

GEOLOGICAL AND GEOCHEMICAL REPORT

- on the -

BRETT CLAIMS

VERNON MINING DIVISION, BRITISH COLUMBIA

- for -

HUNTINGTON RESOURCES INC.

2002 - 1055 WEST GEORGIA STREET

VANCOUVER, B.C. V6E 3P5

COVERING: BRETT #1, BRETT #2 claims (30units)

WORK PERFORMED: June 12 - June 21, 1984

**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**

LOCATION: (1) 27.2 Km. West of Vernon, B.C.  
(2) NTS Map No. 82 L/4E  
(3) Latitude: 50° 14.0' North  
Longitude: 119° 39.0' West

**13,469**

Prepared by:

KERR, DAWSON AND ASSOCIATES LTD.

#206 - 310 Nicola Street

Kamloops, B. C. V2C 2P5

W. GRUENWALD, B. Sc.

September 28, 1984

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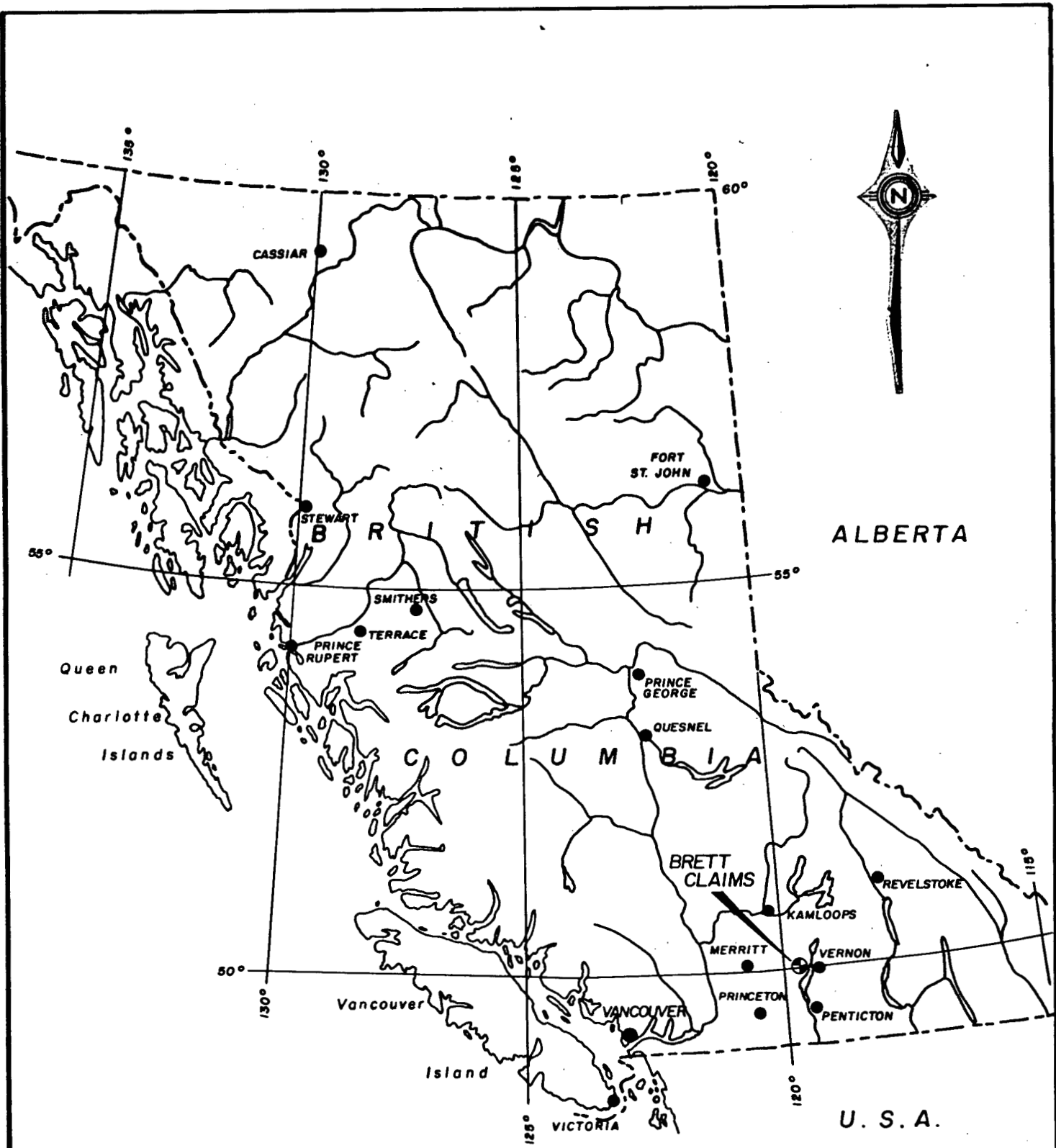
INTRODUCTION

The writer at the request of Huntington Resources Inc. completed a programme of detailed grid soil sampling, rock chip and stream sediment sampling, as well as geological mapping on the Brett claims, west of Vernon, B. C. The programme, carried out by the writer and several field assistants in late June, 1984, partially completes the Phase I recommendations put forth in a report by J. M. Dawson, P. Eng. December 12, 1983.

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

SUMMARY

- (1) The Brett property consists of two contiguous claims totalling 30 metric units (750 hectares). The claims are located along the north side of Whiteman Creek, approximately 27 km. west of Vernon, B. C. Access to the property is via a good gravel road.
- (2) The claim area is underlain by a granitic intrusive related to the Coast Intrusions which has in turn been intruded by a small stock of Tertiary syenite. Overlying the intrusives, near the north end of the property, are extensive plateau basalts of the Kamloops Group.
- (3) Detailed mapping has outlined a prominent north-trending, steeply dipping gossan zone averaging 25 to 30 metres wide and at least 250 metres long. This rusty zone which appears open to the north, consists of a highly altered, silicified, weakly pyritic rhyolitic breccia. Indications are that this zone is of epithermal (shallow) origin. Basaltic and/or andesitic rocks are found in abundance in the westernmost creek of the property.
- (4) Geochemical sampling indicates that the gossan zone is anomalous in gold, both in soils and rocks. Silt sampling in the westernmost creek returned definitely anomalous gold values and in one instance visible gold was panned from the stream sediment. All indications are that the gold observed from this creek is of a subangular nature which is highly suggestive of a very short transport distance and thus from a source within the property.
- (5) Two vein occurrences previously examined and worked to some extent are too small to be of economic potential and therefore are considered of low priority in future programmes.



