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1992 GEOLOGICAL
AND GEOCHEMICAL REPORT
ON THE
BUCK 1-4 CLAIMS

Located on the Nechako Plateau
Omineca Mining Division
NTS 93F/3E
53° 12' North Latitude
125° 04' West Longitude

-prepared for-
WESTERN KELTIC MINES INC.

-prepared by-
David A. Caulfield, P.Geo.

September, 1992

22,569

GEOLOGICAL BRANCH
ASSESSMENT REPORT

1992 GEOLOGICAL AND GEOCHEMICAL REPORT ON THE BUCK 1-4 CLAIMS

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1.0 INTRODUCTION

The Buck property is located on the Nechako Plateau, approximately 120 kilometres southwest of Vanderhoof in central British Columbia. It is underlain by Hazelton Group volcanic and sedimentary rocks that have cut by Late Cretaceous Quanchus Intrusions. BP Minerals Ltd. carried out geological mapping, soil sampling and backhoe trenching on the property in 1982, identifying several strong zinc-arsenic-lead soil anomalies over an area of 900 metres by 3000 metres. Mineralization discovered by BP Minerals was insufficient to account for the soil geochemistry and the area was restaked as the Buck 1-4 claims in 1991.

Geological mapping, prospecting and geochemical sampling were carried out over the Buck property during June 1992. Equity Engineering Ltd. conducted this exploration program for Western Keltic Mines Inc. and has been retained to report on the fieldwork.

2.0 LIST OF CLAIMS

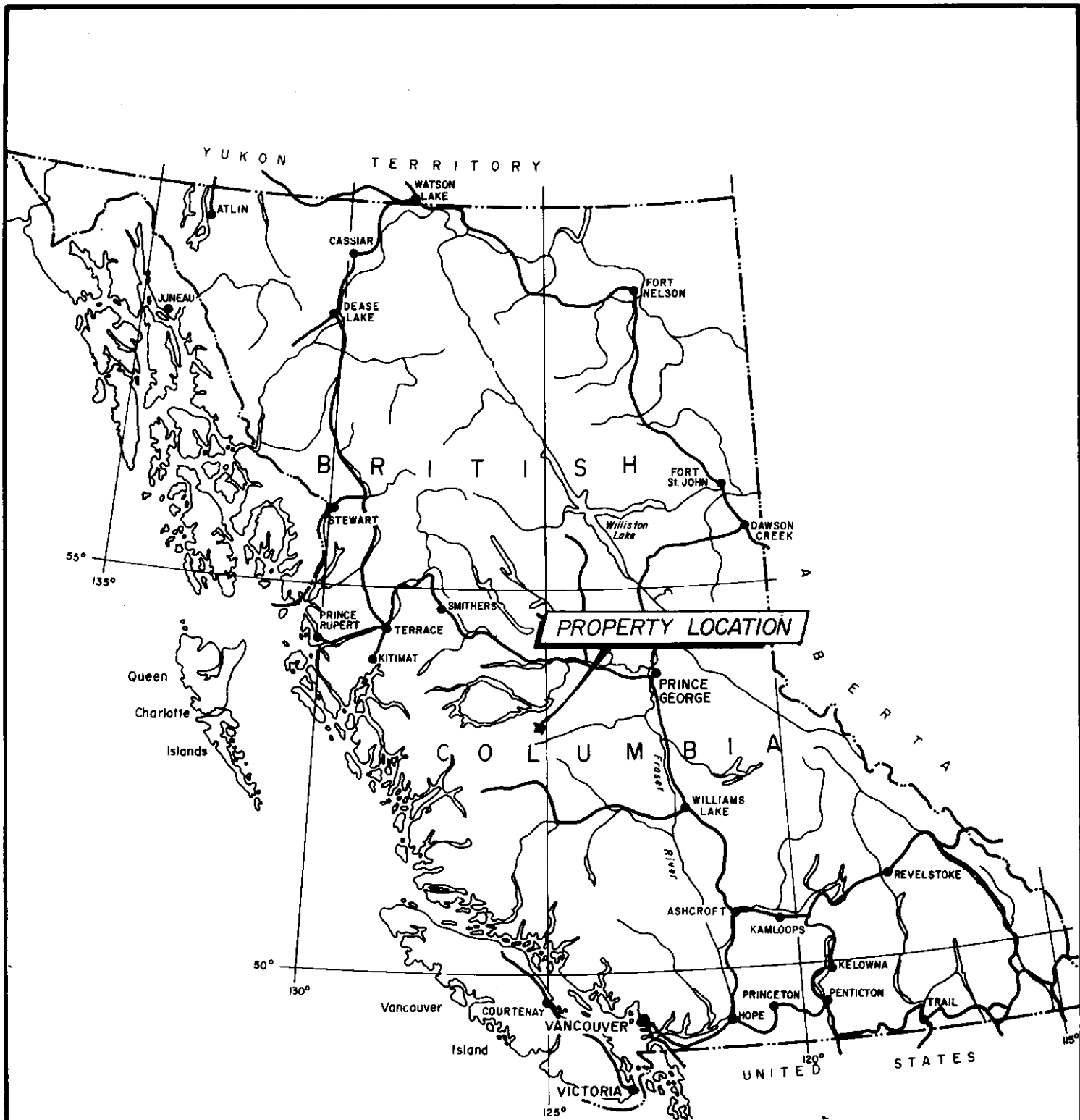
The Buck property comprises four contiguous claims totalling 80 claim units, located in the Omineca Mining Division (Figure 2). Records of the British Columbia Ministry of Energy, Mines and Petroleum Resources indicate that the Buck 1-4 claims are owned by Henry Awmack. Separate documents indicate that they are held under option by Western Keltic Mines Inc.. Claim data for the Buck property is summarized in Table 2.0.1.

TABLE 2.0.1
CLAIM DATA

Claim Name	Mineral Tenure No.	No. of Units	Record Date	Expiry Year
Buck 1	300581	20	June 23, 1991	1994*
Buck 2	300999	20	June 22, 1991	1994*
Buck 3	300582	20	June 23, 1991	1994*
Buck 4	300583	20	June 21, 1991	1994*
		80		

* Subject to approval of assessment work covered by this report.

The position of the legal corner posts for the Buck 1-4 claims has been verified by the author. Figure 2 shows the Buck 1 claim to partially overlap the previously staked Doe 1-3 claims. However, accurate location on the ground of the Initial Posts for the Doe 5-8 claims and Final Posts for the Doe 3-6 claims (Awmack, 1991) indicate that the Doe 1-3 claims actually lie entirely to the west of the Buck 1 claim and there is no overlap.



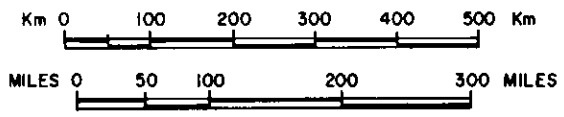
WESTERN KELTIC MINES INC.

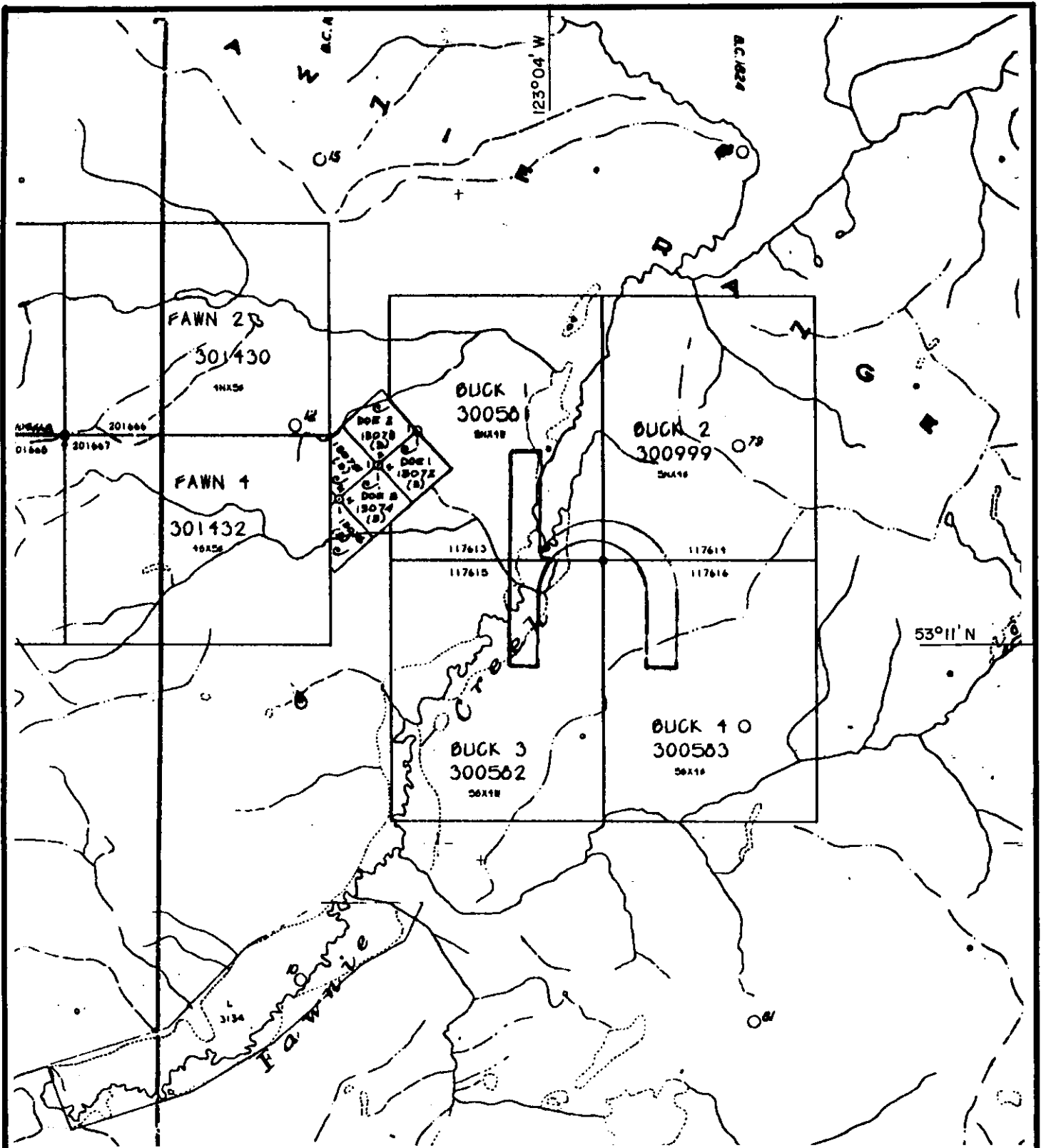
**BUCK 1-4 CLAIMS
LOCATION MAP**

BRITISH COLUMBIA

EQUITY ENGINEERING LTD.

DRAWN: J.J.E.	MINING DIV. OMINECA	FIGURE
N.T.S.: 93F/3E	SCALE: AS SHOWN	1
DATE: AUG., 1992	REVISED:	





WESTERN KELTIC MINES INC.		
BUCK 1-4 CLAIMS		
CLAIM MAP		
BRITISH COLUMBIA		
EQUITY ENGINEERING LTD.		
DRAWN: /J.J.E.	MINING DIV.: OMINECA	FIGURE
N.T.S.: 93F/3E	SCALE: 1:50000	2
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3.0 LOCATION, ACCESS AND GEOGRAPHY

The Buck property is situated on the Nechako Plateau of central British Columbia, approximately 120 kilometres southwest of Vanderhoof and 180 kilometres west of Quesnel (Figure 1). The claims are located within the Omineca Mining Division, centered at 53° 12' north latitude and 125° 04' west longitude.

The property is accessed by the Kluskus Forest Road, which reaches the northern boundary of the property 143 kilometres south of the Westar mill at Engen on Highway 16. The Kluskus road passes north-south through the middle of the Buck claims. Three logging clear-cuts within the property are serviced by good secondary roads, one of which carries on to the east as the access road to Granges' PEM prospect on Mount Davidson. The Kluskus-Malaput Forest Road, which joins with the Kluskus Forest Road one kilometre north of the Buck property, angles through the northwestern corner of the property, providing access on the western side of Fawnie Creek.

The claims straddle Fawnie Creek and cover rolling hills of the Fawnie Range on either side of it. Fawnie Creek forms a broad, swampy valley which trends north-northeasterly through the property. Upland surfaces are generally well drained with few lakes or marshes. Topography on the property is moderate, with elevations ranging from 1,020 metres on Fawnie Creek to over 1,400 metres at the top of the hill on the Buck 2 claim. Outcrop exposure is fairly good at higher elevations, but becomes increasingly masked by glacial till towards the valley bottoms. Overall, the property would average less than 5% outcrop. Road cuts along the Kluskus and Kluskus-Malaput roads expose up to 30 metres of glacial till.

The property is largely covered by spruce and lodgepole pine with a light undergrowth of huckleberry and alder. Approximately 15% of the property was clear-cut in the early 1980's, leaving logging slash with a light growth of shrubbery. The Fawnie Creek valley is swampy, covered by alder and grass. A recent fire traversed Fawnie Creek leaving tight tree cover in the valley bottom and along valley slopes. The Buck property is subject to a continental climatic regime, with warm summers and cold winters. Snowfall is moderate with an accumulation of one to two metres during the winter.

4.0 REGIONAL AND PROPERTY MINING HISTORY

4.1 Previous Work

The area around the Buck property received little exploration until the late 1960's, when Rio Tinto Canadian Exploration Ltd. carried out stream and lake sediment sampling surveys throughout

the Nechako Plateau, searching primarily for copper-molybdenum porphyry deposits (Hoffman, 1976). Follow-up work on one of their anomalies by Rio Canex (1969-71) and Granges Exploration Ltd./Cominco Ltd. (1976-present) led to the discovery in 1979 of the Capoose silver-lead-zinc deposit approximately ten kilometres northwest of the Buck property. Reserves at Capoose have been estimated at 20 million tonnes grading 48 g/tonne silver and 0.5 g/tonne gold (Schroeter and Panteleyev, 1986).

Following the recognition of a major silver resource at Capoose, BP Minerals Limited staked several other nearby high-priority silver-lead-zinc geochemical anomalies from Rio Canex's data. Their Range claims, which were staked by BP Minerals in 1981, received extensive exploration in 1982, including geological mapping, grid soil geochemistry and tractor trenching. A total of 710 soil samples were taken at 100 metre intervals from east-west soil lines which were subsequently tied into a 4.1 kilometre north-south baseline. These revealed a northeasterly trend of coincident zinc-arsenic-lead soil anomalies over an area of 900 by 2,400 metres, with maximum values of 10,620 ppm zinc, 920 ppm arsenic, 340 ppm lead and 508 ppm copper. Three mineralized zones were recognized, one of which was exposed by 550 metres of tractor trenching (Matysek and Smith, 1982).

Also in 1982, 76 soil samples were taken at 100 metre centres from the Rocks claim immediately west of the Range claim group. These samples returned maximum geochemical values of 745 ppm zinc, 390 ppm lead and 5.2 ppm silver, effectively extending the anomalous trend on the Range claims by 600 metres (Holt, 1982). No analyses were made for arsenic. The Rocks and Range claims were allowed to lapse and were re-staked as the Buck 1-4 claims in June 1991.

In 1991, Western Keltic Mines Inc. discovered significant epithermal mineralization associated with four strong east-west conductors on the Fawn property, which lies immediately west of the Buck claims (Awmack, 1991). These conductors, which coincide with arsenic-zinc-silver-lead soil anomalies, have been defined for up to 2,200 metres in strike length and remain open to the east and/or west. The Buck 1-4 claims were acquired by Western Keltic Mines Inc. for their epithermal potential, based upon geological and geochemical similarities to the Fawn property.

4.2 1992 Exploration Program

During June of 1992, Western Keltic Mines Inc. carried out a preliminary exploration program on the Buck property, consisting of geological mapping, prospecting and soil sampling. This program was designed to investigate and verify the BP Minerals soil anomalies, determine the style of mineralization and evaluate the property's potential for epithermal and volcanogenic massive sulphide mineralization. A total of 59 rock samples, 2 stream

sediment samples and 52 soil samples were taken.

Detailed geological mapping was carried out in two areas of anomalous soil geochemistry at a scale of 1:1,000 (Figures 6 and 7). Prospecting was directed at locating the sources of anomalous soil geochemistry, almost entirely on the Buck 2 claim. Rock samples are described in Appendix C, and analytical certificates are attached in Appendix D. Rock samples were analyzed geochemically for gold and either 32 or 9 elements by ICP. In the field, rock sample locations were marked by a metal tag and a combination of orange and blue flagging.

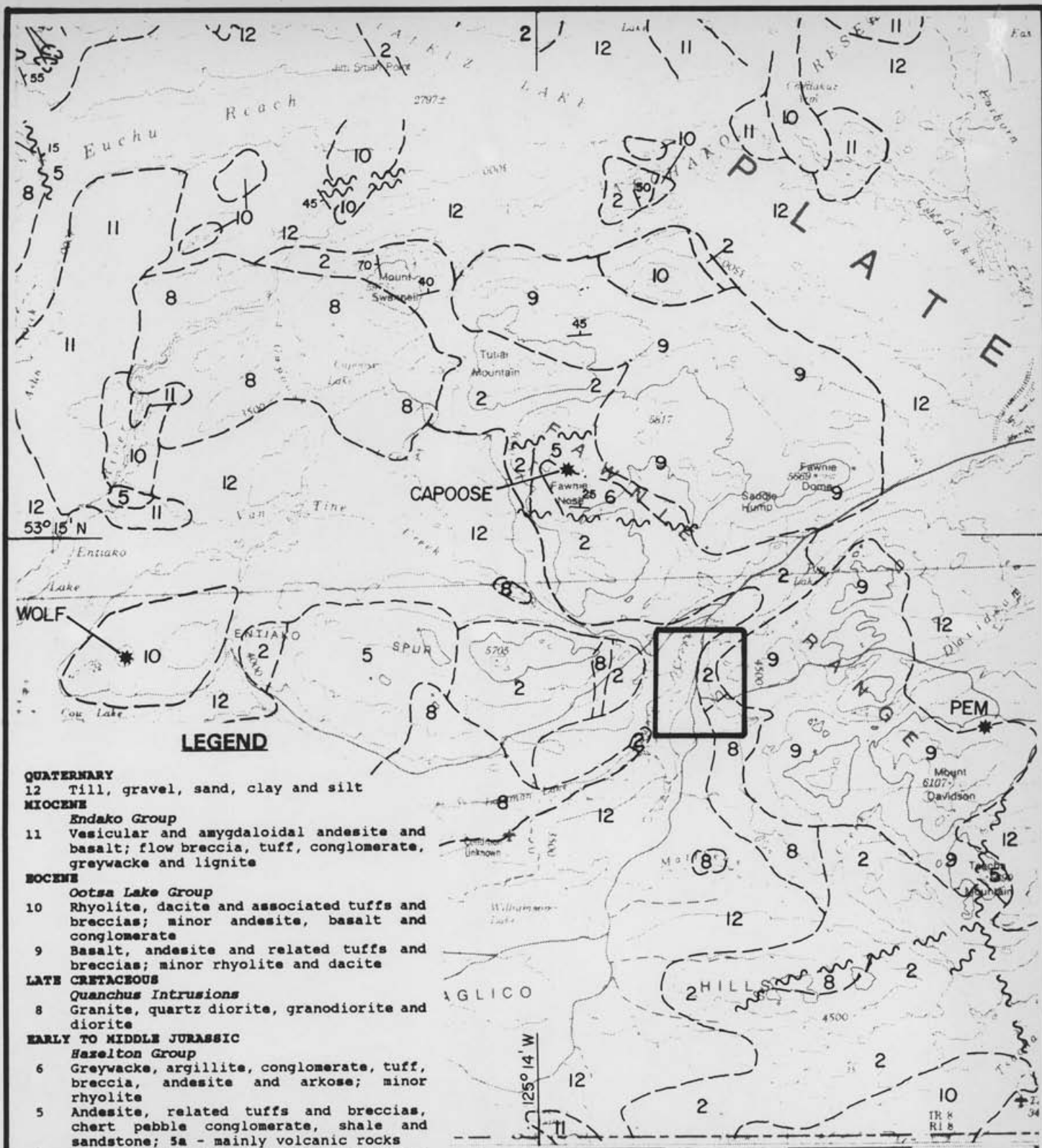
Selected lines of the 1982 BP Minerals soil grid were re-located and marked. Fifty-two soil samples were taken at BP Minerals grid locations, in order to verify BP Minerals' sampling and analyses (Appendix E). Wherever possible, soil samples were taken from the red-brown B horizon. Stations were marked by orange flagging and a tyvex tag. Two stream sediment samples were taken from silt accumulations in small streams.

5.0 REGIONAL GEOLOGY

Geological mapping in the area surrounding the Buck property is quite preliminary in nature (Figure 3). H. W. Tipper mapped the Nechako River map sheet from 1949 to 1952 at a scale of 1:253,440 (Tipper, 1963). The ages and regional correlations of several of his units were reassigned by Tipper et al (1974) in their 1:1,000,000 compilation. The Geological Survey of Canada is planning to re-map portions of this region at a scale of 1:50,000 in 1992 and succeeding years.

The oldest rocks identified in the area were assigned to the Upper Triassic and Lower Jurassic Takla Group by Tipper (1963). These rocks consist largely of basalt and andesite with lesser interflow sediments (Unit 2). Felsic pyroclastics form part of this package on the Fawn property, a few hundred metres west of the Buck 1 claim (Awmack, 1991). Based on fossil evidence, radiometric dating and nomenclature revision, portions of the previously mapped Takla Group rocks in the vicinity of the Buck property were re-assigned to the Lower Jurassic section of the Hazelton Group (Tipper et al., 1974).

