

84-1018-13338

GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL REPORT

- on the -

EAGLE, MARGARITA AND BUTTERFLY CLAIMS

ATLIN MINING DIVISION, BRITISH COLUMBIA

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

- for -

13,338

HAWTHORNE GOLD CORPORATION

837 EAST CORDOVA STREET

VANCOUVER, B.C. V6A 3R2

COVERING: Eagle Claim (20 units), Margarita (1 claim),
Butterfly (1 claim).

WORK PERFORMED: July and September, 1984.

LOCATION: (1) 20 km. east of Atlin, B.C.
(2) NTS Map No. 104 N/11W
(3) Latitude: 59° 35' North
Longitude: 133° 19' West

prepared by:

KERR, DAWSON AND ASSOCIATES LTD.

206 - 310 Nicola Street

Kamloops, B.C. V2C 2P5

November 16, 1984

W. Gruenwald, B.Sc.

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SUMMARY

- (1) The Eagle claim consisting of twenty metric units (500 hectares) is located on Wright Creek, 22 km. east of Atlin, B. C. The Margarita and Butterfly two post claims are located approximately 800 meters east of the Eagle Claim. The claims are accessible from Atlin and are situated primarily above treeline. Wright Creek has a long history of placer production dating back to the turn of the century.
- (2) Geological mapping indicates that the property is underlain by quartzites and argillites of the upper Paleozoic Cache Creek group. The recently discovered Standard Gold and Claymore gold occurrences are situated approximately ten kilometers southwest of the subject properties. The Standard Gold deposit consists of auriferous quartz veins, veinlets and/or stockworks associated with fault or shear structures near the contact of altered ultrabasic rocks and the Cache Creek rocks. Mineralization on the Claymore property appears to be hosted by argillites and an interpreted rhyolitic dyke unit (?).
- (3) A significant amount of the placer gold from Wright Creek within the Eagle claim is coarse, angular and contains abundant quartz. Such gold does not withstand much alluvial weathering and thus likely emanates from as yet undiscovered high grade quartz veins within the Eagle claim.
- (4) Geological mapping along with geophysical and geochemical surveys have outlined a number of anomalous zones, the most interesting of which is a north-northeasterly trending shear zone containing in one area a 0.8 to 3.7 m. wide quartz vein/silicified zone. Trenching exposed this zone in several areas, however further detailed exploration

is required. Silver values in excess of 2 oz./ton were encountered in an altered dyke paralleling the shear/vein structure.

Scattered, narrow quartz veins on the Margarita - Butterfly claims did not carry any significant precious metal values.

INTRODUCTION

The writer at the request of Hawthorne Gold Corporation completed a two stage exploration programme on the Eagle claim and the Margarita-Butterfly two post claims. The 1984 programme, carried out by the writer, Mr. J. R. Kerr, P.Eng. and an assistant consisted of detailed grid soil sampling, geological mapping, rock chip sampling along with magnetometer and electromagnetic surveys. The second stage carried out exclusively on the Eagle claim consisted of additional grid soil sampling, trenching and trench sampling.

The results of these programmes are described in this report along with the appended maps and geochemical data.



HAWTHORNE GOLD CORP.	
LOCATION MAP	
EAGLE, MARGARITA BUTTERFLY CLAIMS	
ATLIN MINING DIVISION, BRITISH COLUMBIA.	
Technical Work by: Kerr, Dawson & Assoc. Ltd.	Date : Oct. 1984.
Scale : 1cm. = 87 km.	Dwg No. 275-1

LOCATION AND ACCESS

The Eagle claim is situated approximately 22 kilometers east of the community of Atlin, in the northwestern portion of British Columbia. Geographic co-ordinates for the center of the property are 59° 35' north latitude and 133° 19' west longitude on NTS Map No. 104 N/11W. The Margarita - Butterfly claims are situated less than a kilometer east of the Eagle claim boundary.

Access from Atlin is possible along a well maintained gravel road along Pine Creek to the west end of Surprise Lake. From here a rougher, but driveable gravel road heads southeasterly to the upper reaches of Wright Creek. The total driving distance from Atlin is approximately 30 kilometers. Access to the Margarita - Butterfly claims is by foot from the end of the aforementioned road near the eastern boundary of the Eagle claim (see Figure 275-2).

PHYSIOGRAPHY AND VEGETATION

The subject properties are situated in the eastern flank of the Coast Range mountains of northwestern British Columbia. The immediate claim area terrain consists of well rounded mountains with gentle to moderate relief. Idaho Peak (6,168'), the highest point in the claim area is situated approximately two kilometers north of the Eagle claim. The Margarita - Butterfly claims cover a local prominence referred to as Margarita Peak. Topographic relief on the Eagle claim is moderate, ranging from 4,200 feet (1,280 m) in Wright Creek to 5,150 feet (1,570 m) in the eastern corners of the claim. Two creeks, namely Eagle and Wright Creeks transect the property.

Tree line in the area is found at approximately 4,300 feet (1,310 m). Since much of the claims are above this elevation, vegetation is scarce consisting of low buckbrush and alpine ground cover. The Margarita - Butterfly claims are totally devoid of vegetation save for minor alpine grasses and related ground cover. Below tree line stands of spruce and pine are found amongst locally thick underbrush.

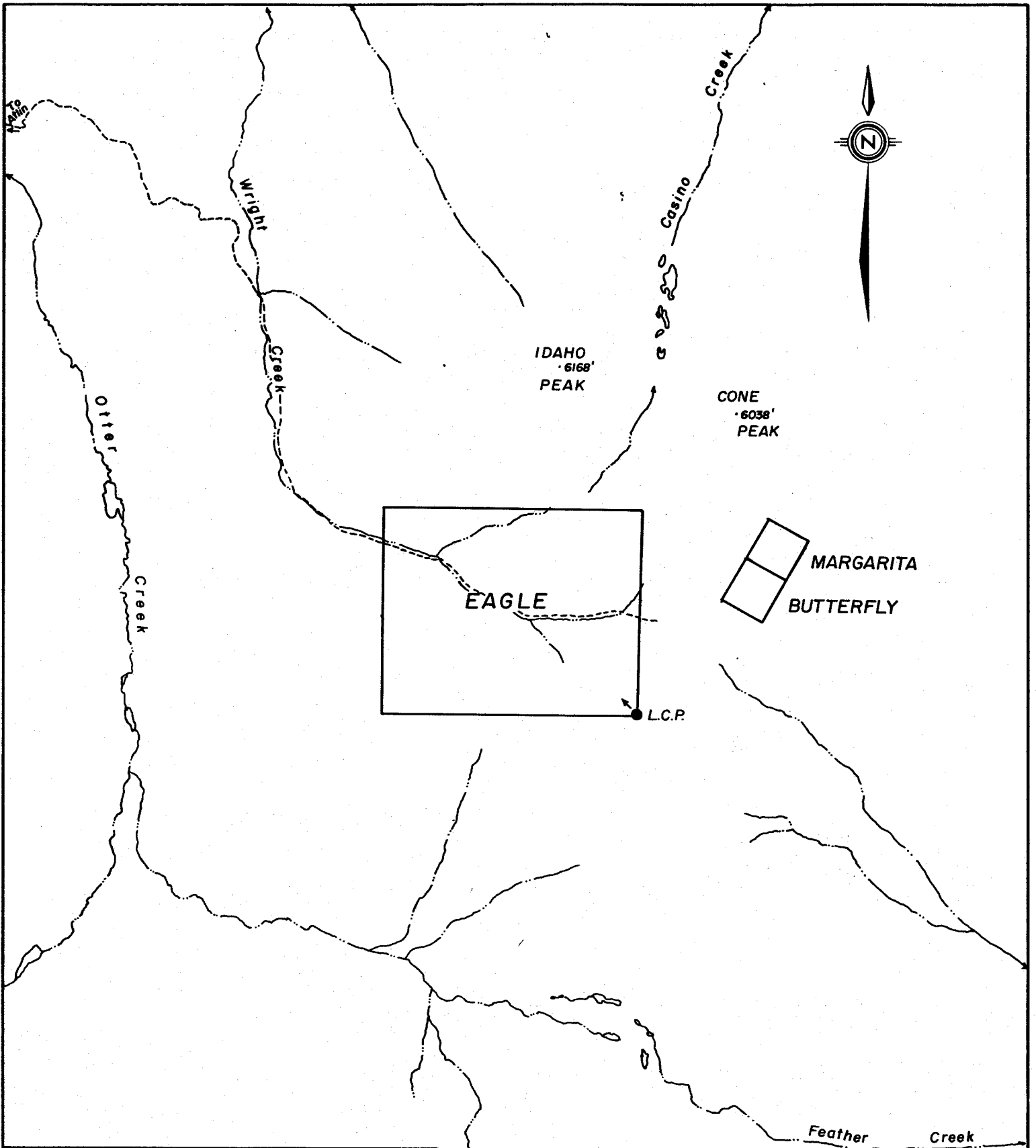
Overburden cover, primarily of glacial origin, is extensive over much of the Eagle claim. The overburden thickness ranges from minimal on the ridgetops and the Margarita - Butterfly claims to 5 - 10 meters on the lower valley slopes. The most recent glacial advance was from the south-southeast which resulted in the scouring and rounding of the hilltops and infilling of the valleys. Post glacial erosion has since exposed bedrock in both Wright and Eagle Creeks as well as having exposed the auiferous paleochannel gravels in Wright Creek.

CLAIMS

The Eagle claim consists of one Modified Grid System claim comprised of twenty units (500 hectares). The Margarita and Butterfly claims are "two post" claims. Details of the claims are as follows:

<u>Claim</u>	<u>Mining Division</u>	<u>No. of Units</u>	<u>Record No.</u>	<u>Expiry Date</u>
Eagle	Atlin	20	1427	August 21, 1986
Margarita	Atlin	1	1344	July 13, 1986
Butterfly	Atlin	1	1343	July 13, 1986

The registered owner of these claims is Mr. John McFarland. At present, these claims are under option to Hawthorne Gold Corporation of Vancouver, B. C.



HAWTHORNE GOLD CORPORATION	
CLAIM MAP	
Eagle, Margarita & Butterfly	
Claims	
ATLIN MINING DIVISION, BRITISH COLUMBIA.	
Technical Work By: Kerr, Dawson and Assoc. Ltd.	Scale: 1:50,000
Drawn By: W. G.	Date: Nov., 1984.
Approved By: J. R. K.	Fig. No. 275-2

To accompany a report by W. Gruenwald, B.Sc.

HISTORY

The Atlin area first received serious attention when placer gold was found on Pine Creek in 1898. The subsequent rush led to the discovery of placer gold on Spruce, Ruby, Birch, Boulder, Otter, McKee, Snake, Dominion and Wright Creeks. Placer mining has continued fairly continuously, though erratically, to the present with the most recent activity (1978 - present) being attributed to the surge in the price of gold. Production figures for the Wright Creek area indicate that in excess of 14,000 oz. of gold were recovered, a figure that is likely quite conservative.

The earliest record of work within the claim area dates back to the late 1890's when the placer miners began working the upper reaches of Wright Creek. Much of the work consisted of "ground sluicing" or "cascading" and appears to have been carried out primarily in and along the south bank of Wright Creek. Reports from the 1930's indicate that the Nord Bros. worked several pits high above the south side of Wright Creek, a short distance upstream of its confluence with Eagle Creek. Coarse angular gold often with quartz was reported from a 30 cm. red-brown loam layer on top of the glacial overburden. Present placer operations carried out by Mr. Andy Diduck have also encountered coarse and very angular gold-quartz nuggets along the south bank of Wright Creek. This strongly suggests the nearby presence of an as yet undiscovered gold bearing vein(s).

With the exception of prospecting and minor hand trenching, no work has been done on the Margarita and Butterfly claims.

GEOLOGY

On a regional scale the geology of the Atlin area is best described in the G.S.C. Memoir #307 by J. D. Aitken and the accompanying 1" = 4 mile map. (#1082A). The area is described as being underlain by a rather complex and thick assemblage of the upper Paleozoic Cache Creek Group. This particular group is subdivided into three distinct rock units:

- (a) Sedimentary rocks consisting of argillite, chert, quartzite, chert-pebble conglomerate and chert breccia.
- (b) Volcanic rocks consisting of greenstone and volcanic greywackes of andesitic origin.
- (c) Limestone, limestone breccia.

Intruding the Cache Creek rocks are numerous irregular bodies of upper Paleozoic ultrabasic rocks known as the Atlin Intrusions. Many of these bodies parallel the strike of the enclosing rocks and a few highly sheared "slivers" lie along faults. In general, the majority of these ultrabasic bodies are altered to masses of quartz-carbonate with variable amounts of greenish nickel-chromium micas.

