

ASSESSMENT REPORT

A GEOLOGICAL-GEOCHEMICAL REPORT ON
GOLD MINE AND GOLD HILL CLAIMS
WHISTLE CREEK
HEDLEY AREA
SIMILKAMEEN MINING DIVISION
92H 8E
49°20' north latitude, 120°07' west longitude

OWNER OF CLAIMS: PHILEX GOLD & ENERGY CORPORATION
605 - 837 West Hastings Street
Vancouver, B.C.

OPERATOR: PHILEX GOLD & ENERGY CORPORATION

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DATE SUBMITTED: November 29, 1982

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

10,882

G. A. NOEL & ASSOCIATES INC.
CONSULTING GEOLOGISTS

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SUMMARY

Between October 11-17, 1982, a crew consisting of one geologist, four field assistants and one prospector conducted a geological-geochemical program on part of the Philex Gold & Energy Corporation's Gold Mine and Gold Hill claims, located 5 km due west of Hedley.

During this period approximately 175 hectares were prospected, searching for old workings and indications of mineralization. A number of old pits were also hand mucked by the field assistants.

Geochemical soil surveys were run over three selected areas. A total of 9.25 km of grid lines were run collecting 275 soil samples. These were assayed for gold, silver and arsenic by Acme Analytical Laboratories in Vancouver.

Geological mapping, on a scale of 1:1000, was conducted on two areas containing numerous workings. Total area mapped was 3 hectares.

Sixteen rock samples were collected from various mineralized occurrences and old dumps. These were fire assayed for gold and silver.

Results of the field work indicate that all areas soil sampled contain anomalies of interest.

Geological mapping in two areas of old workings observed that sulfide mineralization is associated with calcite-quartz breccia, calcite banding in sediments, a shear in hornblende diorite and shears in sediments. Rock samples from these mineralized occurrences all returned low to interesting values in gold. Assays ranged from 0.008 to 0.495 oz/ton gold.

All of the above areas geochemically surveyed and geologically mapped warrant further exploration.

INTRODUCTION

At the request of Philex Gold & Energy Corporation the writer, from October 13-17, 1982, examined the Company's property located near Hedley, B.C., supervised the soil sampling of three selected areas and mapped in detail the geology in two areas containing numerous old workings.

The purpose of the examination and field work was to explore areas of interest within the claim group and recommend further work, if warranted, on the claims.

Location and Access 49°20' north latitude
 120°07' west longitude

The Philex Gold & Energy Corporation property is located in southern British Columbia approximately 5 km due west of Hedley (fig. 1). It is situated on the south side of the Similkameen River valley on the ridge between Whistle-Pettigrew Creeks and Henri Creek. Elevations range from 550 m to 1525 m above sea level.

The claims are readily accessible by good logging roads which leave B.C. Highway 3 six km west of Hedley. The main logging road follows Whistle Creek but a branch road, near the 4 km mark, leads to the claims. It is approximately 8 km by road to the property.

Roads are numerous within the claims area. In dry weather most parts of the property may be reached by two-wheel drive vehicles.

Topography and Vegetation

The topography on the property is characterized by a rounded, gently sloping ridge top bounded to the west, north and



FIGURE I
 LOCATION MAP
 GOLD MINE & GOLD HILL CLAIMS
 HEDLEY AREA
 SIMILKAMEEN M.D.
 1:1,900,800

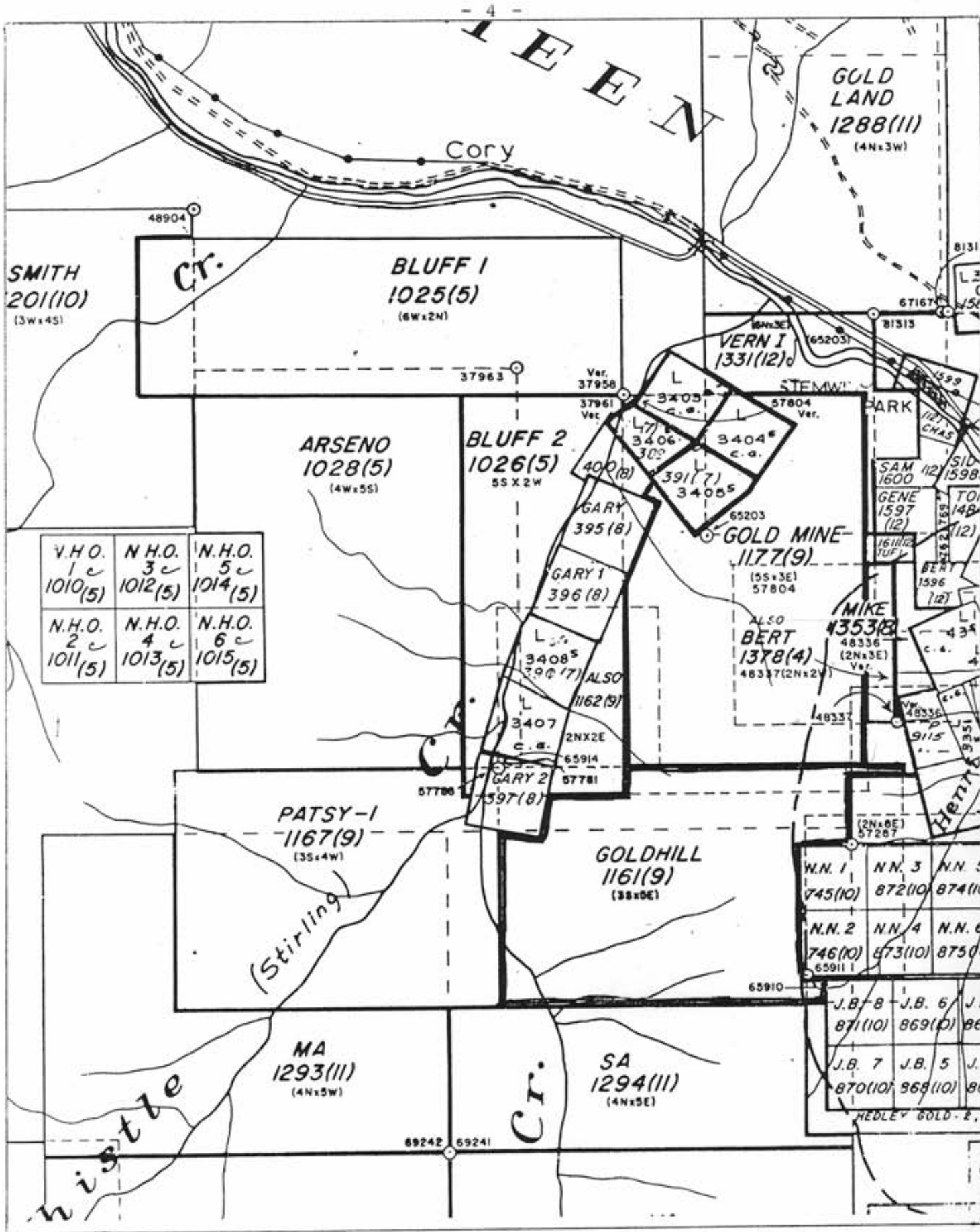


Figure 2
 CLAIM MAP
 GOLD HILL AND GOLD MINE CLAIMS
 HEDLEY AREA
 SIMILKAMEEN M.D.
 1:10,000

east by steep to very steep slopes. The lower slopes are well forested by moderately dense stands of pine and fir while the higher ground is more open with grassy patches within mature stands of timber. Underbrush is light.

Property

The property consists of two claims which may be described as follows (fig. 2):

<u>Claim name</u>	<u>No.of Units</u>	<u>Record No.</u>	<u>Expiry date</u>
Gold Hill	15	1161(9)	September 8,1983
Gold Mine	15	1177(9)	September 23,1983

The claims are owned by Philex Gold & Energy Corporation, 605 - 837 West Hastings Street, Vancouver, B.C.

The legal corner post for Gold Mine claim was examined. It is located adjacent to the main logging road near the 1 km sign. No other posts were seen.

The northwest corner of Gold Mine claim overlaps a group of Crown Grants and the eastern edge of the same claim overlies a part of the Mike claim. Since the other claims have precedence over the Gold Mine claim, it is recommended that all claims be surveyed and boundaries established.

History

During the early 1930's Hedley Gold Hill Mining Company owned all or part of the ground now held by Philex Gold & Energy Corporation. Their work included several short adits and shafts, one long adit and a number of trenches. Most of their work was concentrated on a quartz-calcite

breccia zone well mineralized with pyrite and much lesser arsenopyrite, pyrrhotite, chalcopyrite, galena and sphalerite. Low values in gold were obtained from samples taken from the workings. They are located near the south-central boundary of Gold Mine claim.

Old pits and trenches, presumably dug by the same company, are located near the southwest corner of Gold Mine claim. These workings explore strongly sheared and fractured sediments.

From 1973-1976 Canadian Occidental Petroleum conducted an exploration program on the HED claims, which are now a part of the ground covered by the Gold Mine claim. They initially located the area as a result of geochemical silt sampling programs which showed an anomalous stream sample. Examination of the stream led them to a gossan from which one sample assayed 2.046 oz/ton gold. They explored the area by conducting geological mapping and soil surveys over a part of the HED claims and drilled three short holes totalling 240 m to test the gossan. Results of their work indicate one large area with strong, coincident, arsenic-gold anomalies and a second area with widespread but weaker coincident anomalies. These anomalous areas were never followed up.

Drilling of the gossan located a quartz-carbonate vein breccia zone up to 15 m wide (drill intersection width). Low values in gold, arsenic, and zinc were obtained from the breccia zone.

The Philex Gold & Energy Corporation claims lie immediately west of Banbury Gold Mine's Henri Creek property which is being actively explored at the present time.

GEOLOGY

General Geology

The Hedley area is underlain by Upper Triassic Nicola Group volcanics and sediments into which were intruded small ultrabasic and large granite bodies of late Mesozoic Age. The latter intrusives almost surround the Nicola Group rocks, which in the general Princeton area consist of a thick succession of lavas through which are irregularly distributed lenses of tuffaceous and argillaceous rocks and occasional beds of limestone.

In the Nickel Plate Mine area, located 5 km east of the subject property, most of the sedimentary strata have been strongly metamorphosed to skarn by the intrusion of many sills and dykes into impure limy sediments. Gold mineralization associated with arsenopyrite occurs in skarn zones adjacent to diorite-gabbro sills and dykes. On the Gold Mine and Gold Hill claims skarn alteration appears to be absent although intrusions are present.

Local Geology

Outcrop is moderately well exposed on the claims in cuts along the main access roads, and on small benches and cliff edges throughout the property (fig. 3). Rocks are predominantly interbedded argillite and tuffs(?). Chert and limestone interbeds are less common but present. A coarse slump breccia consisting of fragments of argillite, limestone and tuff(?) in a sandy matrix is well exposed in road cuts near the east boundary of Gold Mine claim.

Hornblende diorite dykes or sills occur within the claims

area, one of which is located within the old Gold Hill Mine Co's workings at the southern end of Gold Mine claim. Several fine grained diorite dykes are also present.

MacDonald (1976) states that " the sedimentary rocks have been folded into a vertically-plunging, open anticline which became overturned to the west of the claims". The writer has not done sufficient field mapping to verify this. However, one such fold, on a small scale, was seen in the vicinity of the old adits on Gold Mine claim.

