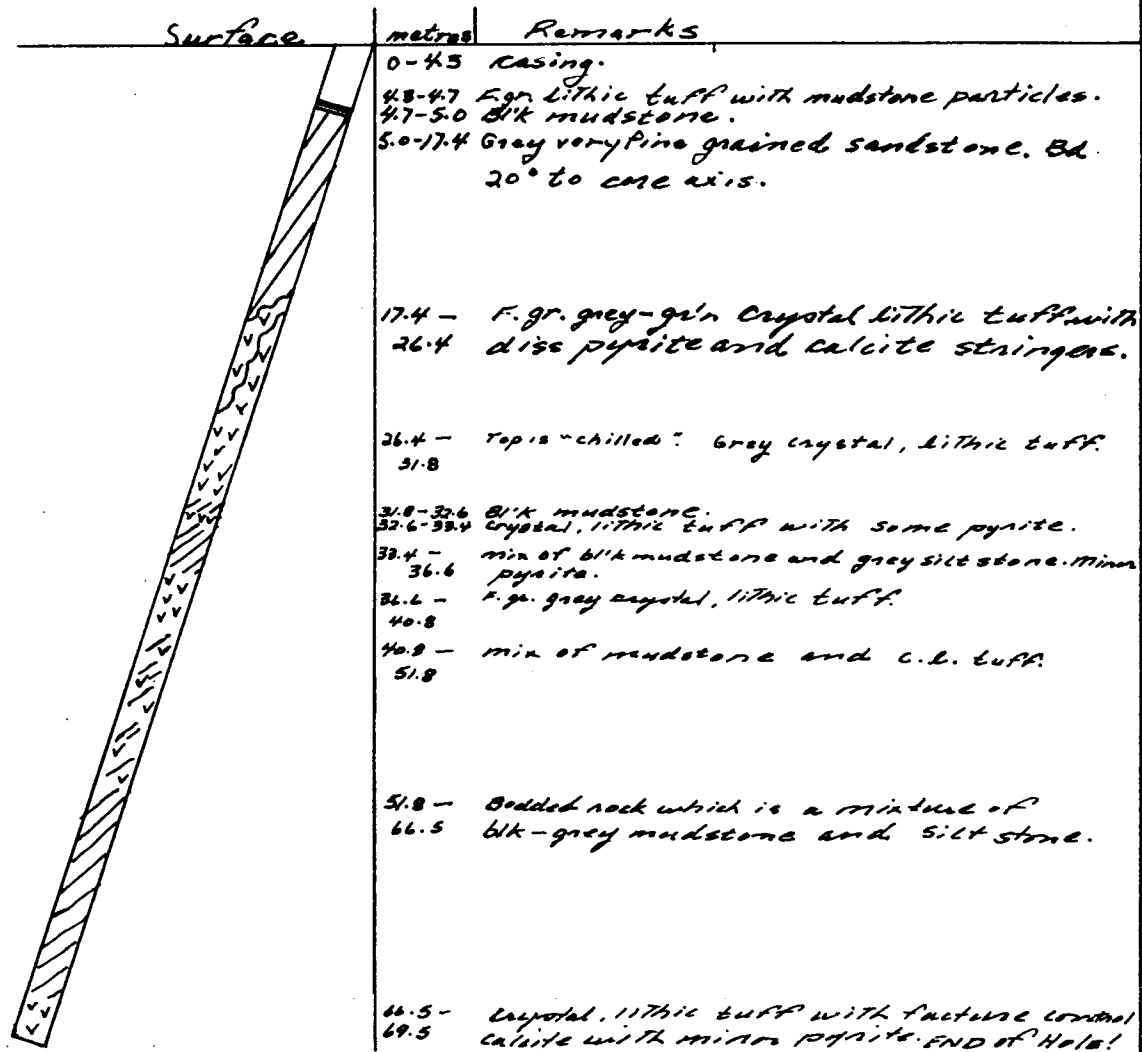
- 1) I am a Consulting Geologist with an office at 5303 River Road, Delta, B.C., V4K 1S8.
- 2) I am a Fellow of the Geological Association of Canada.
- 3) I graduated with a degree of Bachelor of Science, Major in Geology, from the University of British Columbia in 1969.
- 4) I have practised my profession since 1969.
- 5) I do not own any direct or indirect interest in the Haida-Catspaw property.
- 6) I am the President of Big I Developments Ltd.
- 7) The above report is based on personal field experience gained by myself in the general area in 1969 and by conducting the exploration programs on the property during the summers of 1990 and 1991.