Tipper's (1963) Units 5 and 6 comprise andesites, chert pebble conglomerate, marine clastic sediments and minor rhyolite which he assigned to the Middle and Upper Jurassic Hazelton Group. Tipper (pers. comm., 1991) feels that re-mapping may show the chert pebble conglomerates to be Cretaceous in age. Fossil evidence (Tipper, 1963) shows the Unit 6 sediments to be Bajocian (early Middle Jurassic). The Hazelton Group rocks (Units 2, 5 and 6) are broadly folded about a northwesterly-trending axis, forming a northwesterly-trending belt at least eighty kilometres long,



LEGEND

QUATERNARY

12 Till, gravel, sand, clay and silt

MIOCENE

Endako Group

11 Vesicular and amygdaloidal andesite and basalt; flow breccia, tuff, conglomerate, greywacke and lignite

BOCENE

Ootsa Lake Group

10 Rhyolite, dacite and associated tuffs and breccias; minor andesite, basalt and conglomerate

9 Basalt, andesite and related tuffs and breccias; minor rhyolite and dacite

LATE CRETACEOUS

Quanchus Intrusions

8 Granite, quartz diorite, granodiorite and diorite

EARLY TO MIDDLE JURASSIC

Haselton Group

6 Greywacke, argillite, conglomerate, tuff, breccia, andesite and arkose; minor rhyolite

5 Andesite, related tuffs and breccias, chert pebble conglomerate, shale and sandstone; 5a - mainly volcanic rocks

2 Andesitic and basaltic flows, tuffs and breccias; interbedded argillite and minor limestone

SYMBOLS

* Mineral deposit or prospect

40 Bedding with dip

~ Fault (inferred)

Adapted from Tipper, 1963



WESTERN KELTIC MINES INC.

**BUCK 1-4 CLAIMS
REGIONAL GEOLOGY
MAP**

BRITISH COLUMBIA

EQUITY ENGINEERING LTD.

DRAWN:	MINING DIV.: OMINECA	FIGURE
N.T.S.: 93F/3E	SCALE: 1:250 000	3
DATE: AUGUST, 1992	REVISED:	

centred on the Fawnie Range.

The Quanchus Intrusions, Late Cretaceous to Paleocene batholiths of granitic to granodioritic composition (Unit 8), cut Hazelton Group rocks northwest (Capoose Batholith) and southwest of the Buck property. These batholiths are generally coarse-grained, equigranular and light coloured. Potassium-argon dating indicates an age of 64.3 ± 2.4 Ma for the Capoose batholith (Andrew, 1988).

Flat-lying to moderately dipping, subaerial volcanics of the Ootsa Lake Group unconformably overlie older Mesozoic rocks, including the Cretaceous batholiths. Potassium-argon dating of Ootsa Lake rocks at the Wolf prospect gave an age of 48 ± 2 million years (mid-Eocene). Tipper (1963) divided the Ootsa Lake into two broad lithological units composed predominantly of andesites (Unit 9) and rhyolites (Unit 10). Each unit also contains minor clastic sediments, such as basal conglomerate, tuffaceous shales and sandstones.

Miocene plateau basalts and andesites of the Endako Group (Unit 11) unconformably overlie all other units.

Low grade regional metamorphism and weak deformation are pervasive on the Nechako Plateau. Contact metamorphism is pronounced around intrusives. Tipper (1959) observed that the overall lack of structural features may, in part, be attributed to the abundance of often structureless volcanics in the area. The Hazelton volcanics appear more strongly deformed in comparison to other rock types, with dips of up to 70° . The Ootsa Lake Group volcanics were deposited in a period of extensional tectonism. Another period of deformation during the Oligocene produced broad open folds in the Ootsa Lake Group volcanics and sediments. The relatively undeformed Endako Group consists of generally flat-lying to gently easterly-dipping plateau lavas (Tipper, 1963).

Several styles and ages of mineralization have been documented in the vicinity of the Buck property (Figure 3), despite a relative lack of exploration attention. The Capoose silver deposit, located ten kilometres northwest of the Buck claim group, is hosted by Lower to Middle Jurassic Hazelton Group mafic flows, rhyolite tuff, argillite and lithic wacke intruded by Late Cretaceous quartz-garnet rhyolite sills related to the Capoose batholith. Mineralization consists of pyrite, sphalerite, galena, chalcopyrite and arsenopyrite in disseminations, fracture-fillings and replacing garnets, and is thought to be Late Cretaceous in age (Andrew, 1988). The Capoose deposit contains 20 million tonnes grading 48 g/tonne silver and 0.5 g/tonne gold (Schroeter and Panteleyev, 1986). The Capoose Batholith itself has been extensively explored for porphyry-style copper-molybdenum mineralization, with the best prospects lying a few kilometres to the northwest of the Capoose silver deposit.

The Fawn property, which lies immediately to the west of the Buck claims, hosts high-sulphide epithermal mineralization associated with felsic Eocene dykes cutting Hazelton Group andesites. Alteration and mineralization are limited to a series of recessive, easterly-trending, VLF-EM conductors with widths of alteration exceeding 20 metres and strike lengths which have been defined for up to 2,200 metres. These structures on the Fawn property have returned assays up to 12.9 g/tonne gold and 637 g/tonne silver from separate subcrop samples (Awmack, 1991).

The Wolf epithermal gold-silver deposit, located 25 kilometres west of the Buck property, is hosted by Eocene Ootsa Lake rhyolitic flows, tuffs and subvolcanic intrusives. Repeated low-sulphide silicification, brecciation and stockwork veining have been accompanied by up to 8.49 g/tonne gold and 42.2 g/tonne silver across 7.5 metres in trenching (Cann, 1984). It has been suggested that the Wolf deposit may have been related to maar (Andrew et al, 1986), collapse caldera (Andrew, 1988) or hot-spring (Andrew, 1988) paleo-environments.

The PEM property, located 11 kilometres east of the Buck property, is underlain by andesitic, dacitic and rhyolitic tuffs, presumably of the Ootsa Lake Group. These have been brecciated and altered over an area of several hundred metres, with introduction of 2-7% pyrite and lesser sphalerite. Zbitnoff (1988) reports drill intersections up to 6.3 metres grading 14.3 g/tonne gold, 27 g/tonne silver and 1.25% zinc. It appears that the PEM mineralization may also be epithermal in nature, but probably emplaced at greater depths (hence the higher sulphide and base metal contents) than the Wolf deposit.

6.0 PROPERTY GEOLOGY AND MINERALIZATION

6.1 Geology

The Buck property is underlain by a sequence of Lower to Middle Jurassic Hazelton Group rhyolitic and andesitic volcanics with associated sediments. These stratified rocks have been intruded by Cretaceous quartz monzonite stocks and dykes of the Quanchus Intrusions and overlain by later Tertiary Ootsa Lake rhyolites at higher elevations on the eastern part of the property (Figure 4). The 1992 mapping was restricted to two areas in clearcut on the Buck 2 claim (Figures 5,6), and therefore, the following geological description will be restricted to rock units encountered in these areas and at other sample locations (Figure 4).

The Hazelton Group volcanic suite consists of both felsic and mafic members. These units are underlain and overlain by sedimentary units of similar age. The oldest stratigraphic units are exposed along the west-facing slope above the Kluskus Road.

The majority of outcrop exposures consist of thin-bedded, dark grey argillite and siltstone with subordinate coarser epiclastic rocks (Unit 2A). Within these sedimentary rocks, rhyolitic tuffs and feldspar-rich lapilli tuffs and feldspar-porphyrific andesite are found. Some of these exposures are gossanous, reflecting the presence of disseminated sulphide mineralization. No fossils were identified in these sedimentary rocks.

Through the central portion of the Buck 2 claim, a succession of felsic pyroclastics and minor flows trend in a northerly direction on the west side of the clearcut. In the L14S Trench Area (Figure 6), this assemblage consists of ankeritic rhyolite breccia (Unit 1A), rhyolite tuff breccia (Unit 1B) and lapilli tuff (Unit 1C). The ankerite breccia is comprised of altered rhyolite (80%) and argillite (20%) fragments supported in an altered greenish matrix of grit-sized material and vuggy, partially infilled open spaces. The fragments are mostly angular although some are subrounded. Some of the felsic clasts are clay altered (after sericite?) and contain disseminated pyrite mineralization. The matrix is altered to chlorite and sericite and open spaces are filled by an assemblage of ankerite, calcite and quartz. Minor pyrite, chalcopyrite and sphalerite mineralization is found with this unit. The rhyolite tuff breccia differs from the ankerite variety as it lacks sedimentary fragments and the matrix is comprised of abundant lapilli within a dark grey mass. The dominant fragment, as above, is a bleached, clay altered felsic unit in which quartz and feldspar phenocrysts are noted. As in Unit 1A, fragments are not oriented and individual fragments exceed 30 centimetres. The lapilli unit (Unit 1C) is very similar to the tuff breccia but most of the subangular clasts are 1-5 millimetres in size and are poorly sorted. The matrix is a dark grey to black aphanitic mass. Units 1B and 1C exhibit both gradational and sharp contacts with the overlying sedimentary units. Belemnite fossils have been found in the upper part of Unit 1C.

The felsic volcanoclastics are overlain by fine- to coarse-grained clastic sediments including conglomerate, greywacke, siltstone and argillite (Unit 2A, 2B, 2C). The division between subunits is in most cases indistinct and is based solely on grain size with the sediment source being from an emerging volcanic arc. In general, the sedimentary units are light to dark grey in colour and are finer-grained up from the felsic volcanic contact. Graded bedding, scour marks and load casts indicate that the entire sequence is upright. The conglomerate unit exposed in the south end of the trench area is calcareous and contains abundant pelecypod fossil casts. The majority of the larger fragments are subangular altered felsic volcanics and within these, intensely sericite altered and pyritic clasts may be found. In addition to the pelecypods, gastropod and more widespread belemnite fossils are found in greywacke/lapilli tuff horizons close to the volcanic-sedimentary interface. This fossil assemblage, in addition to defining a shallow depositional environment, is similar to fossil

assemblages found elsewhere in the Hazelton Group and indicate a Lower to Middle Jurassic age. A tuff horizon contains pumice or scoria fragments within Unit 1A; the presence of this airfall ejecta again supports a near-shore environment with subaerial as well as submarine volcanism.

A dark green augite porphyry (Unit 1D) flow is exposed on the eastern side of the trench area. In addition to 1-3 millimetre augite phenocrysts, weakly aligned smaller feldspar phenocrysts appear segregated into 2-3 centimetre bands. Trace pyrite occurs in this unit.

The stratigraphy in the Rutt Zone area (Figure 5) is similar to that in the trench area with the same felsic volcanic-sedimentary interface carrying through into this area. The felsic volcanoclastics are present in this location although the very large fragmental unit found in the trench area was not seen. The lapilli tuffs have been intensely silica and/or sericite altered as well as being mineralized with pyrite, pyrrhotite and sphalerite. Within the rhyolite tuff, a flow-banded horizon (Unit 1B₁) was found with very weakly aligned feldspar phenocrysts in an aphanitic brown matrix.

Two faults have been mapped along prominent topographic linears; otherwise the stratigraphy seems to lay in a simple homoclinal sequence with strata striking northerly and dipping 25° to 65° to the east.

6.2 Mineralization

The mineralization found to date on the Buck property is of a volcanogenic massive sulphide type related to Lower to Middle Jurassic Hazelton Group felsic volcanism. Stratabound zinc mineralization, the "Rutt Zone", was discovered within a clay, sericite, chlorite and silica altered lapilli tuff positioned between footwall flow-banded rhyolites and overlying siltstone (Figure 5). Zinc-bearing float and bedrock samples were found over a open ended strike length of 450 metres. Outcrop exposures of the zone are poor because of its extremely fractured and oxidized nature. An attempt was made to hand trench across the zone near sample station 5+00S, 1+25W. The full extent of the mineralization could not be exposed but a 3.0 metre chip sample returned 2.01% zinc and 306 ppm copper with negligible gold, silver, lead and arsenic values. The sample line likely followed the dip slope of the stratigraphy; therefore, the true width of this sample would be considerably less than 3.0 metres. However, the abundant mineralization exposed in the road cut through the north end of the zone indicates that the sulphide mineralization occurs over a true width of at least 13 metres, assuming a 40° easterly dip. At least two different styles of sulphide mineralization have been identified: (1) disseminated (up to 15%) pyrrhotite, pyrite and sphalerite in intensely sericite and silica altered lapilli tuff

and (2) individual layers of lapilli fragments supported almost entirely by interstitial sphalerite. Geochemical analysis of these samples indicates the system is zinc-rich and to a lesser extent, copper-rich with low arsenic, lead and silver values. Gold values are inconsistent, with individual rock samples returning values up to 655 ppb gold (#484956). A float sample taken approximately 300 metres to the northeast of the Rutt Zone (#484971-382 ppm Pb, 314 ppm As, 1060 ppm Zn) suggests that the mineralized horizon extends at least that much further, although lead and arsenic are now present. Another float sample of rhyolitic material, taken 400 metres to the east of the Rutt Zone (#484969-17.8 ppm Ag, 2110 ppm Pb, 3230 ppm Zn), indicates that a separate lead-rich zone or perhaps, a fault offset of the Rutt Zone exists in this direction.

In the trench area to the south, the most significant mineralization is contained in the ankerite rhyolite breccia (Figure 6). Minor pyrite, chalcopyrite and sphalerite are disseminated in the breccia matrix with ankerite, calcite, quartz and sericite. Metal values returned from sampling are weakly elevated with maximum values of 220 ppb gold, 2.4 ppm silver, 110 ppm arsenic, 1325 ppm copper, 100 ppm lead and 518 ppm zinc. The alteration and mineralization is likely related to the same system as the Rutt Zone, although, from the mineralization found to date, there is a decrease in total sulphides and relative abundance of metals is different.

West of the Rutt Zone, three samples of rusty weathering argillite (Unit 2A) returned 217 to 371 ppm copper. This unit is exposed along the Kluskus Road and contains up to 15% pyrite.

7.0 GEOCHEMISTRY

Two silt samples were taken from the two forks of a northerly draining creek on the north end of the Buck 2 claim. The western fork drains the Rutt Zone and correspondingly, the silt sample (#484972) taken from the western fork contains 45 ppb gold, 1.4 ppm silver, 140 ppm arsenic, 93 ppm copper, 62 ppm lead and 1350 ppm zinc, all of which would be considered significant.

Three soil sampling programs have been carried out on the Buck claims since 1982 and are compiled in Figures 7-12. In 1982, BP Minerals took 710 soil samples (Matysek and Smith, 1982) from the eastern half of the current Buck property and Holt (1982) took an additional 76 soil samples immediately to the west. In 1992, 52 soil samples were taken from anomalous BP Minerals grid locations on the Buck 2 and 4 claims, in order to verify the extent and magnitude of the soil anomalies reported by Matysek and Smith (1982). Individual 1992 and 1982 samples are compared in Appendix E. Zinc, lead, copper and arsenic values compare reasonably well between the 1982 and 1992 samples; anomalous sample sites from 1982 generally yielded anomalous 1992 samples. Silver and gold are more

erratic, with the majority of 1982 anomalous samples returning background values in 1992. None of Holt's (1982) anomalous sample sites were re-sampled in 1992, and the validity of his reported anomalies cannot be verified. However, with the exception of silver, Holt's values fit in quite well with the anomaly pattern defined by BP Minerals' values. Holt's silver values are markedly higher than those of nearby BP Minerals soil samples; analytical differences may be responsible.

Matysek and Smith (1982) performed statistical analysis of BP Minerals' 710 soil geochemical values. Percentiles quoted in Table 7.0.1 below are from their analysis, using a truncated data set in which the 5% highest and lowest values for each element are ignored. The 90th percentile has arbitrarily been chosen as the anomalous level for each element in the following discussion.

TABLE 7.0.1
SOIL GEOCHEMICAL SUMMARY

Element	50th* Percentile	90th* Percentile	95th* Percentile	97.5* Percentile	Maximum Value
Gold	15 ppb	65 ppb	105 ppb	110 ppb	195 ppb
Silver	0.2 ppm	0.7 ppm	1.0 ppm	1.8 ppm	4.4 ppm
Arsenic	19 ppm	60 ppm	107 ppm	180 ppm	920 ppm
Copper	10 ppm	32 ppm	54 ppm	106 ppm	508 ppm
Lead	17 ppm	33 ppm	48 ppm	72 ppm	340 ppm
Zinc	103 ppm	396 ppm	670 ppm	831 ppm	10620 ppm

* As calculated by Matysek and Smith (1982).

Zinc and arsenic, both of which have high anomalous levels relative to other properties in the region, form a band of largely coincident anomalies trending northeasterly over an area of 3,000 metres by 900 metres on the Buck 2 claim. High lead and copper values commonly accompany the zinc-arsenic anomalies.

The most important of these geochemical anomalies, with maximum values of 10,620 ppm zinc, 920 ppm arsenic, 340 ppm lead and 482 ppm copper, measures 900 metres by 700 metres and is centred on 2+00S 3+00W. Prospecting in the southeastern part of this anomaly led to the discovery in 1992 of the Rutt Zone, a stratabound zone of sphalerite-bearing felsic tuffs. Several chip, grab and float samples from the Rutt Zone exceeded 1% zinc. The position of the Rutt Zone is such that those anomalies found east of the hill could be explained by downslope dispersion from this mineralization. However, the anomalous sample stations on the western slope, which are also anomalous in copper and arsenic, cannot be related to the Rutt Zone and likely reflect additional mineralization from a lower stratigraphic unit. Rock samples taken in this area (484980-982) have returned elevated copper values but none of these samples have enough contained zinc to reflect the very high soil values. The northern limit of the overall anomaly stops at L1N where the slope flattens and glacial till

predominates. Further to the south between lines 6S and 10S, the possible extension of this band is masked by glacial till in more gentle topography. Yet further to the south-southwest, anomalous zinc and copper values continue on to the Holt (1982) grid.

The anomalous copper, lead, zinc, silver and arsenic values centered on L14S, 1+50W prompted BP Minerals to trench this area. To date, the known mineralization does not adequately explain the source of these anomalies.

Anomalous copper, lead, zinc, silver and arsenic values occur on widely spaced lines in the southeast corner of the grid. The source of these anomalies is unknown and they may be significant in light of the low sample density. The area has tentatively been mapped as being underlain by Cretaceous intrusions.

The eastern portions of L0N and L14S contain uniformly high copper, lead, zinc and arsenic values. The adjacent lines are not similarly anomalous indicating that a sampling or analytical error has occurred. Unfortunately, none of these stations were resampled during the 1992 program and the inclusion of these possibly erroneous results has increased the threshold values of these elements and, perhaps, excluded important sample locations in other areas.

8.0 DISCUSSION AND CONCLUSIONS

The Buck property is located on the Nechako Plateau in central British Columbia. It is underlain by Hazelton Group volcanics and sediments overlain by Tertiary felsic volcanics. The 1992 field work has demonstrated a geological environment of the same age and stratigraphy as volcanogenic massive sulphide (VMS) mineralization within as the gold-rich Eskay Creek VMS deposit approximately 500 kilometres to the northwest. The Eskay Creek deposit contains probable mining reserves of 960,000 tonnes grading 65.5 g/t gold and 2931 g/t silver along with significant amounts of zinc, lead and silver. At Eskay Creek, it is hypothesized that the shallow marine felsic volcanism within a restricted basin not only produced exhalative massive sulphide mineralization but greatly increased its precious metals content. Altered felsic volcanic tuffs and flows were mapped over 2.0 kilometres strike length on the Buck property. These volcanics are overlain by marine sediments containing belemnite, gastropod and pelecypod fossils as well as airfall pumice fragments, all of which indicate a near-shore, shallow-water deposition similar to that postulated for Eskay Creek (Britton et al., 1990). This fossil assemblage not only places the stratigraphy within the Lower-Middle Jurassic Hazelton Group, but these same fossils are found in the richly mineralized "contact unit" overlying Hazelton Group the rhyolites at Eskay Creek. The sediments at Eskay Creek are overlain by a hanging wall andesite flow and sill complex; similar andesite flows are found at an

equivalent stratigraphic level on the Buck property.

Prospecting has uncovered stratabound zinc mineralization, the "Rutt Zone", within a clay, chlorite, sericite and silica altered lapilli tuff positioned between footwall flow-banded rhyolites and overlying siltstone. Individual rock samples have returned up to 2.73% zinc and 655 ppb gold. The mineralization consists of disseminations and beds containing intergranular sphalerite with up to 15% pyrrhotite and lesser pyrite. The mineralization has been found over a strike length of 450 metres and across a true width estimated at 13 metres.

The 1992 soil sampling tested a number of the anomalous BP Minerals sample stations and substantiated these results. The source of many of the BP Minerals anomalies have yet to be determined, but zinc-arsenic anomalies associated with the Rutt Zone extend for a total strike length of 900 metres before being masked by glacial till to the north and south.

Respectfully submitted,
EQUITY ENGINEERING LTD.

David A. Caulfield, P.Geo.