FIELD WORK

Between October 11-17, 1982 a modest program of prospecting, geochemical soil sampling, trench rehabilitation and geological mapping was conducted over selected parts of the Gold Mine and Gold Hill claims. The purpose of the work was to better define areas of known or suspected gold-arsenic mineralization located by mining activity many years ago or by a more recent exploration program by Canadian Occidental Petroleum Ltd. in 1976 (See History).

(a) Geochemical Soil Sampling

Grids were laid out using Silva Compass and Hip chain. All lines were marked with orange flagging tape. Flagging at each station was marked with the co-ordinate for that location.

Samples were collected from the "B" horizon using a mattock. Each sample was placed in a Kraft envelope upon which the station co-ordinate was marked. When all samples were collected they were packed in boxes and delivered to Acme Analytical Laboratories in Vancouver for geochemical analysis of their gold, silver and arsenic content. Laboratory preceedures accompany this report in Appendix II.

The following grids were laid out and sampled:

Grid 1 - located in the eastern part of Gold Mine claim and centered approximately 0.6 km west of Henri Creek.

This area straddles the lower-most logging road (see fig.3). Claim posts for the Gold Mine claim were not located in this area. For convenience, the grid was tied to the old HED 4 L.C.P. This post is shown on figure 3.

Canadian Occidental Petroleum Ltd.'s geochemical results in the above area (1976 field work) show large coincident arsenic-gold anomalies. Their samples were taken at 200 foot (60 m) intervals on lines spaced at 400 foot (120m) separations. The work conducted by Philex Energy & Resources was on a closer spaced grid-lines at 50 m spacings and samples at 30 m intervals - for better defining a part of the large anomalous areas referred to above. Six lines totalling 2.85 km were run and 101 soil samples collected from this grid.

A legal corner post for Mike claim was located after completion of the above sampling. Its location indicates that the above grid may be on the Mike claim. Because of this probable conflict, all claim posts and boundaries should be located and surveyed before additional work is conducted on the property.

Grid 2 - located at the north end of Gold Hill claim (see fig. 3).

A grid consisting of five lines 1000 m long and 100 m apart was laid out. Each line was sampled at 50 m intervals.

One short fill-in line was run to fill a gap created by one line going askew.

The first line on this grid followed the south boundary of the old HED claims and was tied to the corner post for HED 4 and 5. This post is shown on figure 3. Posts for the current claims were not seen in this area.

Geochemical soil sampling on the HED claims by Canadian Occidental Petroleum showed several arsenic anomalies which were open to the south. This new grid covers the possible extension of those anomalies on to the Gold Hill claim.

A total of 5.65 km of lines were run and 119 soil samples collected.

Grid 3 - located near the southwest corner of Gold Mine claim (see fig. 3).

A number of old pits and trenches were examined in this area. They expose numerous northwest-and northeast-trending fault and fracture zones, some of which are well mineralized with pyrite, pyrrhotite and possibly galena (yellow oxide-cerussite?). A small grid was laid out in this area with lines running due north so as to intersect both main structural directions. Lines were spaced at 30 m and sampled at 15 m stations. The object of this detailed survey was to test this area for the possibility of gold-arsenic mineralization associated with the strongly faulted and fractured sediments.

A total of 0.75 km of lines were run and 55 soil samples collected.

(b) Geological Mapping

Mapping on a scale of 1:1000 was conducted over a small area near the south boundary of Gold Mine claim (see figs. 3, 13). This area includes a 62 m adit, two very short adits, several old pits and considerable bulldozer stripping. This latter work obliterated most of the old pits by distributing rubble over much of the area.

Mapping was also conducted on the same scale over grid 3. This area includes two very shallow shaft-like pits, several shallow trenches and two sidehill cuts, now resembling caved adit portals, which they are not.

(c) Prospecting

Prospecting included examining road cuts for quartz-carbonate veins and shears and searching for old workings. Some old pits and more recent bulldozed strippings were located but were not mapped at this time. A grid must be established so that these findings may be tied into the general geology map.

During the prospecting a number of old sluffed pits were hand-mucked out to clearly expose bedrock. Some of these were sampled by the writer.

RESULTS

Geochemical Surveys

Laboratory procedures and assay certificates accompany this report in Appendix II. Geochemical assay data was plotted on frequency distribution curves (see Appendix II).

From these graphs the following values were considered as anomalous:

Au - $\bar{>}$ 15 ppb

Ag - $>$ 5 ppm

As - $\bar{>}$ 60 ppm

Arsenic values in grid 2 area were considerably lower than elsewhere. For this reason and to conform with previous work arsenic values >20 ppm were considered as of interest on this grid.

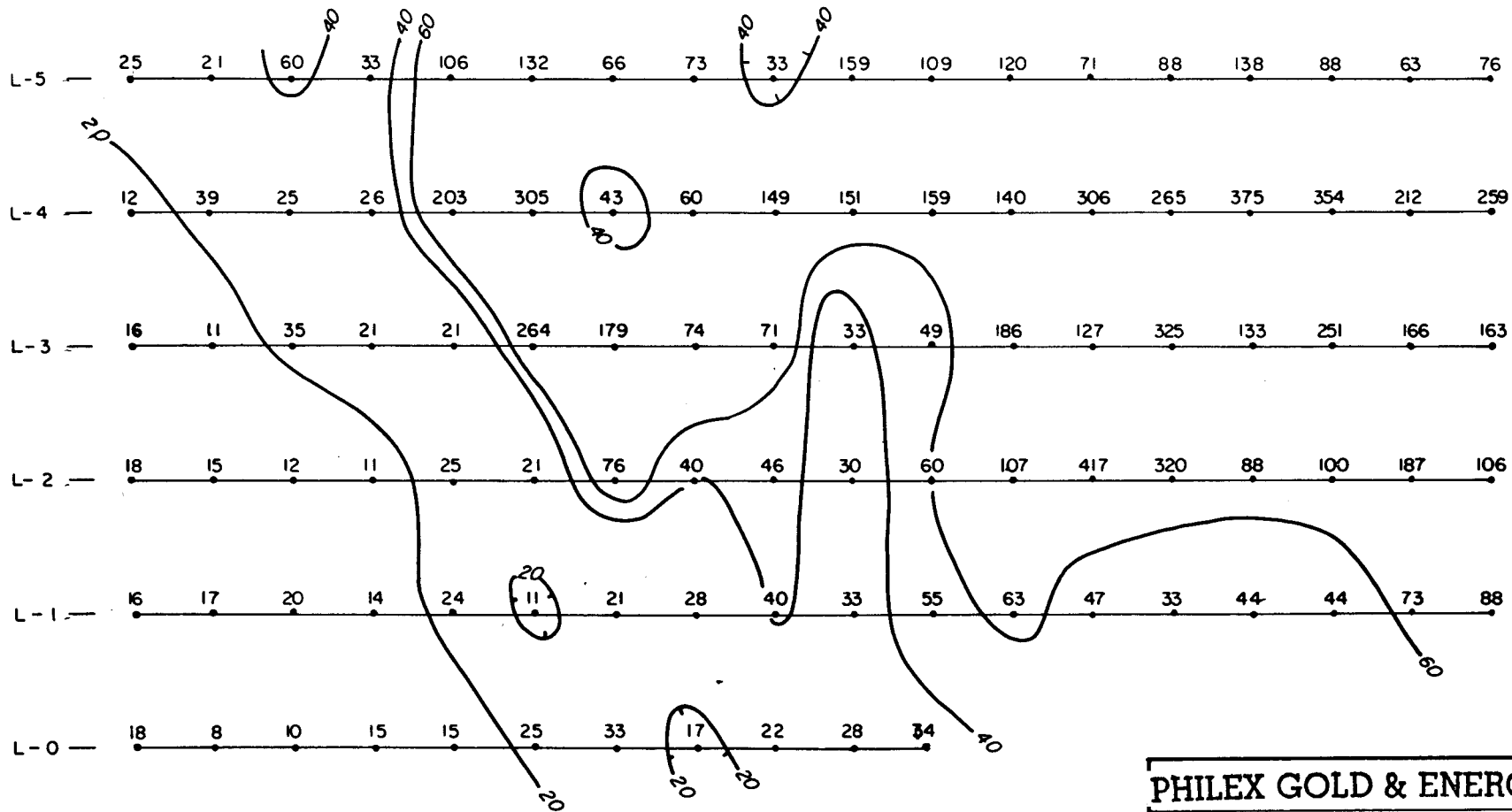
The following are comments on each sampled area:

(a) Grid 1 - this survey added more detail to an area known to be anomalous in arsenic and gold. Results shown on figures 4, 5 and 6, indicate the area to be strongly anomalous in arsenic and containing a number of significant gold anomalies. This area is definitely of interest and warrants more work, but claim boundaries must be established in this area.

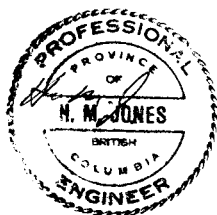
(b) Grid 2 - this survey is a continuation to the south from the Canadian Occidental Petroleum survey. It indicates that their weak arsenic anomalies, with scattered spot gold anomalies, continue to the south. Three spot silver anomalies within the grid may indicate a northeast trending structure through the area (fig.7,8,9).

No geological mapping was done in this area so, as yet, there is no explanation for the geochemical results.

(c) Grid 3 - this survey was conducted in detail over a small area containing many old workings. Results show coincident arsenic-gold-silver anomalies which are probably valid and not resulting from contamination from the workings



As in ppm >60 ppm ANOMALOUS



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VANCOUVER, B.C.