DATED at Ladner, Province of British Columbia, this 7th day of November, 1991

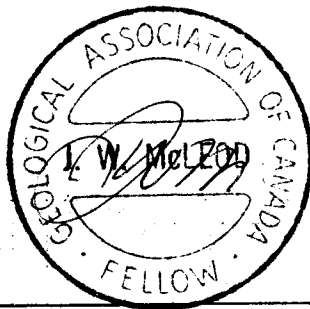
  
 J. W. McLEOD  
 James W. McLeod, B.Sc.  


APPENDIX I

DRILL CORE LOG



Vertical Scale 1:500



\*Note: Logs on following 2 pgs.

### Legend

- /// - Bedded sediments, mudstone, siltstone, sandstone, etc.
- vv - Volcanic which interlayered with the sediments.
- vv/ - Mix of sed. and volcanics, often brecciated.
- }} - Dominant (welded) fracture direction.

HAIDA - CATSPAW PROPERTY  
Skane M.O.B.C. Map 104 B/BE

DDH 91-1 CROSS SECTION  
N140°/-72°

Figure 4

JWM/191



# SAMPLE RECORD SHEET

## DRILL CORE LOG

Page 1

SAMPLER: J. McLEOD

PROJECT: DDH-91-1

MAP SHEET: 104 B/8E

AREA: 'C' ZONE IN CATSAW

PROPERTY: Haida-Catsaw

COMPANY: OMEGA SERVICES

DATE: NOVEMBER 1991

No. of Sav.: 0-228' (69.5m)

Attitude: N140°/-72°

INTERVAL Sample No. M02703	DESCRIPTION	TYPE of Sav.	Recovery	Notebook Ref.	ALTERATION & MINERALIZATION	Rock TYPE
0-4.3	Casing			Ib		
4.3-4.7	F.g. $\leq$ 1mm crystal, lithic andesitic tuff, $\geq$ 10% qtz with arg. blk mudst'n fragments which are sub-parallel to core axis (c.a.)	AQ core	100%	Ib	Minor dolomite (calcite) Swirls 45° to c.a.	A-cluff
4.7-5.0	Black mudstone	core	100%	Ib		M'st'n
5.0-17.4	Grey siltstone to f.g. mudst'n Dd. 20° to c.a.	core	100%	Ib		Silt'n
17.4-26.4	F.g. grey-green crystal, lithic (arg. blk 2-3mm.) tuff Fract's 10° and 40° to c.a.	core	100%	Ib	Minor pyrite (diss.) Calcite Stingers from 1mm - 2cm. @ 10° and 40° to c.a.	A-cluff
26.4-31.8	Beginning or highest 5cm in core contains massive py and graphite in a glassy "chilled" zone or margin $\rightarrow$ grading to progressively coarser to 1mm (fine gr.) qm. c-l. tuff - may be overturned?	core	100%	Ib	Pyrite and graphite? @ highest part of section, but may indicate overturned layers.	C-l tuff