During the Jurassic period granitic rocks of the Coast Intrusions were emplaced into the Cache Creek Assemblage. The most notable intrusion of this type is the Mt. Carter granodiorite found north of Atlin. It is this rock which hosts the Atlin-Ruffner lead-silver deposit. Following the above intrusive event was the emplacement of the large Surprise Lake Batholith east of Atlin. This body of alaskite/quartz monzonite hosts the Adanac molybdenum deposit, the "skarn type" tungsten occurrences and was the area of intensive uranium exploration in the late 1970's.

The youngest rocks mapped in the Atlin area are the olivine basalt flows and scoria near the headwaters of Volcanic and Ruby Creeks.

Mapping by the G.S.C. indicates the claim area to be underlain by the Cache Creek assemblage, in particular the sedimentary rocks outlined in unit (a) above. Indicated immediately north of the property (~ 2 km.) is an ultrabasic body (Atlin Intrusions) and the contact with the Surprise Lake Batholith.

Since the recent discovery by Standard Gold Ltd. near the head of McKee Creek, exploration activity aimed at locating lode gold sources for the placers in the region has been renewed. This occurrence along with several other known gold occurrences is found as quartz veins, veinlets and/or stockworks associated with structural features such as faults or shear zones within, along or near ultrabasic bodies. The ultrabasics have invariably been altered to a quartz-carbonate rock with minor amounts of nickel-chromium micas. The host rocks for these mineralized systems are the sedimentary/volcanic rocks of the Cache Creek Group. The Standard Gold occurrence has been used to a considerable extent as a geological model for exploration, however a degree of flexibility should be used in evaluating other prospects in the region.

Local Geology:

Detailed mapping of the Eagle claim indicates that the property is underlain by two distinct sedimentary rock types, namely:

- (1) Buff to gray, fine grained, variably schistose quartzite.
- (2) Dark gray, massive to crumbly, locally graphitic argillite.

These rocks, which are often interbedded, are members of the Cache Creek Group (unit a). A small exposure of fine grained, pale green andesitic volcanic rock found near the east central claim boundary is equated with the Cache Creek Group (unit b). The best and most abundant rock exposures are found in the northeast sector of the claim and in Wright/Eagle Creeks. Rock exposures are relatively plentiful on the Margarita - Butterfly claim since these claims cover a local peak and ridge.

Bedding (foliation) attitudes are highly variable, showing no definitely preferred direction. Dips for the most part fall in the range of 20° to 55°. Small scale anticlinal folding was observed to plunge gently to the south.

Faulting or shearing is evident in the Wright Creek area near the center of the Eagle claim. Recent placer mining activity (1984) has exposed a strong northerly trending shear zone and crushed quartz vein material in graphitic argillites. Followup work, namely trenching during the 1984 programme, outlined a distinct north-northeasterly trending quartz vein ranging from 0.8 to 3.7 meters wide in Trench 1 (see Figure 275-3A). This steeply dipping vein locally contained breccia fragments of the surrounding argillites as well as drusy, limonitic cavities. Slickensides on at least one wall of this vein suggests a definite fault/shear association that can likely be traced to the original gouge zone in Wright Creek. A distinct north-northeasterly trending topographic linear found on the south side of Wright Creek is on strike with the initial vein discovery and is interpreted as the southward projection of the shear zone found in Wright Creek. The discovery of a distinct gouge zone in Trench 4 lends support to this hypothesis. In total this fault/shear zone has an interpreted length of over 350 meters from Trench 1 to L-6S (see Figure 275-3A).

Found immediately east of the vein in Trench 1 is a narrow (0.35 m), deep orange weathering, altered dyke containing scattered flecks of an unidentified, green amorphous mineral. This dyke has a strike parallel to the vein/shear zone immediately to the west. Similar looking material was exposed in Trench 3 on the south side of Wright Creek. The vein/shear zone, altered dyke and fault linear have to date only been superficially explored. Further exploration is definitely warranted to test the economic potential.

The Margarita and Butterfly claims though underlain by the same rock units as found on the Eagle claim do not possess structural features or veins of sufficient size to warrant further exploration.

MINERALIZATION

Wright Creek, since the turn of the century has produced a substantial amount of gold, conservatively put at 14,000 ounces. To date, no lode gold source has been discovered.

For the most part the placer gold from Wright Creek is much like that of other creeks in the district, namely well worn, rounded and/or flattened. Above Eagle Creek, however, and within the Eagle claim, a substantial amount of the gold recovered is coarse, angular and contains abundant amounts of quartz. Andy Diduck, the holder of a placer lease within the Eagle claim, has worked his claim for seven years. In that time he has worked from the confluence of Eagle and Wright Creeks to the area of the present trenching, a distance of approximately 750 metres. For a considerable portion of this distance and up to the present workings, Mr. Diduck has consistently recovered a significant amount of angular gold-quartz nuggets from the Wright Creek channel and the gravels on the southern bank. From observations and personal communication with Mr. Diduck, there appears to be two distinct types of gold in this area.

One type of gold is well worn and rounded with little or no quartz. This gold appears to come from the original limonite cemented Tertiary paleochannel gravels, some of which are still found above the present Wright Creek channel. This gold is usually found at or in bedrock, especially the broken argillite. Discoloration and manganese staining of these nuggets is quite common.

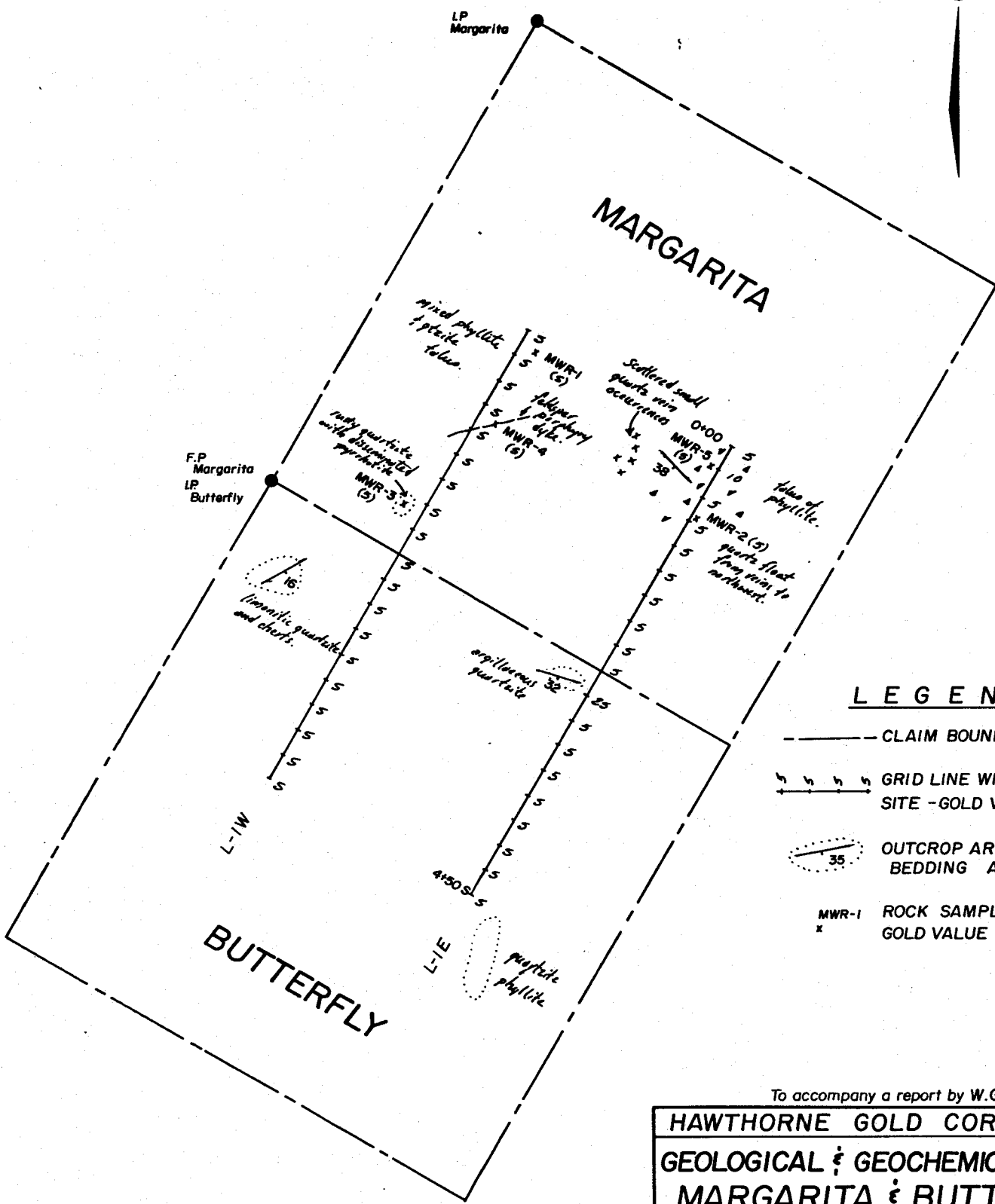
The second type of gold in the placer and the one of most significance to lode gold exploration is that type found with abundant quartz. Usually the quartz is milky white and variably fractured. Reddish, hematitic coloration is fairly common. The gold in these nuggets is found as small grains to irregular semi-massive patches spread through the quartz. Some nuggets observed consisted of thin

sheets of gold that has been folded and rolled into a crude nugget. Some nuggets even displayed cavities with slightly worn quartz crystals. Such nuggets can only be of very local origin since weathering and alluvial action quickly destroys the brittle quartz. Gold-quartz nuggets in excess of 2 - 3 cm. in diameter have been recovered suggesting that the source must be a vein(s) of at least that width.

Work by the Nord Bros. in the 1930's, downstream and on the south side of Wright Creek resulted in the discovery of similar coarse, angular gold in a 30cm red-brown loam layer situated on top of approximately 10 feet of glacial drift. This locality was reportedly 100 metres or so southwest of Wright Creek (see Figure 275-3), an area which is far above any paleochannel gravels which themselves pre-date the Pleistocene glacial epoch.

Silver values of up to 2.23 oz./ton Ag were returned from the altered dyke found parallel to and adjacent to the quartz vein/shear zone. In addition, sampling of the vein/shear zone indicated anomalous levels of silver in one case up to 1.36 oz./ton over 1.4 metres. The low levels of gold encountered in the vein exposed to date were not totally unexpected since the source of the gold in Wright Creek likely emanates from a vein or veins in which exist pockets of erratic high grade material. Gold values in adjacent parts of such a vein could conceivably be of background levels. For these reasons, much more detailed exploration and sampling is warranted.

Pyrite is found throughout the sedimentary sequence in small amounts as fine grains or cubes. Pyrite content seldom exceeds 1% except in some of the argillites and graphitic argillites where fine to locally coarse cubes constitute up to 5% of the rock. The present placer workings, near Trench 1 are underlain by pyritic argillite which contains pyrite cubes up to 0.5 cm. square. Assays of this pyrite recovered in the placer operation indicate gold values of approximately 1 oz. Au per ton of pyrite concentrate.



LEGEND

- CLAIM BOUNDARY
- S S S S GRID LINE WITH SOIL SAMPLE SITE -GOLD VALUE IN PPB.
- (35) OUTCROP AREA WITH BEDDING ATTITUDE.
- MWR-1 X ROCK SAMPLE SITE WITH GOLD VALUE IN PPB.

To accompany a report by W.Gruenwald, B.Sc.

HAWTHORNE GOLD CORPORATION	
GEOLOGICAL & GEOCHEMICAL PLAN	
MARGARITA & BUTTERFLY CLAIMS	
ATLIN MINING DIVISION, BRITISH COLUMBIA.	
Technical Work By: Kerr, Dawson and Assoc. Ltd.	Scale: 1:5,000
Drawn By: W.G.	Date: Nov. 1984.
Approved By: J.R.K.	Fig.No. 275-3

Nuggets of massive, well worn chromite were reported by Mr. Diduck in his placer operations for approximately 500 meters upstream of the confluence of Wright and Eagle creeks. The presence of chromite is suggestive of a possible nearby ultrabasic intrusive.

With the exception of minor pyrrhotite and pyrite in the sediments no mineralization of any significance was found on the Margarita and Butterfly claims.