Vancouver, British Columbia
October, 1992

APPENDIX A

BIBLIOGRAPHY

BIBLIOGRAPHY

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APPENDIX B

STATEMENT OF EXPENDITURES

**STATEMENT OF EXPENDITURES
BUCK 1-4 CLAIMS
June 6 to June 16, 1992**

PROFESSIONAL FEES AND WAGES:

Henry Awmack, P. Eng.		
1.25 days @ \$375/day	\$	468.75
Tom Bell, Prospector		
7.5 days @ \$250/day		1,875.00
David A. Caulfield, P. Geo.		
7 days @ \$375/day		2,625.00
Donald McInnes, Sampler		
7 days @ \$200/day		1,400.00
Clerical		
21 hours @ \$20/hour		<u>420.00</u>
	\$	6,788.75

EQUIPMENT RENTAL:

4x4 F250 Truck		
9 days @ \$80/day	\$	720.00
Fly Camp		
22 mandays @ \$25/day		<u>550.00</u>
		1,270.00

JOINT MOBILIZATION COSTS: (Pro-rated between three clients in the Fawnie Range Area)

2,380.96

CHEMICAL ANALYSES:

Rock Geochemical Analyses		
59 @ \$16.07 each	\$	948.33
Soil Geochemical Analyses		
55 @ \$12.60 each		693.22
Assays		<u>18.48</u>
		1,660.03

EXPENSES:

Materials and Supplies	\$	154.30
Maps and Publications		247.80
Printing and Reproductions		207.03
Camp Food		704.66
Freight		82.14
Expediting and Camp Services		<u>845.00</u>
		2,240.93

MANAGEMENT FEES:

15% on expenses		585.14
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REPORT (estimated)		<u>3,000.00</u>
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SUBTOTAL:		\$ 17,925.81
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GST:
7% on subtotal

1,254.81

TOTAL:

\$ 19,180.62

APPENDIX C

ROCK SAMPLE DESCRIPTIONS

MINERALS AND ALTERATION TYPES

AS	arsenopyrite	BA	barite	BI	biotite
CA	calcite	CB	Fe-carbonate	CC	chalcocite
CL	chlorite	CP	chalcopyrite	CY	clay
DI	diopside	EP	epidote	GA	garnet
GE	goethite	GL	galena	HE	hematite
HS	specularite	JA	jarosite	MC	malachite
MG	magnetite	MN	Mn-oxides	MS	sericite
PO	pyrrhotite	PY	pyrite	QZ	quartz
SI	silica	SP	sphalerite	TT	tetrahedrite

ALTERATION INTENSITIES

s	strong	m	medium	w	weak
tr	trace				

Sample No.	Location :	5995 711 N	Type :	Float	Alteration :	mCA, sCB, mCL, sCY, wQZ	Au	Ag	As	Cu	Pb	Zn
		363 052 E	Strike Length Exp. :	m	Sulphides :	<1%CP, 2%PY, <1%SP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
463774	Elevation:	1270 m	Sample Width :	m	Oxides :	GE, trMC	35.	3.2	60.	128.	100.	518.
	Orientation:	/	True Width :	m	Host :	Ankerite breccia						

Comments : Sample taken from subcrop in firebreak over 5m area. Zone marked by strong ankerite weathering.

Sample No.	Location :	5995 722 N	Type :	Float	Alteration :	mCA, mCB, wCL, sCY	Au	Ag	As	Cu	Pb	Zn
		363 090 E	Strike Length Exp. :	m	Sulphides :	trCP, 2%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
463775	Elevation:	1280 m	Sample Width :	m	Oxides :	GE	<5	0.8	10.	64.	18.	120.
	Orientation:	/	True Width :	m	Host :	Ankerite breccia						

Comments : Sample from subcrop in trench. Felsic fragments dominate argillite fragments.

Sample No.	Location :	5995 692 N	Type :	Grab	Alteration :	wCA, wMS, sSI	Au	Ag	As	Cu	Pb	Zn
		363 164 E	Strike Length Exp. :	5.0 m	Sulphides :	3%PO	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
463776	Elevation:	1280 m	Sample Width :	10 m	Oxides :	GE	<5	<0.2	60.	17.	2.	88.
	Orientation:	/	True Width :	m	Host :	Silicious green tuff/breccia						

Comments : Grab from trenched outcrop from the west end of trench.

Sample No.	Location :	5995 692 N	Type :	Float	Alteration :	wCA, sCB, mCL, sCY, ?MS	Au	Ag	As	Cu	Pb	Zn
		363 093 E	Strike Length Exp. :	5.0 m	Sulphides :	trCP, 1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
463777	Elevation:	1280 m	Sample Width :	m	Oxides :	GE	125.	2.4	110.	1325.	34.	208.
	Orientation:	/	True Width :	m	Host :	Ankerite breccia						

Comments : Sample taken from subcrop (over 3.0m radius) exposed along firebreak south of L14+00S, 1+50W.

Sample No.	Location :	5995 694 N	Type :	Float	Alteration :	mCA, sCB, m-sCL, sCY, ?MS	Au	Ag	As	Cu	Pb	Zn
		363 079 E	Strike Length Exp. :	m	Sulphides :	trCP, 1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
463778	Elevation:	1280 m	Sample Width :	m	Oxides :	GE, HE	50.	1.0	86.	416.	30.	176.
	Orientation:	/	True Width :	m	Host :	Ankerite breccia						

Comments : Sample taken from subcrop (over 3.0m) along firebreak 10m west of 463777.

Sample No.	Location :	5995 744 N	Type :	Float	Alteration :	mCA, CB, CL, CY, MS; wQZ, wSI	Au	Ag	As	Cu	Pb	Zn
		363 085 E	Strike Length Exp. :	m	Sulphides :	trCP, 1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
463779	Elevation:	1270 m	Sample Width :	m	Oxides :	GE, HE	20.	0.6	78.	136.	38.	148.
	Orientation:	/	True Width :	m	Host :	Ankerite breccia						

Comments : Grab of subcrop over 3m radius. Site of anomalous soil L13+60S, 2+00W.

Property : Buck 1-4 Claims

NTS : 93F/3E

Date : 10/20/92

Sample No.	Location :	5996 504 N	Type :	Grab	Alteration :	BI(?), mCB, mCL, sCY, sSI	Au	Ag	As	Cu	Pb	Zn
		363 143 E	Strike Length Exp. :	0.5 m	Sulphides :	5%PO, <1%SP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
463786	Elevation:	1220 m	Sample Width :	2.0 m	Oxides :	GE, MN	40.	0.2	<2	154.	4.	596.
	Orientation:	035 / 18 SE	True Width :	10 cm	Host :	Lapilli tuff (altered)						

Comments : Dip slope of tuff follows hill slope making sampling across zone impossible. This material is very bleached on weathered surface.

Sample No.	Location :	5996 531 N	Type :	Float	Alteration :	BI(?), mCY, mMS	Au	Ag	As	Cu	Pb	Zn
		363 158 E	Strike Length Exp. :	m	Sulphides :	trCP, 5-10%PO, 2%SP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
463787	Elevation:	1225 m	Sample Width :	m	Oxides :	GE, MN	435.	5.4	<2	189.	92.	7000.
	Orientation:	/	True Width :	m	Host :	Lapilli tuff (altered)						

Comments : Gossanous rubble in scarified row, close to source. Sulphides surround lapilli (QZ/FD). Brachiopod cast found at this location.

Sample No.	Location :	5996 543 N	Type :	Float	Alteration :	mCL, wCY, wMS	Au	Ag	As	Cu	Pb	Zn
		363 174 E	Strike Length Exp. :	m	Sulphides :	trCP, 5-7%PO, 1%SP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
463788	Elevation:	1225 m	Sample Width :	m	Oxides :	GE	125.	2.2	<2	153.	46.	5440.
	Orientation:	/	True Width :	m	Host :	Lapilli tuff (altered)						

Comments : Float close to source.

Sample No.	Location :	5996 561 N	Type :	Float	Alteration :	BI(?), sCY, sSI	Au	Ag	As	Cu	Pb	Zn
		363 193 E	Strike Length Exp. :	m	Sulphides :	<1%CP, 1%PO, 1%PY, 2%SP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
463789	Elevation:	1225 m	Sample Width :	m	Oxides :	GE, JA	70.	1.0	<2	265.	14.	4620.
	Orientation:	/	True Width :	m	Host :	Tuff?						

Comments : Three boulders in light brown coloured till. One piece is extremely oxidized and friable.

Sample No.	Location :	5996 670 N	Type :	Grab	Alteration :	CL	Au	Ag	As	Cu	Pb	Zn
		362 800 E	Strike Length Exp. :	1.5 m	Sulphides :	1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465860	Elevation:	1175 m	Sample Width :	1.5 m	Oxides :	GE	<5	<0.2	8.	183.	<2	98.
	Orientation:	/	True Width :	m	Host :	Tuff						

Comments : Sample taken 15m south of 6+00W, 5+00S.

Sample No.	Location :	5996 865 N	Type :	Grab	Alteration :		Au	Ag	As	Cu	Pb	Zn
		362 940 E	Strike Length Exp. :	m	Sulphides :	trCP, 2%PO, 1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465861	Elevation:	1215 m	Sample Width :	50 cm	Oxides :	GE	<5	<0.2	16.	133.	2.	86.
	Orientation:	/	True Width :	m	Host :	Siliceous lapilli tuff						

Comments : 118m north of 4+00S/6+00W.

Property : Buck 1-4 Claims

NTS : 93F/3E

Date : 10/20/92

Sample No.	Location :	5996 865 N	Type :	Grab	Alteration :	mCL	Au	Ag	As	Cu	Pb	Zn
		362 940 E	Strike Length Exp. :	m	Sulphides :	2%PO	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465862	Elevation:	1215 m	Sample Width :	30 cm	Oxides :	GE	<5	<0.2	8.	78.	4.	140.
	Orientation:	/	True Width :	m	Host :	Siliceous lapilli tuff						

Comments : 2.8m from 465861 to north.

Sample No.	Location :	5996 865 N	Type :	Grab	Alteration :	BI, CL	Au	Ag	As	Cu	Pb	Zn
		362 940 E	Strike Length Exp. :	m	Sulphides :	trCP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465863	Elevation:	1215 m	Sample Width :	40 cm	Oxides :	GE	<5	<0.2	12.	151.	<2	36.
	Orientation:	/	True Width :	m	Host :	Siliceous lapilli tuff						

Comments : 7m from 465861 to north.

Sample No.	Location :	5996 900 N	Type :	Grab	Alteration :	CL	Au	Ag	As	Cu	Pb	Zn
		362 940 E	Strike Length Exp. :	m	Sulphides :	trCP, 3%PO, trPY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465864	Elevation:	4080 ft	Sample Width :	m	Oxides :	GE	<5	0.2	14.	127.	6.	388.
	Orientation:	/	True Width :	m	Host :	Siliceous lapilli tuff						

Comments : 22m north of 465863.

Sample No.	Location :	5996 970 N	Type :	Grab	Alteration :	wBI, SI	Au	Ag	As	Cu	Pb	Zn
		362 870 E	Strike Length Exp. :	1.5 m	Sulphides :	1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465865	Elevation:	3970 ft	Sample Width :	.5 m	Oxides :	GE	<5	<0.2	2.	93.	2.	46.
	Orientation:	/	True Width :	? m	Host :	Fine grained siliceous tuff						

Comments : 2+00S, 4+90W

Sample No.	Location :	5997 300 N	Type :	Float	Alteration :	CB	Au	Ag	As	Cu	Pb	Zn
		363 475 E	Strike Length Exp. :	m	Sulphides :	1-2%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465866	Elevation:	1180 m	Sample Width :	m	Oxides :		<5	0.2	44.	12.	26.	290.
	Orientation:	/	True Width :	m	Host :	Quartz monzonite						

Comments : Subcrop almost in place 5m north of 2+00N, 1+50E. Creek 20m to east.

Sample No.	Location :	5997 300 N	Type :	Float	Alteration :	mMS	Au	Ag	As	Cu	Pb	Zn
		363 475 E	Strike Length Exp. :	m	Sulphides :	1-2%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465867	Elevation:	1180 m	Sample Width :	m	Oxides :	GE	<5	<0.2	8.	13.	8.	120.
	Orientation:	/	True Width :	m	Host :	Rhyolite						

Comments : Almost in place, 5m north of 2+00N, 1+50E. Creek 20m to east.

Property : Buck 1-4 Claims

NTS : 93F/3E

Date : 10/20/92

Sample No.	Location : 5995 525 N	Type : Grab	Alteration : CL	Au	Ag	As	Cu	Pb	Zn
	362 410 E	Strike Length Exp. : m	Sulphides : 1%PO	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465868	Elevation: 3740 ft	Sample Width : 30 cm	Oxides : GE, MN	<5	<0.2	4.	38.	6.	22.
	Orientation: /	True Width : m	Host : Rhyolite?						

Comments : 4m east of Kluskus FS road. 60m south of 15+00S/ 8+00W.

Sample No.	Location : 5997 120 N	Type : Grab	Alteration : CL	Au	Ag	As	Cu	Pb	Zn
	362 980 E	Strike Length Exp. : m	Sulphides : trCC, ?PO	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465869	Elevation: 1200 m	Sample Width : 20 cm	Oxides : GE	<5	0.4	<2.	351.	8.	44.
	Orientation: /	True Width : m	Host : Siliceous tuff						

Comments : 15m east of 4+00W, 0+00.

Sample No.	Location : 5997 770 N	Type : Grab	Alteration :	Au	Ag	As	Cu	Pb	Zn
	362 980 E	Strike Length Exp. : m	Sulphides : trCC, PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
465870	Elevation: 1200 m	Sample Width : 40 cm	Oxides : GE, MN	<5	0.2	10.	210.	18.	302.
	Orientation: /	True Width : m	Host : Siliceous tuff						

Comments : 5m to north of 465869.

Sample No.	Location : 5995 525 N	Type : Float	Alteration : CY	Au	Ag	As	Cu	Pb	Zn
	362 830 E	Strike Length Exp. : m	Sulphides :	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484951	Elevation: 4075 ft	Sample Width : 5 m	Oxides : WGE, mHE, sJA, sMN	<5	<0.2	1565.	34.	<2	188.
	Orientation: /	True Width : ? m	Host : Argillite breccia contact						

Comments : Contact zone. 35m at 25o from 16+00S, 4+50W (715095). Fossils in argillites. Sample taken from talus over 5m radius.
Argillite/breccia contact runs N-S along sidehill. Narrow zone of alteration.

Sample No.	Location : 5995 495 N	Type : Float	Alteration : mCL, mSI	Au	Ag	As	Cu	Pb	Zn
	362 760 E	Strike Length Exp. : m	Sulphides : 1-2%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484952	Elevation: 4080 ft	Sample Width : m	Oxides : mHE, WJA, WMN	<5	0.2	12.	39.	20.	110.
	Orientation: /	True Width : m	Host : Rhyolite-dacite						

Comments : 3m radius around 16+00S, 4+50W (715096).

Sample No.	Location : 5995 615 N	Type : Float	Alteration : WCB, sSI	Au	Ag	As	Cu	Pb	Zn
	363 142 E	Strike Length Exp. : m	Sulphides : trCP, 1-2%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484953	Elevation: 4275 ft	Sample Width : m	Oxides :	220.	0.2	30.	26.	4.	30.
	Orientation: /	True Width : m	Host : Rhyolite						

Comments : 10m at 050o from 15+00N/1+00W. Subcrop - 1m radius in rubble.

Property : Buck 1-4 Claims

NTS : 93F/3E

Date : 10/20/92

Sample No.	Location :	5995 723 N	Type :	Float	Alteration :	mCB, mCL, sCY	Au	Ag	As	Cu	Pb	Zn
		363 102 E	Strike Length Exp. :	m	Sulphides :	trCP, 1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484954	Elevation:	4000 ft	Sample Width :	m	Oxides :	sHE, sJA, wMN	130.	2.2	108.	390.	42.	188.
	Orientation:	/	True Width :	m	Host :	Ankerite cemented breccia						

Comments : Subcrop, 30m at 280o from 14+00S, 1+50W.

Sample No.	Location :	5996 632 N	Type :	Float	Alteration :	mCL, wMS	Au	Ag	As	Cu	Pb	Zn
		363 312 E	Strike Length Exp. :	m	Sulphides :	2-3%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484955	Elevation:	4080 ft	Sample Width :	m	Oxides :	mHE, wJA, wMN	<5	<0.2	<2	24.	4.	42.
	Orientation:	/	True Width :	m	Host :	Fine-grained tuff						

Comments : 5m at 090o from BL5+00S. Grab from subcrop over 1m.

Sample No.	Location :	5996 631 N	Type :	Float	Alteration :	BI, CL, MR	Au	Ag	As	Cu	Pb	Zn
		363 271 E	Strike Length Exp. :	m	Sulphides :	<1%CP, 5%PY, 5%SP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484956	Elevation:	4080 ft	Sample Width :	m	Oxides :	sGE, sHE, mJA, mMN	655.	3.4	4.	284.	88.	1.19%
	Orientation:	/	True Width :	m	Host :	Altered tuff						

Comments : Taken from one float rock 5+00S, 0+38W on line.

Sample No.	Location :	5996 632 N	Type :	Float	Alteration :	CL, CY	Au	Ag	As	Cu	Pb	Zn
		363 209 E	Strike Length Exp. :	m	Sulphides :	trCP, 5-7%PY, 1%SP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484957	Elevation:	4070 ft	Sample Width :	m	Oxides :	sGE, sHE, sJA, sMN	40.	0.8	4.	217.	12.	3750.
	Orientation:	/	True Width :	m	Host :	Altered tuff						

Comments : Similar to 484956. Taken 2m north of 5+00S/1+00W. Taken over 5m radius. Moderate amount of similar float nearby.

Sample No.	Location :	5996 642 N	Type :	Grab	Alteration :	CL, CY, MS	Au	Ag	As	Cu	Pb	Zn
		363 187 E	Strike Length Exp. :	3 m	Sulphides :	trCP, 5%PY, 5%SP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484958	Elevation:	4066 ft	Sample Width :	2 m	Oxides :	sGE, sHE, sJA, sMN	15.	0.6	<2	478	40	2.73%
	Orientation:	/	True Width :	? m	Host :	Tuff						

Comments : 3m north of 5+00S, 1+28W. Road cut at edge of slash. Dug out trench over 2m<3m, all mineralized.

Sample No.	Location :	5996 642 N	Type :	Chip	Alteration :	sCL, sCY, wMR	Au	Ag	As	Cu	Pb	Zn
		363 187 E	Strike Length Exp. :	m	Sulphides :	trCP, 5%PY, 5%SP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484959	Elevation:	4065 ft	Sample Width :	3 m	Oxides :	sGE, sHE, sJA, sMN	10.	0.2	2.	306.	36.	2.01%
	Orientation:	/	True Width :	m	Host :	Tuff						

Comments : Chip sample across exposed outcrop in small trench for 3m. 3m north of 5+00S, 1+28W in road cut on edge of slash.

Property : Buck 1-4 Claims

NTS : 93F/3E

Date : 10/20/92

Sample No.	Location :	5996 650 N	Type :	Float	Alteration :	sCA, mCL	Au	Ag	As	Cu	Pb	Zn
		363 020 E	Strike Length Exp. :	m	Sulphides :	1-2%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484960	Elevation:	4095 ft	Sample Width :	m	Oxides :	mHE, mJA, mMN	<5	0.2	28.	78.	4.	270.
	Orientation:	/	True Width :	m	Host :	Banded rhyolite						

Comments : Taken from subcrop at 4+00S, 3+15W under tree roots; disseminated pyrite.

Sample No.	Location :	5996 650 N	Type :	Float	Alteration :	sCA, sCB	Au	Ag	As	Cu	Pb	Zn
		363 020 E	Strike Length Exp. :	m	Sulphides :	1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484961	Elevation:	4095 ft	Sample Width :	m	Oxides :	sGE, sHE, sJA, sMN	<5	0.4	6.	30.	4.	490.
	Orientation:	/	True Width :	m	Host :	Tuff						

Comments : 4+00S, 3+15W subcrop. Calcite vein in rhyolites.

Sample No.	Location :	5996 798 N	Type :	Grab	Alteration :	sCB, sCL, sMR	Au	Ag	As	Cu	Pb	Zn
		363 124 E	Strike Length Exp. :	1 m	Sulphides :	trCP, 2-3%PY, <1%SP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484962	Elevation:	4160 ft	Sample Width :	15 cm	Oxides :	sGE, sHE, sJA, sMN	<5	0.2	6.	131.	18.	1055.
	Orientation:	/	True Width :	15 cm	Host :	Tuff						

Comments : Exposed outcrop on cat road at edge of slash 70m at 220o from 3+00S, 1+43W.

Sample No.	Location :	5996 842 N	Type :	Grab	Alteration :	mCB, sCL, sCY	Au	Ag	As	Cu	Pb	Zn
		363 172 E	Strike Length Exp. :	m	Sulphides :	<1%CP, 5%PY, 1%SP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484963	Elevation:	4160 ft	Sample Width :	50 cm	Oxides :	sGE, sHE, sJA, sMN	<5	0.6	2.	678.	18.	490.
	Orientation:	/	True Width :	? m	Host :	Tuffs						

Comments : 10m at 160o from 3+00S, 1+43W. Subcrop sampled over 3-5m radius. Zone on fire guard, surrounded by rhyolite with fine-grained disseminated pyrite.