HUNTINGTON RESOURCES INC.

LOCATION MAP

**BRETT CLAIMS**

VERNON MINING DIVISION, BRITISH COLUMBIA.

Technical Work by:  
Kerr, Dawson & Assoc. Ltd.

Date : Sept., 1984.

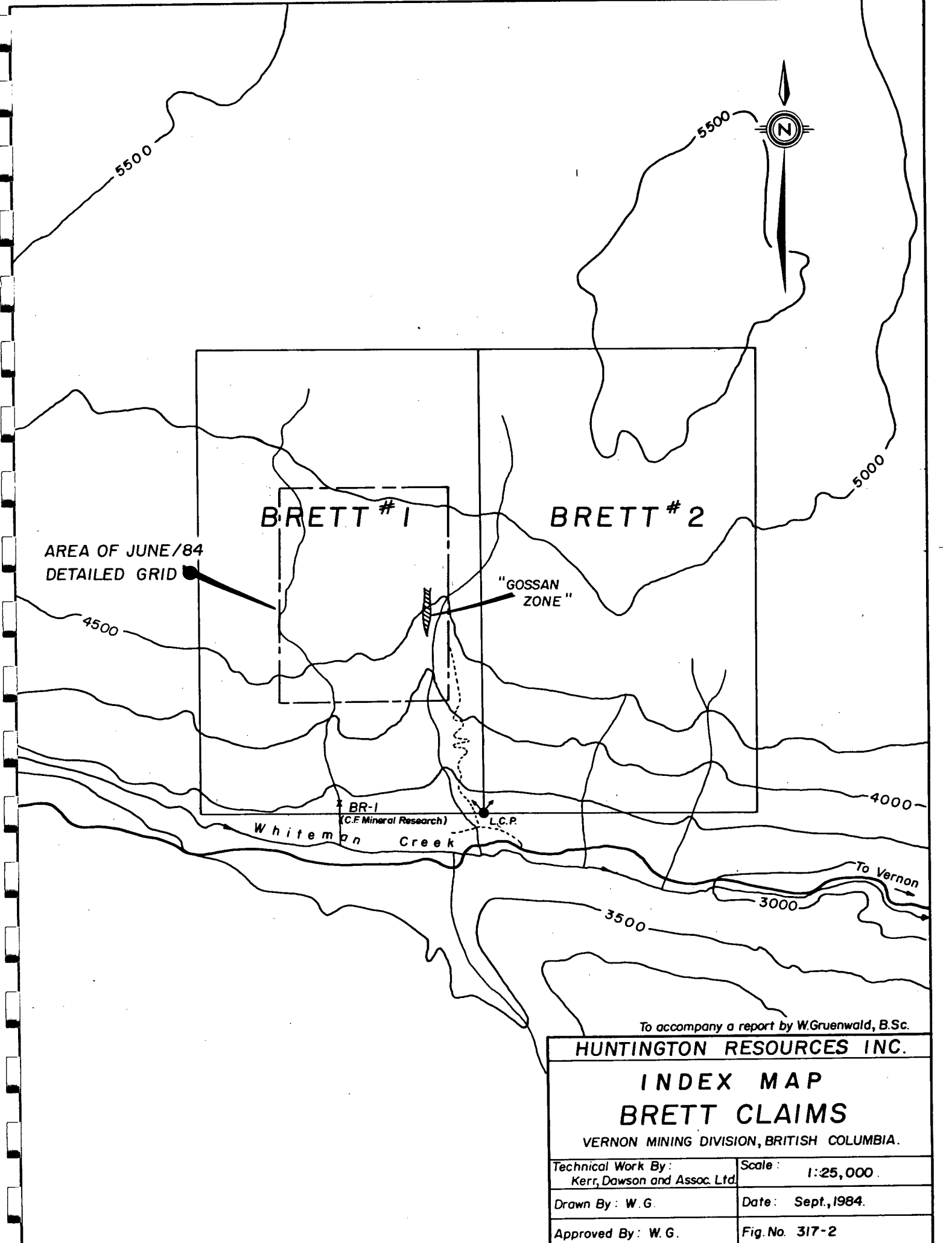
Scale : 1cm. = 87 km.

Dwg No. 317-1

LOCATION AND ACCESS

The Brett claims are located in south central British Columbia, approximately 27.2 kilometres west of the city of Vernon. The approximate geographic center of the claim block is at  $50^{\circ} 14.0'$  north latitude and  $119^{\circ} 39.0'$  west longitude on N.T.S. Map No. 82L/4.

The property is accessible from Vernon via Highway #97 by travelling 14 km. toward Kamloops and taking the Okanagan Lake road south for approximately 20 km. At this point a good logging road along Whiteman Creek provides access to the property after a distance of approximately 18 km. From here an old road and trail provide access to the center of the claim block (see Fig. 317-2).



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

**HUNTINGTON RESOURCES INC.**

**INDEX MAP  
BRETT CLAIMS**

VERNON MINING DIVISION, BRITISH COLUMBIA.

Technical Work By: Kerr, Dawson and Assoc. Ltd.	Scale: 1:25,000.
Drawn By: W.G.	Date: Sept., 1984.
Approved By: W.G.	Fig. No. 317-2

PHYSIOGRAPHY AND VEGETATION

The property is situated along the south facing slope of the Whiteman Creek valley. The southern portion of the claim block is situated on a steep southerly slope while the remainder of the property slopes gently to the south. Two southerly flowing creeks with moderately steep canyon walls transect the western portion of the property. Topographic relief is in the order of 2500 feet (~760 m.) ranging from 3200 feet (~975 m.) at the Legal Corner Post (L.C.P.) to 5700 feet (~1738 m.) in the northeastern portion of the property.