**GOLD MINE CLAIM
GRID 1
GEOCHEMISTRY - ARSENIC
HEDLEY AREA - SIMILKAMEEN M.D.**

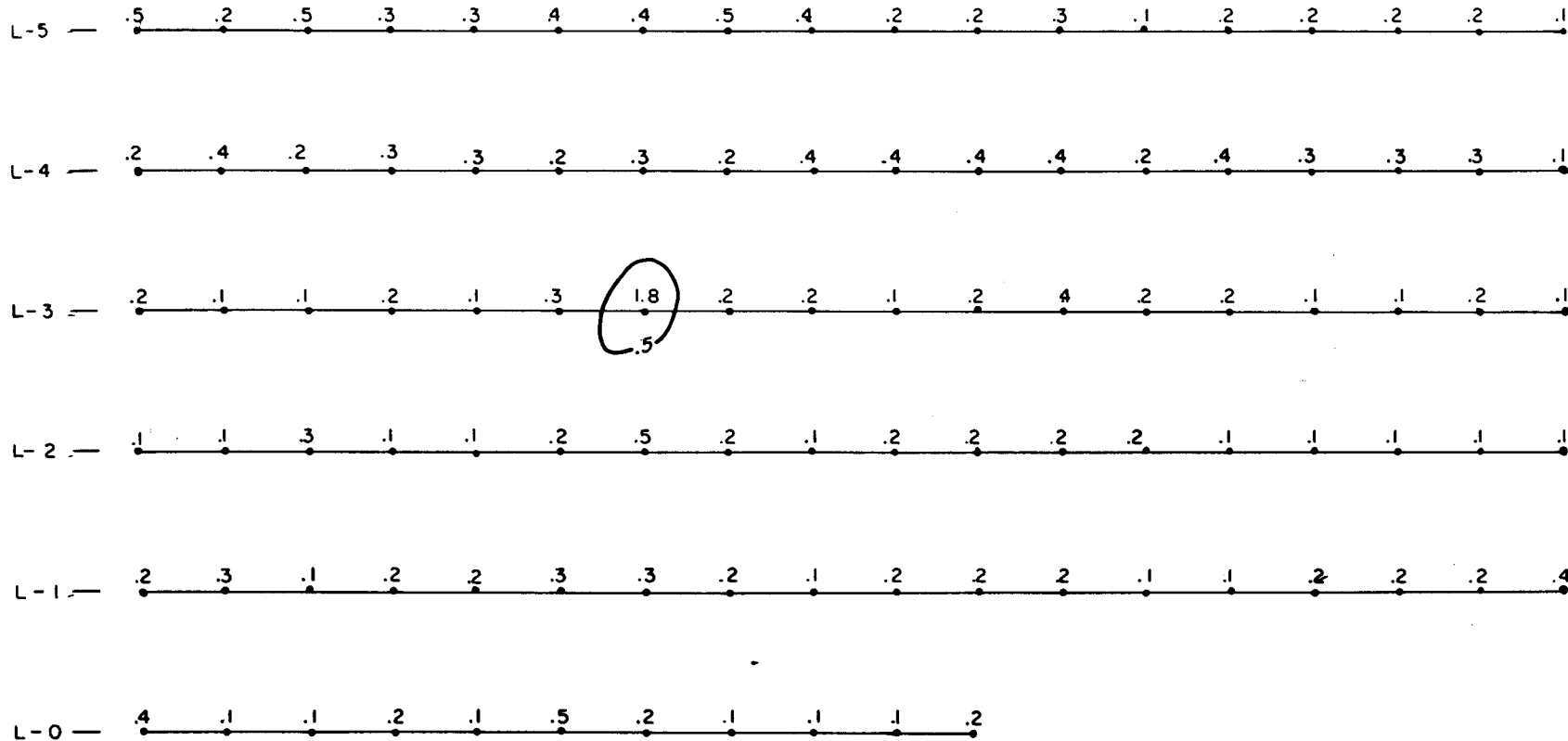
0 50 100 Metres

SCALE 1:2500

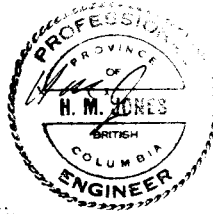
NOV. 1982

FIG. 4

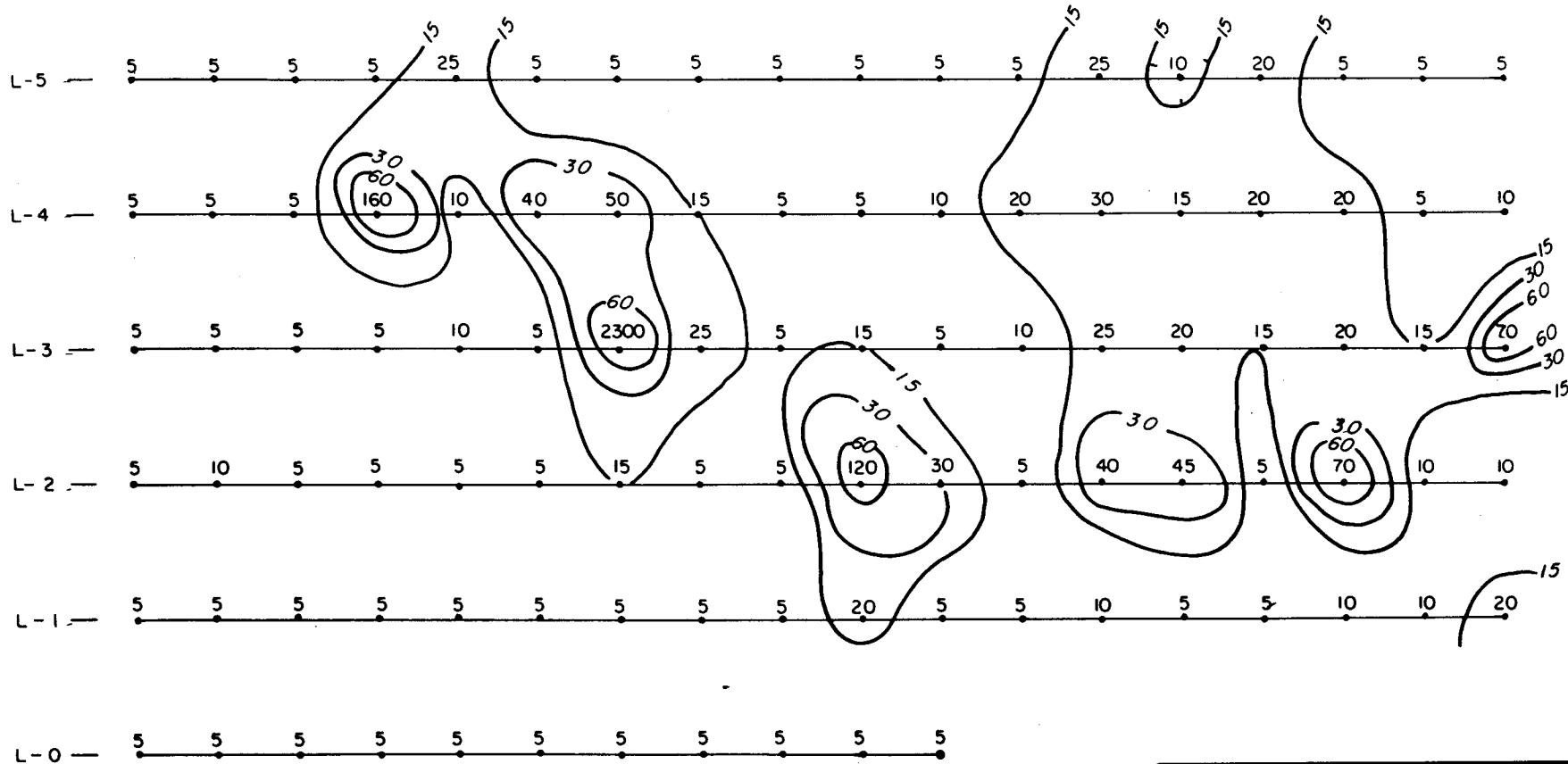
H. M. J.



Ag in ppm > .5 ppm ANOMALOUS



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GOLD MINE CLAIM GRID 1 GEOCHEMISTRY - SILVER HEDLEY AREA - SIMILKAMEEN M.D.		
SCALE 1:2500	NOV. 1982	FIG. 5
H. M. J.		



Au in ppb >15 ppb ANOMALOUS



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**GOLD MINE CLAIM
GRID 1
GEOCHEMISTRY — GOLD
HEDLEY AREA — SIMILKAMEEN M.D.**

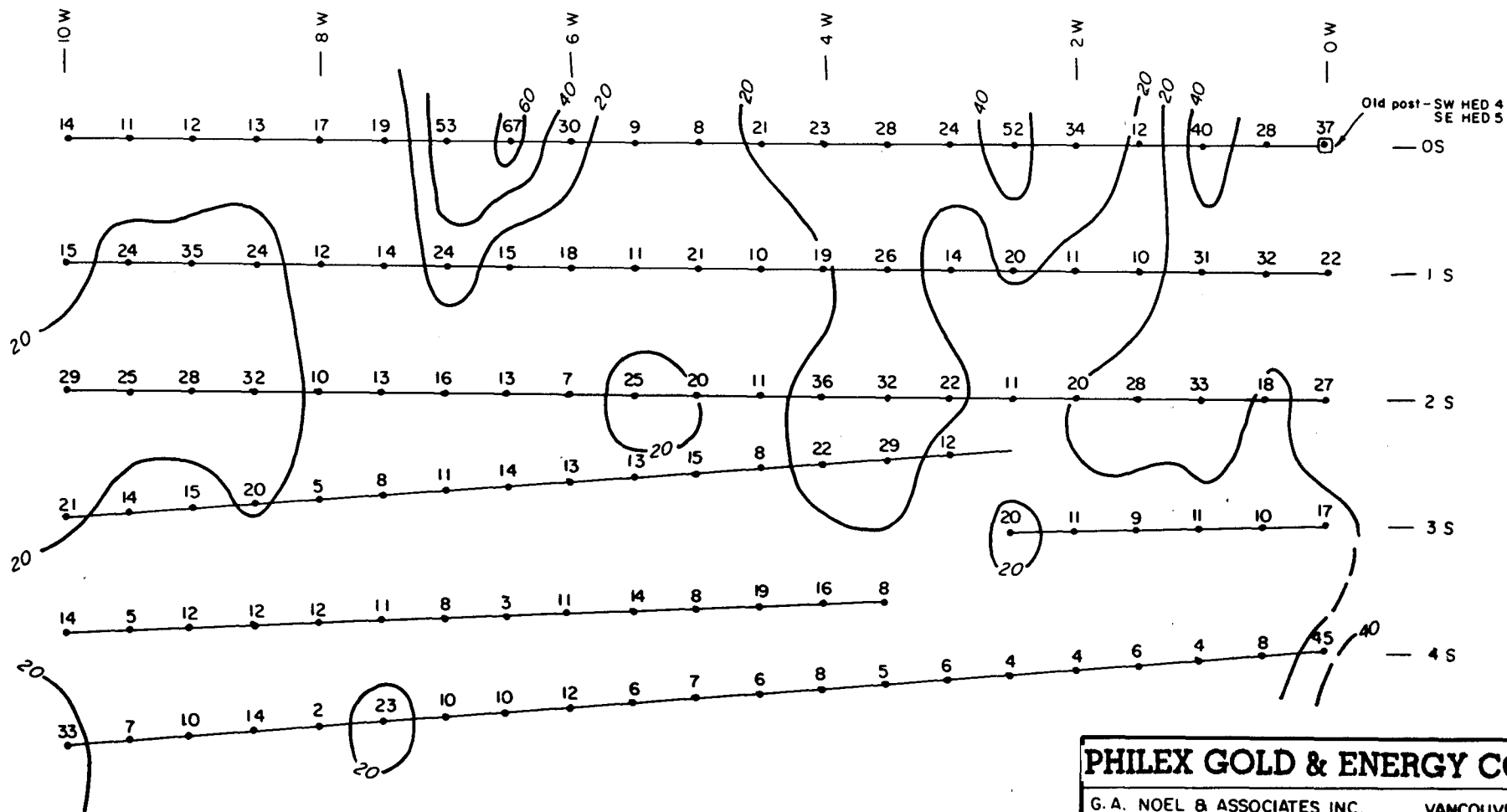
0 50 100 Metres

SCALE 1 : 2500

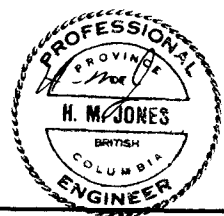
NOV. 1982

FIG. 6

H. M. J.



As in ppm 20 - 40 possibly anomalous
 40 - 60 probably "
 >60 definitely "