Sample No.	Location :	5995 907 N	Type :	Grab	Alteration :	sCB, sCL, sCY	Au	Ag	As	Cu	Pb	Zn
		363 211 E	Strike Length Exp. :	50 m	Sulphides :	1%CP, 15%PY, 2%SP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484964	Elevation:	4120 ft	Sample Width :	1 m	Oxides :	sGE, sHE, sJA, sMN	<5	0.2	2.	392.	2.	1.51%
	Orientation:	/	True Width :	? m	Host :	Tuffs						

Comments : 74.5m at 050o from 3+00S, 1+43W. Taken in fire guard. Continuous alteration and mineralization for at least 50m from 484963. Zone continues to north. Subcrop.

Sample No.	Location :	5996 924 N	Type :	Grab	Alteration :	sCB, sCL, sCY	Au	Ag	As	Cu	Pb	Zn
		363 237 E	Strike Length Exp. :	.75 m	Sulphides :	<1%CP, 10%PY, 1%SP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484965	Elevation:	4100 ft	Sample Width :	50 cm	Oxides :	sGE, sHE, sJA, sMN	<5	<0.2	6.	199.	4.	2790.
	Orientation:	/	True Width :	? m	Host :	Tuff						

Comments : 97m at 052o from 3+00S, 1+43W. North end of fire guard zone exposure.

Property : Buck 1-4 Claims

NTS : 93F/3E

Date : 10/20/92

Sample No.	Location :	5996 921 N	Type :	Float	Alteration :	sCL, sCY, mMS	Au	Ag	As	Cu	Pb	Zn
		363 227 E	Strike Length Exp. :	10 m	Sulphides :	<1%CP, trPO, 10%PY, <1%SP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484966	Elevation:	4110 ft	Sample Width :	m	Oxides :	sGE, sHE, sJA, sMN	<5	1.0	<2	485.	22.	422.
	Orientation:	/	True Width :	m	Host :	Tuff						

Comments : Taken off fire guard between 484964 & 484965, 80m at 050o from 3+00S/1+43W. Sample taken from 1m radius of subcrop.

Sample No.	Location :	5996 862 N	Type :	Float	Alteration :	mCL, mCY, sSI	Au	Ag	As	Cu	Pb	Zn
		363 253 E	Strike Length Exp. :	m	Sulphides :	1-2%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484967	Elevation:	3925 ft	Sample Width :	m	Oxides :	mHE, mJA	<5	0.2	<2	92.	2.	64.
	Orientation:	/	True Width :	m	Host :	Fossiliferous tuff						

Comments : On east side of Rutt hill near top on north side. Pyritic, fine-grained tuff.

Sample No.	Location :	5996 910 N	Type :	Float	Alteration :	wCL, sSI	Au	Ag	As	Cu	Pb	Zn
		363 550 E	Strike Length Exp. :	m	Sulphides :	1-2%PY, trSP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484968	Elevation:	3875 ft	Sample Width :	50 cm	Oxides :	mHE, mJA, mMN	<5	0.4	278.	21.	30.	184.
	Orientation:	/	True Width :	m	Host :	Rhyolite						

Comments : 7m at 320o from 2+00S, 2+00E. Just out of slash on east side of creek bank. Grab for 50cm in subcrop.

Sample No.	Location :	5996 895 N	Type :	Float	Alteration :	wCB, wCL, mCY, wMS, mSI	Au	Ag	As	Cu	Pb	Zn
		363 575 E	Strike Length Exp. :	m	Sulphides :	<1%GL, 1-2%PY, <1%SP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484969	Elevation:	3875 ft	Sample Width :	2 m	Oxides :	mHE, mJA, mMN	5.	17.8	96.	71.	2110.	3230.
	Orientation:	/	True Width :	m	Host :	Rhyolite						

Comments : Taken 20m at 105o from 2+00S, 2+00E. Grab from subcrop over 2m radius.

Sample No.	Location :	5996 895 N	Type :	Float	Alteration :	wCL, mCY	Au	Ag	As	Cu	Pb	Zn
		363 545 E	Strike Length Exp. :	m	Sulphides :	trGL, 1%PY, trSP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484970	Elevation:	3875 ft	Sample Width :	20 m	Oxides :	wHE, wJA, wMN	<5	0.4	122.	28.	70.	214.
	Orientation:	/	True Width :	m	Host :	Rhyolite						

Comments : 15m at 220o from 2+00S, 2+00E. Sample taken along fire guard on east side of creek in slash, over 20m.

Sample No.	Location :	5997 185 N	Type :	Float	Alteration :	sCL, mCY	Au	Ag	As	Cu	Pb	Zn
		363 455 E	Strike Length Exp. :	m	Sulphides :		(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484971	Elevation:	3850 ft	Sample Width :	1 m	Oxides :	mGE, mHE, mJA, mMN	<5	1.8	314.	75.	382.	1060.
	Orientation:	/	True Width :	m	Host :	Altered rhyolite						

Comments : Taken on east side of creek, approximately 100m north of slash, from tree roots. Similar alteration to the Rutt Zone, but no visible mineralization.

Property : Buck 1-4 Claims

NTS : 93F/3E

Date : 10/20/92

Sample No. Location : 5996 730 N Type : Float Alteration : wCL, mSI Au Ag As Cu Pb Zn
 363 045 E Strike Length Exp. : m Sulphides : 1-2%PY (ppb) (ppm) (ppm) (ppm) (ppm) (ppm)
 484974 Elevation: 4150 ft Sample Width : m Oxides : wHE, wJA <5 <0.2 10. 56. 8. 62.
 Orientation: / True Width : m Host : Banded tuff

Comments : 8m at 140o from 4+00S, 3+00W. Grab from subcrop boulder.

Sample No. Location : 5996 780 N Type : Float Alteration : mCL, wCY Au Ag As Cu Pb Zn
 363 055 E Strike Length Exp. : m Sulphides : trCP, 3-5%PY (ppb) (ppm) (ppm) (ppm) (ppm) (ppm)
 484975 Elevation: 4225 ft Sample Width : m Oxides : sGE, sJA <5 <0.2 <2 57. 6. 52.
 Orientation: / True Width : m Host : Tuff

Comments : 93m at 215o from 3+00S, 2+44W. Taken from subcrop boulder.

Sample No. Location : 5996 960 N Type : Grab Alteration : wBI, mCY Au Ag As Cu Pb Zn
 363 175 E Strike Length Exp. : 0.5 m Sulphides : 2%PO, 2%PY (ppb) (ppm) (ppm) (ppm) (ppm) (ppm)
 484976 Elevation: 4220 ft Sample Width : 50 cm Oxides : GE, JA <5 <0.2 10. 90. 2. 26.
 Orientation: / True Width : ? m Host : Tuff

Comments : 70m at 040o from 3+00S, 2+00W.

Sample No. Location : 5997 000 N Type : Grab Alteration : mCL, mCY, wSI Au Ag As Cu Pb Zn
 363 110 E Strike Length Exp. : 20 m Sulphides : PO, 1-2%PY (ppb) (ppm) (ppm) (ppm) (ppm) (ppm)
 484977 Elevation: 4125 ft Sample Width : 5 m Oxides : mGE, mJA <5 0.2 2. 135. 8. 70.
 Orientation: / True Width : ? m Host : Shattered tuff

Comments : 70m at 060o from 1+00S/3+00W (714006) in outcrop.

Sample No. Location : 5996 880 N Type : Float Alteration : mCL Au Ag As Cu Pb Zn
 363 005 E Strike Length Exp. : m Sulphides : trCP, 1%PO, 2-3%PY (ppb) (ppm) (ppm) (ppm) (ppm) (ppm)
 484979 Elevation: 4150 ft Sample Width : m Oxides : sGE sHE, sJA, sMN <5 <0.2 4. 52. <2 234.
 Orientation: / True Width : m Host : Tuff

Comments : 10m at 035o from 3+00S, 3+45W in side hill talus.

Sample No. Location : 5996 535 N Type : Grab Alteration : sCY, wQZ Au Ag As Cu Pb Zn
 362 770 E Strike Length Exp. : 1 m Sulphides : 1-2%PY (ppb) (ppm) (ppm) (ppm) (ppm) (ppm)
 484980 Elevation: 3700 ft Sample Width : 1 m Oxides : sGE, sHE, sJA, sMN <5 0.2 16. 217. 8. 144.
 Orientation: 015 / 54 SE True Width : m Host : Banded argillite

Comments : 150m at 180o from 5+00S/5+67W. Grab over 1m in outcrop. Well-altered and shattered. Abundant similar rock in area.

APPENDIX D

CERTIFICATES OF ANALYSIS



Chemex Labs Ltd.

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

EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
 VANCOUVER, BC
 V6B 1N2

A9216242

Comments:

CERTIFICATE

A9216242

EQUITY ENGINEERING LTD.

Project: BUCK
 P.O. #: KMI92-01

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 8-SEP-92.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	54	Geochem ring to approx 150 mesh
274	54	0-15 lb crush and split
229	54	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100	54	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
2118	54	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	54	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	54	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	54	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	54	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	54	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	54	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	54	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	54	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	54	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	54	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	54	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	54	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	54	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	54	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	54	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	54	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	54	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	54	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	54	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	54	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	54	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	54	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	54	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	54	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	54	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	54	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	54	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	54	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	54	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	54	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	54	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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A9216220

Comments:

CERTIFICATE

A9216220

EQUITY ENGINEERING LTD.

Project: BUCK
P.O. #: KMI92-01

Samples submitted to our lab in Vancouver, BC.
This report was printed on 23-JUN-92.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	5	Geochem ring to approx 150 mesh
274	5	0-15 lb crush and split
229	5	ICP - AQ Digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100	5	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
2118	5	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2120	5	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2123	5	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2128	5	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2131	5	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2136	5	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2140	5	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	5	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2149	5	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Property : Buck 1-4 Claims

NTS : 93F/3E

Date : 10/20/92

Sample No.	Location :	5996 635 N 362 775 E	Type : Float	Alteration : sCY	Au	Ag	As	Cu	Pb	Zn
			Strike Length Exp. : m	Sulphides : 5%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484981	Elevation:	3750 ft	Sample Width : m	Oxides : sGE, sJA	<5	0.4	4.	371.	<2	48.
	Orientation:	/	True Width : m	Host : Argillite						
Comments : 111m north along side hill from 484980. Main road below is barely in sight - 39m at 180o from 5+00S, 5+67W. Taken from subcrop in tree roots.										

Sample No.	Location :	5996 700 N 362 600 E	Type : Grab	Alteration : sCL, sCY	Au	Ag	As	Cu	Pb	Zn
			Strike Length Exp. : m	Sulphides : 10%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484982	Elevation:	3550 ft	Sample Width : 10 cm	Oxides : sGE, sJA	<5	<0.2	<2	264.	<2	114.
	Orientation:	/	True Width : m	Host : Argillite						
Comments : On road approximately where 5+00S hits road.										

Sample No.	Location :	5996 590 N 363 480 E	Type : Float	Alteration : sCA, sCB, QZ	Au	Ag	As	Cu	Pb	Zn
			Strike Length Exp. : m	Sulphides : trCP, trPY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484983	Elevation:	4050 ft	Sample Width : m	Oxides : mGE, mJA, wMN	<5	0.2	96.	30.	26.	200.
	Orientation:	/	True Width : m	Host : Volcanics						
Comments : 2m SW of 6+00S, 1+50E. Subcrop of quartz-carbonate vein.										

Sample No.	Location :	5996 550 N 362 555 E	Type : Grab	Alteration : sCL, sCY, mMS, wQZ	Au	Ag	As	Cu	Pb	Zn
			Strike Length Exp. : m	Sulphides : 5%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484984	Elevation:	3450 ft	Sample Width : 50 cm	Oxides : sGE, sHE, sJA	<5	<0.2	<2	85.	<2	98.
	Orientation:	070 / 60 NW	True Width : m	Host : Volcanics						
Comments : 843m north of side road junction on main logging road. Road cut on east side.										

Sample No.	Location :	5996 585 N 362 565 E	Type : Float	Alteration : wCL, mCY, mMS, mQZ	Au	Ag	As	Cu	Pb	Zn
			Strike Length Exp. : m	Sulphides : 2-3%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
484985	Elevation:	3450 ft	Sample Width : 50 cm	Oxides : sGE, sHE	<5	<0.2	12.	50.	6.	22.
	Orientation:	/	True Width : m	Host : Bedded argillite						
Comments : 26m north of 484984 along east side of logging road. Grab from subcrop.										

Sample No.	Location :	5994 945 N 362 290 E	Type : Grab	Alteration : sSI(?)	Au	Ag	As	Cu	Pb	Zn
			Strike Length Exp. : 10.0 m	Sulphides : <1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
508551	Elevation:	3750 ft	Sample Width : 15.0 cm	Oxides : GE	<5	<0.2	25.	48.	20.	108.
	Orientation:	160 / 10 E	True Width : 15.0 cm	Host : Interbedded mudstone and tuff (?) or chert (?)						
Comments : Discontinuous exposure of well bedded zebra type turbidite sequence ? consisting of alternating bands of thinly bedded black mudstone and white tuff (?) or chert. Pyrite is localized within the lighter, thinner layers in seams.										



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CERTIFICATE OF ANALYSIS

A9117854

SAMPLE DESCRIPTION	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
			FA+AA																		
508551	205	294	< 5	< 0.2	2.18	25	80	< 0.5	< 2	0.46	< 0.5	8	70	48	3.96	10	< 1	0.24	< 10	0.96	655

CERTIFICATION:



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A9117854

SAMPLE DESCRIPTION	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
508551	205	294	7	0.10	18	610	20	< 5	8	31	0.10	< 10	< 10	95	< 10	108

CERTIFICATION:

B. Coughlin



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CERTIFICATE OF ANALYSIS

A9216242

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
	205	274	FA+AA	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm
463774	205	274	35	3.2	2.24	60	110	< 0.5	14	3.57	3.0	9	61	128	4.36	10	1	0.37	10	1.48	2100
463775	205	274	< 5	0.8	1.44	10	50	< 0.5	6	2.53	0.5	8	41	64	3.09	< 10	1	0.26	10	0.93	1595
463776	205	274	< 5	< 0.2	1.17	60	70	< 0.5	< 2	1.11	< 0.5	7	20	17	2.45	< 10	2	0.34	10	0.29	720
463777	205	274	125	2.4	1.71	110	50	< 0.5	6	5.25	< 0.5	21	39	1325	5.18	10	1	0.30	< 10	1.04	3010
463778	205	274	50	1.0	1.73	86	80	< 0.5	18	1.80	< 0.5	15	38	416	5.04	10	1	0.32	10	0.80	2210
463779	205	274	20	0.6	1.47	78	110	< 0.5	12	0.72	< 0.5	9	31	136	3.82	< 10	1	0.41	10	0.50	1185
463780	205	274	5	0.8	0.89	14	50	< 0.5	< 2	0.38	< 0.5	5	16	52	2.51	< 10	< 1	0.27	20	0.27	965
463781	205	274	< 5	< 0.2	3.23	10	130	< 0.5	2	1.13	< 0.5	12	79	38	4.92	10	1	0.33	< 10	1.91	1020
463782	205	274	< 5	< 0.2	1.28	2	50	< 0.5	< 2	0.24	< 0.5	3	24	4	1.91	< 10	1	0.26	< 10	0.48	355
463783	205	274	130	< 0.2	0.72	8	70	< 0.5	< 2	0.05	< 0.5	5	31	140	5.00	< 10	1	0.21	10	0.23	315
463784	205	274	< 5	0.2	4.28	< 2	150	< 0.5	8	2.35	< 0.5	12	44	61	4.93	10	2	0.13	< 10	1.52	735
463785	205	274	< 5	< 0.2	4.92	< 2	110	< 0.5	6	2.68	< 0.5	16	38	127	4.76	10	4	0.38	< 10	1.15	495
463786	205	274	40	0.2	3.79	< 2	50	< 0.5	8	1.99	4.0	15	41	154	5.49	10	1	0.06	< 10	1.02	1060
463787	205	274	435	5.4	3.09	< 2	70	< 0.5	218	2.72	73.0	15	91	189	8.65	10	2	0.10	< 10	1.80	2370
463788	205	274	125	2.2	4.30	< 2	50	< 0.5	168	4.37	56.0	21	63	153	6.08	10	< 1	0.04	< 10	1.30	1940
463789	205	274	70	1.0	4.21	< 2	40	< 0.5	48	2.64	87.0	11	42	265	9.64	10	2	0.04	< 10	1.44	1615
484951	205	274	< 5	< 0.2	1.65	1565	140	< 0.5	2	0.15	< 0.5	3	39	34	8.86	< 10	< 1	0.28	20	0.57	290
484952	205	274	< 5	0.2	0.58	12	80	< 0.5	< 2	1.32	1.0	2	16	39	1.78	< 10	< 1	0.30	10	0.11	1935
484953	205	274	220	0.2	0.77	30	70	< 0.5	< 2	2.11	< 0.5	5	53	26	1.43	< 10	1	0.24	10	0.17	525
484954	205	274	130	2.2	0.97	108	100	< 0.5	36	3.75	< 0.5	17	38	390	3.04	< 10	< 1	0.31	10	0.59	1880
484955	205	274	< 5	< 0.2	1.33	< 2	50	< 0.5	< 2	0.64	< 0.5	4	31	24	3.00	10	3	0.19	10	0.82	495
484956	205	274	655	3.4	3.06	4	30	< 0.5	332	1.52	>100.0	24	74	284	8.79	10	3	0.05	< 10	1.78	1850
484957	205	274	40	0.8	5.12	4	60	< 0.5	88	3.04	41.0	12	60	217	7.35	10	2	0.10	< 10	1.59	1775
484958	205	274	15	0.6	2.34	< 2	40	< 0.5	204	0.91	>100.0	27	58	478	10.50	< 10	< 1	0.12	< 10	0.86	895
484959	205	274	10	0.2	2.66	2	60	< 0.5	170	1.44	>100.0	18	37	306	9.01	10	2	0.14	< 10	0.99	1210
484960	205	274	< 5	0.2	1.23	28	50	< 0.5	8	0.76	2.0	5	85	78	2.86	< 10	< 1	0.10	< 10	0.40	385
484961	205	274	< 5	0.4	2.05	6	10	< 0.5	6	7.34	3.0	2	75	30	2.78	< 10	4	0.01	< 10	0.62	5280
484962	205	274	< 5	0.2	3.53	6	30	< 0.5	2	1.78	10.0	9	76	131	3.59	10	< 1	0.10	< 10	0.73	490
484963	205	274	< 5	0.6	4.68	2	40	< 0.5	14	2.40	4.5	34	20	678	13.90	10	4	0.08	< 10	1.16	900
484964	205	274	< 5	0.2	4.08	2	40	< 0.5	76	3.07	>100.0	25	41	392	9.22	10	5	0.04	< 10	1.03	980
484965	205	274	< 5	< 0.2	2.12	6	30	< 0.5	2	1.00	31.5	19	22	199	5.92	10	< 1	0.07	< 10	1.40	645
484966	205	274	< 5	1.0	4.89	< 2	40	< 0.5	16	3.03	2.5	27	37	485	9.69	10	< 1	0.14	< 10	0.84	920
484967	205	274	< 5	0.2	5.50	< 2	70	< 0.5	< 2	2.58	< 0.5	7	88	92	4.22	10	4	0.21	< 10	1.51	610
484968	205	274	< 5	0.4	0.79	278	200	< 0.5	< 2	1.65	1.0	4	62	21	1.85	< 10	1	0.42	10	0.17	860
484969	205	274	5	17.8	0.79	96	660	< 0.5	< 2	0.65	>100.0	4	46	71	2.10	< 10	4	0.39	10	0.08	1150
484970	205	274	< 5	0.4	1.41	122	130	< 0.5	2	1.05	2.5	6	47	28	2.29	< 10	< 1	0.34	10	0.35	1130
484971	205	274	< 5	1.8	0.74	314	90	< 0.5	< 2	0.12	6.5	1	26	75	1.73	< 10	< 1	0.46	10	0.03	625
484974	205	274	< 5	< 0.2	1.27	10	30	< 0.5	2	0.87	< 0.5	7	83	56	3.16	10	1	0.12	< 10	0.65	430
484975	205	274	< 5	< 0.2	4.75	< 2	20	< 0.5	4	1.98	< 0.5	5	70	57	3.17	10	< 1	0.07	< 10	1.16	460
484976	205	274	< 5	< 0.2	2.07	10	20	< 0.5	2	1.04	< 0.5	7	55	90	3.13	< 10	1	0.16	< 10	0.44	250

CERTIFICATION:

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Chemex Labs Ltd.