# SAMPLE RECORD SHEET

Page 2

## DRILL CORE LOG

SAMPLER: J. McLEOD

MAP SHEET: 104 B/8E

PROPERTY: HAIDA-CATSPAW

PROJECT: DDH 91-1

AREA: 'C' zone on CATSPAW

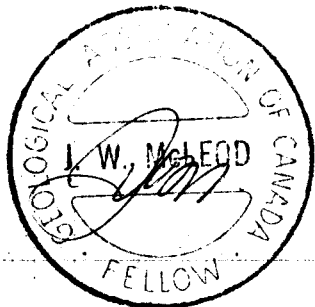
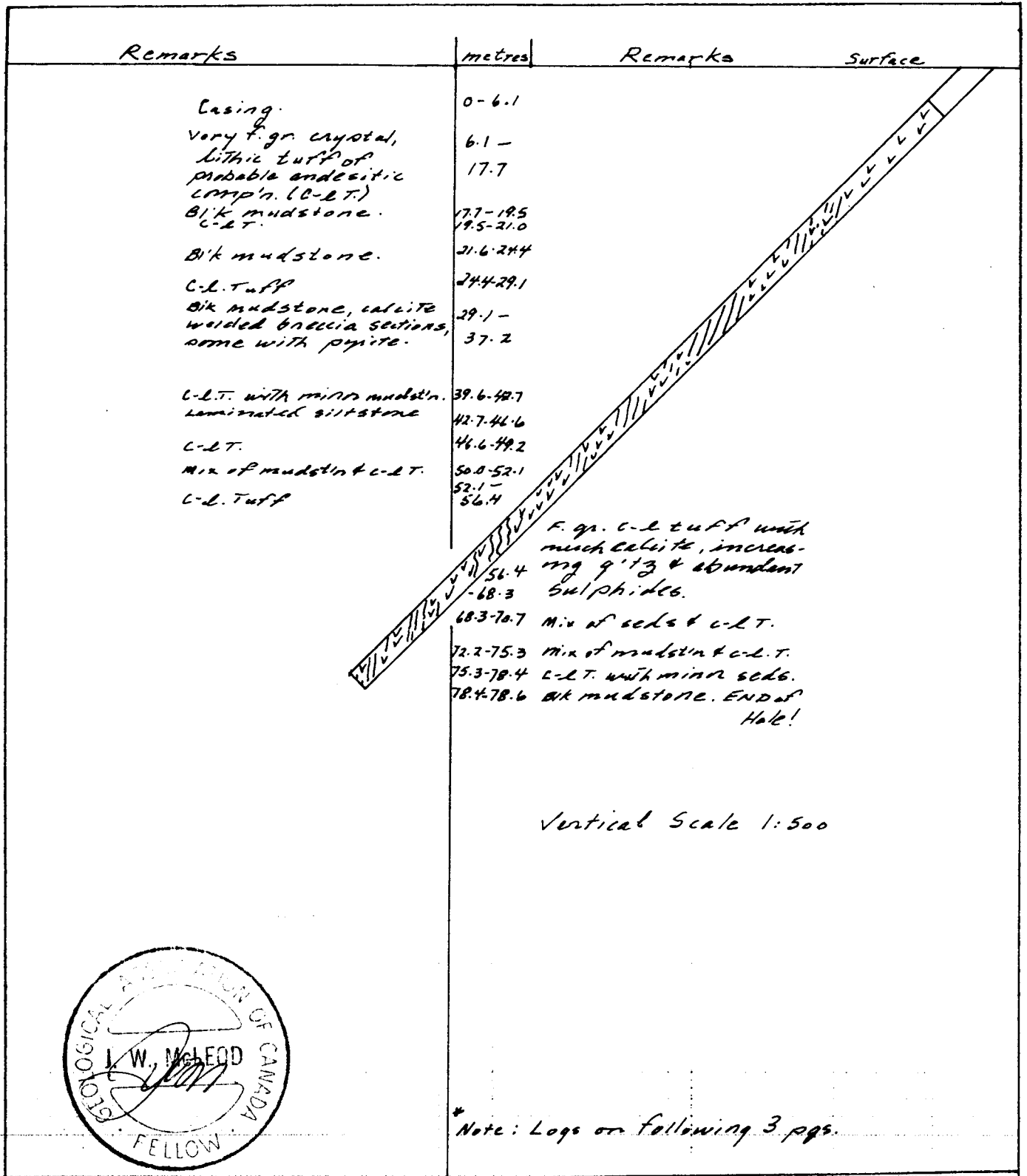
COMPANY: Omega Services

DATE: November 1991

No. of Sa.: 0-228' (69.5m.)

Attitude: N14° E-72°

INTERVAL Sample No. feet/m	DESCRIPTION	TYPE of Sa.	Recovery	Notebook Ref.	ALTERATION & MINERALIZATION	Rock TYPE
31.8-32.6	Blk mudstone, Bd 30° to c.a.	RC core	100%	IIb, III		Mst'n
	Some faults cross the Bd and some are parallel to it.					
32.6-33.4	F. gr. qtz c-l. tuff. Fractures 20° and 40° to c.a.	core	100%	IIb, III	Abundant diss. pyrite and some on calcite welded fractures (0.5 to 1mm.) @ 20° & 40° to c.a.	C-l tuff
33.4-36.6	Mix. of Blk mudstone and grey siltstone (or v. f. gr. sandstone)	core	98%	IIb	Pyrite in 2mm-5mm "high"	Mst'n & Sst'n
36.6-40.8	Fine gr. grey c-l. tuff	core	100%	IIIb		C-l tuff
40.8-51.8	Mix of mudst'n & siltst'n with c-l. tuff	core	100%	IIIb	Py in some mudst'n lamina	Mix
51.8-66.5	Mix of mudst'n & siltst'n	core	100%	IIIb		Mix
66.5-69.5	C-l. tuff. Fracts 10° & 60° to c.a.	core	100%	IIIb	Calcite welded 10° & 60° fracts & py. Pyrite is also diss. in tuff.	C-l tuff
EOH						



\* Note: Logs on following 3 pgs.