GEOCHEMISTRY

During July, 1984, a chain and compass grid totalling 22.8 kilometers was established over the Eagle claim. Two detailed lines totalling 0.9 km. were established on the Margarita - Butterfly claim. During the September, 1984 followup programme an additional 2.6 km. of grid lines were established on the Eagle claim. Soil samples were collected primarily at 25 meter intervals except beyond 15+00W where a 50 meter spacing was utilized. Line spacings of 100 meters were used over all of the Eagle claim. All soils were collected from the "B" horizon whenever possible and placed in kraft paper envelopes labelled with the appropriate grid co-ordinates. In the absence of "B" horizon soils, such as on rocky areas of the Margarita - Butterfly area, "talus fines" were collected instead. Rock chip samples and stream sediment samples were also collected (see Figures 275-4, 275-5). In all a total of 889 soil, 15 silt and 69 rock chip samples were collected from the Eagle claim and submitted for analysis. A total of 38 soil and 5 rock samples were collected from the Margarita - Butterfly claims. Collected from various areas in the Eagle claim were a total of 14 large soil samples (\pm 10 kg.) which subsequently were reduced to a small (<30 gm.) sample by panning. These panned concentrates (EPC's) along with the rock, silt and soil samples were shipped to Acme Analytical Laboratories in Vancouver for analysis. The September, 1984 trench soil and rock samples were submitted to Bondar Clegg's office in Whitehorse for gold and silver analysis.

After having been dried, the soil and silt samples were sieved to obtain a -80 mesh fraction. Rock chip samples were pulverized to the appropriate mesh size. Panned concentrates were fire assayed and analyzed by Atomic Absorption. Sample analyses were as follows:

<u>Element</u>	<u>Digestion</u>	<u>Determination</u>
Gold	A 10 gm. sample is ignited and leached by hot aqua regia. Extraction by MIBK.	Atomic Absorption
Silver	A 0.5 gm. sample is digested in hot nitric and hydrochloric acid for 1 hour and then diluted to 10 ml. with water.	Atomic Absorption

The results for gold are expressed in parts per billion (ppb) and in parts per million (ppm) for silver. The detection limits for gold and silver are 5 ppb and 0.2 ppm respectively. Sample results are plotted on base maps at a scale of 1:5,000 (1 cm = 50 m). The Phase II trench soils and rock chip results (Sept. 1984) could not be completely plotted due to lack of space on the base map however they are appended and labelled in Appendix A.

Since relatively few samples were above background values (gold) a statistical analysis was not carried out. Therefore, for the purposes of this report, values equal to or greater than 10 ppb gold are considered anomalous. On this basis the following observations were made:

Gold Geochemistry (Figures 275-3, 275-4)

- range in gold values from 5 ppb to 90 ppb in soils.
- rock chip samples returned background values.
- anomalous soil values were found scattered over much of the grid with a weak clustering toward the northeast sector of the Eagle claim and around the head of Eagle Creek.
- anomalous gold in soils found in trenches 2, 4, 5 and 6 with the best values (up to 90 ppb) coming from trenches 2 and 4, both of which are on the vein/shear structure.

- most panned concentrates (EPC's) were of background levels with the exception of EPC-2 and 11, both of which were 10 ppb gold.
- panned concentrates EPC-12 to EPC-14 were subjected to fire assay methods and returned values of 150, 105 and 275 ppb respectively.
- these samples though appearing highly anomalous are in line with the analytical method since all gold whether free or in sulphides is detected.
- these last three EPC's nonetheless indicate that gold is present in amount sufficient to be concentrated by gravity methods and therefore are valid.
- with the exception of a 10 and 25 ppb soil values, no anomalous values were indicated in either soil or rock for the Margarita-Butterfly claims.

Analysis for silver was carried out in the second phase (Sept. 1984) consisting of trench soils and rock chips. Analysis for this phase was carried out by Bondar Clegg Co. Ltd. Values in soils were found to range from 0.2 ppm to 0.9 ppm Ag with the highest value being found in Trench 2. Rock chip values ranged from 0.02 to 2.12 oz./ton Ag with the highest values being returned from the Trench 1 vein and parallel altered dyke (Sample ETR-25). Check analyses by Acme Analytical on the vein and dyke samples indicated very similar values ranging up to 2.23 oz/ton Ag for ETR-25 (dyke).

A series of soil samples collected from L-16N, 13N and 10N were analyzed for copper, lead, zinc, silver, arsenic and antimony to determine whether any of these elements could be useful as "trace" elements in the search for gold mineralization. The results (Appendix A) revealed no significant or elevated values for any of these metals leaving one to conclude that direct analysis for gold is still the best geochemical tool.

GEOPHYSICS

During the July, 1984 programme, magnetometer readings and VLF-EM readings were taken along the established soil sampling grid. The magnetometer survey was carried out using a Geometrics (Model G-836) Proton Magnetometer. This instrument measures total magnetic field and has an accuracy of ± 10 gammas. Magnetometer readings were taken at established base stations to monitor diurnal variations in the magnetic field. All magnetic values were then plotted on a base map at a scale of 1:5,000 (1 cm = 50 m). The values were contoured using a 50 gamma contour interval (see Figure 275-5).

Carried out concurrently with the magnetometer survey was an electromagnetic survey utilizing a Sabre Electronics (Model 27) VLF-EM unit. Readings of both the dip angle and field strength were taken using the Seattle, Washington channel (24.8 kHz). The dip angle readings, measured in degrees, were recorded and subsequently subjected to the "Fraser" filter method. This method involves the use of a simple arithmetic calculation namely: $(a+b) - (c+d)$. The procedure when applied to the field data results in data that can be more readily defined by contouring or by the use of symbols as in the case of Figure 275-6. All field data is plotted on a base map at a scale of 1:5,000 (1 cm = 50 m) however, only "Fraser" values $>0^{\circ}$ were plotted. In utilizing this method only the positive (+) values are of use and are indicated by symbols for various intensities. The higher positive values are often indicative of conductive zones such as faults/shears, sulphide mineralization or graphite. An example of the use of the "Fraser filter" method on field data is given as follows:

<u>Line</u>	<u>Station</u>	<u>Dip Angle</u>
8N	OE	+12 (a)
	0 + 25E	+16 (b) $(a+b) - (c+d)=$
	0 + 50E	+2 (c) $(+12+16) - (+2+[-4])=$
	0 + 75E	-4 (d) $(28) - (-2)= +30$

The derived value (+30) is plotted at a point midway between 0+25E and 0+50E, namely 0+37.5E.

The magnetic data (Figure 275-5) indicates a low magnetic relief (< 700 gammas) over the Eagle claim. The vast majority of the readings fall in the 57,850 to 57,950 gamma range with scattered "highs" and "lows" being indicated. The most obvious anomaly, located near the eastern boundary of the Eagle claim is associated with andesitic volcanics that were observed to contain disseminated crystals of euhedral magnetite. There appears to be little correlation between the magnetic values and the geochemical pattern on the Eagle claim. This low magnetic relief is not unlike that encountered in the Standard/Claymore area, and is probably characteristic for the rock types in the region.

The VLF-EM survey was by far the most useful geophysical tool having delineated a number of relatively strong conductors. As seen on Figure 275-6, most conductors trend roughly north-south. Fraser filtered values in excess of $+30^{\circ}$ were indicated in several areas, all of which are in close proximity to Wright Creek. The numerous low to medium level conductors found in the north and northeast portions of the claim are likely related to graphitic and/or pyritic horizons in the argillites and quartzites. None of these conductors have coincident geochemical anomalies and only a few show any magnetic response. For these reasons most of these conductors are of low exploration potential. Two moderate to strong EM conductors on the eastern portion of L-10N to 12N warrant some extra detailed sampling and prospecting.

Some of the strongest conductors are situated in the area of the recent trenching and at least one can be correlated with the shear/vein zone. Future exploration of this zone and immediate area are definitely recommended.

CONCLUSIONS AND RECOMMENDATIONS

The Eagle claim covers a producing gold placer deposit on the upper reaches of Eagle Creek. Much of the placer gold recovered from this area is coarse, angular and contains abundant quartz. Gold of this nature is indicative of a very short transportation distance. The source of this gold appears to be on the south side of Wright Creek and definitely within the Eagle claim.

The newly discovered north-northeasterly trending shear/vein zone, strong electromagnetic conductors and geochemical anomalies present viable models for hosting vein type gold mineralization. A potential for silver mineralization associated with this zone is also indicated. Additional exploration potential exists to the west of this zone along the south side of Wright Creek. The following exploration programme is therefore recommended.

PHASE I

- (1) Detailed sampling and prospecting of the electromagnetic conductors on the eastern portion of L-10N to L-12N.
- (2) Detailed trenching and sampling of the vein/shear zone.
- (3) Detailed mapping and sampling along the south bank of Wright Creek.
- (4) Diamond drilling.

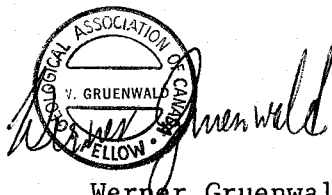
PHASE II

Contingent on the results of Phase I, continued diamond drilling and bulk sampling (underground) are recommended.

No further work, at this time, is recommended on the Margarita-Butterfly claims.

respectfully submitted,

KERR, DAWSON AND ASSOCIATES LTD.



Werner Gruenwald, B.Sc.

GEOLOGIST

KAMLOOPS, B. C.

November 16, 1984.

APPENDIX A

GEOCHEMICAL RESULTS

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: (604) 253-3158 COMPUTER LINE: 251-1011

DATE RECEIVED JULY 28 1984

DATE REPORTS MAILED *Aug 1/84*

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE TYPE : P1-22 SOIL P23-SILT P24-PAN CONC P25-26 ROCK
AU# - 10 GM, IGNITED, HOT AQUA REGIA LEACHED, MIBK EXTRACTION, AA ANALYSIS.

ASSAYER *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

KERR DAWSON PROJECT# 275 FILE# 84-1822

PAGE# 1

SAMPLE	AU# PFB
E 20N 20+00W	5
E 20N 19+50W	5
E 20N 19+00W	5
E 20N 18+50W	5
E 20N 18+00W	5
E 20N 17+50W	5
E 20N 17+00W	5
E 20N 16+50W	5
E 20N 16+00W	5
E 20N 15+50W	5
E 20N 15+00W	5
E 20N 14+75W	5
E 20N 14+50W	5
E 20N 14+00W	5
E 20N 13+75W	5
E 20N 13+50W	5
E 20N 13+25W	5
E 20N 13+00W	5
E 20N 12+75W	5
E 20N 12+50W	5
E 20N 12+25W	5
E 20N 12+00W	5
E 20N 11+75W	5
E 20N 11+50W	5
E 20N 11+25W	5
E 20N 11+00W	5
E 20N 10+75W	5
E 20N 10+50W	5
E 20N 10+25W	5
E 20N 10+00W	5
E 20N 9+75W	45
E 20N 9+50W	5
E 20N 9+25W	5
E 20N 9+00W	5
E 20N 8+75W	5
E 20N 8+50W	5
E 20N 8+25W	5

SAMPLE	AUX PPB
E 20N 8+00W	5
E 20N 7+75W	15
E 20N 7+50W	5
E 20N 7+25W	5
E 20N 7+00W	5
E 20N 6+75W	5
E 20N 6+50W	5
E 20N 6+25W	5
E 20N 4+00W	5
E 20N 3+75W	5
E 20N 3+50W	5
E 20N 3+25W	5
E 20N 3+00W	5
E 20N 2+75W	5
E 20N 2+50W	5
E 20N 2+25W	5
E 20N 2+00W	5
E 20N 1+75W	5
E 20N 1+50W	5
E 20N 1+25W	5
E 20N 0+75W	5
E 20N 0+50W	5
E 20N 0+25W	5
E 19N 14+50W	5
E 19N 14+25W	5
E 19N 14+00W	5
E 19N 13+75W	5
E 19N 13+50W	5
E 19N 13+00W	5
E 19N 12+75W	5
E 19N 12+50W	5
E 19N 12+25W	5
E 19N 12+00W	5
E 19N 11+75W	5
E 19N 11+50W	5
E 19N 11+25W	5
E 19N 11+00W	5

SAMPLE	AUX FPB
E 19N 10+75W	5
E 19N 10+50W	5
E 19N 10+25W	5
E 19N 10+00W	5
E 19N 9+75W	5
E 19N 9+50W	5
E 19N 9+25W	5
E 19N 8+75W	5
E 19N 8+50W	5
E 19N 8+25W	15
E 19N 8+00W	5
E 19N 7+75W	5
E 19N 7+50W	5
E 19N 7+25W	5
E 19N 4+75W	5
E 19N 4+50W	5
E 19N 4+25W	5
E 19N 4+00W	5
E 19N 3+75W	5
E 19N 3+50W	5
E 19N 3+25W	5
E 19N 2+75W	5
E 19N 2+50W	5
E 19N 2+25W	5
E 19N 1+75W	5
E 19N 1+50W	5
E 19N 1+25W	5
E 19N 1+00W	5
E 19N 0+75W	5
E 19N 0+50W	5
E 19N 0+25W	5
E 18N 20+00W	5
E 18N 19+50W	5
E 18N 19+00W	5
E 18N 18+50W	5
E 18N 18+00W	5
E 18N 17+50W	5