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 PHONE: 604-984-0221

Co: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
 VANCOUVER, BC
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Project: BUCK
 Comments:

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 Certificate Date: 25-JUN-92
 Invoice No.: I9216242
 P.O. Number: KMI92-01
 Account: EIA

CERTIFICATE OF ANALYSIS A9216242

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
463774	205 274	< 1	0.02	40	790	100	2	10	60	< 0.01	< 10	< 10	74	20	518
463775	205 274	< 1	0.02	16	550	18	4	6	27	< 0.01	< 10	< 10	50	10	120
463776	205 274	1	0.03	5	550	2	< 2	2	25	< 0.01	< 10	< 10	24	< 10	88
463777	205 274	1	0.02	37	860	34	4	11	40	< 0.01	< 10	< 10	75	10	208
463778	205 274	1	0.02	25	810	30	4	8	15	< 0.01	< 10	< 10	63	10	176
463779	205 274	1	0.02	13	630	38	4	4	17	< 0.01	< 10	< 10	34	< 10	148
463780	205 274	1	0.02	5	550	32	2	1	6	< 0.01	< 10	< 10	7	< 10	82
463781	205 274	1	0.04	70	880	2	2	5	40	0.04	< 10	< 10	70	10	120
463782	205 274	< 1	0.06	4	240	< 2	< 2	1	8	0.04	< 10	< 10	23	< 10	46
463783	205 274	5	0.01	1	410	2	4	1	6	< 0.01	< 10	< 10	10	< 10	150
463784	205 274	1	0.45	14	940	2	< 2	15	121	0.21	< 10	< 10	131	20	74
463785	205 274	1	0.74	16	1100	4	2	12	180	0.19	< 10	< 10	152	20	48
463786	205 274	23	0.43	19	870	4	2	7	137	0.18	< 10	< 10	110	20	596
463787	205 274	4	0.20	19	760	92	< 2	15	81	0.19	< 10	< 10	164	40	7000
463788	205 274	7	0.56	23	750	46	< 2	9	204	0.18	< 10	< 10	127	50	5440
463789	205 274	14	0.39	8	790	14	< 2	5	149	0.11	< 10	< 10	94	30	4620
484951	205 274	3	0.01	34	3340	< 2	32	4	31	< 0.01	< 10	< 10	35	< 10	188
484952	205 274	1	0.02	< 1	780	20	4	1	37	< 0.01	< 10	< 10	4	< 10	110
484953	205 274	1	0.07	3	260	4	4	1	39	< 0.01	< 10	< 10	9	< 10	30
484954	205 274	1	0.03	13	550	42	2	3	39	< 0.01	< 10	< 10	24	10	188
484955	205 274	2	0.08	1	1300	4	2	3	23	0.08	< 10	< 10	23	< 10	42
484956	205 274	11	0.22	19	660	88	< 2	18	86	0.16	< 10	< 10	201	40	>10000
484957	205 274	5	0.62	12	850	12	< 2	16	143	0.17	< 10	< 10	191	30	3750
484958	205 274	< 1	0.22	5	940	40	< 2	7	43	0.10	< 10	< 10	75	240	>10000
484959	205 274	2	0.23	3	970	36	< 2	7	55	0.08	< 10	< 10	83	110	>10000
484960	205 274	31	0.10	28	400	4	2	9	19	0.19	< 10	< 10	148	< 10	270
484961	205 274	4	0.02	10	460	4	2	7	18	0.09	< 10	< 10	59	20	490
484962	205 274	< 1	0.31	9	490	18	< 2	5	73	0.07	< 10	< 10	50	10	1055
484963	205 274	5	0.44	5	980	18	4	8	104	0.11	< 10	< 10	77	20	478
484964	205 274	< 1	0.53	12	920	2	< 2	9	195	0.18	< 10	< 10	113	100	>10000
484965	205 274	1	0.13	5	1100	4	< 2	10	45	0.20	< 10	< 10	136	10	2790
484966	205 274	3	0.41	8	620	22	4	10	122	0.11	< 10	< 10	108	30	422
484967	205 274	1	0.50	30	890	2	< 2	11	132	0.16	< 10	< 10	104	10	64
484968	205 274	1	0.05	5	580	30	4	2	31	< 0.01	< 10	< 10	11	< 10	184
484969	205 274	10	0.02	4	450	2110	8	1	22	< 0.01	< 10	< 10	7	10	3230
484970	205 274	3	0.13	6	850	70	2	2	36	0.05	< 10	< 10	33	< 10	214
484971	205 274	3	< 0.01	2	450	382	6	1	4	< 0.01	< 10	< 10	3	< 10	1060
484974	205 274	5	0.11	14	630	8	2	11	25	0.20	< 10	< 10	90	< 10	62
484975	205 274	5	0.58	17	520	6	2	8	91	0.14	< 10	< 10	116	10	52
484976	205 274	27	0.26	9	770	2	< 2	9	49	0.14	< 10	< 10	81	< 10	26

CERTIFICATION: *Yhai D Ma*



Chemex Labs Ltd.

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

To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
 VANCOUVER, BC
 V6B 1N2

Project : BUCK
 Comments:

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 Account : EIA

CERTIFICATE OF ANALYSIS A9216242

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
484977	205 274	< 5	0.2	2.29	2	20	< 0.5	4	1.28	< 0.5	7	74	135	2.93	10	< 1	0.18	< 10	0.45	310
484979	205 274	< 5	< 0.2	6.04	4	30	< 0.5	6	4.08	< 0.5	16	17	52	3.80	10	< 1	0.11	< 10	1.86	1095
484980	205 274	< 5	0.2	1.92	16	20	< 0.5	18	0.90	< 0.5	9	87	217	3.93	10	3	0.05	< 10	0.77	855
484981	205 274	< 5	0.4	2.61	4	20	< 0.5	8	1.57	< 0.5	25	72	371	4.20	10	2	0.10	< 10	0.76	575
484982	205 274	< 5	< 0.2	2.12	< 2	10	< 0.5	< 2	1.18	< 0.5	15	73	264	10.60	10	3	0.19	< 10	0.91	1850
484983	205 274	< 5	0.2	2.67	96	60	< 0.5	< 2	5.05	0.5	13	100	30	3.93	< 10	2	0.19	< 10	1.80	3380
484984	205 274	< 5	< 0.2	2.17	< 2	30	< 0.5	26	0.87	< 0.5	46	105	85	8.60	10	2	0.88	< 10	1.96	1285
484985	205 274	< 5	< 0.2	1.18	12	60	< 0.5	10	0.22	< 0.5	4	78	50	4.34	< 10	< 1	0.36	< 10	0.46	255
465860	205 274	< 5	< 0.2	2.70	8	60	< 0.5	4	1.23	< 0.5	11	125	183	3.83	10	4	0.33	< 10	0.67	570
465861	205 274	< 5	< 0.2	4.16	16	50	< 0.5	8	2.43	< 0.5	13	70	133	3.51	10	< 1	0.10	< 10	0.72	540
465862	205 274	< 5	< 0.2	6.88	8	70	< 0.5	< 2	4.75	< 0.5	10	44	78	1.83	10	< 1	0.07	< 10	0.58	700
465863	205 274	< 5	< 0.2	4.66	12	50	< 0.5	4	2.79	< 0.5	13	97	151	2.73	10	< 1	0.06	< 10	0.31	235
465864	205 274	< 5	0.2	7.08	14	50	< 0.5	< 2	4.70	< 0.5	15	81	127	2.77	10	3	0.08	< 10	1.02	1055
465865	205 274	< 5	< 0.2	1.05	2	20	< 0.5	2	0.73	< 0.5	6	91	93	3.04	< 10	< 1	0.08	< 10	0.26	205

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207 - 675 W. HASTINGS ST.
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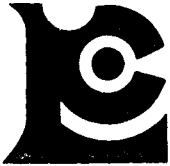
CERTIFICATE OF ANALYSIS

A9216242

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
484977	205	274	28	0.39	22	500	8	< 2	9	57	0.19	< 10	< 10	103	10	70
484979	205	274	< 1	0.67	7	680	< 2	< 2	9	296	0.26	< 10	< 10	146	30	234
484980	205	274	45	0.18	31	590	8	4	15	39	0.21	< 10	< 10	314	80	144
484981	205	274	30	0.40	24	660	< 2	4	11	77	0.21	< 10	< 10	177	50	48
484982	205	274	8	0.03	1	1000	< 2	4	4	48	0.15	< 10	< 10	49	670	114
484983	205	274	< 1	< 0.01	90	460	26	2	5	93	< 0.01	< 10	< 10	55	20	200
484984	205	274	18	0.10	31	840	< 2	6	12	56	0.18	< 10	< 10	154	580	98
484985	205	274	33	0.07	7	900	6	2	5	27	0.05	< 10	< 10	52	90	22
465860	205	274	13	0.36	16	640	< 2	4	12	63	0.18	< 10	< 10	103	30	98
465861	205	274	41	0.55	33	850	2	2	8	233	0.25	< 10	< 10	189	10	86
465862	205	274	2	0.99	40	1110	4	< 2	5	444	0.16	< 10	< 10	62	10	140
465863	205	274	66	0.78	63	720	< 2	2	6	216	0.18	< 10	< 10	116	10	36
465864	205	274	1	0.82	53	1210	6	< 2	7	301	0.20	< 10	< 10	120	40	388
465865	205	274	40	0.15	35	600	2	4	7	60	0.19	< 10	< 10	156	< 10	46

CERTIFICATION: _____

Phai D Ma



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

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Comments:

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P.O. Number : KMI92-01
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CERTIFICATE OF ANALYSIS A9216220

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	As ppm	Bi ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
465866	205 274	< 5	0.2	44	< 2	12	< 1	2	26	< 2	290
465867	205 274	< 5	< 0.2	8	< 2	13	< 1	< 1	8	< 2	120
465868	205 274	< 5	< 0.2	4	< 2	38	< 1	3	6	< 2	22
465869	205 274	< 5	0.4	< 2	10	351	< 1	70	8	< 2	44
465870	205 274	< 5	0.2	10	10	210	1	29	18	< 2	302

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207 - 675 W. HASTINGS ST.
VANCOUVER, BC
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Invoice No. : 19216765
P.O. Number : KMI92-01
Account : EIA

CERTIFICATE OF ANALYSIS

A9216765

SAMPLE	PREP CODE	Zn %										
484956	244 --	1.19										
484959	244 --	2.01										
484964	244 --	1.51										

CERTIFICATION:

A. Kristin



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Account : EIA

CERTIFICATE OF ANALYSIS

A9221041

SAMPLE	PREP CODE	Zn %									
489958	244 --	2.73									

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Project : BUCK
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 Invoice No. : I9216241
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 Account : EIA

CERTIFICATE OF ANALYSIS A9216241

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
484972 SILT	201 229	45	1.4	2.15	140	250	1.5	2	2.05	8.0	7	27	93	2.88	< 10	< 1	0.16	10	0.54	920
484973 SILT	201 229	< 5	0.6	2.30	24	490	1.5	< 2	1.36	< 0.5	8	24	30	3.01	< 10	1	0.15	20	0.46	1040
1+00S 3+00W	201 229	< 5	< 0.2	3.33	16	70	0.5	10	0.58	< 0.5	18	21	41	4.69	10	1	0.05	< 10	0.52	570
1+00S 4+00W	201 229	45	< 0.2	2.97	44	80	0.5	54	0.45	1.5	18	18	91	6.97	< 10	< 1	0.12	< 10	0.51	590
1+00S 5+00W	201 229	< 5	< 0.2	2.24	30	60	< 0.5	2	0.60	2.5	13	20	27	3.65	< 10	< 1	0.06	< 10	0.32	935
1+00S 6+00W	201 229	< 5	1.0	3.12	58	70	< 0.5	22	0.53	1.5	20	25	50	6.06	< 10	< 1	0.08	< 10	0.54	1240
1+00S 7+00W	201 229	< 5	< 0.2	2.74	46	70	< 0.5	2	0.33	< 0.5	12	21	23	3.78	< 10	< 1	0.06	< 10	0.42	555
2+00S 3+00W	201 229	< 5	< 0.2	2.87	10	80	< 0.5	< 2	0.70	< 0.5	19	16	19	4.23	< 10	< 1	0.07	< 10	0.63	555
2+00S 4+00W	201 229	< 5	< 0.2	2.22	40	60	< 0.5	< 2	0.53	3.0	15	19	22	3.75	< 10	< 1	0.06	< 10	0.42	825
2+00S 5+00W	201 229	< 5	< 0.2	3.40	164	40	< 0.5	4	0.43	1.5	30	21	201	6.35	< 10	< 1	0.05	10	0.57	2060
3+00S 3+00W	201 229	< 5	< 0.2	4.05	28	50	< 0.5	4	0.72	< 0.5	27	46	174	6.67	< 10	< 1	0.06	< 10	0.77	1175
3+00S 5+00W	201 229	< 5	< 0.2	2.31	20	80	< 0.5	2	0.45	0.5	8	20	20	3.26	< 10	< 1	0.06	< 10	0.42	450
4+00S 1+90W	201 229	< 5	< 0.2	2.75	34	90	< 0.5	< 2	0.48	0.5	15	18	17	3.91	< 10	< 1	0.07	< 10	0.48	885
4+00S 6+00W	201 229	< 5	< 0.2	2.64	28	80	< 0.5	18	0.36	0.5	13	20	33	3.73	< 10	< 1	0.06	< 10	0.41	670
5+00S 0+50E	201 229	< 5	0.4	2.94	56	90	< 0.5	< 2	0.18	< 0.5	10	50	15	4.04	< 10	< 1	0.05	< 10	0.46	255
5+00S 1+00E	201 229	< 5	0.6	3.53	114	150	< 0.5	< 2	0.70	6.5	23	142	27	4.45	< 10	< 1	0.08	< 10	1.72	2500
5+00S 2+00E	201 229	< 5	0.2	2.37	26	100	< 0.5	< 2	0.49	0.5	10	26	21	3.60	< 10	< 1	0.07	< 10	0.47	380
5+00S 1+00W	201 229	15	< 0.2	2.84	32	80	< 0.5	18	0.27	11.5	17	21	111	6.90	< 10	< 1	0.08	< 10	0.40	765
5+00S 6+00W	201 229	< 5	< 0.2	3.75	30	70	< 0.5	36	0.49	1.0	29	24	221	5.82	< 10	< 1	0.09	< 10	0.48	1375
6+00S 1+50E	201 229	< 5	1.2	5.89	306	170	< 0.5	< 2	1.44	7.0	39	31	68	5.82	< 10	< 1	0.06	10	0.34	1390
10+00S 4+15W	201 229	30	< 0.2	2.45	32	60	< 0.5	< 2	0.45	< 0.5	12	27	29	3.70	< 10	< 1	0.06	10	0.47	500
10+00S 5+00W	201 229	< 5	0.4	1.83	30	60	< 0.5	< 2	0.47	< 0.5	10	24	18	3.56	< 10	< 1	0.08	< 10	0.36	540
11+00S 0+00E	201 229	< 5	0.8	3.16	98	120	< 0.5	< 2	1.31	10.5	29	42	161	3.95	< 10	< 1	0.06	30	0.49	3050
11+00S 1+00W	201 229	< 5	< 0.2	2.56	56	80	< 0.5	< 2	1.25	< 0.5	11	26	142	3.20	< 10	< 1	0.05	10	0.42	505
11+00S 5+00W	201 229	30	0.4	1.81	132	120	< 0.5	< 2	0.43	< 0.5	10	25	96	4.11	< 10	< 1	0.06	20	0.55	645
11+00S 6+00W	201 229	< 5	< 0.2	2.44	70	70	< 0.5	< 2	0.47	< 0.5	8	25	24	3.23	< 10	< 1	0.03	< 10	0.38	190
12+00S 0+00E	201 229	< 5	< 0.2	1.58	28	50	< 0.5	< 2	0.44	< 0.5	5	24	11	3.13	< 10	< 1	0.06	< 10	0.38	225
12+00S 2+50W	201 229	60	0.8	2.19	170	140	< 0.5	< 2	2.81	3.5	11	17	140	4.21	< 10	< 1	0.06	10	0.52	570
12+00S 3+00W	201 229	< 5	< 0.2	2.50	64	90	< 0.5	< 2	0.39	< 0.5	13	45	18	4.34	< 10	< 1	0.12	10	0.98	880
12+00S 4+00W	201 229	< 5	< 0.2	2.72	70	50	< 0.5	2	0.31	< 0.5	14	47	21	5.39	< 10	< 1	0.14	10	1.42	780
13+00S 2+34W	201 229	120	4.6	2.23	174	130	< 0.5	18	0.23	0.5	37	23	358	14.00	< 10	< 1	0.12	30	0.45	5000
13+60S 1+00W	201 229	< 5	0.4	3.23	1700	190	< 0.5	< 2	0.56	< 0.5	18	21	81	10.45	< 10	< 1	0.13	20	0.25	3280
13+60S 1+50W	201 229	< 5	0.4	2.71	294	90	< 0.5	< 2	0.77	< 0.5	22	28	67	7.06	< 10	< 1	0.09	30	0.90	1345
13+60S 2+00W	201 229	65	1.8	2.90	192	80	< 0.5	8	0.20	< 0.5	29	42	581	11.65	< 10	< 1	0.11	10	0.96	2960
13+60S 2+40W	201 229	< 5	< 0.2	2.11	24	90	< 0.5	< 2	0.34	< 0.5	10	26	21	3.22	< 10	< 1	0.08	10	0.46	285
14+00S 1+25W	201 229	< 5	0.2	1.79	142	80	< 0.5	< 2	1.43	< 0.5	17	18	56	4.76	< 10	< 1	0.07	20	0.53	1045
14+00S 1+50W	201 229	20	0.4	2.10	216	100	< 0.5	< 2	0.94	< 0.5	15	32	70	4.96	< 10	< 1	0.15	20	0.84	1370
14+00S 2+15W	201 229	< 5	2.0	3.12	186	140	< 0.5	70	0.14	< 0.5	30	25	210	11.65	< 10	< 1	0.08	< 10	0.98	2340
15+00S 0+50W	201 229	< 5	< 0.2	1.68	18	60	< 0.5	< 2	0.20	< 0.5	6	19	12	2.63	< 10	< 1	0.04	< 10	0.25	405

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 VANCOUVER, BC
 V6B 1N2

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 Comments:

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A9216241

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
484972 SILT	201 229	1	0.04	44	940	62	< 2	4	100	0.07	< 10	< 10	56	10	1350
484973 SILT	201 229	1	0.02	18	1010	22	2	5	128	0.03	< 10	< 10	44	10	132
1+00S 3+00W	201 229	11	0.02	27	520	14	2	5	40	0.19	< 10	< 10	102	10	564
1+00S 4+00W	201 229	10	0.02	35	460	22	2	4	40	0.21	< 10	< 10	106	10	668
1+00S 5+00W	201 229	9	0.01	30	310	18	< 2	5	38	0.20	< 10	< 10	101	10	680
1+00S 6+00W	201 229	17	0.02	29	690	30	2	6	36	0.19	< 10	< 10	132	40	850
1+00S 7+00W	201 229	5	0.01	20	1430	18	2	5	25	0.15	< 10	< 10	91	10	380
2+00S 3+00W	201 229	5	0.03	13	560	12	4	4	43	0.24	< 10	< 10	113	10	522
2+00S 4+00W	201 229	3	0.01	22	810	18	4	3	41	0.16	< 10	< 10	99	10	806
2+00S 5+00W	201 229	40	0.02	109	550	24	2	13	26	0.09	< 10	< 10	186	20	1360
3+00S 3+00W	201 229	18	0.09	47	1180	18	2	7	39	0.14	< 10	< 10	121	10	494
3+00S 5+00W	201 229	4	0.01	24	780	14	< 2	4	38	0.16	< 10	< 10	86	10	546
4+00S 1+90W	201 229	1	0.01	16	660	12	< 2	4	31	0.15	< 10	< 10	83	10	630
4+00S 6+00W	201 229	8	0.01	40	300	24	4	4	35	0.18	< 10	< 10	91	20	1270
5+00S 0+50E	201 229	2	0.01	33	710	20	2	5	14	0.15	< 10	< 10	96	< 10	380
5+00S 1+00E	201 229	4	0.01	72	430	54	4	8	42	0.07	< 10	< 10	120	20	1630
5+00S 2+00E	201 229	1	0.01	22	420	22	< 2	4	38	0.21	< 10	< 10	88	10	220
5+00S 1+00W	201 229	1	0.02	15	990	34	2	5	30	0.12	< 10	< 10	78	10	1505
5+00S 6+00W	201 229	19	0.02	37	750	38	< 2	7	33	0.15	< 10	< 10	113	70	608
6+00S 1+50E	201 229	5	0.01	40	1210	68	< 2	5	98	0.06	< 10	< 10	78	20	1800
10+00S 4+15W	201 229	< 1	0.02	23	310	22	< 2	5	37	0.20	< 10	< 10	85	10	142
10+00S 5+00W	201 229	1	0.01	14	710	20	2	4	35	0.15	< 10	< 10	80	< 10	222
11+00S 0+00E	201 229	3	0.01	93	590	112	2	8	80	0.06	< 10	< 10	75	10	2120
11+00S 1+00W	201 229	1	0.02	237	400	26	< 2	7	54	0.14	< 10	< 10	57	10	418
11+00S 5+00W	201 229	1	0.01	29	440	40	2	7	34	0.13	< 10	< 10	70	< 10	162
11+00S 6+00W	201 229	< 1	0.01	37	140	14	2	4	36	0.14	< 10	< 10	77	< 10	150
12+00S 0+00E	201 229	< 1	0.01	13	430	16	2	3	31	0.16	< 10	< 10	79	< 10	182
12+00S 2+50W	201 229	1	0.01	34	830	24	2	3	123	0.01	< 10	< 10	48	20	1140
12+00S 3+00W	201 229	< 1	0.01	28	520	34	2	5	23	0.06	< 10	< 10	76	10	392
12+00S 4+00W	201 229	1	0.02	28	870	30	2	5	17	0.04	< 10	< 10	75	10	228
13+00S 2+34W	201 229	4	< 0.01	51	1510	198	10	18	18	< 0.01	< 10	< 10	69	< 10	542
13+60S 1+00W	201 229	5	< 0.01	27	510	598	8	13	33	< 0.01	< 10	< 10	37	10	560
13+60S 1+50W	201 229	3	0.01	26	1030	110	4	9	33	0.02	< 10	< 10	75	10	248
13+60S 2+00W	201 229	2	< 0.01	62	1000	94	6	15	14	< 0.01	< 10	< 10	107	10	378
13+60S 2+40W	201 229	2	0.01	18	560	26	4	4	28	0.13	< 10	< 10	74	< 10	96
14+00S 1+25W	201 229	3	< 0.01	22	910	50	6	7	54	0.01	< 10	< 10	49	10	174
14+00S 1+50W	201 229	3	0.01	19	1140	58	6	8	37	0.01	< 10	< 10	54	10	292
14+00S 2+15W	201 229	< 1	< 0.01	32	1710	164	10	14	11	< 0.01	< 10	< 10	154	10	418
15+00S 0+50W	201 229	1	< 0.01	12	690	20	< 2	3	14	0.09	< 10	< 10	58	< 10	172