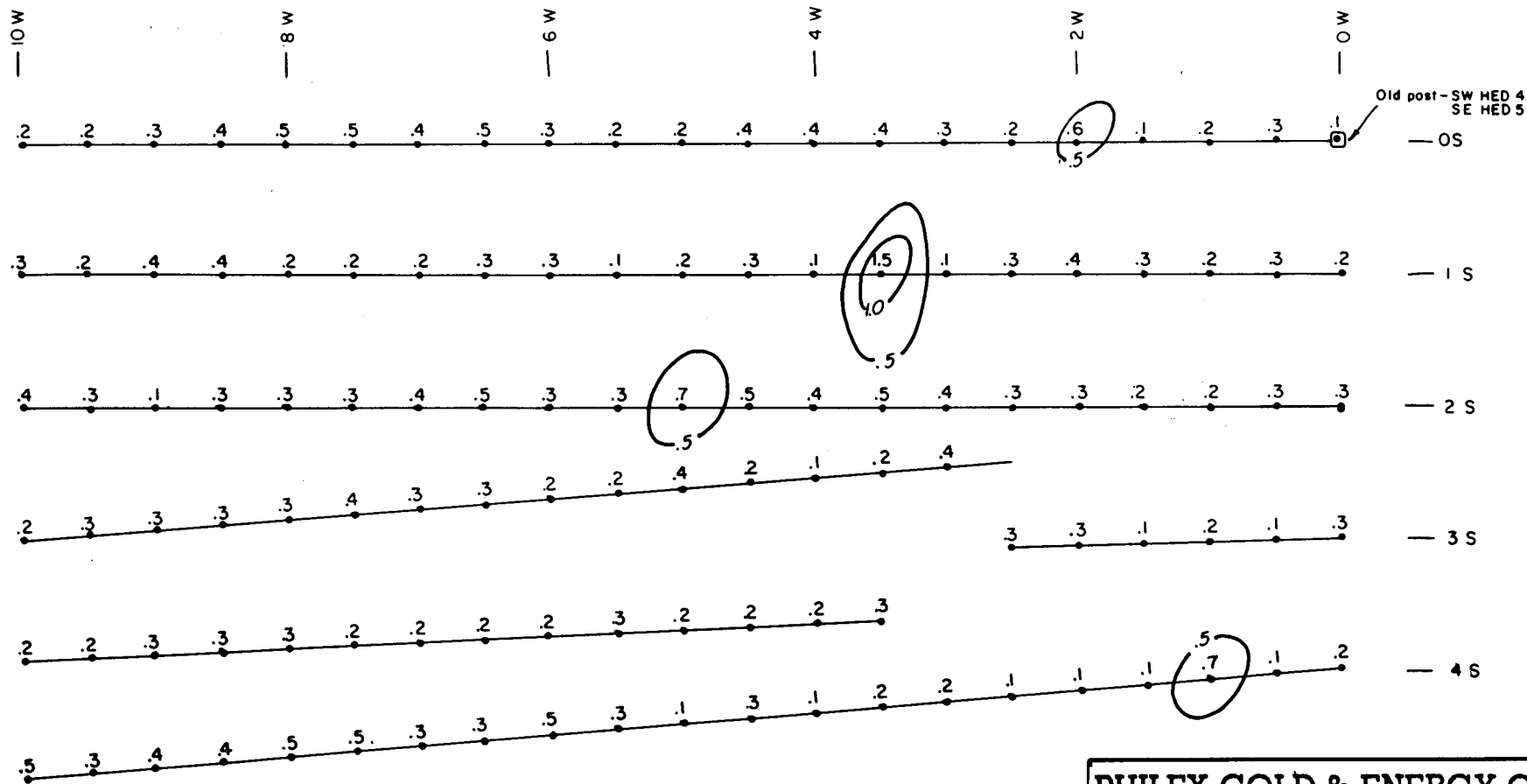
PHILEX GOLD & ENERGY CORP

G. A. NOEL & ASSOCIATES INC. VANCOUVER, B.C.

**GOLD HILL CLAIM
 GRID 2
 GEOCHEMISTRY - ARSENIC
 HEDLEY AREA - SIMILKAMEEN M.D.**



SCALE 1:5000	NOV. 1982	FIG 7
H. M. J.		



Ag in ppm > .5 ppm ANOMALOUS



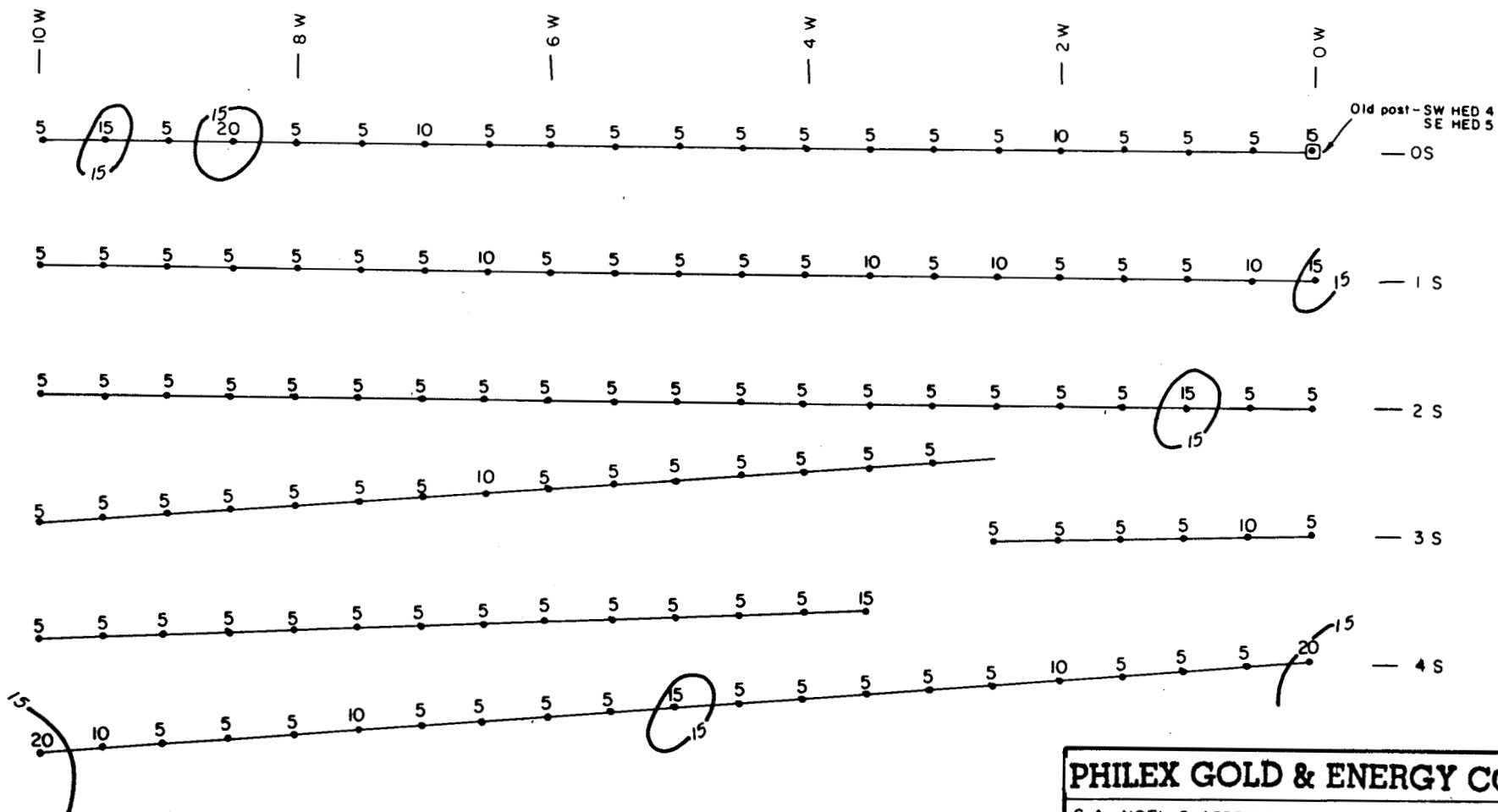
PHILEX GOLD & ENERGY CORP

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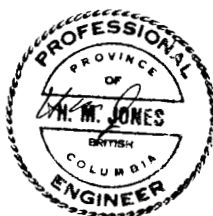
**GOLD HILL CLAIM
GRID 2
GEOCHEMISTRY - SILVER
HEDLEY AREA - SIMILKAMEEN M.D.**

0 100 200 Metres

SCALE 1:5000	NOV. 1982	FIG 8
H. M. J.		



Au in ppb >15 ppb ANOMALOUS



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**GOLD HILL CLAIM
GRID 2
GEOCHEMISTRY — GOLD
HEDLEY AREA — SIMILKAMEEN M.D.**

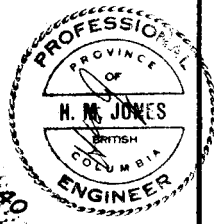
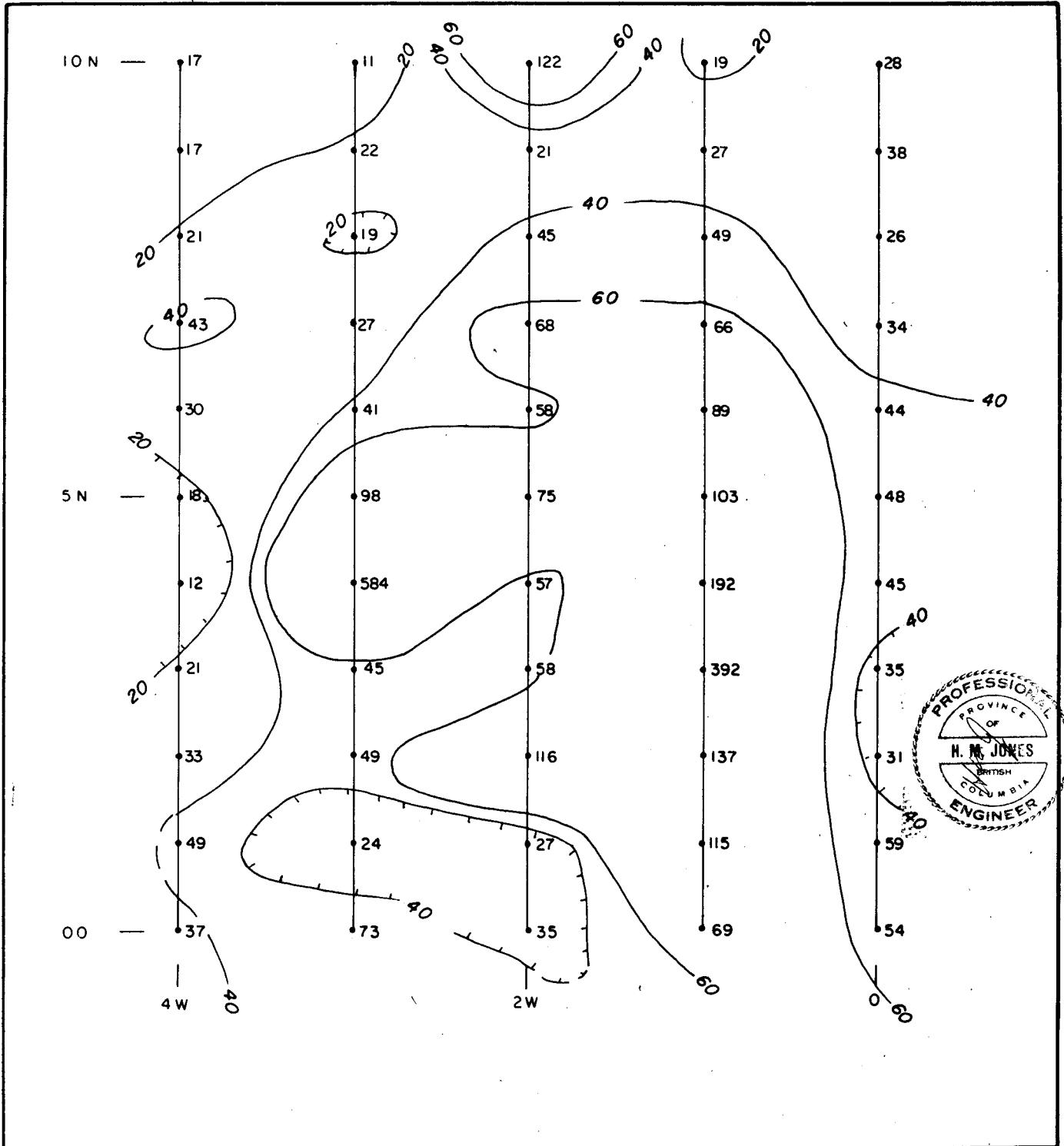
0 100 200 Metres