SAMPLE	AUX PPB
E 18N 17+00W	5
E 18N 16+50W	5
E 18N 16+00W	5
E 18N 15+50W	5
E 18N 15+00W	5
E 18N 14+75W	5
E 18N 14+50W	5
E 18N 14+25W	5
E 18N 14+00W	5
E 18N 13+75W	5
E 18N 13+50W	5
E 18N 13+00W	10
E 18N 12+75W	5
E 18N 12+50W	5
E 18N 12+25W	5
E 18N 12+00W	15
E 18N 11+75W	5
E 18N 11+50W	5
E 18N 11+25W	5
E 18N 11+00W	5
E 18N 10+75W	5
E 18N 10+25W	5
E 18N 9+50W	5
E 18N 8+75W	5
E 18N 6+25W	5
E 18N 6+00W	5
E 18N 5+75W	5
E 18N 5+50W	5
E 18N 5+25W	5
E 18N 5+00W	5
E 18N 4+75W	5
E 18N 4+50W	5
E 18N 4+25W	5
E 18N 4+00W	5
E 18N 3+75W	5
E 18N 3+50W	5
E 18N 3+25W	5

SAMPLE	AU* FPB
E 18N 3+00W	5
E 18N 2+50W	5
E 18N 2+25W	15
E 18N 2+00W	5
E 18N 1+75W	10
E 18N 1+50W	5
E 18N 1+25W	5
E 18N 1+00W	5
E 18N 0+75W	5
E 18N 0+50W	5
E 18N 0+25W	15
E 17N 15+00W	5
E 17N 14+75W	5
E 17N 14+50W	5
E 17N 14+25W	10
E 17N 14+00W	5
E 17N 13+75W	5
E 17N 13+50W	5
E 17N 13+25W	5
E 17N 13+00W	5
E 17N 12+25W	5
E 17N 12+00W	5
E 17N 11+75W	5
E 17N 11+50W	5
E 17N 11+25W	10
E 17N 10+75W	5
E 17N 9+50W	5
E 17N 9+25W	5
E 17N 9+00W	5
E 17N 8+75W	5
E 17N 8+50W	5
E 17N 8+25W	5
E 17N 8+00W	5
E 17N 7+75W	5
E 17N 7+50W	5
E 17N 7+25W	10
E 17N 7+00W	5

SAMPLE	AU* FPB
E 17N 6+75W	5
E 17N 6+50W	5
E 17N 6+25W	5
E 17N 6+00W	5
E 17N 5+75W	10
E 17N 5+50W	5
E 17N 5+25W	5
E 17N 5+00W	5
E 17N 4+75W	5
E 17N 4+50W	5
E 17N 4+25W	5
E 17N 4+00W	5
E 17N 3+75W	5
E 17N 3+50W	5
E 17N 3+25W	5
E 17N 3+00W	5
E 17N 2+75W	5
E 17N 2+50W	5
E 17N 2+25W	5
E 17N 2+00W	5
E 17N 1+75W	5
E 17N 1+50W	5
E 17N 1+25W	5
E 17N 1+00W	5
E 17N 0+75W	5
E 17N 0+50W	5
E 17N 0+25W	5
E 16N 19+50W	5
E 16N 19+00W	5
E 16N 18+50W	5
E 16N 18+00W	5
E 16N 17+50W	5
E 16N 17+00W	5
E 16N 16+50W	5
E 16N 16+00W	5
E 16N 15+50W	5
E 16N 15+00W	5

SAMPLE	AUX PPB
E 16N 14+75W	5
E 16N 14+50W	5
E 16N 14+25W	10
E 16N 14+00W	5
E 16N 13+75W	5
E 16N 13+50W	5
E 16N 13+25W	10
E 16N 13+00W	35
E 16N 12+75W	5
E 16N 12+50W	5
E 16N 12+25W	5
E 16N 12+00W	5
E 16N 11+75W	5
E 16N 11+50W	5
E 16N 11+25W	5
E 16N 11+00W	5
E 16N 10+75W	5
E 16N 10+50W	5
E 16N 10+25W	5
E 16N 10+00W	5
E 16N 9+75W	5
E 16N 9+50W	5
E 16N 9+25W	5
E 16N 9+00W	5
E 16N 8+75W	5
E 16N 8+50W	5
E 16N 8+25W	5
E 16N 8+00W	5
E 16N 7+75W	5
E 16N 7+50W	5
E 16N 7+25W	5
E 16N 7+00W	5
E 16N 6+75W	5
E 16N 6+50W	5
E 16N 6+25W	5
E 16N 6+00W	5
E 16N 5+75W	10

SAMPLE	AU*
	PPB
E 16N 5+50W	5
E 16N 5+25W	5
E 16N 5+00W	5
E 16N 4+75W	5
E 16N 4+50W	5
E 16N 4+25W	5
E 16N 4+00W	5
E 16N 3+75W	5
E 16N 3+50W	5
E 16N 3+25W	5
E 16N 3+00W	5
E 16N 2+75W	5
E 16N 2+50W	5
E 16N 2+25W	5
E 16N 2+00W	5
E 16N 1+75W	5
E 16N 1+50W	5
E 16N 1+25W	5
E 16N 1+00W	5
E 16N 0+75W	5
E 16N 0+50W	5
E 16N 0+25W	5
E 15N 15+00W	5
E 15N 14+75W	5
E 15N 14+50W	5
E 15N 14+25W	5
E 15N 14+00W	5
E 15N 13+75W	5
E 15N 13+50W	5
E 15N 13+25W	5
E 15N 13+00W	5
E 15N 12+75W	5
E 15N 12+50W	5
E 15N 12+25W	5
E 15N 12+00W	5
E 15N 11+75W	5
E 15N 11+50W	5

SAMPLE	AUX PPB
E 15N 11+25W	5
E 15N 11+00W	5
E 15N 10+75W	5
E 15N 10+50W	5
E 15N 10+25W	5
E 15N 10+00W	5
E 15N 9+75W	5
E 15N 9+50W	5
E 15N 9+25W	5
E 15N 9+00W	5
E 15N 8+75W	5
E 15N 8+50W	5
E 15N 8+25W	5
E 15N 8+00W	10
E 15N 7+75W	5
E 15N 7+50W	5
E 15N 7+25W	5
E 15N 7+00W	45
E 15N 6+75W	5
E 15N 6+50W	5
E 15N 6+25W	5
E 15N 6+00W	5
E 15N 5+75W	5
E 15N 5+50W	5
E 15N 5+25W	5
E 15N 5+00W	5
E 15N 4+75W	5
E 15N 4+50W	5
E 15N 4+25W	5
E 15N 4+00W	5
E 15N 3+75W	5
E 15N 3+50W	5
E 15N 3+25W	5
E 15N 3+00W	5
E 15N 2+75W	5
E 15N 2+50W	5
E 15N 2+25W	5

SAMPLE	AUX PPB
E 15N 2+00W	5
E 15N 1+75W	5
E 15N 1+50W	5
E 15N 1+25W	10
E 15N 1+00W	5
E 15N 0+75W	5
E 15N 0+50W	5
E 15N 0+25W	5
E 14N 20+00W	5
E 14N 19+50W	5
E 14N 19+00W	45
E 14N 18+50W	5
E 14N 18+00W	5
E 14N 17+50W	5
E 14N 17+00W	5
E 14N 16+50W	5
E 14N 16+00W	5
E 14N 15+50W	5
E 14N 15+00W	5
E 14N 14+50W	5
E 14N 14+00W	5
E 14N 13+50W	5
E 14N 13+25W	5
E 14N 13+00W	5
E 14N 12+75W	5
E 14N 12+50W	5
E 14N 12+25W	5
E 14N 12+00W	5
E 14N 11+75W	5
E 14N 11+50W	5
E 14N 11+25W	5
E 14N 11+00W	5
E 14N 10+75W	5
E 14N 10+25W	5
E 14N 10+00W	5
E 14N 9+75W	5
E 14N 9+50W	5

SAMPLE	AUX PPB
E 14N 9+25W	5
E 14N 9+00W	5
E 14N 8+75W	5
E 14N 8+50W	5
E 14N 8+25W	5
E 14N 8+00W	5
E 14N 7+75W	15
E 14N 7+50W	10
E 14N 7+25W	5
E 14N 7+00W	5
E 14N 6+75W	5
E 14N 6+50W	5
E 14N 6+25W	5
E 14N 6+00W	5
E 14N 5+75W	5
E 14N 5+50W	5
E 14N 5+00W	5
E 14N 4+75W	5
E 14N 4+50W	5
E 14N 4+25W	15
E 14N 4+00W	5
E 14N 3+75W	5
E 14N 3+50W	5
E 14N 3+25W	5
E 14N 3+00W	5
E 14N 2+75W	5
E 14N 2+50W	5
E 14N 2+25W	10
E 14N 2+00W	5
E 14N 1+75W	5
E 14N 1+50W	5
E 14N 1+25W	5
E 14N 1+00W	15
E 14N 0+75W	5
E 14N 0+50W	5
E 14N 0+25W	5
E 13N 15+00W	5

SAMPLE	AU* PPB
E 13N 14+75W	5
E 13N 14+50W	5
E 13N 14+25W	5
E 13N 14+00W	5
E 13N 13+75W	5
E 13N 13+50W	5
E 13N 13+25W	5
E 13N 13+00W	5
E 13N 12+75W	5
E 13N 12+50W	5
E 13N 12+25W	25
E 13N 12+00W	5
E 13N 11+75W	5
E 13N 11+50W	5
E 13N 11+25W	5
E 13N 11+00W	5
E 13N 10+75W	5
E 13N 10+50W	5
E 13N 10+25W	5
E 13N 10+00W	5
E 13N 9+75W	5
E 13N 9+50W	5
E 13N 9+25W	15
E 13N 9+00W	5
E 13N 8+75W	5
E 13N 8+50W	5
E 13N 8+25W	35
E 13N 8+00W	5
E 13N 7+75W	5
E 13N 7+50W	5
E 13N 7+25W	5
E 13N 7+00W	5
E 13N 6+75W	5
E 13N 6+50W	5
E 13N 6+25W	5
E 13N 6+00W	5
E 13N 5+75W	5

SAMPLE	AUX PPB
E 13N 5+50W	5
E 13N 5+25W	5
E 13N 5+00W	5
E 13N 4+75W	5
E 13N 4+50W	5
E 13N 4+25W	5
E 13N 4+00W	5
E 13N 3+75W	5
E 13N 3+50W	5
E 13N 3+25W	5
E 13N 3+00W	5
E 13N 2+75W	5
E 13N 2+50W	5
E 13N 2+25W	5
E 13N 2+00W	5
E 13N 1+75W	5
E 13N 1+50W	5
E 13N 1+25W	5
E 13N 1+00W	5
E 13N 0+75W	5
E 13N 0+50W	5
E 13N 0+25W	5
E 12N 20+35W	5
E 12N 19+00W	5
E 12N 18+50W	5
E 12N 18+00W	5
E 12N 17+50W	5
E 12N 17+00W	5
E 12N 16+50W	5
E 12N 16+00W	5
E 12N 15+50W	5
E 12N 15+00W	5
E 12N 14+75W	5
E 12N 14+50W	5
E 12N 14+25W	5
E 12N 14+00W	5
E 12N 13+75W	5

SAMPLE	AUX PPB
E 12N 13+50W	5
E 12N 13+25W	5
E 12N 13+00W	5
E 12N 12+75W	5
E 12N 12+50W	5
E 12N 12+25W	5
E 12N 12+00W	5
E 12N 11+50W	5
E 12N 11+25W	5
E 12N 11+00W	5
E 12N 10+75W	5
E 12N 10+50W	5
E 12N 10+25W	5
E 12N 10+00W	5
E 12N 9+75W	5
E 12N 9+50W	5
E 12N 9+25W	5
E 12N 9+00W	5
E 12N 8+75W	5
E 12N 8+50W	5
E 12N 8+25W	5
E 12N 8+00W	5
E 12N 7+75W	5
E 12N 7+50W	5
E 12N 7+25W	5
E 12N 7+00W	5
E 12N 6+75W	5
E 12N 6+50W	5
E 12N 6+25W	5
E 12N 6+00W	5
E 12N 5+75W	5
E 12N 5+50W	5
E 12N 5+25W	5
E 12N 5+00W	5
E 12N 4+75W	5
E 12N 4+50W	5
E 12N 4+25W	5