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CERTIFICATE OF ANALYSIS

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SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
	FA+AA																				
15+00S 1+50W	201	229	< 5	0.6	2.91	198	110	< 0.5	2	0.21	< 0.5	11	29	66	6.05	< 10	< 1	0.06	< 10	0.55	695
15+00S 2+50W	201	229	< 5	< 0.2	2.33	14	100	< 0.5	< 2	0.35	< 0.5	8	23	13	3.28	< 10	< 1	0.05	< 10	0.28	235
15+00S 3+00W	201	229	< 5	< 0.2	2.58	12	90	< 0.5	< 2	0.35	< 0.5	10	37	21	3.39	< 10	< 1	0.05	< 10	0.55	495
15+00S 4+00W	201	229	< 5	0.2	2.95	74	100	< 0.5	< 2	0.58	4.5	23	28	70	5.23	< 10	< 1	0.12	10	0.58	2800
16+00S 2+00W	201	229	20	< 0.2	1.66	172	90	< 0.5	< 2	0.23	1.0	9	16	19	3.71	< 10	< 1	0.10	10	0.29	865
16+00S 2+50W	201	229	< 5	0.4	2.53	108	160	< 0.5	< 2	0.34	< 0.5	18	91	23	4.85	< 10	< 1	0.18	10	0.51	1005
16+00S 5+00W	201	229	< 5	0.4	3.00	308	170	< 0.5	< 2	0.29	< 0.5	20	165	133	8.13	< 10	< 1	0.30	20	0.35	2920
30+00S 4+00E	201	229	40	10.0	2.94	226	170	< 0.5	< 2	0.30	2.5	15	60	112	6.26	< 10	< 1	0.25	10	0.61	1405

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SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
15+00S 1+50W	201	229	3	0.01	46	690	66	4	5	17	0.12	< 10	< 10	91	10	320
15+00S 2+50W	201	229	< 1	0.01	18	1210	10	2	3	28	0.16	< 10	< 10	80	< 10	88
15+00S 3+00W	201	229	< 1	0.01	23	920	22	2	4	24	0.16	< 10	< 10	84	< 10	138
15+00S 4+00W	201	229	1	0.01	27	530	64	< 2	5	36	0.10	< 10	< 10	73	10	746
16+00S 2+00W	201	229	2	< 0.01	13	480	30	6	2	20	0.05	< 10	< 10	55	< 10	382
16+00S 2+50W	201	229	2	0.02	26	1000	24	2	4	28	0.09	< 10	< 10	75	10	388
16+00S 5+00W	201	229	16	0.03	35	820	30	8	4	31	0.05	< 10	< 10	51	10	606
30+00S 4+00E	201	229	5	0.01	140	440	608	6	9	22	0.05	< 10	< 10	67	10	1325

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SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	As ppm	Bi ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
BL 1+00N	201	229	< 5	< 0.2	24	4	128	< 1	7	22	< 2	834
0+00 2+50W	201	229	< 5	< 0.2	12	2	56	< 1	19	16	< 2	264
0+00 3+50W	201	229	< 5	0.2	102	4	120	< 1	9	32	4	510
0+00 4+50W	201	229	< 5	0.2	70	16	102	< 1	16	36	4	518
2+00N 1+50E	201	229	< 5	0.4	94	2	13	< 1	2	72	2	468
3+00S 0+50E	201	229	< 5	0.2	22	2	11	< 1	1	16	2	494
16+00S 4+50W	201	229	< 5	< 0.2	< 2	2	12	< 1	< 1	22	< 2	344

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APPENDIX E

COMPARISON OF BP AND 1992 SOIL SAMPLES

**Soil Geochemical Comparison:
1992 Sampling vs. BP (1982) Sampling**

Note: Anomalous values (≥ 65 ppb Au, ≥ 0.7 ppm Ag, ≥ 60 ppm As, ≥ 32 ppm Cu, ≥ 33 ppm Pb or ≥ 396 ppm Zn) have been underlined for comparison purposes.

STATION		Au		Ag		As		Cu		Pb		Zn	
		92	BP	92	BP	92	BP	92	BP	92	BP	92	BP
BL	1+00N	<5	5	<0.2	0.2	24	35	<u>128</u>	<u>99</u>	22	25	<u>834</u>	<u>776</u>
	2+00N	<5	20	0.4	<u>0.7</u>	<u>94</u>	<u>338</u>	13	<u>48</u>	<u>72</u>	<u>300</u>	<u>468</u>	<u>751</u>
	0+00N	<5	5	<0.2	0.2	12	<u>137</u>	<u>56</u>	<u>46</u>	16	27	264	<u>831</u>
	0+00N	<5	5	0.2	0.2	<u>102</u>	<u>413</u>	<u>120</u>	<u>126</u>	32	24	<u>510</u>	<u>861</u>
	0+00N	<5	5	0.2	0.2	<u>70</u>	<u>72</u>	<u>102</u>	<u>54</u>	<u>36</u>	<u>54</u>	<u>518</u>	<u>786</u>
	1+00S	<5	5	<0.2	0.1	16	17	<u>41</u>	<u>38</u>	14	16	<u>564</u>	<u>747</u>
	1+00S	45	5	<0.2	0.6	44	32	<u>91</u>	30	22	29	<u>668</u>	<u>730</u>
	1+00S	<5	5	<0.2	0.1	30	33	27	25	18	19	<u>680</u>	<u>828</u>
	1+00S	<5	5	<u>1.0</u>	0.3	58	52	<u>50</u>	<u>32</u>	30	<u>38</u>	<u>850</u>	<u>767</u>
	1+00S	<5	5	<0.2	0.1	46	33	23	12	18	18	380	<u>670</u>
	2+00S	<5	5	<0.2	0.1	10	17	19	17	12	11	<u>522</u>	<u>798</u>
	2+00S	<5	5	<0.2	0.1	40	7	22	<u>51</u>	18	7	<u>806</u>	<u>630</u>
	2+00S	<5	5	<0.2	0.1	<u>164</u>	<u>170</u>	<u>201</u>	<u>116</u>	24	24	<u>1358</u>	<u>1192</u>
	3+00S	<5	5	0.2	0.2	22	<u>107</u>	11	13	16	23	<u>494</u>	<u>733</u>
	3+00S	<5	5	<0.2	0.1	28	29	<u>174</u>	<u>172</u>	18	16	<u>494</u>	<u>941</u>
	3+00S	<5	5	<0.2	0.1	20	14	20	15	14	11	<u>546</u>	236
	4+00S	<5	5	<0.2	0.1	34	<u>77</u>	17	13	12	15	<u>630</u>	<u>793</u>
	4+00S	<5	5	<0.2	0.2	28	14	<u>33</u>	<u>50</u>	24	23	<u>1272</u>	<u>831</u>
	5+00S	<5	5	0.4	<u>0.8</u>	56	<u>186</u>	15	12	20	17	380	194
	5+00S	<5	5	0.6	<u>1.2</u>	<u>114</u>	<u>146</u>	27	<u>106</u>	<u>54</u>	<u>43</u>	<u>1632</u>	<u>2081</u>
	5+00S	<5	5	0.2	0.3	26	50	21	15	22	<u>40</u>	220	388
	5+00S	15	5	<0.2	0.3	32	38	<u>111</u>	16	<u>34</u>	27	<u>1506</u>	<u>454</u>
	5+00S	<5	5	<0.2	0.6	30	25	<u>221</u>	<u>110</u>	<u>38</u>	23	<u>608</u>	359
	6+00S	<5	10	<u>1.2</u>	<u>0.9</u>	<u>306</u>	<u>384</u>	<u>68</u>	30	<u>68</u>	<u>110</u>	<u>1800</u>	<u>824</u>
	10+00S	30	5	<0.2	0.1	32	28	29	11	22	22	142	142
	10+00S	<5	<u>105</u>	0.4	0.6	30	30	18	15	20	28	222	188
	11+00S	<5	5	<u>0.8</u>	<u>0.7</u>	<u>98</u>	36	<u>161</u>	<u>177</u>	<u>112</u>	<u>60</u>	<u>2118</u>	<u>1251</u>
	11+00S	<5	5	<0.2	0.3	56	31	<u>142</u>	<u>51</u>	26	<u>54</u>	<u>418</u>	<u>836</u>
	11+00S	30	5	0.4	0.4	<u>132</u>	<u>100</u>	<u>96</u>	26	<u>40</u>	<u>69</u>	162	238
	11+00S	<5	15	<0.2	0.1	<u>70</u>	<u>163</u>	24	<u>82</u>	14	<u>48</u>	150	<u>487</u>
	12+00S	<5	5	<0.2	0.1	28	15	11	8	16	9	182	145
	12+00S	60	10	<u>0.8</u>	<u>2.2</u>	<u>170</u>	<u>130</u>	<u>140</u>	<u>129</u>	24	32	<u>1140</u>	<u>847</u>
	12+00S	<5	5	<0.2	0.4	<u>64</u>	59	18	20	<u>34</u>	<u>56</u>	392	<u>713</u>
	12+00S	<5	5	<0.2	0.2	<u>70</u>	<u>220</u>	21	30	30	<u>73</u>	228	337
	13+00S	<u>120</u>	25	<u>4.6</u>	<u>2.2</u>	<u>174</u>	<u>170</u>	<u>358</u>	<u>166</u>	<u>198</u>	<u>120</u>	<u>542</u>	329
	13+60S	<5	10	0.4	0.4	<u>1700</u>	<u>137</u>	<u>81</u>	<u>63</u>	<u>598</u>	<u>33</u>	<u>560</u>	<u>420</u>
	13+60S	<5	15	0.4	0.1	<u>294</u>	<u>256</u>	<u>67</u>	29	<u>110</u>	27	248	247
	13+60S	<u>65</u>	45	<u>1.8</u>	<u>1.9</u>	<u>192</u>	<u>157</u>	<u>581</u>	<u>133</u>	<u>94</u>	<u>81</u>	378	364
	13+60S	<5	5	<0.2	<u>1.1</u>	24	59	21	<u>92</u>	26	<u>40</u>	96	206
	14+00S	<5	5	0.2	0.5	<u>142</u>	<u>172</u>	<u>56</u>	<u>77</u>	<u>50</u>	<u>58</u>	174	166
	14+00S	20	<u>165</u>	0.4	<u>3.1</u>	<u>216</u>	<u>219</u>	<u>70</u>	<u>359</u>	<u>58</u>	<u>139</u>	292	370
	14+00S	<5	10	<u>2.0</u>	<u>1.9</u>	<u>186</u>	<u>100</u>	<u>210</u>	<u>48</u>	<u>164</u>	<u>57</u>	<u>418</u>	209
	15+00S	<5	?	<0.2	?	18	?	12	?	20	?	172	?
	15+00S	<5	?	0.6	?	<u>198</u>	?	<u>66</u>	?	<u>66</u>	?	320	?
	15+00S	<5	5	<0.2	0.2	14	24	13	12	10	14	88	101
	15+00S	<5	5	<0.2	<u>1.3</u>	12	<u>104</u>	21	30	22	<u>35</u>	138	237
	15+00S	<5	5	0.2	<u>1.8</u>	<u>74</u>	<u>180</u>	<u>70</u>	<u>54</u>	<u>64</u>	<u>233</u>	<u>746</u>	<u>1265</u>
	16+00S	20	10	<0.2	<u>1.8</u>	<u>172</u>	<u>279</u>	19	18	30	31	382	<u>407</u>
	16+00S	<5	5	0.4	<u>0.7</u>	<u>108</u>	<u>214</u>	23	<u>43</u>	24	<u>37</u>	388	299
	16+00S	<5	5	<0.2	0.6	<2	<u>440</u>	12	<u>106</u>	22	<u>56</u>	344	<u>481</u>
	16+00S	<5	5	0.4	<u>3.0</u>	<u>308</u>	<u>320</u>	<u>133</u>	<u>508</u>	30	<u>144</u>	<u>606</u>	<u>911</u>
	30+00S	40	5	<u>10.0</u>	<u>1.1</u>	<u>226</u>	<u>61</u>	<u>112</u>	25	<u>608</u>	<u>80</u>	<u>1326</u>	245

APPENDIX F

GEOLOGIST'S CERTIFICATE

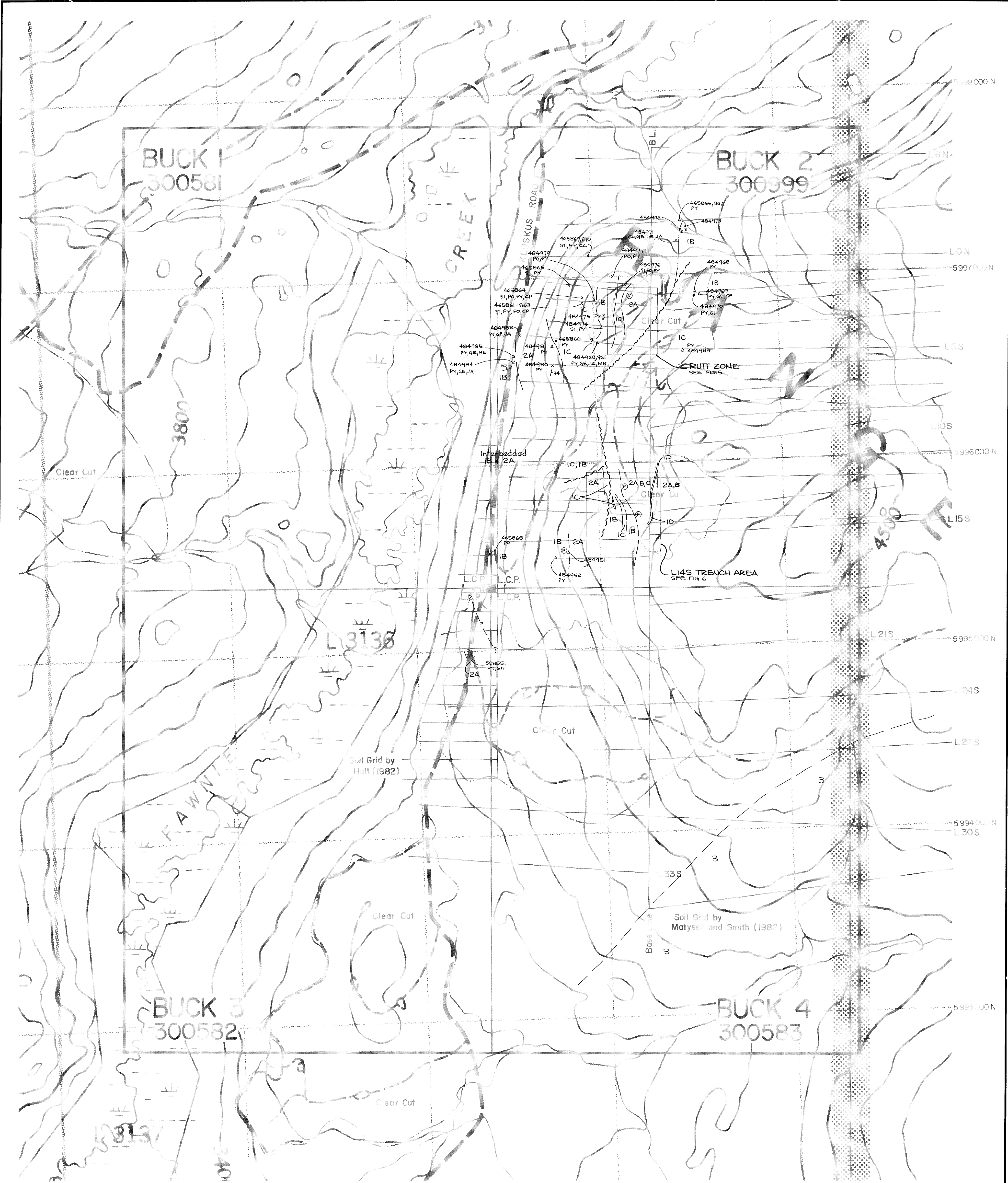
GEOLOGIST'S CERTIFICATE

I, DAVID A. CAULFIELD, of 3142 Gambier Street, Coquitlam, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Consulting Geologist with offices at Suite 207, 675 West Hastings Street, Vancouver, British Columbia.
2. THAT I am a graduate of the University of British Columbia with a Bachelor of Science degree in Geology.
3. THAT I am a Professional Geoscientist registered in good standing with the Association of Professional Engineers and Geoscientists of the Province of British Columbia.
4. THAT this report is based on fieldwork carried out under my direction in June 1992, government publications and assessment reports filed with the Province of British Columbia. I have examined the property in the field.

DATED at Vancouver, British Columbia, this _____ day of _____, 1992.

David A. Caulfield, P.Geo.



LEGEND

LITHOLOGIES

- LATE CRETACEOUS**
 Quanchus Intrusions
 3 Quartz-monzonite to granodiorite
- EARLY TO MIDDLE JURASSIC**
 Hazelton Group
 2 Epiclastics
 2A Interbedded argillite/siltstone
 2B Interbedded greywacke/siltstone
 2C Conglomerate
 1 Volcanics
 1A Ankeritic rhyolite breccia
 1B Rhyolite tuff breccia
 1C Lapilli tuff
 1D Augite Porphyry

ALTERATION AND MINERALIZATION

- | | | |
|---------------|--------------|-----------------|
| CC Chalcocite | CL Chlorite | CP Chalcopyrite |
| GE Goethite | GL Galena | HE Hematite |
| JA Jarosite | MN Mn-oxides | PO Pyrrhotite |
| PY Pyrite | SI Silica | SP Sphalerite |

SYMBOLS

- Rock outcrop
- Geological boundary (defined, inferred)
- Fault (inferred)
- Bedding with dip
- Rock sample (float, outcrop)
- Silt sample location
- Fossil location
- Legal corner post (located)

1992 ROCK GEOCHEMICAL ANALYSES

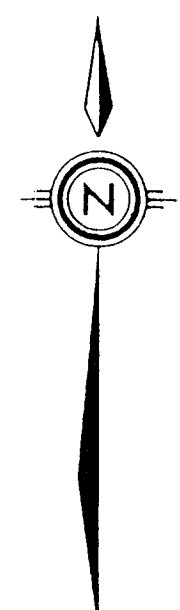
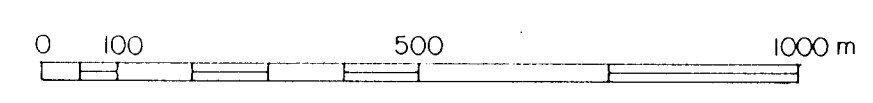
Sample	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
465860	<5	<0.2	8	183	<2	98
465861	<5	<0.2	16	133	2	86
465862	<5	<0.2	8	78	4	140
465863	<5	<0.2	12	151	<2	36
465864	<5	0.2	14	127	6	388
465865	<5	<0.2	2	93	2	46
465866	<5	0.2	44	12	26	290
465867	<5	<0.2	8	13	8	120
465868	<5	<0.2	4	38	6	22
465869	<5	0.4	<2	351	8	44
465870	<5	0.2	10	210	18	302
484951	<5	<0.2	1565	34	<2	188
484952	<5	0.2	12	39	20	110
484960	<5	0.2	28	78	4	270
484961	<5	0.4	6	30	4	490
484968	<5	0.4	278	21	30	184
484969	5	17.8	96	71	2110	3230
484970	<5	0.4	122	28	70	214
484971	<5	1.8	314	75	382	1060
484974	<5	<0.2	10	56	8	62
484975	<5	<0.2	<2	57	6	52
484976	<5	<0.2	10	90	2	26
484977	<5	0.2	2	135	8	70
484979	<5	<0.2	4	52	<2	234
484980	<5	0.2	15	217	8	144
484981	<5	0.4	4	371	<2	48
484982	<5	<0.2	<2	264	<2	114
484983	<5	0.2	96	30	26	200
484984	<5	<0.2	<2	85	<2	98
484985	<5	<0.2	12	50	6	22
508551	<5	<0.2	25	48	20	108

1992 SILT GEOCHEMICAL ANALYSES

Sample	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
484972	45	1.4	140	93	62	1350
484973	<5	0.6	24	30	22	132

GEOLOGICAL BRANCH ASSESSMENT REPORT

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WESTERN KELTIC MINES INC.

BUCK 1-4 CLAIMS
GEOLOGY & GEOCHEMISTRY
 BRITISH COLUMBIA

EQUITY ENGINEERING LTD.