- Legend**
- /// - Bedded sediments, mudstone, siltstone, sandstone, etc.
  - yy - Volcanics which are most often interlayered with the sediments
  - yy\ - Mixture of sediments and volcanics, often brecciated.
  - }} - Dominant (welded?) fracture direction.

HAIDA-CATSPA W PROPERTY  
Skeena M.D.B.C.      Map 104B/BE

DDH 91-2 CROSS SECTION  
N060/-45°

Figure 5

JWM/91

# SAMPLE RECORD SHEET

## DRILL CORE LOG

Page 1

SAMPLER: J. M. LEOD

MAP SHEET: 104B/BE.

PROPERTY: NAIDA-CATSPAW

PROJECT: DDH 91-2

AREA: 'C' ZONE ON CATSPAW

COMPANY: OMEGA SERVICES

DATE: NOVEMBER 1991

No. of Sa.: 0-258' (78.6 m.)

Attitudes: N060 / -45°

INTERVAL Sample No. Metres	DESCRIPTION	TYPE of Sa.	Recovery	Notebook Ref.	ALTERATION & MINERALIZATION	Rock TYPE
0-6.1	Casing			IIIb		
6.1-17.7	V.f. gn. (<1mm) l. green crystal, lithic andesitic? buff. Low chl. Two fract. dir. 7° & 45° to core axis (c.a.) 45° fract's are 1-7mm wide, welded with calcite, many have inner py & chl. on walls. 7° fract are often Fe-oxide stained.	AQ core	95%	IIIb, IV	Relatively unaltered - low chlorite but inner or fract. well and many have pyrite (py). Py appears mainly fract. controlled.	C-LT
17.7-19.5	Black mudstone	core	100%	V		Mst'n
19.5-21.0	C-L buff, fract's 45° to c.a. <sup>Vertical shear</sup>	core	100%	IV, V	Abund. py on calcite welded fract's	C-LT
21.0-21.3	Blk mst'n with rounded part. c/LT And. parts. @ 45° to c-a & are twice as long as wide i.e. 2cm x 1cm.	core	100%	V		Mst'n
21.3-21.6	C-LT, less altered	core	100%	V	Less calc. welded fract's & py.	C-LT
21.6-24.4	Mst'n - Bd 10° to // to c.a.	core	100%	V, VI	Less calc. welded fract's and py	Mst'n
24.4-29.1	C-LT.	core	100%	V, VI	45° calc. welds to c.a. From 23.5m	C-LT
29.1-37.2	Mst'n with several 0.5 cm seams of cal and buff, mix of light and dark laminae which is freq. brecciated. Fract's now 30° to c.a.	core	100%	V, VI	to 24.0m. abund. py. Fract. controlled, py abundant.	Mst'n