The majority of the property is forested with moderate to dense stands of fir and pine with sporadic deciduous growth. Significant portions of the property, especially the southern half, are relatively open with well-spaced large fir trees and grassy meadows.



PROPERTY

The property consists of two contiguous Modified Grid System claims comprising a total of 30 units. Claim details are as follows:

<u>Claim Name</u>	<u>Mining Division</u>	<u>Record No.</u>	<u>Tag No.</u>	<u>No. of Units</u>	<u>Expiry Date</u>
Brett #1	Vernon	1550	87964	15	July 19, 1984
Brett #2	Vernon	1551	87965	15	July 19, 1984

The registered owner of the Brett claims is Huntington Resources Inc. of Vancouver, B. C.

PREVIOUS EXPLORATION

The earliest record of work carried out on the property was by a Mr. A. Brewer of Vernon, B. C. in 1939. During that time, minor prospecting and hand trenching was carried out on two vein occurrences.

In 1975, a bulldozer was used to construct a road to these vein occurrences, however, it was not completed due to the steep nature of the terrain.

Huntington Resources Inc. acquired the property in 1983 and retained C. F. Mineral Research Ltd. of Kelowna to carry out a preliminary heavy mineral silt sampling investigation. The results of this investigation revealed subangular to angular gold in sample BR-1 found near the mouth of the westernmost creek on the property.

An examination of the property carried out by J. M. Dawson, P.Eng. in November, 1983, represents the most recent work carried out on the Brett claims aside from the programme of 1984.

GEOLOGY

According to the Geological Survey of Canada (G.S.C. Memoir 296), the Brett claims are underlain in part by granitic rocks of the Okanagan Batholith. This intrusive body is considered to have been emplaced at the time of the Coast Intrusions, namely, middle to upper Mesozoic. Intruding these rocks is a small syenitic stock of Tertiary age. Basaltic rocks of the Kamloops Group (Miocene) are mapped as overlying these granitic rocks in the northern portion of the property.

On a local scale, the rocks of the Okanagan Batholith are quite variable in both composition and texture. These rocks, found in the southeast portion of the detailed grid and eastward, are represented by medium to locally coarse grained gray to greenish hornblende diorite (Unit 1, Fig. 317-3). In several areas the intrusive is basic enough in composition to be considered a gabbro. These local variations in composition are believed to be in part due to the assimilation of xenoliths and roof pendants of Nicola volcanic (?) rocks. Pegmatitic dykes consisting of coarse grained potassium-feldspar and quartz were observed in several areas of the dioritic intrusive. Alteration of the dioritic intrusive is weak to moderate consisting of epidote and chlorite minerals.

No evidence of the pinkish syenite mapped by the G.S.C. was observed in the grid area, however, an abundance of alkaline intrusive float was present in the easternmost creek of the property at sample location BWSL-5.

Found immediately west of the dioritic intrusive is a very prominent northerly trending "gossan" zone. The intensely limonitic (rusty) material consists of a fine grained, pale gray to buff breccia of rhyolitic (?) origin (Unit 2). This breccia has been argillically

altered, bleached and variable silicified. Quartz veinlets and hairline quartz fracture fillings pervade the rock and in places could be considered a weak stockwork. Drusy cavities in veinlets and between breccia fragments are common suggesting that the breccia was formed under epithermal (shallow) conditions. The texture and composition of the original rock that comprised the breccia has essentially been obliterated, however, a few "ghost" images of what once may have been a fine grained feldspar porphyry or felsic volcanic were observed.

The breccia zone is generally highly fractured and weathered with the fractures being invariably quite limonitic. The majority of fracture attitudes indicate a strong north-south strike ( $350^{\circ}$  to  $010^{\circ}$ ) and a steep dip ( $> 45^{\circ}$ ) to both the east and west. The contact between the breccia zone and the diorite to the east was not directly observed, however, it is thought that a north trending fault contact (creek valley?) is present.

Mapping, to date, indicates that the breccia zone extends from L-1S to at least 1+50N, giving the zone a length of at least 250 metres. Outcrops and float of similar limonitic material were observed to L-3N suggesting a considerably greater length. In the area of L-1S, the breccia zone appears to pinch out, however, it would appear that from the above observations the breccia zone is open to the north. With the exception of the southern "pinching out" of the breccia zone, the width of the zone ranges from 20 to 50 metres with the average being somewhere around 25 to 30 metres.

Found along the west and in possible fault contact with the breccia zone is a pale green-gray, fine to medium grained feldspar<sup>+</sup>hornblende porphyry (Unit 3). This rock displays a blocky habit as opposed to the adjacent deeply weathered and fractured gossan material. Drusy cavities and veinlets are relatively common and may be related to the once active hydrothermal system in the adjacent breccia. A distinct contact between this unit and the breccia zone indicated a strike of due north and a dip of  $66^{\circ}$  to the west. This attitude is consistent with that of the

primary fracturing in the bordering breccia zone. The feldspar-hornblende porphyry is interpreted to parallel the breccia zone and to be in the range of 50 metres <sup>±</sup> wide (see Fig. 317-3). Extensive, though probably thin overburden masks much of the area west of the breccia zone and north of L-3S and therefore makes geological interpretations beyond the immediate area of the gossan zone difficult.

Immediately east of the breccia zone on L-1+50N and extending northerly are outcrops of dark green, fine grained, chloritic mafic volcanic rocks (Unit 4). These and several smaller outcrops found in the northern portion of the grid are considered to be part of the overlying basaltic rocks of the Kamloops Group. Two small creek outcrops near the west end of L-0 consist of felsic fragmental rocks. For the present, these will be classified as part of the "Unit 4" rocks.

South of L-3S and along both sides of the western creek valley are abundant large outcrops of massive, dark green, fine grained basaltic and andesitic volcanic rocks. Downstream of these outcrops, in the area of sample BWSL-2, the volcanics show a distinct amygdaloidal texture indicative of volcanic flow rocks. For the present, these rocks are considered part of the Kamloops Group (Unit 4); however, association with the older Nicola volcanics is possible. In several areas of the lower portion of this creek the volcanics are locally sheared and weakly limonitic. The anomalous levels of gold in stream sediments from this creek will definitely warrant detailed mapping and sampling in any further programmes.