SAMPLE	AU*
	FPB
E 12N 4+00W	5
E 12N 3+75W	5
E 12N 3+50W	5
E 12N 3+25W	5
E 12N 2+75W	5
E 12N 2+50W	5
E 12N 2+25W	5
E 12N 2+00W	5
E 12N 1+75W	5
E 12N 1+50W	5
E 12N 1+25W	5
E 12N 1+00W	5
E 12N 0+75W	5
E 12N 0+50W	5
E 12N 0+25W	5
E 11N 15+00W	5
E 11N 14+75W	5
E 11N 14+50W	5
E 11N 14+25W	5
E 11N 14+00W	5
E 11N 13+50W	5
E 11N 13+25W	5
E 11N 13+00W	5
E 11N 12+75W	5
E 11N 12+50W	5
E 11N 12+25W	5
E 11N 12+00W	5
E 11N 11+75W	5
E 11N 11+50W	5
E 11N 11+25W	5
E 11N 11+00W	5
E 11N 10+75W	5
E 11N 10+50W	5
E 11N 10+25W	5
E 11N 10+00W	5
E 11N 9+75W	5
E 11N 9+50W	5

SAMPLE	AU*
	PPB
E 11N 9+25W	5
E 11N 9+00W	5
E 11N 8+75W	5
E 11N 8+50W	5
E 11N 8+25W	5
E 11N 8+00W	5
E 11N 7+75W	5
E 11N 7+50W	5
E 11N 7+25W	5
E 11N 7+00W	5
E 11N 6+75W	5
E 11N 6+50W	5
E 11N 6+25W	5
E 11N 6+00W	5
E 11N 5+75W	5
E 11N 5+50W	5
E 11N 5+25W	5
E 11N 5+00W	5
E 11N 4+75W	5
E 11N 4+50W	5
E 11N 4+25W	5
E 11N 4+00W	10
E 11N 3+75W	5
E 11N 3+50W	5
E 11N 3+25W	5
E 11N 3+00W	5
E 11N 2+75W	5
E 11N 2+50W	5
E 11N 2+25W	5
E 11N 2+00W	5
E 11N 1+75W	5
E 11N 1+50W	5
E 11N 1+25W	5
E 11N 1+00W	5
E 11N 0+75W	5
E 11N 0+50W	5
E 11N 0+25W	5

SAMPLE	AU*
	PPB
E 10N 20+00W	5
E 10N 19+50W	5
E 10N 19+00W	5
E 10N 18+50W	5
E 10N 18+00W	5
E 10N 17+50W	5
E 10N 17+25W	5
E 10N 16+50W	5
E 10N 16+00W	5
E 10N 15+50W	5
E 10N 15+00W	10
E 10N 14+75W	5
E 10N 14+50W	5
E 10N 14+25W	5
E 10N 14+00W	5
E 10N 13+75W	5
E 10N 13+50W	5
E 10N 13+25W	5
E 10N 13+00W	5
E 10N 12+75W	5
E 10N 12+50W	5
E 10N 12+25W	5
E 10N 12+00W	5
E 10N 11+75W	5
E 10N 11+50W	5
E 10N 11+25W	5
E 10N 11+00W	5
E 10N 10+75W	5
E 10N 10+50W	5
E 10N 10+25W	15
E 10N 10+00W	5
E 10N 9+75W	5
E 10N 9+50W	5
E 10N 9+25W	5
E 10N 9+00W	5
E 10N 8+75W	5
E 10N 8+50W	5

SAMPLE	AU* PPB
E 10N 8+25W	5
E 10N 8+00W	5
E 10N 7+75W	5
E 10N 7+50W	5
E 10N 7+25W	5
E 10N 7+00W	5
E 10N 6+75W	5
E 10N 6+50W	5
E 10N 6+25W	5
E 10N 6+00W	5
E 10N 5+75W	10
E 10N 5+50W	5
E 10N 5+25W	5
E 10N 5+00W	5
E 10N 4+75W	5
E 10N 4+50W	5
E 10N 4+25W	5
E 10N 4+00W	5
E 10N 3+75W	5
E 10N 3+50W	35
E 10N 3+25W	5
E 10N 3+00W	5
E 10N 2+75W	5
E 10N 2+50W	5
E 10N 2+25W	5
E 10N 2+00W	5
E 10N 1+75W	5
E 10N 1+50W	5
E 10N 1+25W	5
E 10N 1+00W	5
E 10N 0+75W	5
E 10N 0+50W	5
E 8N 20+00W	5
E 8N 19+75W	5
E 8N 19+50W	5
E 8N 19+25W	5
E 8N 19+00W	5

SAMPLE	AUX PPB
E 8N 18+75W	5
E 8N 18+50W	5
E 8N 18+25W	5
E 8N 18+00W	5
E 8N 17+75W	5
E 8N 17+50W	95
E 8N 17+25W	5
E 8N 17+00W	5
E 8N 16+50W	5
E 8N 16+25W	5
E 8N 15+75W	5
E 8N 15+50W	5
E 8N 15+25W	5
E 8N 15+00W	5
E 8N 14+75W	20
E 8N 14+50W	5
E 8N 14+25W	5
E 8N 14+00W	5
E 8N 13+75W	5
E 8N 13+50W	5
E 8N 13+25W	5
E 8N 13+00W	5
E 8N 12+75W	5
E 8N 12+50W	5
E 8N 12+25W	5
E 8N 11+50W	5
E 8N 11+25W	5
E 8N 11+00W	5
E 8N 10+75W	5
E 8N 10+50W	5
E 8N 10+00W	5
E 7N 20+00W	5
E 7N 19+75W	5
E 7N 19+50W	5
E 7N 19+25W	5
E 7N 19+00W	5
E 7N 18+75W	5

SAMPLE	AUX FPB
E 7N 18+50W	5
E 7N 18+25W	5
E 7N 18+00W	5
E 7N 17+75W	5
E 7N 17+50W	5
E 7N 17+25W	15
E 7N 17+00W	5
E 7N 16+75W	5
E 7N 16+50W	5
E 7N 16+25W	5
E 7N 16+00W	5
E 7N 15+75W	5
E 7N 15+50W	5
E 7N 15+00W	5
E 7N 14+75W	5
E 7N 14+50W	5
E 7N 14+25W	5
E 7N 14+00W	5
E 7N 13+75W	5
E 7N 13+50W	5
E 7N 13+25W	5
E 7N 13+00W	5
E 7N 12+75W	5
E 7N 12+25W	10
E 7N 12+00W	5
E 7N 11+75W	5
E 7N 11+50W	5
E 7N 11+25W	5
E 7N 11+00W	5
E 7N 10+75W	5
E 7N 10+50W	5
E 7N 10+25W	5
E 7N 10+00W	5
E 7N 9+50W	5
E 7N 9+25W	5
E 7N 9+00W	5
E 7N 8+75W	5

SAMPLE	AU* PPB
E 7N 8+50W	5
E 7N 8+25W	5
E 7N 8+00W	5
E BL 20+00N	5
E BL 19+50N	5
E BL 19+00N	10
E BL 18+50N	5
E BL 18+00N	5
E BL 17+50N	5
E BL 17+00N	5
E BL 16+50N	5
E BL 16+00N	5
E BL 15+50N	5
E BL 15+00N	5
E BL 14+50N	5
E BL 14+00N	5
E BL 13+50N	5
E BL 13+00N	5
E BL 12+50N	5
E BL 12+00N	5
E BL 11+50N	5
E BL 11+00N	5
E BL 10+50N	5
E BL 9+00N	5
E BL 8+00N	5
E BL 7+00N	5
E BL 6+00N	5
E BL 5+00N	5
E BL 4+00N	5
E BL 3+00N	5
E BL 2+00N	5
E BL 1+50N	5
E BL 0+50N	5
E BL 0+00N	5

SAMPLE	AUX FPB
M 1W 0+00S	5
M 1W 0+25S	5
M 1W 0+50S	5
M 1W 0+75S	5
M 1W 1+00S	5
M 1W 1+25S	5
M 1W 1+50S	5
M 1W 1+75S	5
M 1W 2+00S	5
M 1W 2+25S	5
M 1W 2+50S	5
M 1W 2+75S	5
M 1W 3+00S	5
M 1W 3+25S	5
M 1W 3+50S	5
M 1W 3+75S	5
M 1W 4+00S	5
M 1W 4+25S	5
M 1W 4+50S	5
M 1E 0+00S	5
M 1E 0+25S	10
M 1E 0+50S	5
M 1E 0+75S	5
M 1E 1+00S	5
M 1E 1+25S	5
M 1E 1+50S	5
M 1E 1+75S	5
M 1E 2+00S	5
M 1E 2+25S	5
M 1E 2+50S	25
M 1E 2+75S	5
M 1E 3+00S	5
M 1E 3+25S	5
M 1E 3+50S	5
M 1E 3+75S	5
M 1E 4+00S	5
M 1E 4+25S	5
M 1E 4+50S	5

SAMPLE	AU* PPB
ESL-1	5
ESL-2	5
ESL-3	5
ESL-4	5
ESL-5	5
ESL-6	5
ESL-7	5
ESL-8	5
ESL-9	5
ESL-10	5
ESL-11	5
ESL-12	5
ESL-13	5
ESL-14	5
ESL-15	5

SAMPLE	AU* PPB
EPC-1	5
EPC-2	10
EPC-3	5
EPC-4	5
EPC-5	5
EPC-6	5
EPC-7	5
EPC-8A	5
EPC-8B	5
EPC-9	5
EPC-10	5
EPC-11	10
EUK-SL-1	5
EUK-SL-2	5
EUK-SL-3	5
EUK-SL-4	5
EUK-SL-5	5
EUK-SL-6	5
EUK-SL-7	5
EUK-SL-9A	30
EUK-SL-9B	5
EUK-SL-10	5
EUK-SL-11	5
EUK-SL-12	5
EUK-SL-13	5
EUK-SL-14	5
EUK-SL-15	5
EUK-SL-16	5
EUK-SL-17	5
EUK-SL-18	5
EUK-SL-19	5
EUK-SL-20	5
EUK-SL-21	5
EUK-SL-22	5

SAMPLE	AU* PPB
EWR-1	5
EWR-2	5
EWR-3	5
EWR-4	5
EWR-5	5
EWR-6	5
EWR-7	5
EWR-8	5
EWR-9	5
EWR-10	5
EWR-11	5
EWR-12	5
EWR-13	5
EWR-14	5
EWR-15	5
EWR-16	5
EWR-17	5
EWR-18	5
EWR-19	5
EWR-20	5
EWR-21	5
EWR-22	5
EWR-23	5
EWR-24	5
EWR-25	5
EWR-26	5
EWR-27	5
EWR-28	5
EWR-29	5
EWR-30	5
EWR-31	5
EWR-32	5
EWR-33	5
EWR-34	5
MWR-1	5
MWR-2	5
MWR-3	5

SAMPLE	AU*	PPB
MWR-4	5	
MWR-5	5	
EUK R-2	5	
EUK R-3	5	
EUK R-4	5	
EUK R-5	5	

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: AUG 1984

DATE REPORT MAILED: *Aug 28/84*

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-3 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN, FE, CA, P, CR, MG, BA, TI, B, AL, NA, K, W, SI, ZR, CE, SN, Y, NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: PULP

ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

KERR DAWSON PROJECT # 275 FILE # 84-1822 R PAGE 7

SAMPLE#	CU PPM	PB PPM	AG PPM	AS PPM	SB PPM
E 16N 14+75W	59	8	.1	4	2
E 16N 14+50W	76	8	.1	7	2
E 16N 14+25W	58	6	.1	4	2
E 16N 14+00W	29	12	.1	4	4
E 16N 13+75W	55	9	.1	2	2
E 16N 13+50W	54	8	.1	4	2
E 16N 13+25W	85	10	.1	12	2
E 16N 13+00W	72	10	.1	11	4
E 16N 12+75W	82	15	.1	12	2
E 16N 12+50W	94	9	.1	14	2
STD C	58	41	7.1	38	17

SAMPLE#	CU PPM	PB PPM	AG PPM	AS PPM	SB PPM
E 13N 13+50W	49	9	.2	12	2
E 13N 13+25W	49	9	.1	2	2
E 13N 13+00W	69	2	.1	2	2
E 13N 12+75W	12	2	.1	32	2
E 13N 12+50W	41	7	.1	8	2
E 13N 12+25W	55	6	.1	4	2
E 13N 12+00W	49	6	.2	6	2
E 13N 11+75W	57	8	.1	7	2
E 13N 11+50W	48	4	.1	5	2
E 13N 11+25W	65	11	.3	2	2
E 13N 9+75W	64	6	.1	3	2
E 13N 9+50W	54	6	.1	4	2
E 13N 9+25W	67	5	.2	9	2
E 13N 9+00W	59	6	.1	2	2
E 13N 8+75W	76	4	.1	4	2
E 13N 8+50W	76	2	.1	12	2
E 13N 8+25W	69	2	.1	4	2
E 13N 8+00W	86	9	.2	11	2
E 13N 7+75W	69	4	.1	2	3
E 13N 7+50W	60	8	.1	2	2
STD C	58	39	7.5	42	19

SAMPLE#	CU PPM	PB PPM	AG PPM	AS PPM	SB PPM
E 10N 4+50W	146	5	.1	9	2
E 10N 4+25W	64	6	.1	11	2
E 10N 4+00W	98	8	.1	6	2
E 10N 3+75W	110	16	.2	2	2
E 10N 3+50W	46	7	.3	2	2
E 10N 3+25W	46	5	.3	12	2
E 10N 3+00W	67	6	.2	4	2
E 10N 2+75W	93	8	.2	3	2
E 10N 2+50W	74	7	.1	4	2
E 10N 2+25W	144	11	.2	2	2
STD C	58	39	7.0	39	17

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
FAX: (604)253-3158 COMPUTER LINE:251-1011

DATE RECEIVED SEPT 25 1984

DATE REPORTS MAILED *Sept 29/84*

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE TYPE : SOIL - DRIED AT 60 DEG C. , -80 MESH.
AUX - 10 GM, IGNITED, HOT AQUA REGIA LEACHED, NIBK EXTRACTION, AA ANALYSIS.