DRAWN: /J.J.E.	MINING DIV.: OMINECA	FIGURE 4
N.T.S.: 93F/3E	SCALE: 1:10000	
DATE: SEPT./92	REVISED:	

1992 ROCK GEOCHEMICAL ANALYSES

Sample	Au(ppb)	Ag(ppm)	As(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)
463784	<5	0.2	<2	61	2	74
463785	<5	<0.2	<2	127	4	48
463786	40	0.2	<2	154	4	596
463787	435	5.4	<2	189	92	7000
463788	125	2.2	<2	153	46	5440
463789	70	1.0	<2	265	14	4620
484955	<5	<0.2	<2	24	4	42
484956	655	3.4	4	284	88	1.19%
484957	40	0.8	4	217	12	3750
484958	15	0.6	<2	478	40	2.73%
484959	10	0.2	2	306	36	2.01%
484962	<5	0.2	6	131	18	1055
484963	<5	0.6	2	678	18	478
484964	<5	0.2	2	392	2	1.51%
484965	<5	<0.2	6	199	4	2790
484966	<5	1.0	<2	485	22	422
484967	<5	0.2	<2	92	2	64

RUTT ZONE
CL, SI, CY, MS, CB
(gossan-GE)

RUTT ZONE
CL, CY, MS
(gossan-GE, JA)

LEGEND

LITHOLOGIES

- EARLY TO MIDDLE JURASSIC
Hazelton Group
- 2 Epiclastics
 - 2A Interbedded argillite/siltstone
 - 1 Volcanics
 - 1B Rhyolite tuff breccia ; flow banded (1B_f)
 - 1C Lapilli tuff

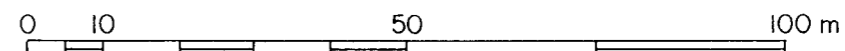
ALTERATION AND MINERALIZATION

- | | | | | | |
|----|--------------|----|------------|----|--------------|
| CB | Fe-carbonate | CL | Chlorite | CP | Chalcopyrite |
| CY | Clay | GE | Goethite | JA | Jarosite |
| MS | Sericite | PO | Pyrrhotite | PY | Pyrite |
| SP | Sphalerite | | | | |

SYMBOLS

- Rock outcrop
- Geological boundary (defined, inferred)
- Bedding with dip
- Joint with dip
- Rock sample (float, outcrop)
- Soil sample location
- Fossil location
- Survey point
- Hand trench
- Road
- Swamp

GEOLOGICAL BRANCH
ASSESSMENT REPORT
22,569



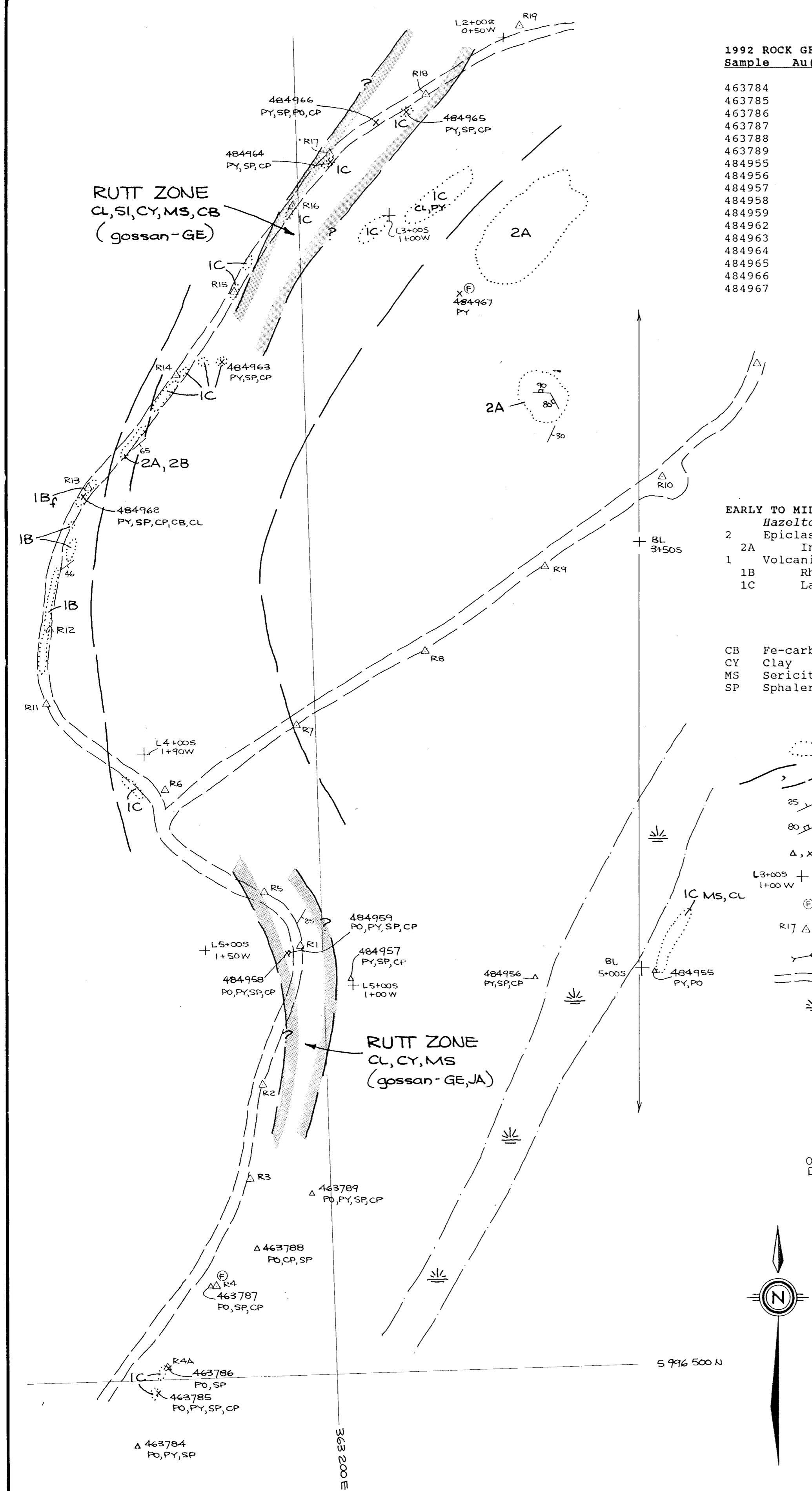
WESTERN KELTIC MINES INC.

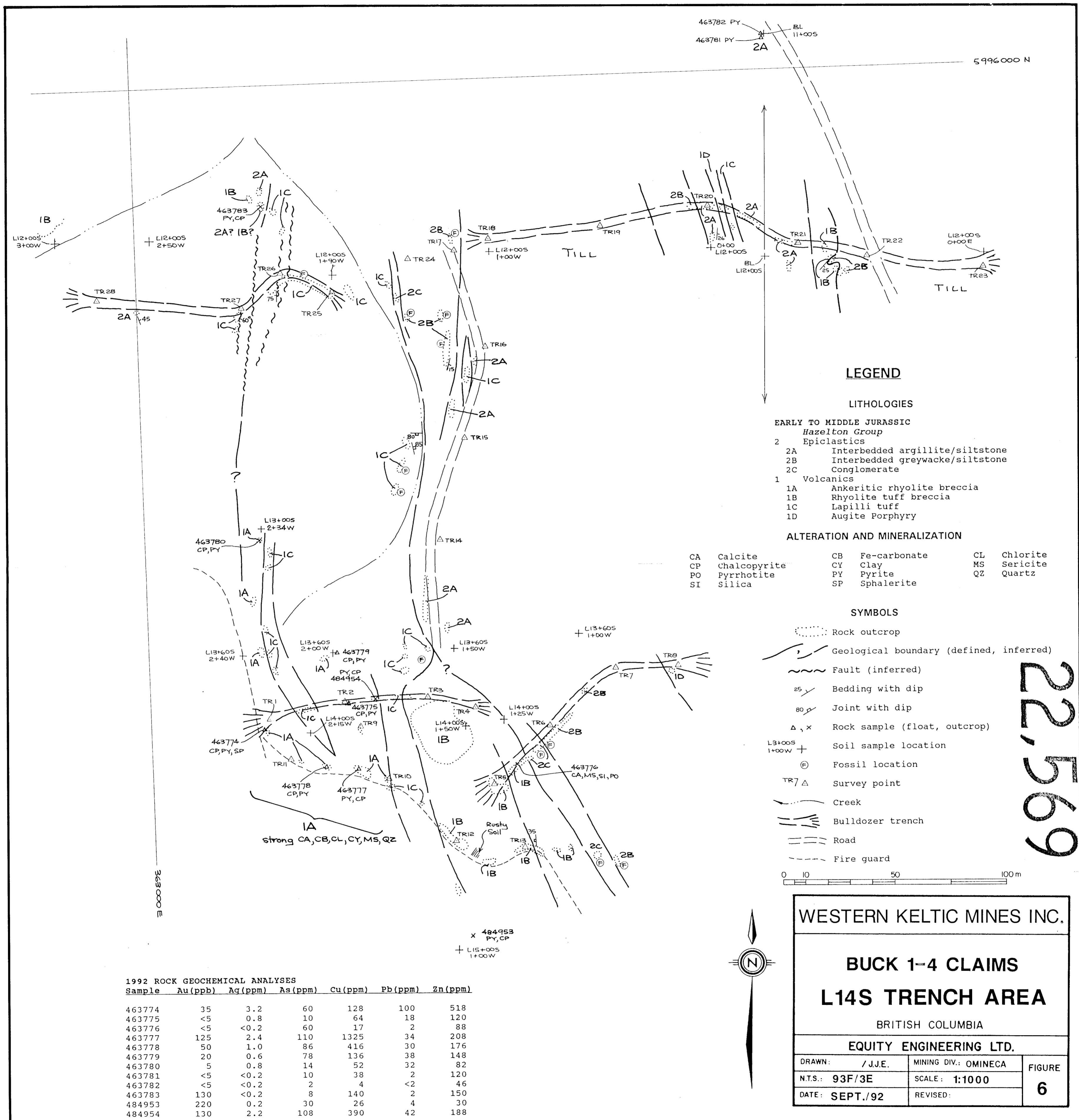
**BUCK 1-4 CLAIMS
RUTT ZONE**

BRITISH COLUMBIA

EQUITY ENGINEERING LTD.

DRAWN: /J.J.E.	MINING DIV.: OMINECA	FIGURE 5
N.T.S.: 93F/3E	SCALE: 1:1000	
DATE: SEPT./92	REVISED:	





1992 ROCK GEOCHEMICAL ANALYSES

Sample	Au(ppb)	Ag(ppm)	As(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)
463774	35	3.2	60	128	100	518
463775	<5	0.8	10	64	18	120
463776	<5	<0.2	60	17	2	88
463777	125	2.4	110	1325	34	208
463778	50	1.0	86	416	30	176
463779	20	0.6	78	136	38	148
463780	5	0.8	14	52	32	82
463781	<5	<0.2	10	38	2	120
463782	<5	<0.2	2	4	<2	46
463783	130	<0.2	8	140	2	150
484953	220	0.2	30	26	4	30
484954	130	2.2	108	390	42	188

WESTERN KELTIC MINES INC.

BUCK 1-4 CLAIMS

L14S TRENCH AREA

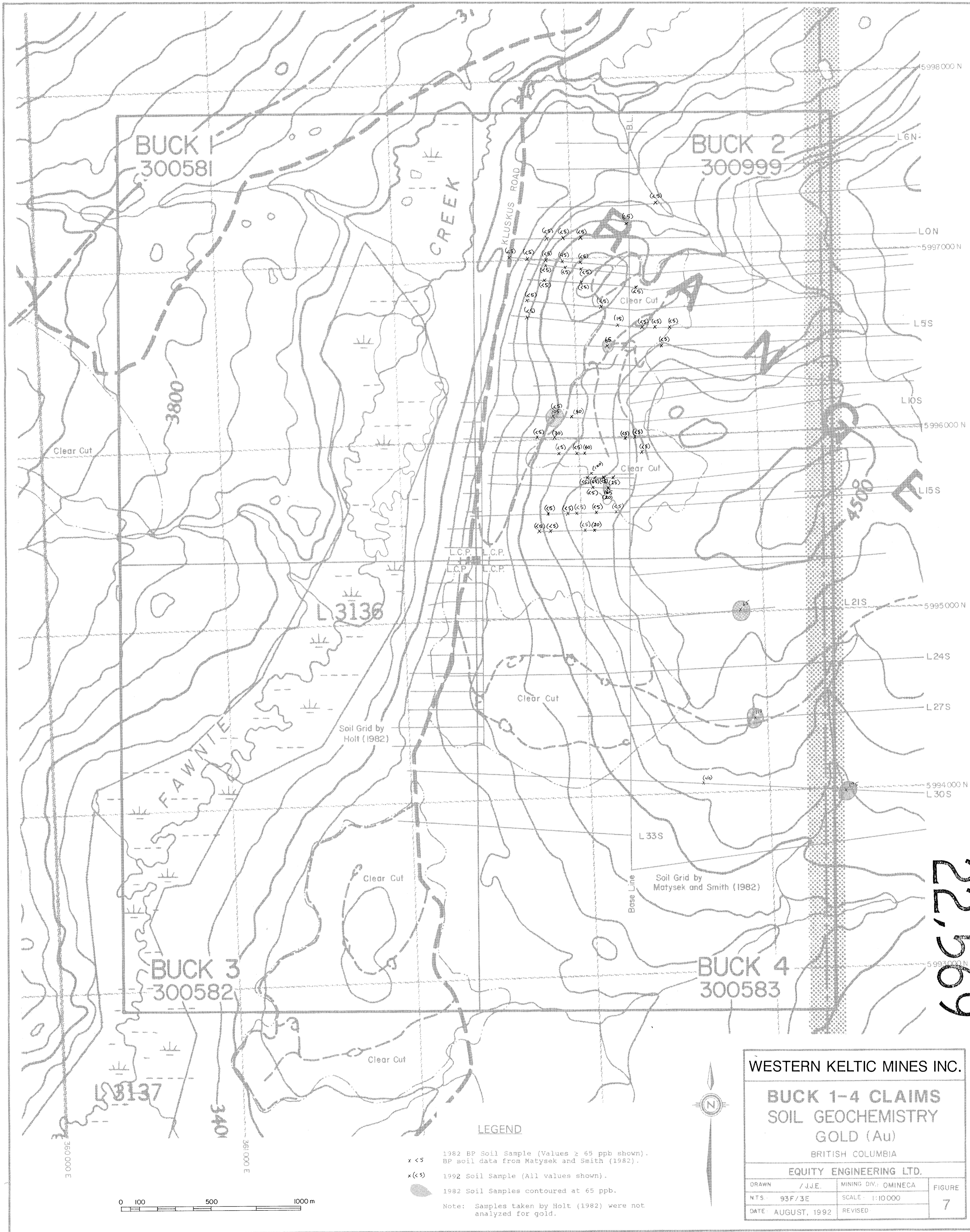
BRITISH COLUMBIA

EQUITY ENGINEERING LTD.

DRAWN: / J.J.E.	MINING DIV.: OMINECA	FIGURE 6
N.T.S.: 93F/3E	SCALE: 1:1000	
DATE: SEPT./92	REVISED:	

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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WESTERN KELTIC MINES INC.

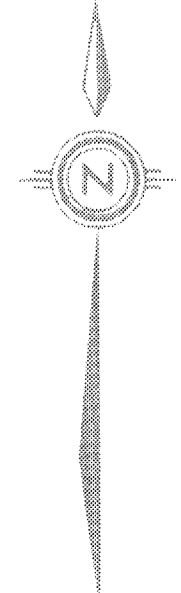
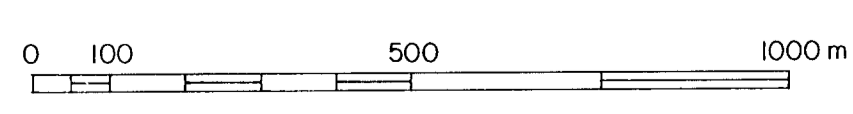
**BUCK 1-4 CLAIMS
SOIL GEOCHEMISTRY
GOLD (Au)
BRITISH COLUMBIA**

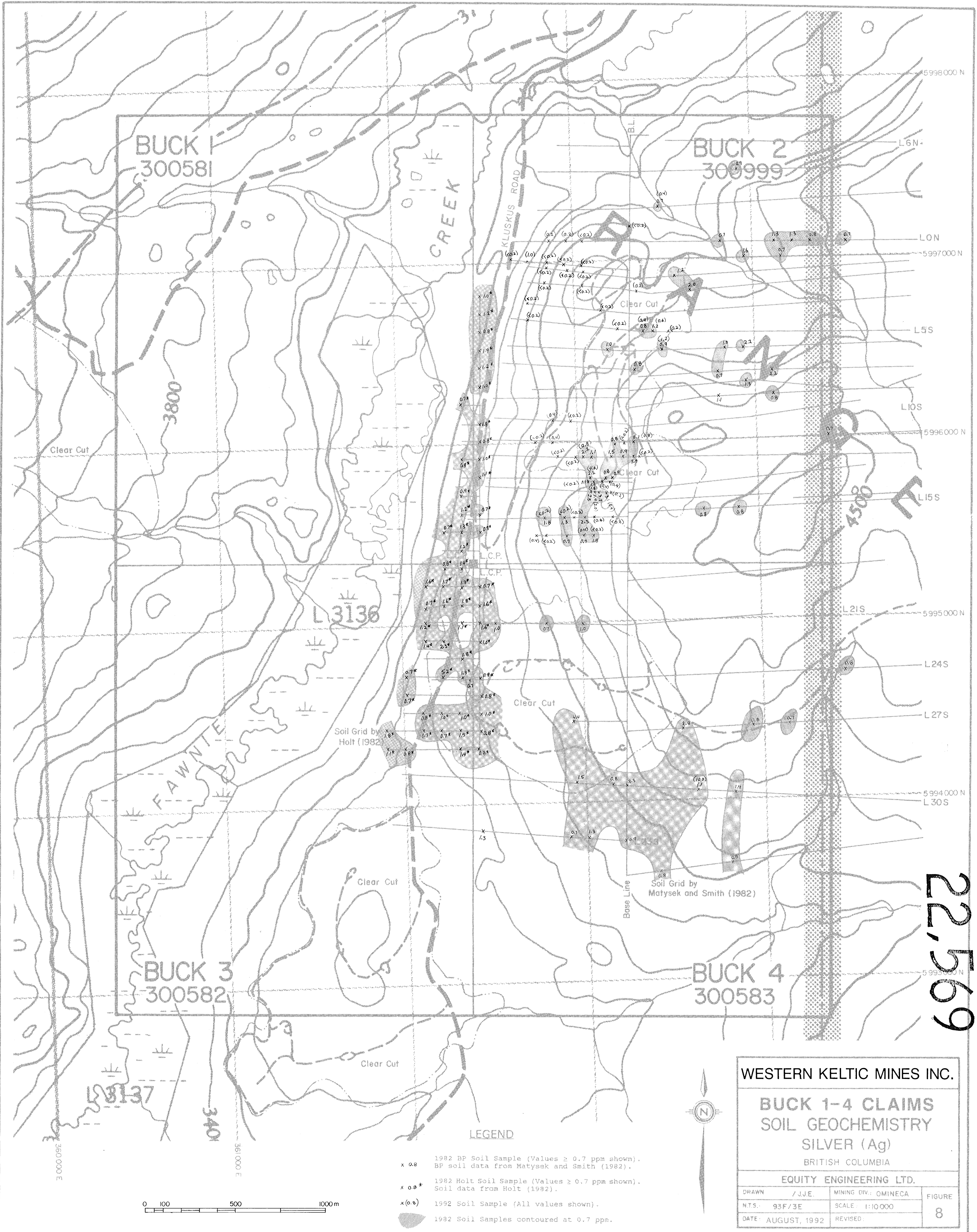
EQUITY ENGINEERING LTD.

DRAWN / J.J.E.	MINING DIV.: OMINECA	FIGURE
NTS: 93F/3E	SCALE: 1:10,000	7
DATE: AUGUST, 1992	REVISED	

LEGEND

- x <5 1982 BP Soil Sample (Values \geq 65 ppb shown).
BP soil data from Matysek and Smith (1982).
 - x (<5) 1992 Soil Sample (All values shown).
 - 1982 Soil Samples contoured at 65 ppb.
- Note: Samples taken by Holt (1982) were not analyzed for gold.





BUCK 1
300581

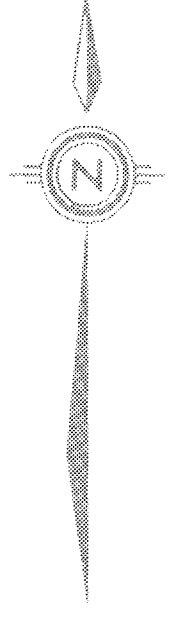
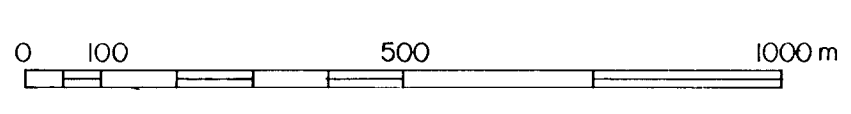
BUCK 2
300999

BUCK 3
300582

BUCK 4
300583

LEGEND

- x 0.8 1982 BP Soil Sample (Values ≥ 0.7 ppm shown).
BP soil data from Matysek and Smith (1982).
- x 0.8* 1982 Holt Soil Sample (Values ≥ 0.7 ppm shown).
Soil data from Holt (1982).
- x (0.6) 1992 Soil Sample (All values shown).
- 1982 Soil Samples contoured at 0.7 ppm.



WESTERN KELTIC MINES INC.