### MINERALIZATION

The dioritic/gabbroic rocks of the Okanagan Batholith (Unit 1) generally contain minor disseminated pyrite along with locally high concentrations of magnetite. A 4 to 10 cm. wide pegmatite vein (BWR-20) contained traces of malachite and was found to be anomalous in silver. Also hosted by the intrusive are two quartz vein occurrences (see Fig. 317-3) which were the focus of exploration in the past. These vein occurrences, that range from 13 to 45 cm. in width, contain scattered pyrite, galena and chalcopryrite. Values as high as 0.98 oz. Au and 5.5 oz. Ag per ton were reportedly returned from one of these vein occurrences.

The gossan or breccia zone (Unit 2) is variably mineralized with finely disseminated pyrite (1 - 3%). The oxidation of this pyrite has produced the prominent yellow-brown coloration.

The feldspar  $\pm$  hornblende porphyry (Unit 3) and the basaltic/andesitic rocks (Unit 4) are generally barren, with the exception of minor disseminated iron sulphides and magnetite.

GEOCHEMISTRY

During June, 1984, a chain and compass grid totalling 15 kilometres was established over the central portion of the Brett 1 claim. Soil samples were collected from the grid at spacings of 25 or 50 metres depending on the detail required. The closest sample spacing was utilized over and around the gossan zone area. All soils were collected from the "B" horizon whenever possible, or "talus fines" and placed in kraft envelopes labelled with the appropriate grid co-ordinates. In addition, rock chip samples and stream sediment samples were also collected. The samples were subsequently boxed and shipped to Acme Analytical Laboratories in Vancouver for analysis. A total of 407 soil, 21 silt, and 25 rock samples were collected and submitted for analysis.

After having been dried, the soil and silt samples were sieved to obtain a -100 mesh fraction. Rock chip samples were pulverized to the appropriate mesh size. The soil and silt samples were analyzed for gold and silver. Sample analysis was as follows:

<u>Element</u>	<u>Digestion</u>	<u>Determination</u>
Gold	A 10 gm. sample is ignited, leached by hot aqua regia and extracted 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 for silver in parts per million (ppm). The detection limits of gold and silver are 5 ppb and 0.1 ppm respectively.

A statistical analysis of the gold values for the soils and silts was carried out with the following categories being derived: (see Fig. 317-4)

	<u>Gold (ppb)</u>
Mean ( $\bar{x}$ )	10 ppb
Standard Deviation (s)	15 ppb
Background	< 10 ppb
Possibly Anomalous	10-25 ppb
Probably Anomalous	26-40 ppb
Definitely Anomalous	> 40 ppb

In applying the above geochemical categories to the metal values obtained, the following observations and conclusions are made: (see Fig. 317-4)

- range in gold values 5 to 410 ppb (soils); 5 to 90 ppb (rocks).
- definite association of anomalous gold values with gossan zone; in fact 50% of the soils in the definitely anomalous category are found associated with gossan zone.
- highest geochemical value in soils (410 ppb) found near west end of L-2S - no outcrops nearby except downstream in western creek.
- scattered anomalous values found outside of gossan zone; difficult to interpret due to lack of rock exposure - additional fill-in sampling may prove useful.
- rock sampling produced only a few anomalous gold values all of which are associated with gossan zone.
- silver values in rocks are low except for sample BWR-20 - small malachite stained pegmatite dyke in diorite (Unit 1) - low priority.
- silt sampling returned generally background values except in the westernmost creek where anomalous silts found below detailed grid to valley bottom (Whiteman Creek).
- visible gold panned at sample site BSL-15 (80 ppb); panning produced small, subangular grains of gold consistent with the results obtained by C. F. Mineral Research in the same locality (sample BR-1, 1983).



- visible, well flattened gold panned at sample BWSL-6; from old paleochannel on south side of Whiteman Creek appears unrelated to gold observed in creek on Brett claims.

In summary, the work to date has indicated that: (1) the gossan (breccia) zone is a distinct structural feature with anomalous gold values and (2) anomalous gold values are associated with the westernmost creek valley. The fact that visible, angular gold was panned at sample BSL-15, along with the C. F. Mineral Research data strongly suggests that a zone(s) of precious metal mineralization exists on the lower portion of the Brett claims.

CONCLUSIONS AND RECOMMENDATIONS

The results of the work carried out to date on the Brett claims are very encouraging. Geological mapping has outlined a major northerly trending breccia zone that is in excess of 250 metres in length. Geochemical evidence indicates that this breccia zone is definitely anomalous in gold. Other anomalous gold values were found west of the gossan zone, the most significant of which occur in and along the westernmost creek valley of the property. The presence of visible angular gold (panned) in one of the anomalous silt samples, combined with the findings of C. F. Mineral Research in the same area, is strong evidence for an as yet undiscovered area of gold mineralization on the Brett claims.

Further work is most definitely warranted and should concentrate on expanding the detailed grid south toward Whiteman Creek. Detailed silt sampling and panning of all creeks should be carried out in addition to prospecting, sampling and mapping outcrops within any new grid area.

Any significant geochemical anomalies or mineralization should be followed up by backhoe trenching. Favourable results from such programmes should be tested at depth by diamond drilling.

Respectfully submitted by:

KERR, DAWSON & ASSOCIATES LTD.



*W. Gruenwald*  
W. Gruenwald, B. Sc., Geologist

Kamloops, B. C.