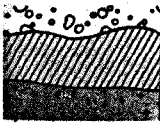
ASSAYER *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

KERR DAWSON & ASSOCIATES LTD PROJECT# 275 FILE# 84-2764 PAGE# 1

SAMPLE	AUX FPB
E 13+50N 12+75W	5
E 13+50N 12+62.5W	5
E 13+50N 12+50W	5
E 13+50N 12+37.5W	5
E 13+50N 12+25W	5
E 13+00N 12+87.5W	5
E 13+00N 12+62.5W	5
E 13+00N 12+37.5W	5
E 13+00N 12+25W	5
E 13+00N 12+12.5W	5
E 12+50N 12+87.5W	5
E 12+50N 12+75W	5
E 12+50N 12+62.5W	5
E 12+50N 12+50W	5
E 12+50N 12+37.5W	5
E 12+50N 12+25W	5
E 12+00N 12+87.5W	5
E 12+00N 12+62.5W	5
E 12+00N 12+37.5W	5
E 11+50N 13+00W	5
E11+50N 12+87.5W	5
E 11+50N 12+75W	5
E11+50N 12+62.5W	5
E 11+50N 12+50W	5
E 6+00N 17+50W	5
E 6+00N 17+25W	5
E 6+00N 17+00W	5
E 6+00N 16+75W	5
E 6+00N 16+25W	5
E 6+00N 16+00W	5
E 6+00N 15+75W	5
E 6+00N 15+50W	5
E 6+00N 15+25W	5
E 6+00N 15+00W	5
E 6+00N 14+75W	5
E 6+00N 14+50W	5
E 6+00N 14+25W	5

SAMPLE	AUX PPB
E 6+00N 14+00W	5
E 6+00N 13+75W	5
E 6+00N 13+50W	5
E 6+00N 13+25W	5
E 6+00N 13+00W	5
E 5+00N 17+50W	5
E 5+00N 17+25W	5
E 5+00N 17+00W	5
E 5+00N 16+25W	5
E 5+00N 16+00W	5
E 5+00N 15+50W	5
E 5+00N 15+25W	5
E 5+00N 15+00W	5
E 5+00N 14+75W	5
E 5+00N 14+50W	5
E 5+00N 14+25W	5
E 5+00N 14+00W	5
E 5+00N 13+75W	5
E 5+00N 13+50W	5
E 5+00N 13+25W	10
E 5+00N 13+00W	5
E 5+00N 12+50W	5
E 4+00N 17+50W	5
E 4+00N 17+25W	5
E 4+00N 17+00W	5
E 4+00N 16+75W	5
E 4+00N 16+50W	5
E 4+00N 16+25W	5
E 4+00N 16+00W	5
E 4+00N 15+75W	5
E 4+00N 15+50W	5
E 4+00N 15+25W	5
E 4+00N 15+00W	5
E 4+00N 14+75W	15
E 4+00N 14+50W	5
E 4+00N 14+25W	5
E 4+00N 14+00W	5

SAMPLE	AUX FPB
E 4+00N 13+75W	5
E 4+00N 13+50W	5
E 4+00N 13+25W	5
E 4+00N 13+00W	5
E RT 10+50W	5
E RT 10+25W	5
E RT 10+00W	5
E RT 9+75W	5
E RT 9+50W	5
E RT 9+25W	5



REPORT: 124-3282

PROJECT: NONE GIVEN PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Au PPB	wt/Au gm	NOTES
346-ETS-1		0.6	5		} Trench #2 (Soils)
346-ETS-2		0.6	10		
346-ETS-3		0.5	<5		
346-ETS-4		0.8	30		
346-ETS-5		0.9	20		
346-TR-4-S-01		<0.2	<5		} Trench #4 (Soils)
346-TR-4-S-02		<0.2	<5		
346-TR-4-S-03		0.2	5		
346-TR-4-S-04		0.2	5		
346-TR-4-S-05		0.2	10	14.00	
346-TR-4-S-06		0.4	10		} Trench #5 (Soils)
346-TR-4-S-07		0.2	10		
346-TR-4-S-08		0.4	<5		
346-TR-4-S-09		<0.2	90		
346-TR-4-S-10		0.3	5		
346-TR-4-S-11		0.2	5		} Trench #6 (Soils)
346-TR-5-S-1		<0.2	15		
346-TR-5-S-2		<0.2	10		
346-TR-5-S-3		0.4	5		
346-TR-5-S-4		0.2	<5		
346-TR-5-S-5		0.4	5		} Trench #6 (Soils)
346-TR-5-S-6		0.3	5		
346-TR-5-S-7		<0.2	10		
346-TR-5-S-8		<0.2	<5		
346-TR-5-S-9		<0.2	5		
346-TR-5-S-10		<0.2	<5		} Trench #6 (Soils)
346-TR-6-S-1		0.2	10		
346-TR-6-S-2		0.4	15		
346-TR-6-S-3		0.5	5	9.00	
346-TR-6-S-4		<0.2	5		
346-TR-6-S-5		<0.2	10		



REPORT: 424-3170

PROJECT: NONE GIVEN

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	NOTES
R ER-01		<0.002	1.95	} Trench #1 (Rock Chips)
R ER-02		<0.002	0.14	
R ER-03		<0.002	0.32	
R ER-04		<0.002	0.03	
R ER-05		<0.002	0.04	
R ER-06		<0.002	0.03	- Trench #2
R ER-07		<0.002	0.02	- Trench #2
R ETR-01		<0.002	1.25	} Trench #1 (Rock Chips)
R ETR-02		<0.002	0.15	
R ETR-03		<0.002	0.09	
R ETR-04		<0.002	0.08	} Trench #2 across 8m.
R ETR-05		<0.002	0.03	
R ETR-06		<0.002	0.03	
R ETR-10		<0.002	0.02	} Trench #4 (Rock Chips)
R ETR-11		<0.002	0.02	
R ETR-12		<0.002	0.07	} Trench #5 (Rock Chips)
R ETR-13		<0.002	0.02	
R ETR-15		<0.002	0.02	
R ETR-16		<0.002	0.02	
R ETR-17		<0.002	0.03	



REPORT: 424-3282

PROJECT: NONE GIVEN

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	NOTES
R 346-ETR-07		<0.002	0.04	} Trench #3 (Rock Chips)
R 346-ETR-08		<0.002	0.02	
R 346-ETR-09		<0.002	0.02	
R 346-ETR-14		<0.002	0.02	
R 346-ETR-18		<0.002	0.06	
				- Trench #4 (Rock chip)
				- Trench #1 Area.
R 346-ETR-19		<0.002	0.02	} Trench #1 (Rock Chips)
R 346-ETR-20		<0.002	0.03	
R 346-ETR-21		<0.002	0.12	
R 346-ETR-22		<0.002	0.03	
R 346-ETR-23		<0.002	0.03	
R 346-ETR-24		<0.002	0.03	} Deep orange weathering altered dyke.
R 346-ETR-25		<0.002	2.12	
R 346-EWR-35		<0.002	0.03	
R 346-EWR-36	} Spch	<0.002	0.02	
R 346-EWR-37		<0.002	0.14	
				- Rusty quartz vein float.
				- Quartz float
				- Argillite with quartz stringers.

[Signature]
 Registered Assayer, Province of British Columbia

ANALYTICAL LABORATORIES LTD.
2 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 TELEX 04-53124

DATE RECEIVED: OCT 16 1984

DATE REPORT MAILED: *Oct 22/84*

ASSAY CERTIFICATE

SAMPLE TYPE: PULP AU** AND AG** BY FIRE ASSAY

*Corrected
Page*

ASSAYER: *D. Toye* DEAN TOYE. CERTIFIED B.C. ASSAYER

KERR DAWSON PROJECT # EAGLE FILE # 84-3041B

PAGE 1

SAMPLE#	Ag** oz/t	Au** oz/t
ER-01	1.98	.001
ER-02	.10	.001
ER-03	.33	.001
ETR-01	1.36	.001
ETR-02	.15	.001
ETR-25	2.23	.001

**KAMLOOPS
RESEARCH & ASSAY
LABORATORY LTD.**

B.C. CERTIFIED ASSAYERS

912 LAVAL CRESCENT — KAMLOOPS, B.C.
V2C 5P5
PHONE: (604) 372-2784 — TELEX: 048-8320

GEOCHEMICAL LAB REPORT

Kerr, Dawson & Associates Ltd.
Suite 206 Nicola Place
310 Nicola Avenue
Kamloops, B.C. V2C 2P5

DATE October 1, 1984

ANALYST _____

FILE NO. _____

PROJECT 275

FILE NO. G-1197

NO.	IDENTIFICATION	ppb Au	weight grams				
1	TSL - 1 (s)*	L5					
	TSL - 3 (s)*	5					
	TSL - 1 (v)	146	25.29				
4	TSL - 2	60	29.01				
	TSL - 3 (v)	88	19.71				
6	EK - 06	125	10.03				
	ER - 07	180	11.62				
	EPC - 12	150	5.60				
9	EPC - 13	105	11.68				
0	EPC - 14	275	19.59				
	* Au Method: -80 Mesh						
	Fire Assay						
	Atomic Absorption						
	L means "less than"						
	Rock Geochem: Crush, split and ring grind to approximately -100 mesh						
	Au Method: Fire Assay						
	Atomic Absorption						

Cont. Claim.