SCALE 1:5000

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FIG 9



As in ppm >60ppm ANOMALOUS



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**GOLD MINE CLAIM
 GRID 3
 GEOCHEMISTRY - ARSENIC
 HEDLEY AREA - SIMILKAMEEN M.D.**

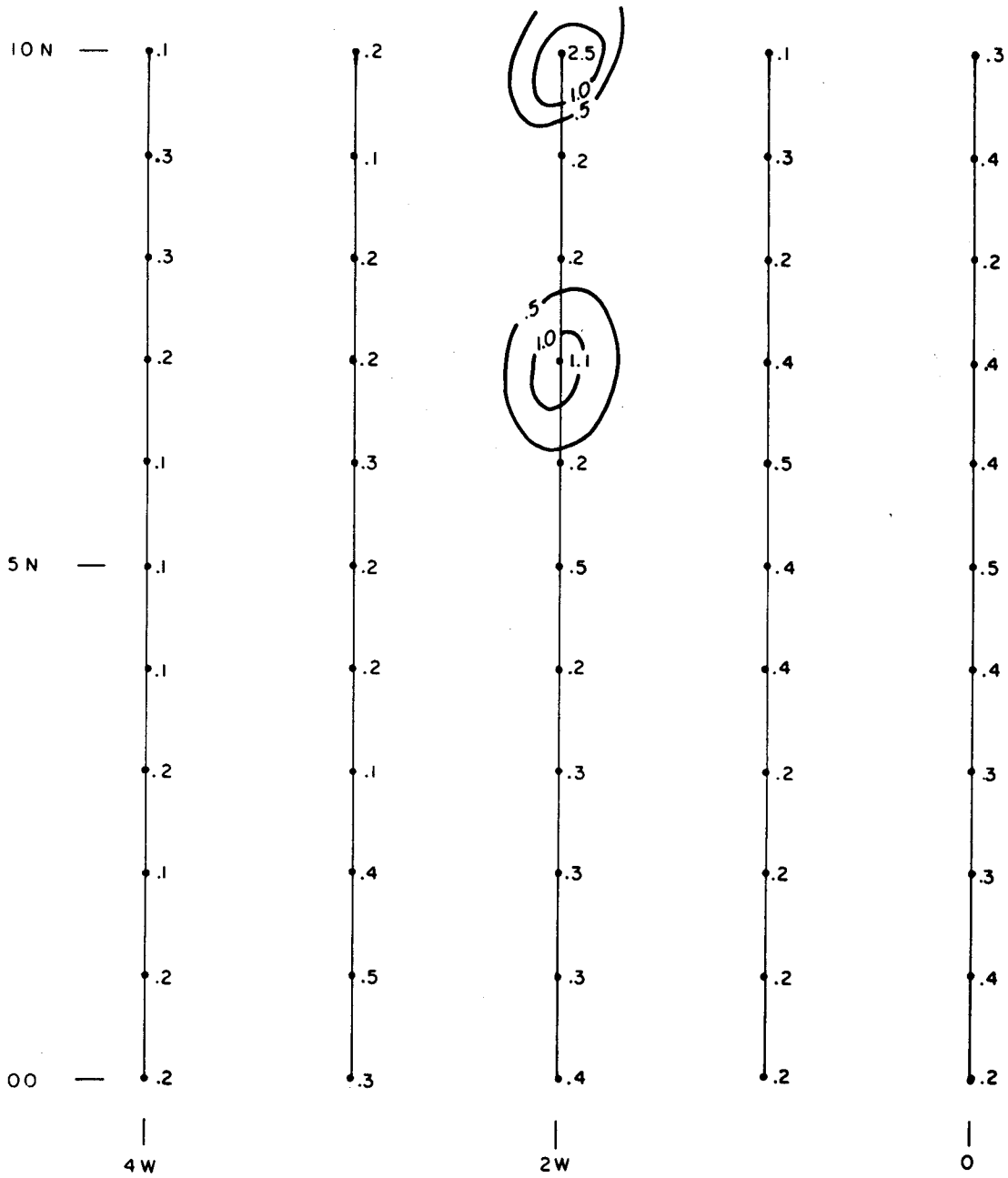
0 40 Metres

SCALE 1:1000

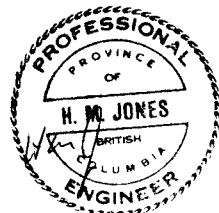
NOV. 1982

FIG. 10

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Ag in ppm >.5 ppm ANOMALOUS



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G.A. NOEL & ASSOCIATES INC. VANCOUVER, B.C.

**GOLD MINE CLAIM
GRID 3
GEOCHEMISTRY - SILVER
HEDLEY AREA - SIMILKAMEEN M.D.**

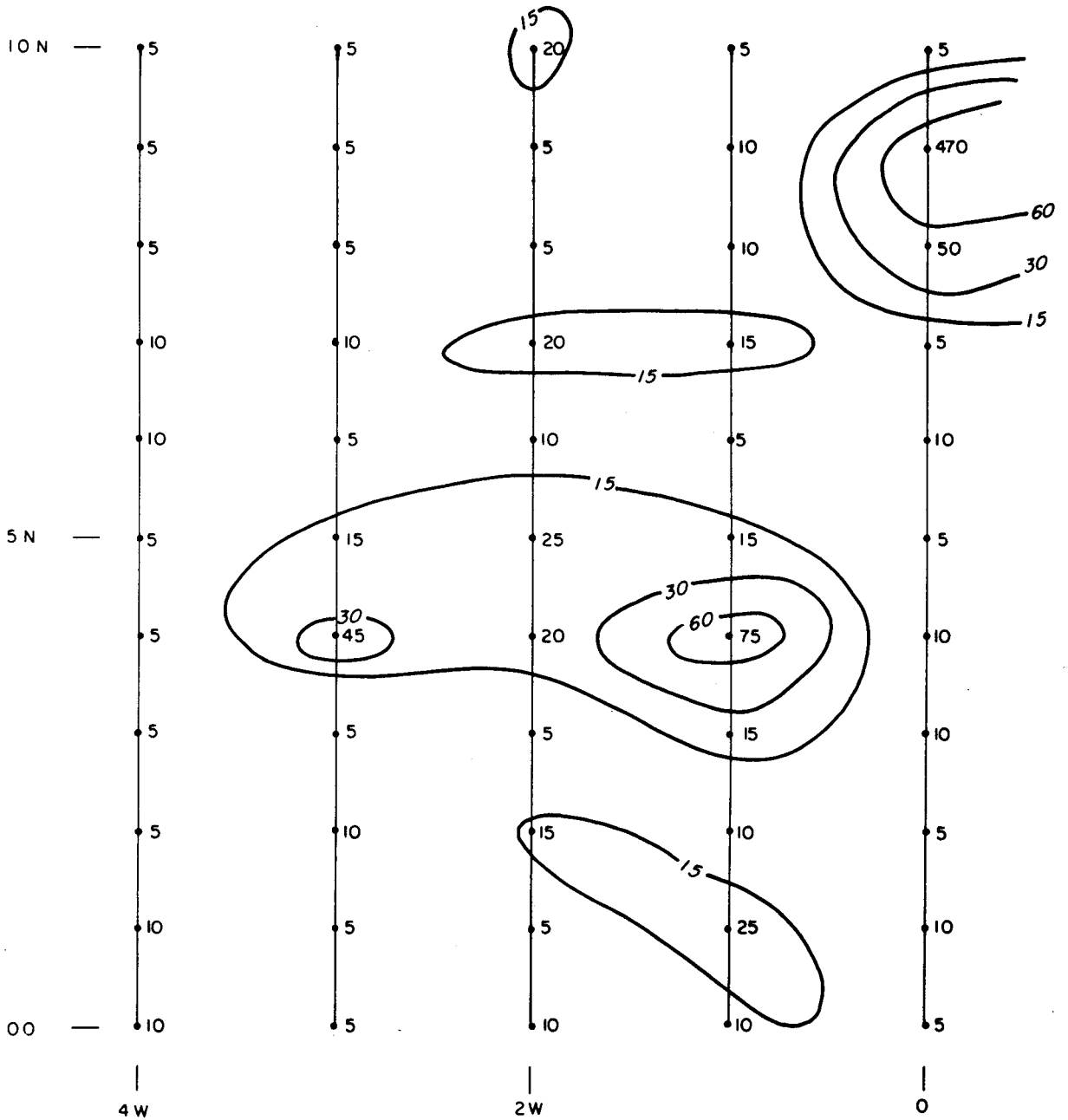


SCALE 1:1000

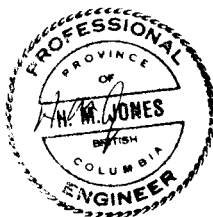
NOV. 1982

FIG. II

H. M. J.



Au in ppb >15 ppb ANOMALOUS



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**GOLD MINE CLAIM
 GRID 3
 GEOCHEMISTRY — GOLD
 HEDLEY AREA — SIMILKAMEEN M.D.**

0 40Metres

SCALE 1:1000

NOV. 1982

FIG. 12

H. M. J.

(figures 10,11,12). A possible northeast trend is indicated by the gold anomalies. This parallels one of the mineralized shear directions noted in the pits. Sampling in this area should be expanded.

Geology and Mineralization

(a) Area 1 - Old Gold Hill Workings

General geology in this area consists of interbedded fine grained, green, siliceous to cherty well bedded quartzitic sediments, argillite, and medium to coarse grained dark grey to grey-green poorly bedded to massive tuffs(?). Included within these sediments is a bed (or beds) of breccia consisting of fragments of the above rocks cemented by calcite and quartz. Within the breccia some sedimentary beds alternate with bands of calcite 1 cm to 5 cm wide.