September 28, 1984

APPENDIX A

ROCK SAMPLE DESCRIPTIONS

AND

GEOCHEMICAL RESULTS

ROCK SAMPLE DESCRIPTIONS

<u>Sample No.</u>	<u>Description</u>	<u>Assay</u>	
		<u>Ag (ppm)</u>	<u>Au (ppb)</u>
BWR-1	Med. grained, greenish hornblende diorite (?)	9.4	30
BWR-2	Talus float of limonitic breccia	0.7	5
BWR-3	Limonitic shear zone in andesitic volcanic	0.9	15
BWR-4	Limonitic diorite, epidotized, chloritized	1.5	5
BWR-5	Shear zone in bleached and altered diorite	0.9	5
BWR-6	Chip sample across 1 m. of buff, highly altered volcanic	1.6	5
BWR-7	Chip sample across 1 m. of highly altered volcanic, very limonitic	0.8	5
BWR-8	Pale green-gray feldspar porphyry	0.4	5
BWR-9	Yellow-brown, bleached breccia (gossan)	0.8	5
BWR-10	Highly limonitic, silicified breccia	1.2	5
BWR-11	Chip sample across 1 m. of very altered, limonitic, bleached gossan	1.1	5
BWR-12	Chip sample across 1 m. - gossan zone	1.2	5
BWR-13	Well silicified breccia with drusy cavities	1.7	90 *
BWR-14	Pale gray-green fine grained volcaniclastic	1.7	45 *
BWR-15	Limonitic, silicified breccia zone material	1.5	5
BWR-16	Highly silicified breccia with weak stockwork and drusy cavities	0.6	35 *
BWR-17	Sample of gouge zone from shear in highly bleached breccia zone	1.6	5
BWR-18	Limonitic, altered zone, possible breccia	0.4	5
BWR-19	Chip sample of gabbroic section (xenolith?)	1.3	5
BWR-20	Chip sample across 8 cm. pegmatite dyke with minor malachite	7.3	5
BWR-21	Green-gray feldspar <sup>+</sup> hornblende porphyry	0.4	5
BWR-22	Felsic fragmental volcanic with ~2% disseminated pyrite	0.2	10
BWR-23	Limonitic, decayed felsic volcanic	0.1	5
BWR-24	Float sample of pyritic altered pale green volcanic	0.4	5
BWR-25	Gabbroic rock with narrow pegmatitic veins	0.2	5

### GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE TYPE : P1-11 SOIL P12-SILT

AUX - 10 GM, IGNITED, HOT AQUA REGIA LEACHED, MIBK EXTRACTION, AA ANALYSIS.

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

KERR DAWSON PROJECT# 317 FILE# 84-1237

PAGE# 1

SAMPLE	AUX PPE
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B 1+50N 0+75E	5
B 1+50N 1+00E	5
B 1+50N 1+25E	5
B 1+50N 1+50E	5
B 1+50N 1+75E	5
B 1+50N 2+00E	5
B 1+50N 2+25E	5
B 1+50N 2+50E	5
B 1+50N 2+75E	5
B 1+50N 3+00E	5
B 1+50N 3+25E	5
B 1+50N 3+50E	155
B 1+50N 3+75E	55

SAMPLE	AUX PPB
B 1+50N 4+00E	5
B 1+00N 6+00W	5
B 1+00N 5+50W	5
B 1+00N 5+00W	5
B 1+00N 4+50W	5
B 1+00N 4+00W	5
B 1+00N 3+50W	5
B 1+00N 3+00W	5
B 1+00N 2+50W	5
B 1+00N 2+00W	5
B 1+00N 1+50W	255
B 1+00N 1+00W	5
B 1+00N 0+75W	5
B 1+00N 0+50W	5
B 1+00N 0+25W	5
B 1+00N 0+00E	5
B 1+00N 0+25E	5
B 1+00N 0+50E	5
B 1+00N 0+75E	5
B 1+00N 1+00E	35
B 1+00N 1+25E	5
B 1+00N 1+50E	5
B 1+00N 1+75E	5
B 1+00N 2+00E	5
B 1+00N 2+25E	5
B 1+00N 2+50E	5
B 1+00N 2+75E	5
B 1+00N 3+00E	5
B 1+00N 3+25E	5
B 1+00N 3+50E	5
B 1+00N 3+75E	5
B 1+00N 4+00E	5
B 0+50N 1+00W	5
B 0+50N 0+75W	5
B 0+50N 0+50W	5
B 0+50N 0+25W	5
B 0+50N 0+00E	5

SAMPLE	AU*
	PPB
B 0+50N 0+25E	5
B 0+50N 0+50E	5
B 0+50N 0+75E	5
B 0+50N 1+00E	5
B 0+50N 1+25E	5
B 0+50N 1+50E	5
B 0+50N 1+75E	15
B 0+50N 2+00E	5
B 0+50N 2+25E	5
B 0+50N 2+50E	5
B 0+50N 2+75E	205
B 0+50N 3+00E	5
B 0+50N 3+25E	5
B 0+50N 3+50E	5
B 0+50N 3+75E	5
B 0+50N 4+00E	5
B 0+00N 6+00W	5
B 0+00N 5+50W	5
B 0+00N 5+00W	5
B 0+00N 4+50W	5
B 0+00N 4+00W	5
B 0+00N 3+50W	35
B 0+00N 3+00W	15
B 0+00N 2+50W	5
B 0+00N 2+00W	5
B 0+00N 1+50W	5
B 0+00N 1+00W	5
B 0+00N 0+75W	5
B 0+00N 0+50W	5
B 0+00N 0+25W	5
B 0+00N 0+00E	5
B 0+00N 0+25E	5
B 0+00N 0+50E	5
B 0+00N 0+75E	35
B 0+00N 1+00E	5
B 0+00N 1+25E	5
B 0+00N 1+50E	5

SAMPLE	AU*
	PPB
B 0+00N 1+75E	5
B 0+00N 2+00E	30
B 0+00N 2+25E	5
B 0+00N 2+50E	25
B 0+00N 2+75E	50
B 0+00N 3+00E	100
B 0+00N 3+25E	5
B 0+50S 1+00W	5
B 0+50S 0+75W	5
B 0+50S 0+50W	5
B 0+50S 0+25W	5
B 0+50S 0+00E	5
B 0+50S 0+25E	5
B 0+50S 0+50E	5
B 0+50S 0+75E	120
B 0+50S 1+00E	5
B 0+50S 1+25E	5
B 0+50S 1+50E	5
B 0+50S 1+75E	5
B 0+50S 2+00E	10
B 0+50S 2+25E	5
B 0+50S 2+50E	30
B 0+50S 2+75E	5
B 0+50S 3+00E	5
B 0+50S 3+50E	5
B 0+50S 3+75E	10
B 0+50S 4+00E	5
B 1+00S 5+00W	5
B 1+00S 4+50W	5
B 1+00S 4+00W	5
B 1+00S 3+50W	5
B 1+00S 3+00W	5
B 1+00S 2+50W	5
B 1+00S 2+00W	5
B 1+00S 1+50W	5
B 1+00S 1+00W	5
B 1+00S 0+75W	5