# SAMPLE RECORD SHEET

## DRILL CORE LOG

Page 2

SAMPLER: J McLEOD

MAP SHEET: 104 B18E

PROPERTY: NAIDA-CATSPAW

PROJECT: DDH 91-2

AREA: C zone on Catspaw

COMPANY: Omega Services

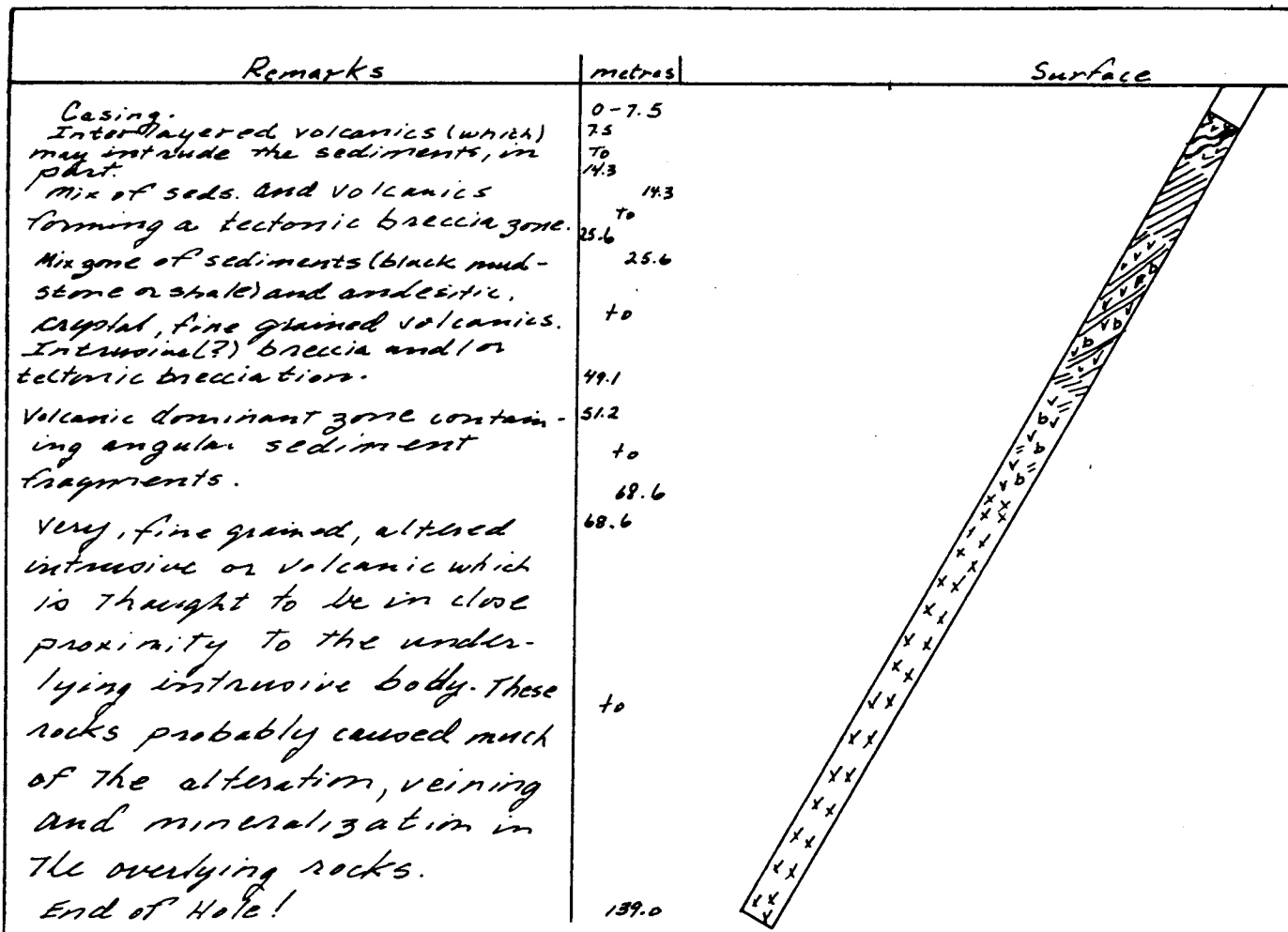
DATE: November 1991

No. of Ss.: 0-258' (78.6m)

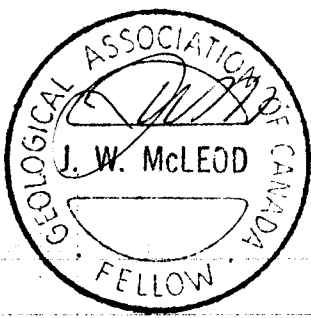
Attitude: N060° / -45°

INTERVAL Sample No. Metals	DESCRIPTION	TYPE of Sa.	Recovery	Notebook Ref.	ALTERATION & MINERALIZATION	Rock TYPE
37.2-38.4	L. grey f. gr. silt which is coarser than mudstone, contact with blk mudstone in 15° to c.a. (down).	core	100%	V, VI		Sst'n
38.4-39.6	Grey v. f. gr. laminated, Bd 15° to c.a.	core	100%	VII		C-LT.
39.6-42.7	DK. gr. silt to blk mudstone	core	100%	VII, VIII	10 cm. of blk 1mm crystals, H > 5/2, sub-concoid fracture with calcite, Mn-oxid.?	Mst'n
42.7-46.6	Grey siltstone, laminations (Bd) 15°-20° to c.a. Calcite welded fract's (1 or 5 mm) every 2-5 cm @ 30° to c.a.	core	100%	VII, VIII	Calcite fract. - weld. abund.	Sst'n
46.6-48.2	F. gr. c-l tuff	core	100%	VII	Py & calcite on 30° to c.a. fract's.	C-LT.
49.2-50.0	Coarser grained, parts in finer grained matrix, sandstone or congl.	core	100%	IX	Some diss py and more on 30° fract's.	SS.
50.0-52.1	Mix of sed. & volc.	core	100%	IX		Mix
52.1-56.1	F. gr. grey c-l tuff	core	100%	IX		C-LT.
56.1-56.4	V. f. gr. sandstone or congl.	core	100%	IX		S.S.
56.4-68.3	F. gr. c-l tuff, abund. calc.	core	100%	IX	Inc. in qtz veins, abund. calcite and sulphides, pyrite arsenopyrite.	C-LT.