APPENDIX B

PERSONNEL

PERSONNEL

FIELD:

Eagle Claim

J. R. Kerr, P. Eng. July 13-16, Sept. 15-17, 1984	7 days
W. Gruenwald, B.Sc. July 10-25, Sept. 15-22, 1984	18.5 days
R. Henderson, Sr. Assistant July 10-22, 26, Sept. 15, 22, 1984	18 days
<u>Total</u>	<u>42.5 man days</u>

Margarita - Butterfly Claims

J. R. Kerr, P. Eng. July 15, 1984	1 day
W. Gruenwald, B. Sc. July 24, 1984	1 day
R. Henderson, Sr. Assistant July 24, 1984	1 day
<u>Total</u>	<u>3 man days</u>

OFFICE:

Eagle Claim

W. Gruenwald, B. Sc. July 2, 3, 8, 9, 26, 27, 1984 August 19, 21, 22, 24, 27-30, 1984 Sept. 3, 4, 10, 12, 13, 23, 24, 27, 28, 30, 1984 November 13, 14, 15, 1984	10 3/4 days
--	-------------

Margarita - Butterfly Claims

W. Gruenwald, B. Sc. November 15, 1984	1/4 day
<u>Total</u>	<u>11 days</u>

APPENDIX C

STATEMENT OF EXPENDITURES

COST STATEMENT

EAGLE CLAIM:

LABOUR:

J. R. Kerr, P. Eng. 7 days @ \$300/day	\$ 2,100.00	
W. Gruenwald, B. Sc. 29 ¼ days @ \$270/day	7,897.50	
R. Henderson 18 days @ \$180/day	<u>3,240.00</u>	
		\$ 13,237.50

EXPENSES AND DISBURSEMENTS:

(a) Geochemical Costs (Acme Analytical, Bondar Clegg)	\$ 6,217.55	
(b) Truck Rental	1,246.97	
(c) Cat Rental 20½ hrs. @ \$100/hr.	2,050.00	
(d) Room and Board	1,797.85	
(e) Freight, sample shipping	232.70	
(f) Equipment Rental	705.00	
(g) Travel Expense (Airline)	2,044.00	
(h) Field Supplies flagging, sample bags, toposil thread, field books	433.60	
(i) Map preparation, sepias, mylar, enlargement (N. Wade)	213.17	
(j) Secretarial, telephone, xeroxing, postage, courier	<u>449.84</u>	
		<u>15,390.68</u>
<u>TOTAL . . .</u>		\$ <u>28,628.18</u>

COST STATEMENT

MARGARITA - BUTTERFLY CLAIMS:

LABOUR:

J. R. Kerr, P. Eng. 1 day @ \$300/day	\$	300.00	
W. Gruenwald, B. Sc. 1½ day @ 270/day		337.50	
R. Henderson, Sr. Assistant 1 day @ \$180/day		<u>180.00</u>	
			\$ 817.50

EXPENSES AND DISBURSEMENTS:

(a) Geochemical Costs	\$	248.50	
(b) Truck Rental		60.00	
(c) Field Supplies		25.00	
(d) Room and Board		135.00	
(e) Miscellaneous Charges Freight, secretarial, xeroxing		<u>20.00</u>	
			<u>488.50</u>
<u>TOTAL . . .</u>			\$ <u>1,306.00</u>

APPENDIX D

REFERENCES

REFERENCES

Report of the Minister of Mines
(1930, 1932).

Wright Creek Placer Operations.

Aitken, J. D. (1959).

Atlin Map Area, B. C.
G.S.C. Memoir #307,
Map #1082; 1" = 4 mi.

Kerr, J. R. (1982).

Geological and Geochemical Report
on the GV, Eagle, Raven, Ptarmigan
and Hawk Claims, Atlin Mining
Division, British Columbia.

Troup, A. G. (1984).

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Atlin Mining Division, B. C.

Diduck, A. (1984).

Personal Communication.

Rich, T. (1984).

Personal Communication.

Gruenwald, W. (1984).

Summary Report on the Eagle Claim,
Atlin Mining Division, B. C.

APPENDIX E

WRITER'S CERTIFICATE

Werner GRUENWALD, B. Sc.
Geologist

#6 NICOLA PLACE, 310 NICOLA ST., KAMLOOPS, B.C. V2C 2P5 • TELEPHONE (604) 374-0544

C E R T I F I C A T E

I, WERNER GRUENWALD, OF KAMLOOPS, BRITISH COLUMBIA, DO HEREBY CERTIFY THAT:

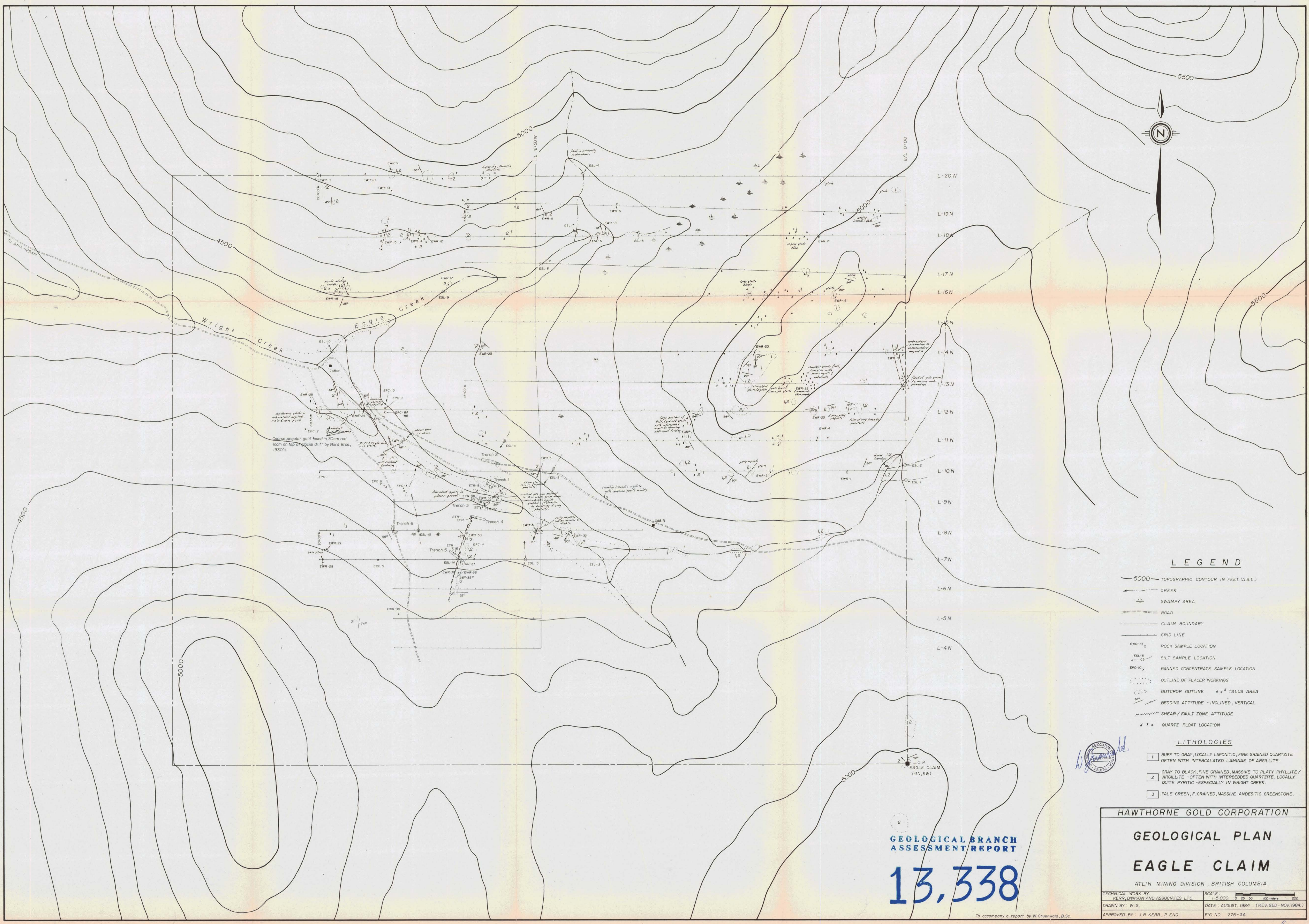
- (1) I am a geologist employed by Kerr, Dawson and Associates Ltd. of #206 - 310 Nicola Street, Kamloops, B. C.
- (2) I am a graduate of the University of British Columbia with a B. Sc. in Geology, 1972.
- (3) I am a fellow of the Geological Association of Canada.
- (4) I have practised my profession continuously since May, 1972.
- (5) This report is based on my examination of all available exploration data, geological memoirs, and upon personal communications.



Werner Gruenwald, B. Sc.
GEOLOGIST

KAMLOOPS, B.C.

November 16, 1984.



LEGEND

- 5000 TOPOGRAPHIC CONTOUR IN FEET (A.S.L.)
- CREEK
- SWAMPY AREA
- ROAD
- CLAIM BOUNDARY
- GRID LINE
- EWR-10 X ROCK SAMPLE LOCATION
- ESL-5 SILT SAMPLE LOCATION
- EPC-10 X PANNED CONCENTRATE SAMPLE LOCATION
- OUTLINE OF PLACER WORKINGS
- OUTCROP OUTLINE $\Delta \nabla$ TALUS AREA
- BEDDING ATTITUDE - INCLINED, VERTICAL
- SHEAR / FAULT ZONE ATTITUDE
- QUARTZ FLOAT LOCATION

LITHOLOGIES

- 1 BUFF TO GRAY, LOCALLY LIMONITIC, FINE GRAINED QUARTZITE OFTEN WITH INTERCALATED LAMINAE OF ARGILLITE.
- 2 GRAY TO BLACK, FINE GRAINED, MASSIVE TO PLATY PHYLLITE / ARGILLITE - OFTEN WITH INTERBEDDED QUARTZITE. LOCALLY QUITE PYRITIC - ESPECIALLY IN WRIGHT CREEK.
- 3 PALE GREEN, F. GRAINED, MASSIVE ANDESITIC GREENSTONE.



GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,338

HAWTHORNE GOLD CORPORATION

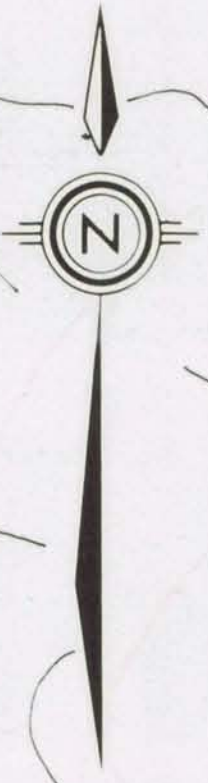
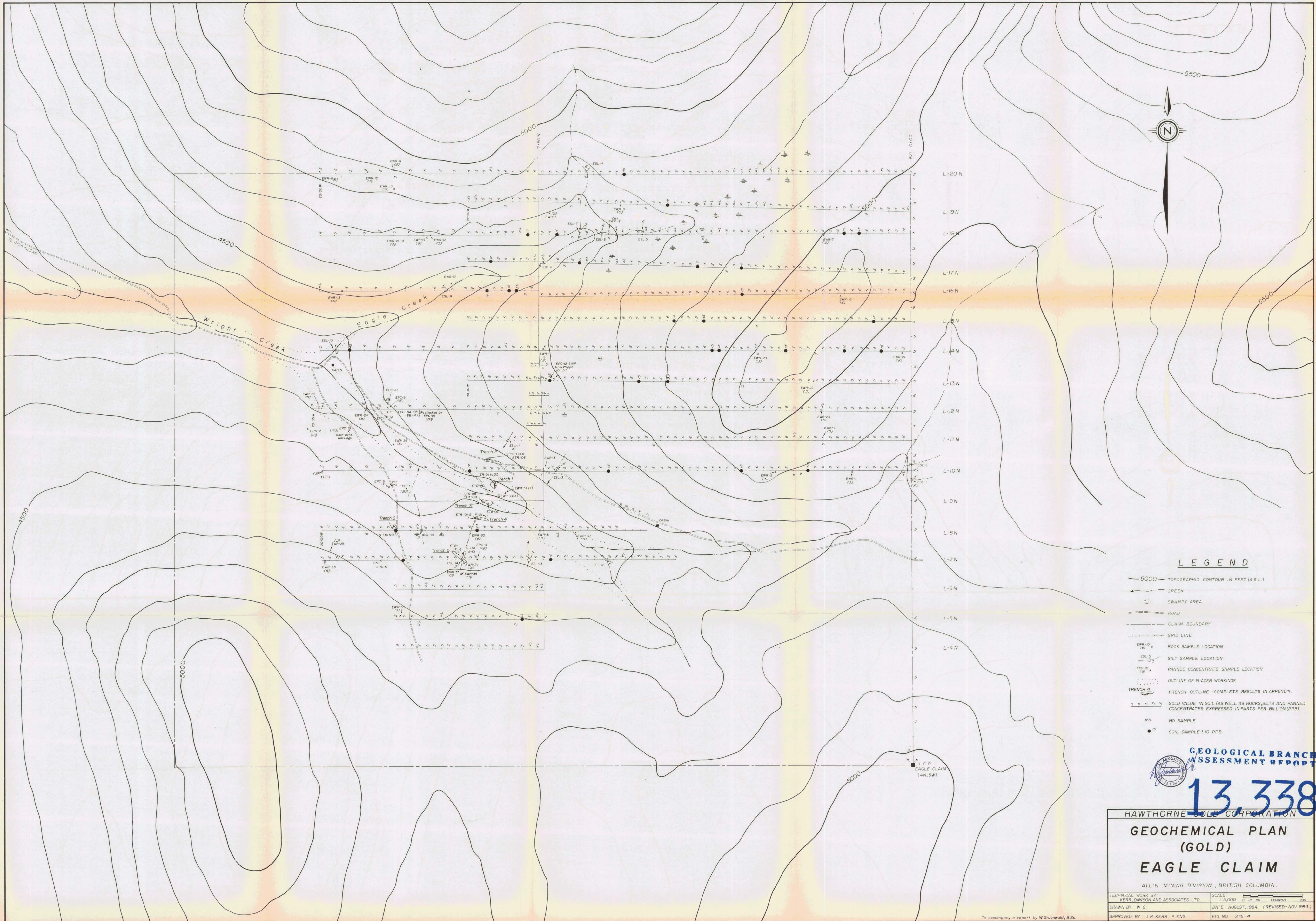
GEOLOGICAL PLAN

EAGLE CLAIM

ATLIN MINING DIVISION, BRITISH COLUMBIA.