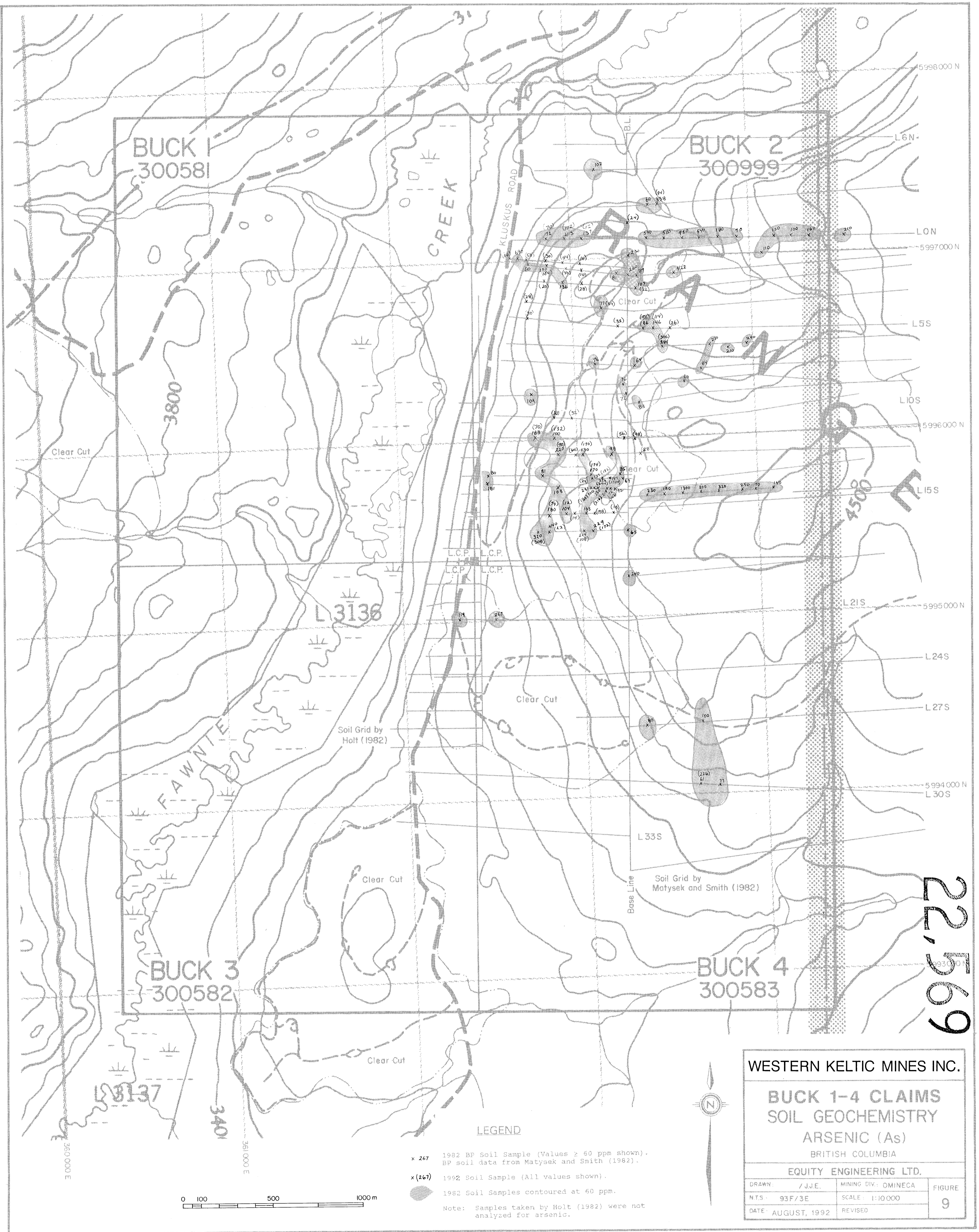
BUCK 1-4 CLAIMS
SOIL GEOCHEMISTRY
SILVER (Ag)
BRITISH COLUMBIA

EQUITY ENGINEERING LTD.

DRAWN	/JJE.	MINING DIV. OMINECA	FIGURE
N.T.S.	93F/3E	SCALE: 1:10,000	8
DATE:	AUGUST, 1992	REVISED:	

22,569

GEOLOGICAL BRANCH
ASSESSMENT REPORT

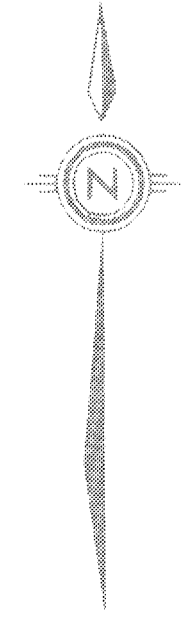
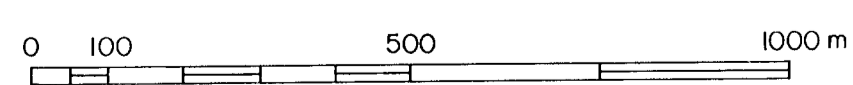


GEOLOGICAL BRANCH
ASSESSMENT REPORT

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LEGEND

- x 267 1982 BP Soil Sample (Values ≥ 50 ppm shown).
BP soil data from Matysek and Smith (1982).
 - x (267) 1982 Soil Sample (All values shown).
 - 1982 Soil Samples contoured at 60 ppm.
- Note: Samples taken by Holt (1982) were not analyzed for arsenic.

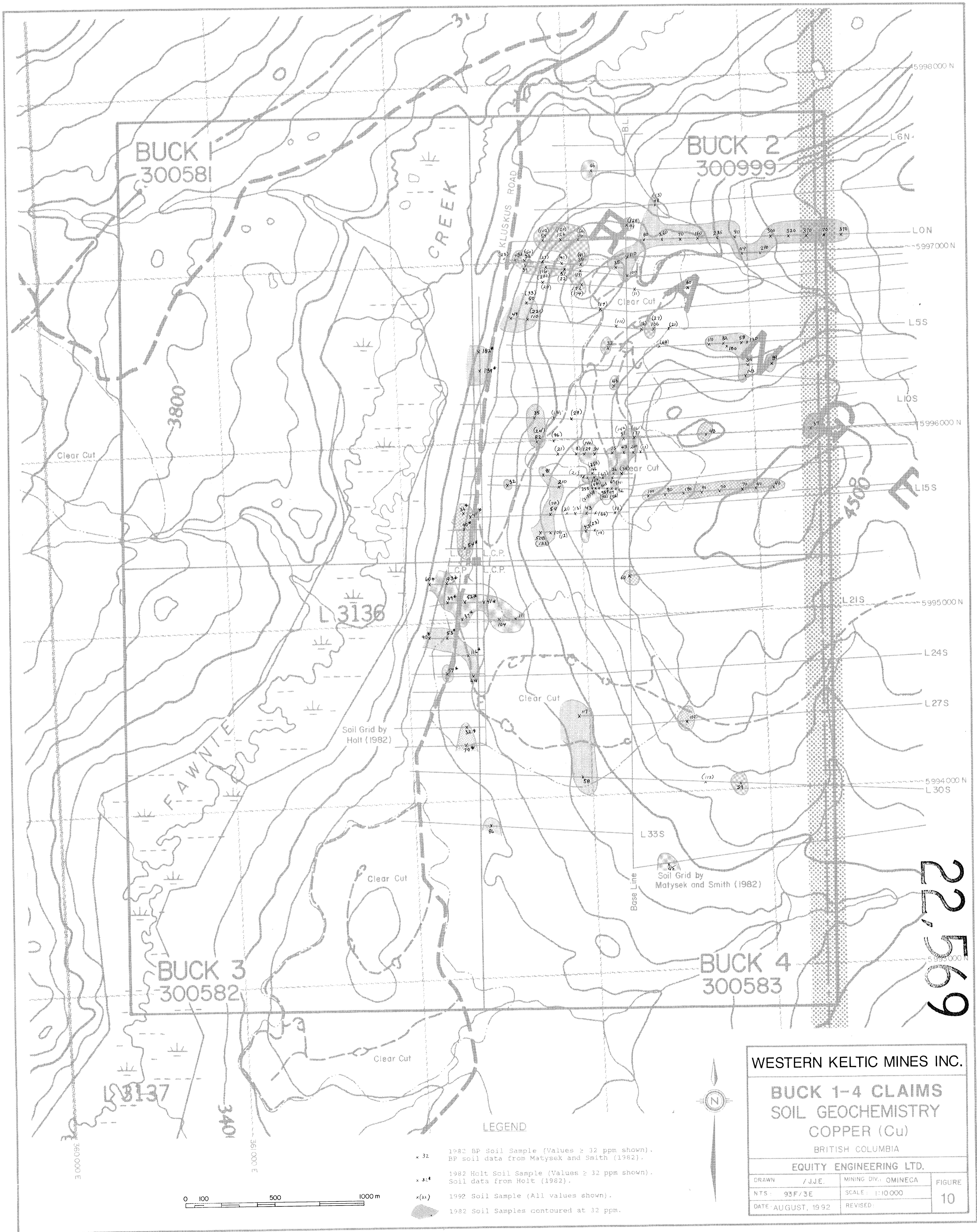


WESTERN KELTIC MINES INC.

**BUCK 1-4 CLAIMS
SOIL GEOCHEMISTRY
ARSENIC (As)
BRITISH COLUMBIA**

EQUITY ENGINEERING LTD.

DRAWN: / J.J.E.	MINING DIV.: OMINECA	FIGURE
N.T.S. - 93F/3E	SCALE: 1:10000	9
DATE: AUGUST, 1992	REVISED	



BUCK 1
300581

BUCK 2
300999

BUCK 3
300582

BUCK 4
300583

22,569

GEOLOGICAL BRANCH
ASSESSMENT REPORT

WESTERN KELTIC MINES INC.

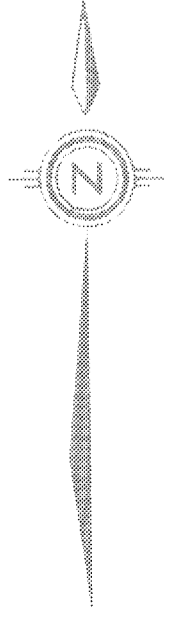
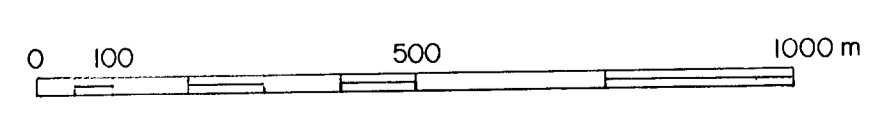
**BUCK 1-4 CLAIMS
SOIL GEOCHEMISTRY
COPPER (Cu)**
BRITISH COLUMBIA

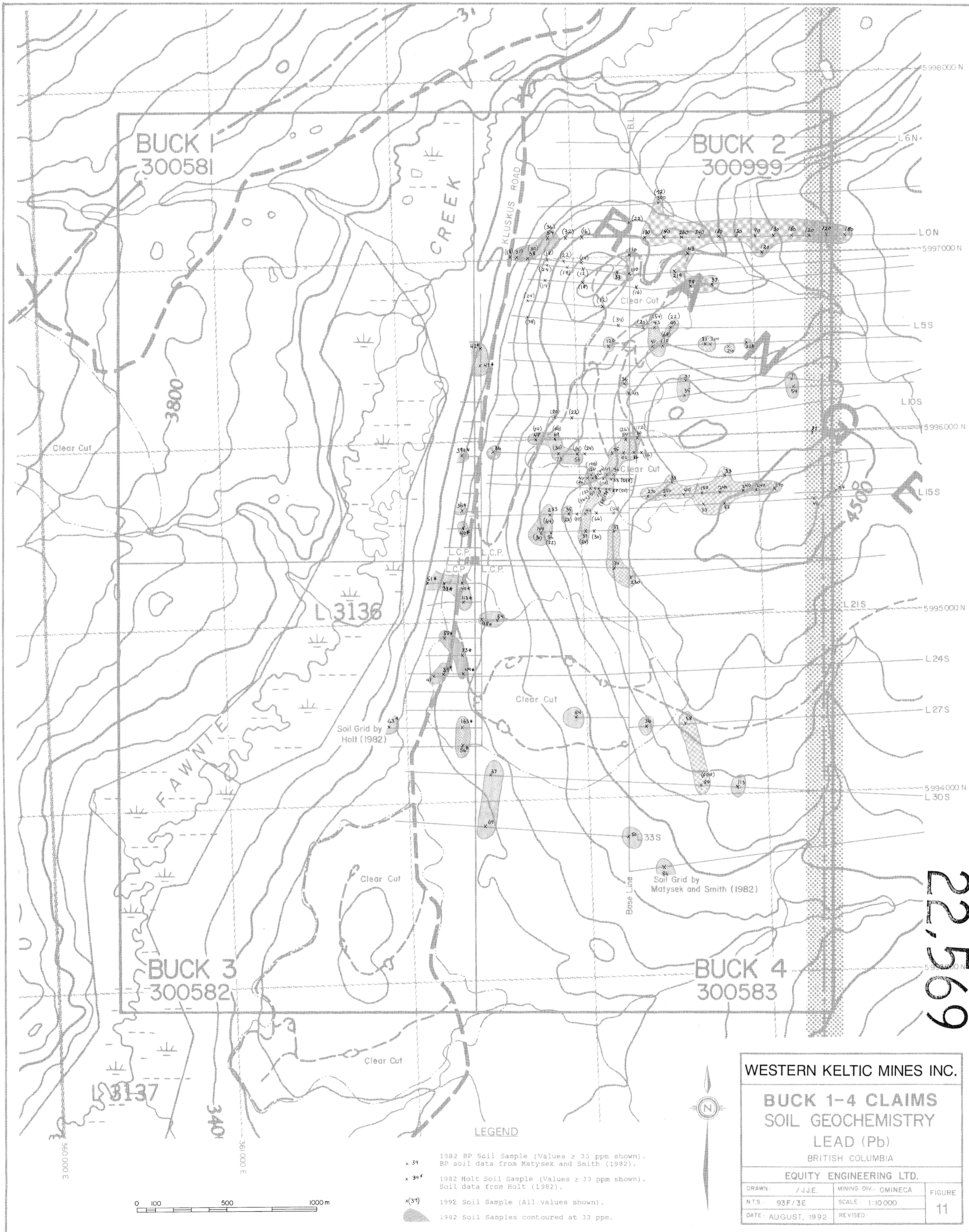
EQUITY ENGINEERING LTD.

DRAWN / J.J.E.	MINING DIV.: OMINECA	FIGURE
NTS: 93F/3E	SCALE: 1:10000	10
DATE: AUGUST, 1992	REVISED:	

LEGEND

- x 32 1982 BP Soil Sample (Values \geq 32 ppm shown). BP soil data from Matysek and Smith (1982).
- x 32+ 1982 Holt Soil Sample (Values \geq 32 ppm shown). Soil data from Holt (1982).
- x (32) 1992 Soil Sample (All values shown).
- 1982 Soil Samples contoured at 32 ppm.





BUCK 1
300581

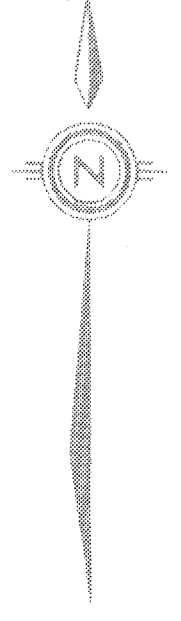
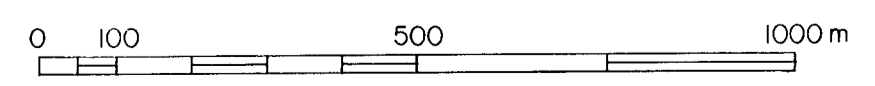
BUCK 2
300999

BUCK 3
300582

BUCK 4
300583

LEGEND

- x 31 1982 BP Soil Sample (Values ≥ 33 ppm shown).
BP soil data from Matysek and Smith (1982).
- x 31f 1982 Holt Soil Sample (Values ≥ 33 ppm shown).
Soil data from Holt (1982).
- x (31) 1992 Soil Sample (All values shown).
- 1982 Soil Samples contoured at 33 ppm.



WESTERN KELTIC MINES INC.

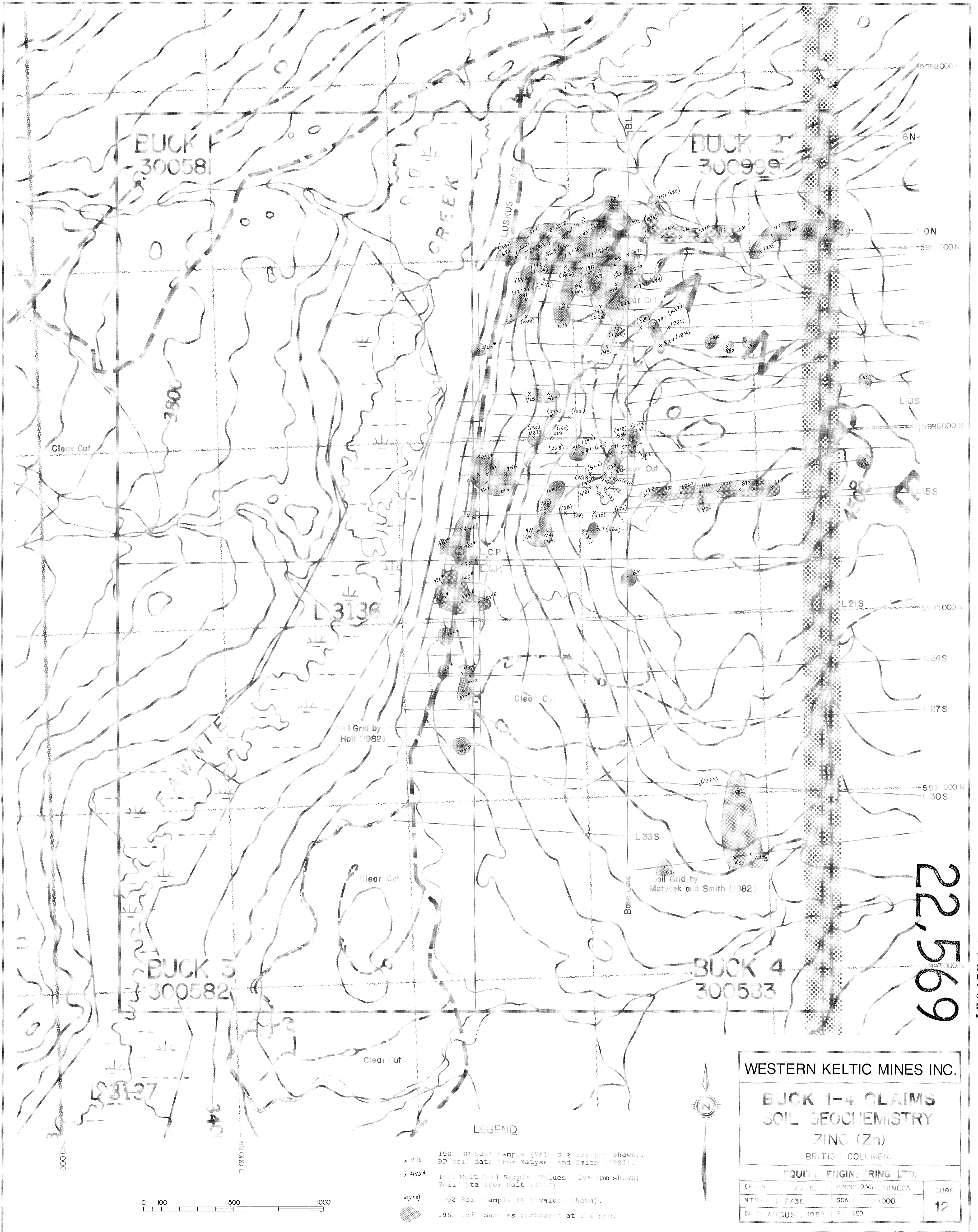
BUCK 1-4 CLAIMS
SOIL GEOCHEMISTRY
LEAD (Pb)
BRITISH COLUMBIA

EQUITY ENGINEERING LTD.

DRAWN: /JJE.	MINING DIV.: OMINECA	FIGURE
NTS.: 93F/3E	SCALE: 1:10,000	11
DATE: AUGUST, 1992	REVISED:	

22,569

GEOLOGICAL BRANCH
ASSESSMENT REPORT



BUCK 1
300581

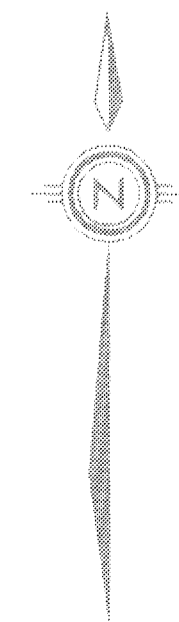
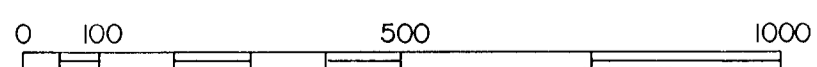
BUCK 2
300999

BUCK 3
300582

BUCK 4
300583

LEGEND

- x 453 1982 BP Soil Sample (Values ≥ 396 ppm shown).
BP soil data from Matysek and Smith (1982).
- x 453+ 1982 Holt Soil Sample (Values ≥ 396 ppm shown).
Soil data from Holt (1982).
- x(453) 1992 Soil Sample (All values shown).
- 1982 Soil Samples contoured at 396 ppm.



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BUCK 1-4 CLAIMS
SOIL GEOCHEMISTRY
ZINC (Zn)

BRITISH COLUMBIA

EQUITY ENGINEERING LTD.

DRAWN / JJE	MINING DIV. OMINECA	FIGURE
NTS.: 93F/3E	SCALE: 1:10,000	12
DATE: AUGUST, 1992	REVISED:	

22,569

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ASSESSMENT REPORT