Vertical Scale 1:1,000



\* Note: Logs on following 2 pg's.

- Legend**
- /// - Marine sediments, exhibiting lamina-tions or Bd, often with grain-size variation.
  - v - Crystal (andesitic?) volcanic.
  - v(x) - Mix of seds. & vols. (b) brecciated.
  - x x - Fine grained intrusive.
  - ~ - Dominant fracture and/or shear direction.

HAIDA - CATSPA W PROPERTY  
Skeena M.D.B.C. Map 104B/8E

DDH 91-3 CROSS SECTION  
N020°/-60°

Figure 6

JWM/91

# SAMPLE RECORD SHEET

## DRILL CORE LOG

Page 1

SAMPLER: J. McLEOD

MAP SHEET: 104 B/8E

PROPERTY: HAIDA-CATSPAW

PROJECT: DDH 91-3

AREA: HAIDA - Premier Zone

COMPANY: Omega Services

DATE: November 1991

No. of Sa.: 0-456' (139.0m)

Attitude: N020°/-60°

INTERVAL Sample No. Meters	DESCRIPTION	TYPE of Sa.	Recovery	Notebook Ref.	ALTERATION & MINERALIZATION	Rock TYPE
0-7.5	Casing			XI		
7.5-7.9	Crystal tuff - l. gr. & f. gr. to aphanitic with foliat'n? @ 40° to c.a. At begin of section pebbly and @ end of sect'n (7.9m) aster. m'stn.	AQ core	90%	XI, XII	Calcite, sericite, q'tz with pyrite (py) & pyroxenite (po) Pe is magnetic. Brecciat'n @ 7.9 m.	Tuff (Andesite)
7.9-9.6	Tuff (Andesite) - Mudstone mix	Core	95%	XI	Py with calcite and minor q'tz on 40-45 fractures	Mix
9.6-10.4	Mix of volcanics - mudstone on 40° & 60° q'tz welded and minor calcite welded fractures	Core	100%	XI, XII	abund. q'tz welding, some calcite with py, galena (ga) and dark sphalerite.	Mix
10.4-14.0	Mainly volcanic breccia with v. minor mudstone fragments	Core	100%	XIII	Py & po + v. minor chalc - pyrite (cpy) welded with calcite on fract's.	Volc.
14.0-14.3	Contact with mudstone.	Core	100%	XIII	Q'tz and calcite fract-welds with py, pe, sphal. & arsen.	Mix
14.3-25.6	Blk mudstone - Bd varies from 5'- 30' to c.a. Sediments vary from mudstone to siltstone.	Core	95%+	XIII, XIV	Q'tz - calcite stringers with py and some po on veinlet walls.	Seds.
25.6-44.1	Aphanitic to v. f. gr. dk. green to blk. volcanics. Minor volc- sed. mix in breccia zones.	Core	100%	XIV, XV	Q'tz - calcite welding with py, po, sphal. and ga.	Mix (Breccia)





APPENDIX II

ANALYSES



MAIN OFFICE  
1630 PANDORA STREET  
VANCOUVER, B.C.  
V5L 1L6  
TEL (604) 251-5656  
FAX (604) 254-5717

BRANCH OFFICES  
BATHURST, N.B.  
RENO, NEVADA, U.S.A.