TECHNICAL WORK BY KERR, GAWSON AND ASSOCIATES LTD.	SCALE 1:5,000 0 25 50 100 meters 200
DRAWN BY: W. G.	DATE: AUGUST, 1984 (REVISED - NOV. 1984)
APPROVED BY: J. R. KERR, P. ENG.	FIG. NO. 275-3A

To accompany a report by W. Gruenwald, B.Sc.



LEGEND

- 5000 — TOPOGRAPHIC CONTOUR IN FEET (A.S.L.)
- CREEK
- SWAMPY AREA
- ROAD
- CLAIM BOUNDARY
- GRID LINE
- EWR-10 X ROCK SAMPLE LOCATION
- ESL-1 SILT SAMPLE LOCATION
- EPC-10 X PANNED CONCENTRATE SAMPLE LOCATION
- OUTLINE OF PLACER WORKINGS
- TRENCH 4 TRENCH OUTLINE - COMPLETE RESULTS IN APPENDIX
- GOLD VALUE IN SOIL (AS WELL AS ROCKS, SILTS AND PANNED CONCENTRATES EXPRESSED IN PARTS PER BILLION (PPB))
- N/S NO SAMPLE
- SOIL SAMPLE ≥ 10 PPB

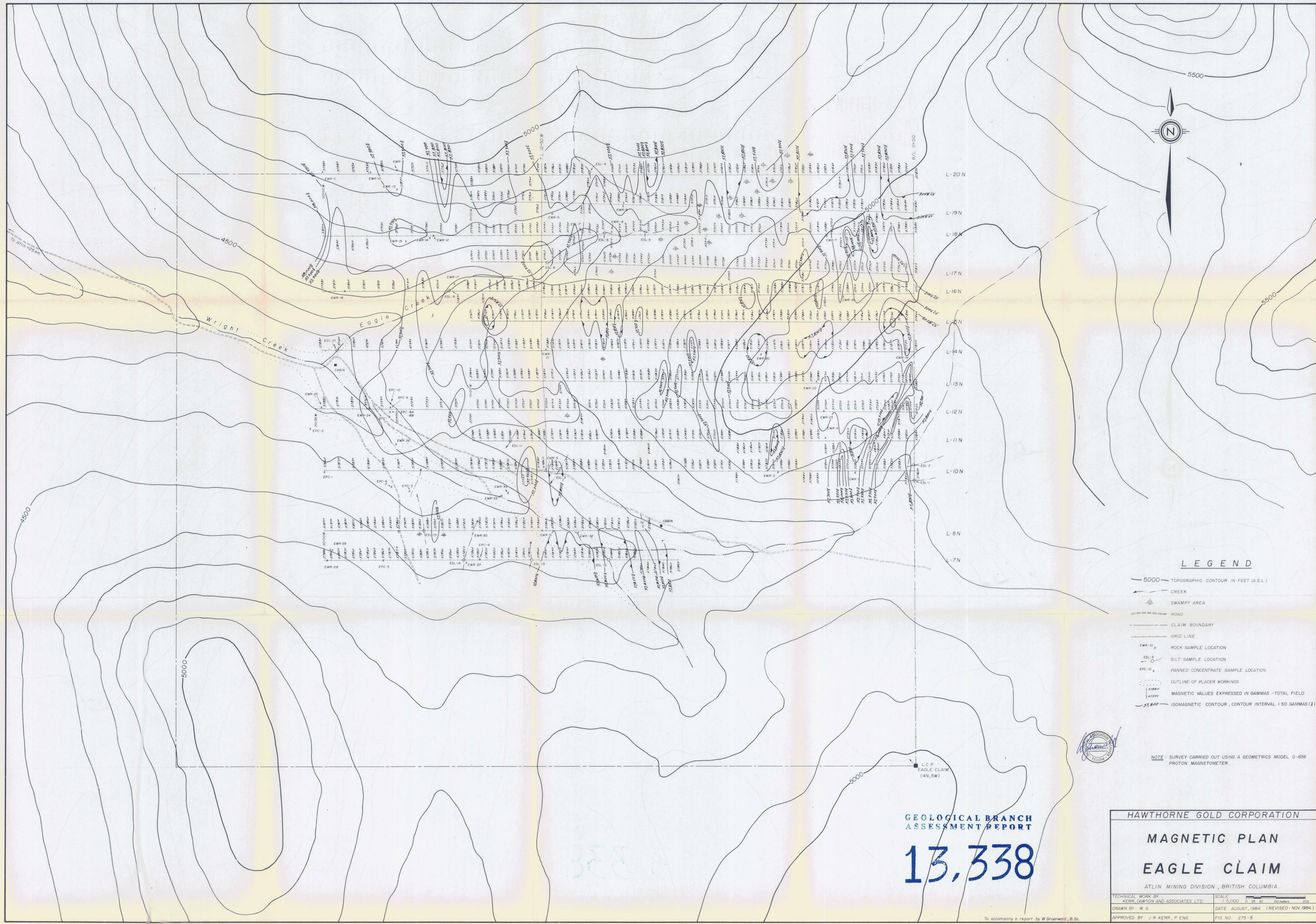
GEOLOGICAL BRANCH ASSESSMENT REPORT

13,338

HAWTHORNE GOLD CORPORATION
GEOCHEMICAL PLAN (GOLD)
EAGLE CLAIM
 ATLIN MINING DIVISION, BRITISH COLUMBIA

TECHNICAL WORK BY: KERR, GAWSON AND ASSOCIATES LTD. SCALE: 1:5,000 (0 20 40 60 meters)
 DRAWN BY: W.G. DATE: AUGUST, 1984 (REVISED: NOV 1984)
 APPROVED BY: J.R. KERR, P. ENG. FIG. NO. 275-4

To accompany a report by W. Gruenwald, B.Sc.



LEGEND

- 5000 — TOPOGRAPHIC CONTOUR IN FEET (A.S.L.)
- CREEK
- SWAMPY AREA
- ROAD
- CLAIM BOUNDARY
- GRID LINE
- EWR-10 x ROCK SAMPLE LOCATION
- ESL-5 o SILT SAMPLE LOCATION
- EPC-10 x PANNED CONCENTRATE SAMPLE LOCATION
- OUTLINE OF PLACER WORKINGS
- MAGNETIC VALUES EXPRESSED IN GAMMAS - TOTAL FIELD
- 52,800 ISOMAGNETIC CONTOUR, CONTOUR INTERVAL +50 GAMMAS (1)

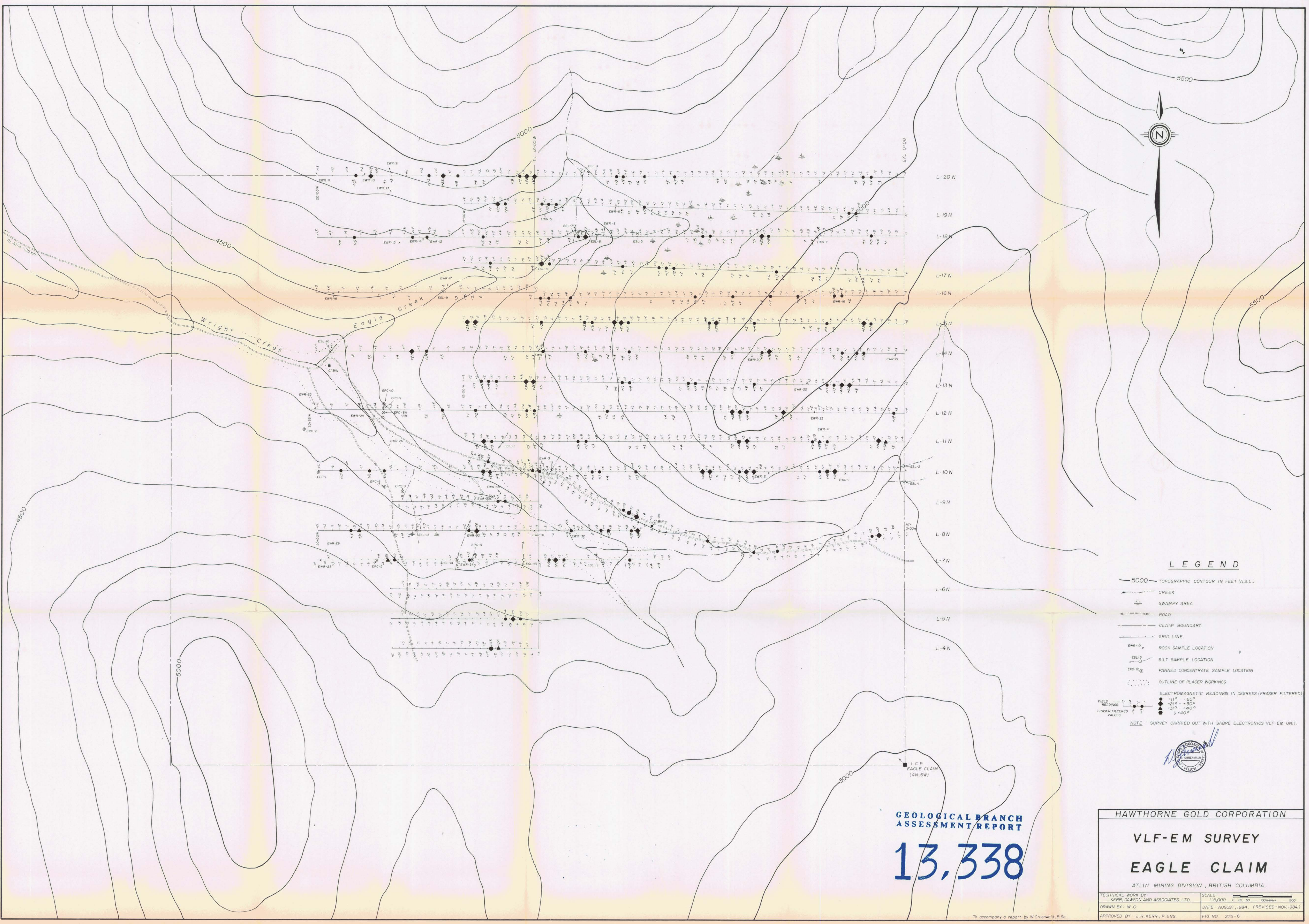
NOTE: SURVEY CARRIED OUT USING A GEOMETRICS MODEL G-836 PROTON MAGNETOMETER.



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

13,338

HAWTHORNE GOLD CORPORATION	
MAGNETIC PLAN	
EAGLE CLAIM	
ATLIN MINING DIVISION, BRITISH COLUMBIA	
TECHNICAL WORK BY KERR, DAWSON AND ASSOCIATES LTD.	SCALE 1:5,000 0 25 50 100 METERS 330
DRAWN BY: W.G.	DATE: AUGUST, 1984 (REVISED-NOV. 1984.)
APPROVED BY: J.R. KERR, P. ENG.	FIG. NO. 275-5



LEGEND

- 5000 — TOPOGRAPHIC CONTOUR IN FEET (A.S.L.)
- CREEK
- SWAMPY AREA
- ROAD
- CLAIM BOUNDARY
- GRID LINE
- EWR-10 x ROCK SAMPLE LOCATION
- ESL-5 SILT SAMPLE LOCATION
- ⊙ EPC-10 PANNED CONCENTRATE SAMPLE LOCATION
- ⋯ OUTLINE OF PLACER WORKINGS
- ELECTROMAGNETIC READINGS IN DEGREES (FRASER FILTERED)
- FIELD READINGS: ● +10° - +20°
- FRASER FILTERED VALUES: ● +20° - +30°
- +30° - +40°
- > +40°

NOTE: SURVEY CARRIED OUT WITH SABRE ELECTRONICS VLF-EM UNIT.



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

13,338

HAWTHORNE GOLD CORPORATION	
VLF-EM SURVEY	
EAGLE CLAIM	
ATLIN MINING DIVISION, BRITISH COLUMBIA.	
TECHNICAL WORK BY: KERR, DAWSON AND ASSOCIATES LTD.	SCALE: 1:5,000 0 25 50 100 meters 200
DRAWN BY: W.G.	DATE: AUGUST, 1984 (REVISED - NOV 1984)
APPROVED BY: J.R. KERR, P. ENG.	FIG. NO. 275-6

To accompany a report by W. Gruenewald, B.Sc.