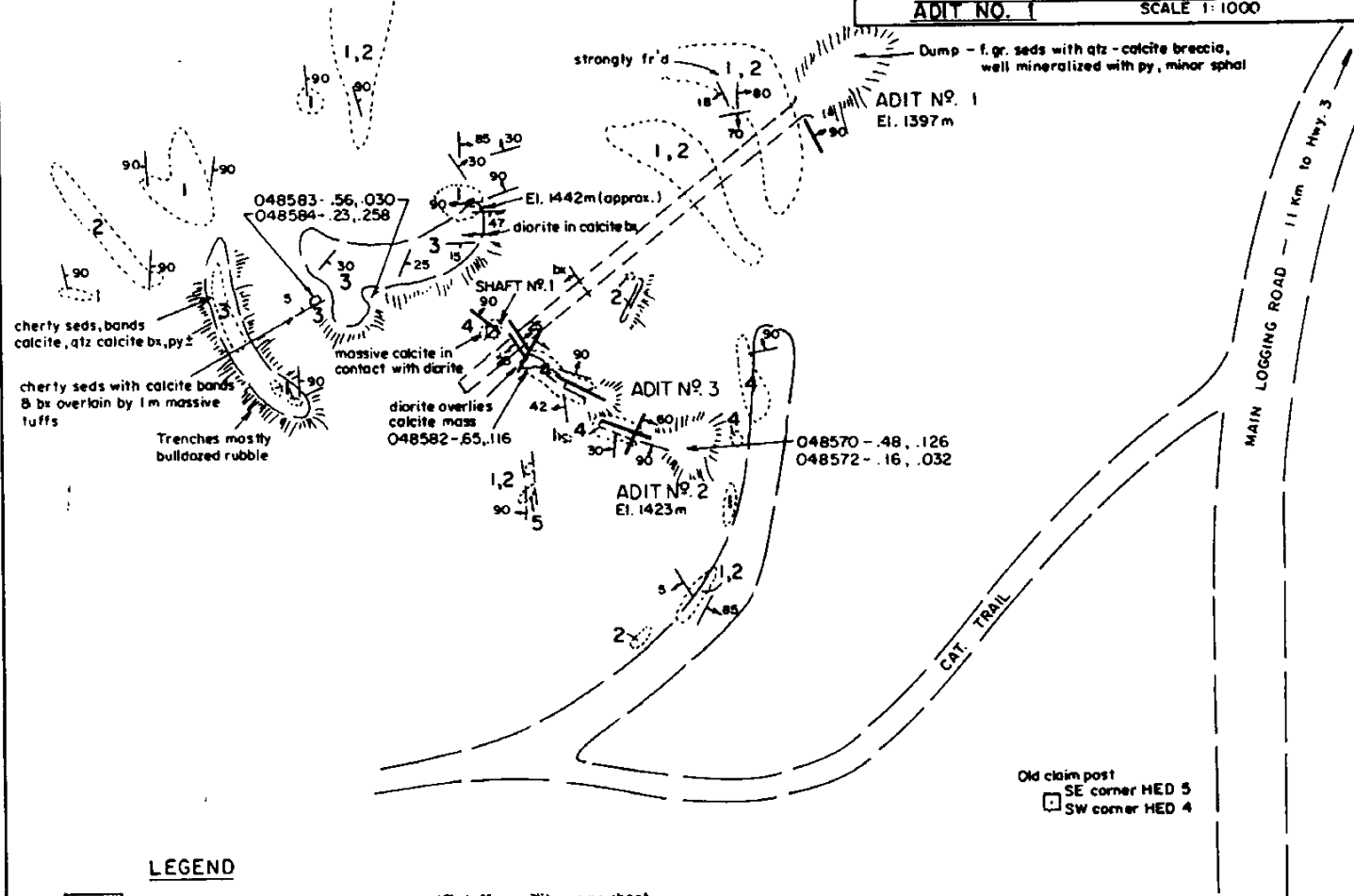
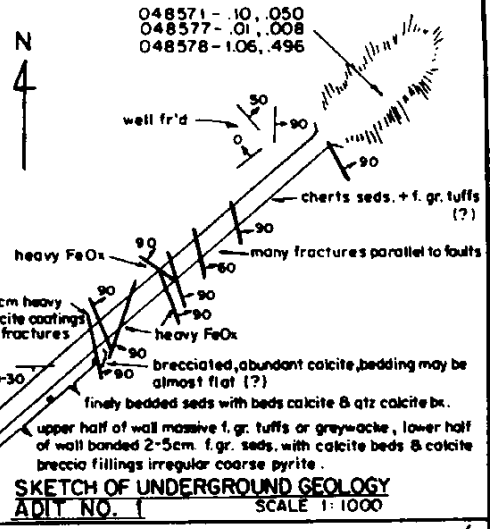
A fresh, light grey, medium grained hornblende diorite (hornblende porphyry) intrudes the above sediments, as does at least one fine grained diorite dyke. The intrusive rocks are poorly exposed and few contacts were seen.

The above geology was explored during the middle 1930's by 3 adits, a short shaft and a number of pits (see fig.13). Adits 2 and 3 and the shallow shaft explore a northwesterly striking shear zone in hornblende diorite (hornblende porphyry). Dump material indicates that the shear probably contained coarse masses of silvery pyrite (resembles arsenopyrite) in leached vuggy quartz. The shaft at the northwest end of adits 2 and 3 exposes a large mass of crystalline calcite overlain by and in fault contact with hornblende diorite (hornblende porphyry). Local areas along the intrusive-calcite contact contains coarse masses of pyrite in heavy limonite gossan and in white, leached, siliceous wallrock.



Approx. location carved adit

048585 - .08, .052



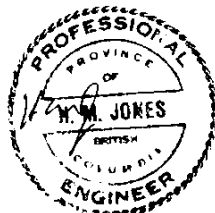
LEGEND

- 1 FINE GRAINED SEDIMENTS - greywacke (?), tuffs, argillite, some chert
- 2 GRAINY FINE GRAINED SEDIMENTS, MASSIVE - tuffs (?)
- 3 CALCITE BRECCIA - above units with beds calcite and calcite breccia fillings
- 4 HORNBLLENDE PORPHYRITIC DIORITE
- 5 FINE GRAINED DIORITE DYKE

SYMBOLS

- OUTCROP
- ▭ BULLDOZED AREA
- ROAD OR CAT. TRAIL
- ▬ BEDDING
- 70° FRACTURE
- 90° FAULT
- UNDERGROUND WORKINGS
- ▭ DUMP OR BULLDOZED MATERIAL

048571 - .01, .050 Sample No. - Ag oz/ton, Au oz/ton



PHILEX GOLD & ENERGY CORP

G.A. NOEL & ASSOCIATES INC. VANCOUVER, B.C.

**GOLD MINE CLAIM
OLD GOLD HILL WORKINGS AREA 1
GEOLOGY**

HEDLEY AREA - SIMILKAMEEN M.D.

0 20 40 metres

SCALE 1:1000

H.M.J.

NOV. 1982

FIG. 13

Along trend to the northwest of these workings fairly recent bulldozer stripping has exposed a breccia zone consisting of coarse to fine fragments of sediments in a calcite-quartz matrix. Minor hornblende diorite was also found here. Locally, coarse masses of pyrite occur within the calcite. Included within and possibly forming the walls of the breccia zone are beds of fine grained sediments containing conformable bands of calcite 1 to 5 cm wide. This latter unit is well exposed in an old pit and appears to underlie the breccia. The sediments are very contorted on the northern side of the larger bulldozer area. While locally all attitudes are $N5^{\circ}-10^{\circ}W/90$, here a very tight west striking, steeply dipping anticlinal fold confuses the geology. The axis of the fold is approximately 40 m north northwest of adit 3 portal.

Old pits and bulldozed rubble indicate that there may be more than one horizon of breccia and calcite banding in sediments. These may alternate with massive tuff beds, one of which is clearly exposed in a shallow pit at the southwest end of the above bulldozed area.

Adit 1 is 62 m long and passes beneath adit 3 (see fig.13). The first 42 m of this crosscut is in fine grained argillaceous sediments and tuffs(?) cut by numerous steeply dipping, limonitic faults striking $N20-30 W$. Abundant secondary calcite coats the adit walls adjacent to several of these faults. The remaining 20 m of the drift is in calcite-quartz breccia and calcite-banded sediments, both very similar to those rocks exposed in the bulldozed area described earlier and approximately 40 m higher in elevation than adit 1. The adit terminates in these brecciated and banded rocks. They are relatively flat lying and are in fault contact to northeast with the fine grained sediments and tuffs.

On surface and underground the brecciated rocks in particular and the banded rocks to a lesser degree are well mineralized with coarse masses of pyrite, small blebs of sphalerite, and minor arsenopyrite, chalcopyrite and galena. Several samples were taken of these mineralized rocks. Their locations and assays are shown on figure 13 and described in Table 1.

It is not clear what the relationship is between the breccia and banded rocks seen both on surface and in adit 1. They may represent several beds within the sedimentary package or may be repeated by faulting or folding.

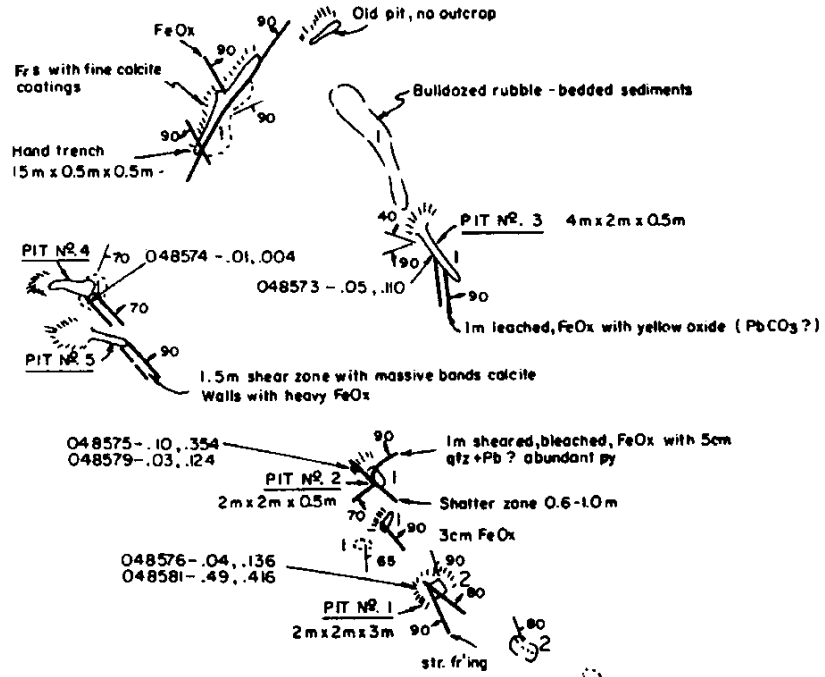
(b) Grid 3 Area

Very sparse outcrop is present in the grid 3 area, which is on open grassy slopes with a light scattering of fir trees. Geology, restricted mostly to that exposed in old pits, consists of fine grained siliceous sediments and coarser grained tuffaceous units (see fig.14).

Two shallow shaft-like pits (pits 1 and 2) expose a north-westerly striking shear zone 60 cm wide. The central part of the zone is bleached, silicified, and mineralized with very fine sulfides thought to be galena. It is in part coated with fine yellow oxide (cerussite?). The remainder of the shear is very limonitic.