**ASSAY ANALYTICAL REPORT**  
=====

CLIENT: OMEGA SERVICES  
ADDRESS: 5303 River Road  
: Delta, BC  
: V4K 1S8

DATE: SEP 04 1991

REPORT#: 910211 AA  
JOB#: 910211

PROJECT#: H-C  
SAMPLES ARRIVED: AUG 30 1991  
REPORT COMPLETED: SEP 04 1991  
ANALYSED FOR: Ag Au

INVOICE#: 910211 NA  
TOTAL SAMPLES: 32  
REJECTS/PULPS: 90 DAYS/1 YR  
SAMPLE TYPE: 32 CORE

SAMPLES FROM: MR. JIM McLEOD  
COPY SENT TO: OMEGA SERVICES

PREPARED FOR: MR. JIM McLEOD

ANALYSED BY: Raymond Chan

SIGNED: \_\_\_\_\_

Registered Provincial Assayer

GENERAL REMARK: None



# VGC VANGEOCHEM LAB LIMITED

**MAIN OFFICE**  
 1630 PANDORA STREET  
 VANCOUVER, B.C.  
 V5L 1L6  
 TEL (604) 251-5656  
 FAX (604) 254-5717

**BRANCH OFFICES**  
 BATHURST, N.B.  
 RENO, NEVADA, U.S.A.

REPORT NUMBER: 910211 AA

JOB NUMBER: 910211

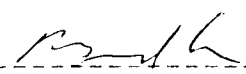
OMEGA SERVICES

PAGE 2 OF 2

SAMPLE #	Ag oz/st	Au oz/st	DDH 91-2	
			Intersection (metres)	Interval (metres)
6872	0.32	< 0.005	70.43 - 71.95	1.52
6873	1.86	0.034	73.78 - 74.39	0.61
107190	0.15	0.010	6.10 - 6.71	0.61
107191	0.09	< 0.005	9.45 - 10.06	0.61
107192	0.09	0.006	10.06 - 10.36	0.30
107193	0.12	0.014	10.67 - 11.28	0.61
107194	3.60	0.052	15.24 - 16.16	0.91
107195	0.13	< 0.005	16.16 - 17.07	0.91
107196	0.09	< 0.005	20.27 - 20.42	0.16
107197	0.15	< 0.005	23.32 - 23.47	0.16
107199	0.07	< 0.005	46.65 - 46.95	0.30
107200	0.06	< 0.005	49.08 - 49.99	0.91

DETECTION LIMIT: 0.01 0.005  
 1 Troy oz/short ton = 34.28 ppm 1 ppm = 0.0001 % ppm = parts per million < = less than

signed: \_\_\_\_\_





MAIN OFFICE  
1630 PANDORA STREET  
VANCOUVER, B.C.  
V5L 1L6  
TEL (604) 251-5656  
FAX (604) 254-5717

BRANCH OFFICES  
BATHURST, N.B.  
RENO, NEVADA, U.S.A.

**ASSAY ANALYTICAL REPORT**  
=====

CLIENT: OMEGA SERVICES  
ADDRESS: 5303 River Road  
: Delta, BC  
: V4K 1S8

DATE: SEP 04 1991

REPORT#: 910212 AA  
JOB#: 910212

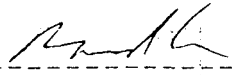
PROJECT#: H-C  
SAMPLES ARRIVED: AUG 30 1991  
REPORT COMPLETED: SEP 04 1991  
ANALYSED FOR: Ag Au

INVOICE#: 910212 NA  
TOTAL SAMPLES: 3  
REJECTS/PULPS: 90 DAYS/1 YR  
SAMPLE TYPE: 3 CORE

SAMPLES FROM: MR. JIM McLEOD  
COPY SENT TO: OMEGA SERVICES

PREPARED FOR: MR. JIM McLEOD

ANALYSED BY: Raymond Chan

SIGNED:   
-----  
Registered Provincial Assayer

GENERAL REMARK: None

# VGC VANGEOCHEM LAB LIMITED

MAIN OFFICE  
1630 PAINDORA STREET  
VANCOUVER, B.C.  
V5L 1L6  
TEL (604) 251-5656  
FAX (604) 254-5717

BRANCH OFFICES  
BATHURST, N.B.  
RENO, NEVADA, U.S.A.

REPORT NUMBER: 910212 AA

JOB NUMBER: 910212

OMEGA SERVICES

PAGE 1 OF 1

SAMPLE #	Ag oz/st	Au oz/st	DDH 91-2	
			Intersection (metres)	Interval (metres)
6854	0.09	0.008	57.62 - 58.23	0.61
6874	0.10	0.010	78.05 - 78.66	0.61
107198	1.15	0.012	39.63 - 39.93	0.30