SAMPLE	AU*
	PPE
B 1+00S 0+50W	5
B 1+00S 0+25W	5
B 1+00S 0+00E	5
B 1+00S 0+25E	5
B 1+00S 0+50E	5
B 1+00S 0+75E	5
B 1+00S 1+00E	5
B 1+00S 1+25E	5
B 1+00S 1+50E	35
B 1+00S 1+75E	5
B 1+00S 2+00E	5
B 1+00S 2+25E	5
B 1+00S 2+50E	10
B 1+00S 2+75E	5
B 1+00S 3+00E	5
B 1+00S 3+25E	5
B 1+00S 3+50E	5
B 1+00S 3+75E	5
B 1+00S 4+00E	5
B 1+50S 1+00W	5
B 1+50S 0+75W	5
B 1+50S 0+50W	5
B 1+50S 0+25W	5
B 1+50S 0+00E	5
B 1+50S 0+25E	5
B 1+50S 0+50E	5
B 1+50S 0+75E	5
B 1+50S 1+00E	5
B 1+50S 1+25E	5
B 1+50S 1+50E	5
B 1+50S 1+75E	5
B 1+50S 2+00E	5
B 1+50S 2+25E	5
B 1+50S 2+50E	5
B 1+50S 2+75E	5
B 1+50S 3+00E	5
B 1+50S 3+25E	5

SAMPLE	AU*
	PPB
B 1+50S 3+50E	5
B 1+50S 3+75E	5
B 1+50S 4+00E	5
B 2+00S 5+00W	5
B 2+00S 4+50W	410
B 2+00S 4+00W	5
B 2+00S 3+50W	25
B 2+00S 3+00W	5
B 2+00S 2+50W	5
B 2+00S 2+00W	5
B 2+00S 1+50W	5
B 2+00S 1+00W	5
B 2+00S 0+50W	5
B 2+00S 0+00E	5
B 2+00S 0+50E	5
B 2+00S 1+00E	5
B 2+00S 1+50E	50
B 2+00S 2+00E	5
B 2+00S 2+50E	5
B 2+00S 3+00E	5
B 2+00S 3+50E	5
B 3+00S 5+00W	5
B 3+00S 4+50W	5
B 3+00S 4+00W	5
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B 3+00S 3+00W	5
B 3+00S 2+50W	5
B 3+00S 2+00W	5
B 3+00S 1+50W	5
B 3+00S 1+00W	5
B 3+00S 0+50W	5
B 3+00S 0+00E	5
B 3+00S 0+50E	105
B 3+00S 1+00E	5
B 3+00S 1+50E	5
B 3+00S 2+00E	5
B 3+00S 2+50E	5

SAMPLE	AU*
	PPB
B 3+00S 3+00E	5
B 3+00S 3+50E	5
B 3+00S 4+00E	5
B 4+00S 5+00W	120
B 4+00S 4+50W	5
B 4+00S 4+00W	5
B 4+00S 3+50W	5
B 4+00S 3+00W	5
B 4+00S 2+50W	5
B 4+00S 2+00W	5
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B 5+00S 2+00W	5
B 5+00S 1+50W	190
B 5+00S 1+00W	5
B 5+00S 0+50W	5
B 5+00S 0+00E	5
B 5+00S 0+50E	5
B 5+00S 1+00E	5
B 5+00S 1+50E	5
B 5+00S 2+50E	5

SAMPLE	AU* PPB
B SL-1	5
B SL-2	5
B SL-3	5
B SL-4	5
B SL-5	5
B SL-6	5
B SL-7	5
B SL-8	5
B SL-9	5
B SL-10	5
B SL-11	5
B SL-12	15
B SL-13	5
B SL-14	5
B SL-15	80
B WSL-1	5
B WSL-2	275
B WSL-3	45
B WSL-4	25
B WSL-5	5
B WSL-6	5





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

DATE RECEIVED JUNE 22 1984

DATE REPORTS MAILED *June 26/84*

## GEOCHEMICAL ASSAY CERTIFICATE

A .50 GM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL:HNO<sub>3</sub>:H<sub>2</sub>O AT 90 DEG. C. FOR 1 HOUR.  
THE SAMPLE IS DILUTED TO 10 MLS WITH WATER. ELEMENTS ANALYSED BY AA : AG AU\*  
SAMPLE TYPE : ROCK - CRUSHED AND PULVERIZED TO -100 MESH.  
AU\* - 10 GM, IGNITED, HOT AQUA REGIA LEACHED, MIBK EXTRACTION, AA ANALYSIS.

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

KERR DAWSON PROJECT# 317 FILE# 84-1227

PAGE# 1

SAMPLE	AG PFM	AU* PPB
BWR-4	1.5	5
BWR-5	.9	5
BWR-6	1.6	5
BWR-7	.8	5
BWR-8	.4	5
BWR-9	.8	5
BWR-10	1.2	5
BWR-11	1.1	5
BWR-12	1.2	5
BWR-13	1.7	90
BWR-14	1.7	45
BWR-15	1.5	5
BWR-16	.6	35
BWR-17	1.6	5
BWR-18	.4	5
BWR-19	1.3	5
BWR-19A	1.2	5
BWR-20	7.3	5
BWR-21	.4	5
BWR-22	.2	10
BWR-23	.1	5
BWR-24	.4	5
BWR-25	.2	5

APPENDIX B

PERSONNEL

PERSONNEL

FIELD:

W. Gruenwald, B. Sc.	
June 18 - 21, 1984	2.5 days
R. Henderson, Senior Assistant	
June 12 - 21, 1984	10 days
J. Whist, Assistant	
June 12 - 21, 1984	10 days
B. Cross, Assistant	
June 19 - 21, 1984	2.5 days