In pit 2 a northeasterly-striking cross fault, offset approximately one metre by the northwest striking fault, is also partially silicified and has fine galena (?) and the yellow oxide (cerussite?).

In pit 3, located 30 m north of pit 2, a shear similar



Claim post
Gold Mine 4E

LEGEND

- 1 FINE GRAINED SEDIMENTS - graywacke (?), tuffs, argillite, some chert
- 2 GRAINY FINE GRAINED SEDIMENTS, MASSIVE - tuffs (?)

SYMBOLS

- OUTCROP
- BULLDOZED AREA
- BEDDING
- FRACTURE
- FAULT OR SHEAR ZONE
- PIT WITH DUMP
- TRENCH WITH DUMP

048576-.04,136 SAMPLE NO. - Ag oz/ton, Au oz/ton



PHILEX GOLD & ENERGY CORP		
G.A. NOEL & ASSOCIATES INC.		VANCOUVER, B.C.
GOLD MINE CLAIM GRID 3 GEOLOGY HEDLEY AREA - SIMILKAMEEN M.D.		
SCALE 1:1000	NOV. 1982	FIG. 14
H. M. J.		

in appearance to the northwest striking one found in pits 1 and 2 was seen, but this one strikes northerly. It is either a faulted segment of that exposed in the other pits or a different shear.

Pits 4 and 5 expose a calcite zone up to 1.5 m wide. Walls are strongly sheared and limonitic.

Further work is warranted in this area to explore the mineralized shears.

Assays

Sixteen rock samples were collected from the various workings. Their locations are shown on figures 13 and 14. The following table is a description of all samples:

SAMPLE NO.	TABLE I			ASSAYS		DESCRIPTION
	TYPE	WIDTH	LOCATION	Au oz/ton	Ag oz/ton	
048570	Spec.	-	No 2 adit- dump	0.126	0.48	Silvery pyrite (arsenopyrite) massive, with quartz
048571	Spec.	-	No 1 adit- dump	0.050	0.10	Quartz-calcite breccia with abundant coarse pyrite
048572	Spec.	-	No 2 adit- dump	0.032	0.16	Very oxidized, fine grained, with fragments diorite plus small arsenopyrite on fractures
048573	Chip	75cm	Pit No 3	0.110	0.05	75cm shear zone-15cm heavy Fe OX;46cm FeOX, weak Pb Co3(?);14cm yellow gouge
048574	Chip	152cm	Pit No 4	0.004	0.01	Shear, mostly massive calcite with scattered limonite fragments
048575	Spec.	15cm	Pit No 2	0.354	0.10	Slab sulfides on shear surface, coarse pyrite and fine sulfides, grey-green on surface, minor quartz eyes
048576	Spec.	-	Pit No 1- Dump	0.136	0.40	Oxidized, very shattered & bleached, narrow seams red oxide, no visible sulfides
048577	Spec.	-	Adit No 1- Dump	0.008	0.01	Oxidized fines from end of dump, some calcite fragments, much dark dyke fragments
048578	Spec.	-	Pit No 1- Dump	0.496	1.06	Cerussite with fine sulfides, may represent 5-7cm vein(?)
048579	Chip	38cm	Pit No 2	0.124	0.03	Bleached shear and Fe OX

<u>SAMPLE NO</u>	<u>TYPE</u>	<u>WIDTH</u>	<u>LOCATION</u>	<u>Au oz/ton</u>	<u>Ag oz/ton</u>	<u>DESCRIPTION</u>
048580	Spec.	30cm	on road near W claim boundary	0.007	0.01	Quartz carbonate zone, few pieces with oxidized frs & small quartz seams
048581	Chip	96cm	Pit No 1	0.416	0.49	From SW wall near base of pit, oxidized shear zone, minor sulfides, some cerussite?
048582	Chip	122cm	Adit No 3	0.116	0.65	Oxidized area near intrusive-calcite contact, any calcite in section not sampled
048583	grab	-	stripped area above adit No. 3	0.03	0.56	Oxidized dump material in bulldozed area, some massive pyrite (asp tinted)
048584	Spec.	-	old pit W of adit No. 3	0.258	0.23	Bedded fine grain sediments interlayered with calcite bands, with some py also coarse sph
048585	Spec.	-	caved adit & pits approx. 70m NW of adit No. 3	0.052	0.08	Bleached & sheared fine grain sediment (tuff?) oxidized, calcite stringers, apprec. pyrite

The above assays indicate that mineralized structures are present in both areas covered by the recent geological mapping. Assays from within or adjacent to the breccia zone show that low gold values occur both within the breccia and in the shear in the intrusive.

Samples from the area of small pits and trenches also returned interesting values in gold, especially sample No. 048581, which returned 0.416 oz/ton gold over 96 cm. Both areas require additional work.

CONCLUSION

Work to date on the Gold Mine and Gold Hill claims by present and previous operators has been successful in locating several areas containing gold bearing structures, as well as locating geochemically anomalous areas which to date are untested. It is concluded that an exploration program is warranted to further explore all areas of interest.

RECOMMENDATIONS

It is recommended that a program of geochemical soil sampling and geological mapping be continued to give complete coverage of the claims area. Upon completion of the above work, all areas of interest should be tested by backhoe trenching, followed by drilling, if warranted.

It is imperative that before the above program is commenced, a compass and chain survey be run over the claims to establish approximate boundaries.

Respectfully submitted



HAROLD M. JONES, P.Eng.

REFERENCES

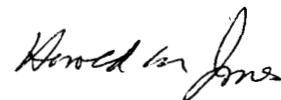
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Creek - Hedley Mine Area,
Similkameen M.D., Hedley, B.C.
Private Report for Philex Gold
& Energy Corporation

CERTIFICATE

I, Harold M. Jones, of the City of Vancouver, British Columbia, do hereby certify that:

1. I am a consulting geological engineer with G.A. Noel & Associates Inc., at 721-602 West Hastings Street, Vancouver, B.C.
2. I am a graduate of the University of British Columbia in Geological Engineering, 1956.
3. I have practiced my profession as a geological engineer for 25 years.
4. I am a member of the Association of Professional Engineers of British Columbia, Registration No. 4681.
5. I examined the Gold Mine and Gold Hill claims between October 13-17, 1982, conducted geological mapping and supervised a soil sampling program on the claims.
6. I have also conducted geological mapping and compiled reports on: Banbury Gold Mines property which adjoins the Gold Mine and Gold Hill claims to the east - 1975; Zurich Energy Corp. property on Cahill Creek, 9km due east of the subject claims - 1982.

Dated at Vancouver, B.C. this 29th day of November, 1982.



HAROLD M. JONES, P.Eng.

APPENDIX I
COST SUMMARY

STATEMENT OF COSTS

Period October 11-17, 1982

<u>Wages:</u> Brian Fenwick - Wilson, prospector		
7 days @ 150	\$1,050	
Mark Fenwick - Wilson, field asst.		
7 days @ 100	700	
Michael Fenwick-Wilson, field asst.		
7 days @ 100	700	
Silvia Fenwick-Wilson, field asst.		
5 days @ 100	500	
Steven Hancharyk, field asst.		
5 days @ 100	500	
Harold M. Jones, P.Eng. Geologist		
5 days @ 300	<u>1,500</u>	<u>4,950.00</u>
 <u>Room & Board:</u>		
Golden Dawn Motel, near Hedley		1,023.28
 <u>Vehicle</u>		
Toyota 4x4 pickup-including fuel, mileage charges		475.00
 <u>Field Supplies</u>		
Flagging, pickets, soil bags, hip chain		300.00
 <u>Chain Saw Rental</u>		
@ \$25/day , 4 days		100.00
 <u>Assays</u>		
Acme Analytical Laboratories- geochemical samples	2,378.75	
rock samples	<u>206.00</u>	2,584.75
 <u>Report & Map Preparation</u>		1,000.00
Secretarial		<u>100.00</u>
 Total Expenditure		\$ <u><u>10,533.03</u></u>

APPENDIX II
ASSAY CERTIFICATES, LABORATORY PROCEDURES,
FREQUENCY DISTRIBUTION CURVES



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

Telephone : 253 - 3158

GEOCHEMICAL LABORATORY METHODOLOGY - 1981

SAMPLE PREPARATION

1. Soil samples are dried at 60°C and sieved to -80 mesh.
2. Rock samples are pulverized to -100 mesh.

Geochemical Analysis for Ag*, Bi*, Cd*, Co, Cu, Fe, Mn, Mo, Ni, Pb, Sb*, V, Zn

0.5 gram samples are digested hot dilute aqua regia in a boiling water bath and diluted to 10 ml with demineralized water.

All the above elements are determined in the acid solution by Atomic Absorption.

* demotes background correction.

Geochemical Analysis for Au

10.0 gram samples that have been ignited overnight at 600°C are digested with hot dilute aqua regia, and the clear solution obtained is extracted with Methyl Isobutyl Ketone.

Au is determined in the MIBK extract by Atomic Absorption using background correction (Detection Limit = 5 ppb direct AA and 1 ppb graphite AA.)

Geochemical Analysis for Au, Pd, Pt, Rh

10.0 - 30.0 gram samples are subjected to Fire assay preconcentration techniques to produce silver beads.

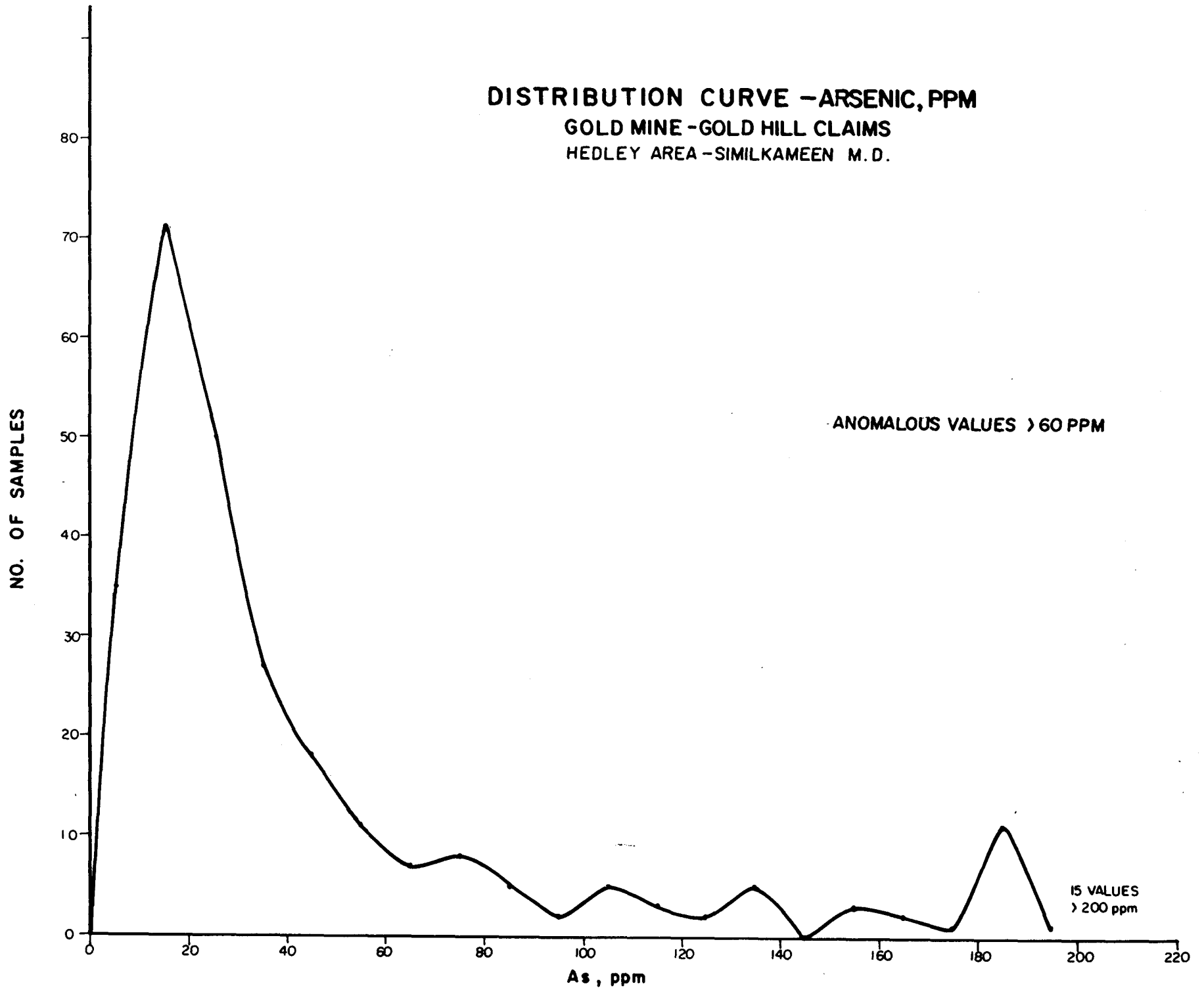
The silver beads are dissolved and Au, Pd, Pt, and Rh are determined in the solution by Atomic Absorption.