DETECTION LIMIT

0.01

0.005

1 Troy oz/short ton = 34.28 ppm

1 ppm = 0.0001 %

ppm = parts per million

< = less than

signed: \_\_\_\_\_



**VANGEOCHEM AB LIMITED**

1630 Pandora Street, Vancouver, B.C. V5L 1L6  
Ph: (604)251-5656 Fax: (604)254-5717

**ICAP GEOCHEMICAL ANALYSIS**

A .5 gram sample is digested with 5 ml of 3:1:2 HCL to HNO<sub>3</sub> to H<sub>2</sub>O at 95 °C for 90 minutes and is diluted to 10 ml with water.  
This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *[Signature]*

REPORT #: 910212 PA

OMEGA SERVICES

PROJECT: H - C

DATE IN: AUG 30 1991

DATE OUT: SEPT 05 1991

ATTENTION: MR. JIM McLEOD

PAGE 1 OF 1

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn		
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
354	3.5	1.79	>2000	124	<3	2.83	<0.1	22	40	44	5.67	<0.01	0.21	1008	<1	<0.01	119	0.02	20	103	<2	90	<5	<3	107		
374	4.2	1.29	>2000	112	<3	1.37	<0.1	17	98	138	4.83	<0.01	0.13	670	<1	<0.01	87	0.02	27	68	<2	70	<5	<3	88		
07198	0.8	3.30	52	251	15	5.13	<0.1	24	108	91	5.60	<0.01	0.44	1347	<1	<0.01	192	0.02	<2	<2	<2	265	<5	<3	127		
Minimum Detection	0.1	0.01	3	1	3	0.01	0.1	1	1	1	0.01	0.01	0.01	1	1	0.01	1	0.01	2	2	2	1	5	3	1		
Maximum Detection	50.0	10.00	2000	1000	1000	10.00	1000.0	20000	1000	20000	10.00	10.00	10.00	20000	1000	10.00	20000	10.00	20000	2000	1000	10000	100	1000	20000		
< - Less Than Minimum    > - Greater Than Maximum    ns - Insufficient Sample    ns - No Sample    ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.																											

DDH 91-

58 m.

78 m.

39.8





MAIN OFFICE  
1630 PANDORA STREET  
VANCOUVER, B.C.  
V5L 1L6  
TEL (604) 251-5656  
FAX (604) 254-5717

BRANCH OFFICES  
BATHURST, N.B.  
RENO, NEVADA, U.S.A.

**ASSAY ANALYTICAL REPORT**  
=====

**CLIENT: OMEGA SERVICES**  
**ADDRESS: 5303 River Road**  
: Delta, BC  
: V4K 1S8

**DATE: OCT 02 1991**

**REPORT#: 910244 AA**  
**JOB#: 910244**

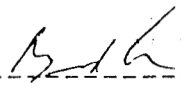
**PROJECT#: H-C**  
**SAMPLES ARRIVED: SEPT 30 1991**  
**REPORT COMPLETED: OCT 02 1991**  
**ANALYSED FOR: Ag Au**

**INVOICE#: 910244 NA**  
**TOTAL SAMPLES: 6**  
**REJECTS/PULPS: 90 DAYS/1 YR**  
**SAMPLE TYPE: 6 CORE**

**SAMPLES FROM: MR. JIM MCLEOD**  
**COPY SENT TO: OMEGA SERVICES**

**PREPARED FOR: MR. JIM MCLEOD**

**ANALYSED BY: Raymond Chan**

**SIGNED:**   
-----  
**Registered Provincial Assayer**

**GENERAL REMARK: None**

# VGC VANGEOCHEM LAB LIMITED

MAIN OFFICE  
1630 PANDORA STREET  
VANCOUVER, B.C.  
V5L 1L6  
TEL (604) 251-5656  
FAX (604) 254-5717

BRANCH OFFICES  
BATHURST, N.B.  
RENO, NEVADA, U.S.A.

REPORT NUMBER: 910244-AA

JOB NUMBER: 910244

OMEGA SERVICES

PAGE 1 OF 1

SAMPLE #	Ag oz/st	Au oz/st	DDH 91-3	
			Intersection (metres)	Interval (metres)
6875	0.05	< 0.005	33.54	Grab
11201	0.05	< 0.005	44.21	Grab
11202	0.09	0.010	50.30	Grab
11203	0.05	< 0.005	57.62	Grab
11204	0.11	0.008	66.16	Grab
11205	0.04	< 0.005	138.41	Grab

DETECTION LIMIT

0.01

0.005

1 Troy oz/short ton = 34.28 ppm

1 ppm = 0.0001 %

ppm = parts per million

< = less than

signed: \_\_\_\_\_