OFFICE:

W. Gruenwald, B. Sc.	
June 4, 10, 15, 24, 25, 27, 28	
July 1, 2, 4	
Sept. 12, 25, 26, 27, 28, 29	
October 1, 2, 3, 1984	6 days

APPENDIX C

STATEMENT OF EXPENDITURES

COST STATEMENT

LABOUR:

W. Gruenwald, B. Sc. 4 3/4 days @ \$300/day	\$ 1,425.00	
R. Henderson, Senior Assistant 10 days @ \$180/day	1,800.00	
J. Whist, Assistant 10 days @ \$140/day	1,400.00	
B. Cross, Assistant 2½ days @ \$170/day	<u>425.00</u>	
		\$ 5,050.00

EXPENSES & DISBURSEMENTS:

(a) Geochemical Costs (Acme)	\$ 2,170.05	
(b) Truck Costs: 10 days @ \$40/day 700 mi. @ \$.40/mi.	680.00	
(c) Accomodation, meals	721.55	
(d) Equipment Rental: 10 days @ \$15/day	150.00	
(e) Freight, Shipping samples	40.55	
(f) Supplies, (flagging, sample bags, topofil, thread, field books, misc.)	171.50	
(g) Map preparation, sepias, mylar, xeroxing, secretarial, phone	<u>73.68</u>	
		<u>4,007.33</u>

<u>TOTAL TO JUNE 30, 1984 - Statement of Exploration and Development filed on July 5, 1984.</u>	<u>\$9,057.33</u>
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ADDITIONAL EXPENDITURES: REPORT COMPILATION FOR  
ASSESSMENT PURPOSES

LABOUR:

W. Gruenwald, B. Sc. 4 days @ \$300/day	1,200.00
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EXPENSES & DISBURSEMENTS:

(a) Map preparation, sepias, printing, report binding, xeroxing, secretarial, Loomis	<u>256.31</u>
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<u>TOTAL COST</u>	<u>\$ 10,513.64</u>
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APPENDIX D

REFERENCES

REFERENCES

- Jones, A. G. (1957) Vernon Map Area, B. C.  
G.S.C. Memoir 296
- Fipke, C. C. (1983) Report on Heavy Mineral Sampling  
on the Brett 1 and Brett 2 Claims:  
Private Report to Huntington  
Resources Inc.
- Wilmot, A. D. (1983) Report on the Brett 1 and 2  
Mineral Claims: Private  
Report to Huntington Resources Inc.
- Dawson, J. M. (1983) Report on the Brett Claims,  
Vernon Mining Division, B. C.
- Brett, C. (1984) Personal Communication
- Cook, M. (1984) Personal Communication



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

CERTIFICATE

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

- (1) I am a geologist residing at #94 - 137 McGill Road, Kamloops, British Columbia, and employed by Kerr, Dawson & Associates Ltd., of Suite #206 - 310 Nicola Street, Kamloops, B. C.
- (2) I am a graduate of the University of British Columbia, B. Sc. (1972), and a fellow of the Geological Association of Canada. I have practised my profession for 12 years.
- (3) I am the author of this report which describes the results of the geochemical and geological exploration programme on the Brett claims, Vernon Mining Division, British Columbia.

KERR, DAWSON AND ASSOCIATES LTD.



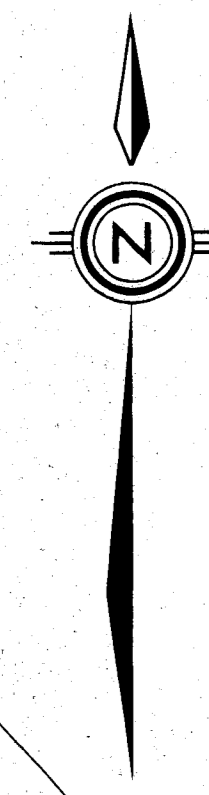
Werner Gruenwald, B. Sc.  
GEOLOGIST

KAMLOOPS, B. C.

September 28, 1984

APPENDIX F

MAPS



IDEALIZED CLAIM BOUNDARY

BRETT 1 BRETT 2

GEOLOGICAL BRANCH ASSESSMENT REPORT

13469

LEGEND

- 3500 — TOPOGRAPHIC CONTOUR (IN FEET (A.S.L.))
- CREEK
- == ROAD
- BSL-1 @ SILT SAMPLE LOCATION
- BWSL-1 — SOIL SAMPLE LOCATION
- - - CLAIM BOUNDARY
- BSL-1 \* ROCK SAMPLE LOCATION (SEE APPENDIX FOR DESCRIPTION)
- OUTCROP OUTLINE
- 30° GEOLOGICAL CONTACT
- FAULT/SHEAR ZONE
- TALLS AREA

- MIOCENE - KAMLOOPS GROUP
- 4 DARK GREEN, FINE GRAINED MAFIC VOLCANICS; BASALT, ANDESITE, AMPHIBOLICAL VARIETIES; INCLUDES MINOR FELSIC VOLCANICS
- 3 GREEN - GRAY, FINE TO MEDIUM GRAINED, BLOCKY FELDSPAR + HORNBLENDE PORPHYRY
- 2 LIMONITIC, PALE GRAY TO BUFF, SLICIFIED AND ARGILLICALLY ALTERED RHYOLITIC BRECCIA
- JURASSIC AND/OR CRETACEOUS - COAST INTRUSIONS
- GRAY TO GREENISH, MEDIUM TO COARSE GRAINED HORNBLENDE DIORITE - LOCALLY GABBROIC MINOR PEGMATITE VEINING

HUNTINGTON RESOURCES INC.

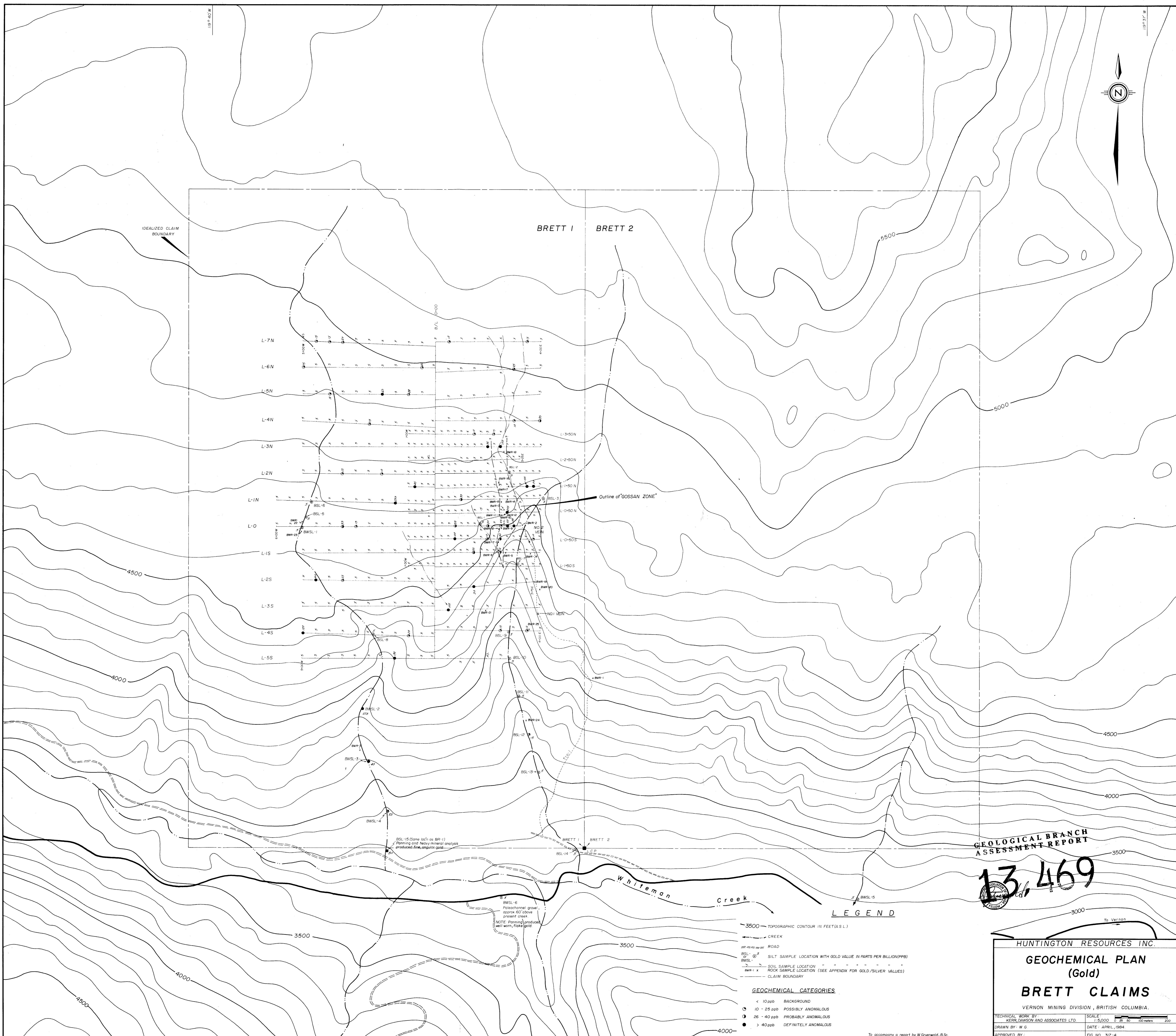
GEOLOGICAL PLAN BRETT CLAIMS

VERNON MINING DIVISION, BRITISH COLUMBIA.

TECHNICAL WORK BY: KERR, DAWSON AND ASSOCIATES LTD.  
 DRAWN BY: W.G.  
 APPROVED BY: W.G.

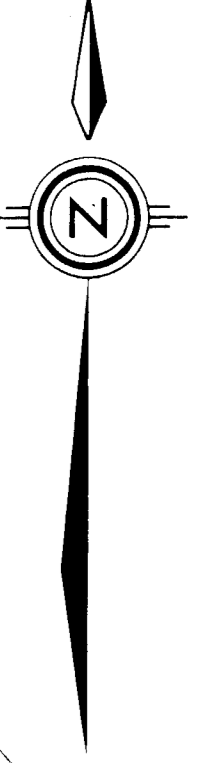
SCALE: 1:5,000 (0 25 50 100 meters 250)  
 DATE: APRIL, 1984  
 FIG. NO. 317-3

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



IDEALIZED CLAIM BOUNDARY

BRETT 1 BRETT 2



Outline of GOSSAN ZONE

GEOLOGICAL BRANCH ASSESSMENT REPORT

13,469

LEGEND

- 3500 TOPOGRAPHIC CONTOUR IN FEET (A.S.L.)
- CREEK
- ROAD
- BSL - 0<sup>5</sup> SILT SAMPLE LOCATION WITH GOLD VALUE IN PARTS PER BILLION (PPB)
- BWSL - 0<sup>5</sup> SOIL SAMPLE LOCATION
- ROCK SAMPLE LOCATION (SEE APPENDIX FOR GOLD/SILVER VALUES)
- CLAIM BOUNDARY

GEOCHEMICAL CATEGORIES

- < 10 ppb BACKGROUND
- 10 - 25 ppb POSSIBLY ANOMALOUS
- 26 - 40 ppb PROBABLY ANOMALOUS
- > 40 ppb DEFINITELY ANOMALOUS

BSL-15 (Some loc<sup>5</sup> as BR-1)  
Panning and heavy mineral analysis produced fine, angular gold

BSL-6  
Paleochannel gravel, approx 80' above present creek  
NOTE: Panning produced well worn, flake gold

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

HUNTINGTON RESOURCES INC.

**GEOCHEMICAL PLAN (Gold)**

**BRETT CLAIMS**

VERNON MINING DIVISION, BRITISH COLUMBIA.

TECHNICAL WORK BY KERR OAKSON AND ASSOCIATES LTD.	SCALE 1:5,000
DRAWN BY: W.G.	DATE: APRIL, 1984
APPROVED BY:	FIG. NO. 317-4