Geochemical Analysis for As

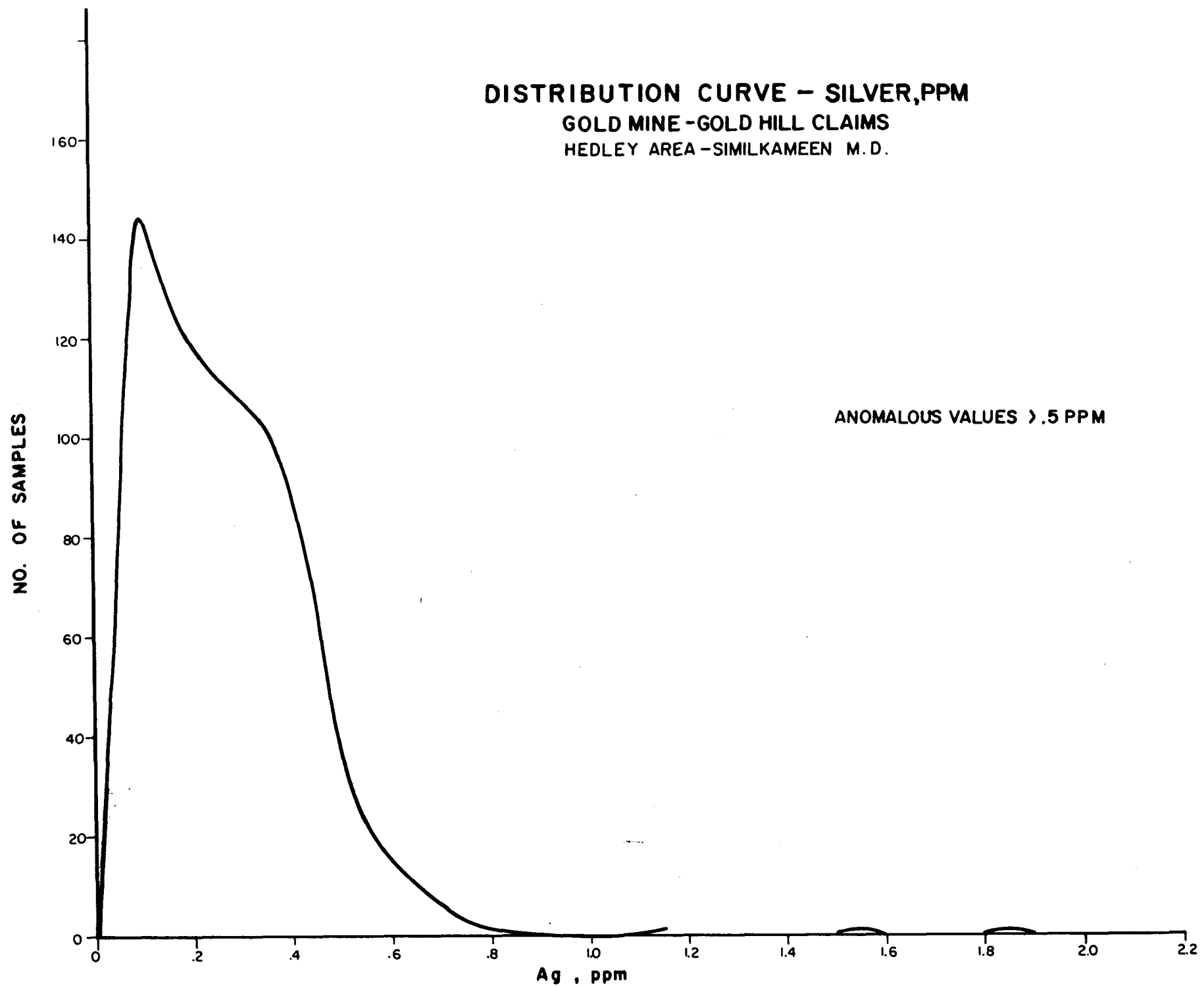
0.5 gram samples are digested with hot dilute aqua regia and diluted to 10 ml.

As is determined in the solution by Graphite Furnace Atomic Absorption.

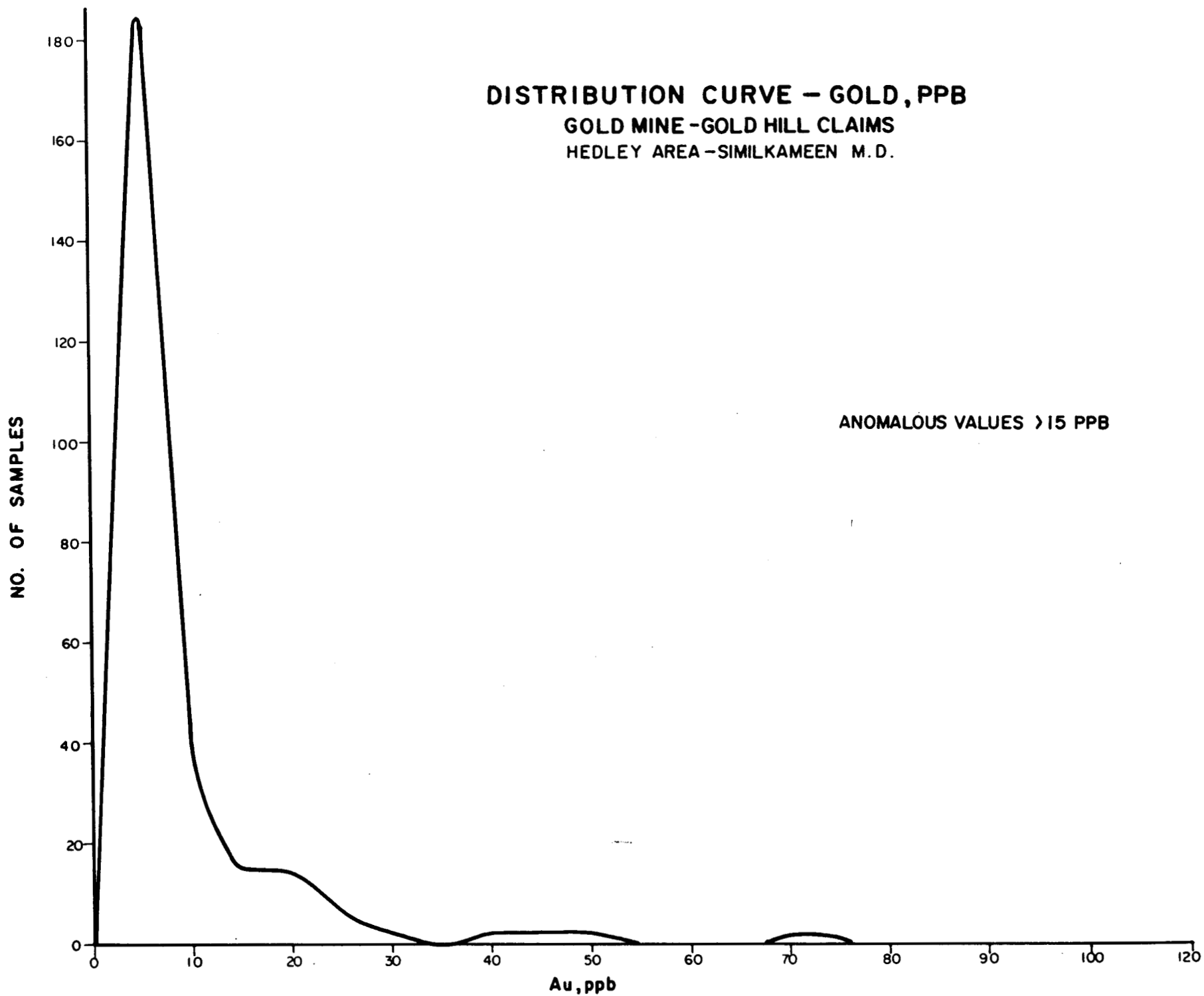
DISTRIBUTION CURVE - ARSENIC, PPM
GOLD MINE - GOLD HILL CLAIMS
HEDLEY AREA - SIMILKAMEEN M.D.



DISTRIBUTION CURVE - SILVER, PPM
GOLD MINE - GOLD HILL CLAIMS
HEDLEY AREA - SIMILKAMEEN M.D.



DISTRIBUTION CURVE - GOLD, PPB
GOLD MINE - GOLD HILL CLAIMS
HEDLEY AREA - SIMILKAMEEN M.D.





To: Philex Gold
605 - 837 W. Hastings St.,
Vancouver, B.C.

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

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phone:253 - 3158

File No. 82-1404 A

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au ppb										
OS 0 W	.1	15										1
50	.3	5										2
100	.2	5										3
150	.1	5										4
200	.6	10										5
250	.2	5										6
300	.3	5										7
350	.4	5										8
400	.4	5										9
450	.4	5										10
500	.2	5										11
550	.2	5										12
600	.3	5										13
650	.5	5										14
700	.4	10										15
750	.5	5										16
800	.5	5										17
850	.4	20										18
900	.3	5										19
950	.2	15										20
OS 1000 W	.2	5										21
												22
IS 0 W	.2	15										23
50	.3	10										24
100	.2	5										25
150	.3	5										26
200	.4	5										27
250	.3	10										28
300	.1	5										29
350	1.5	10										30
400	.1	5										31
450	.3	5										32
500	.2	5										33
550	.1	5										34
600	.3	5										35
650	.3	10										36
700	.2	5										37
IS 750 W	.2	5										38
												39
												40

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All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

P = pulverizing

DATE SAMPLES RECEIVED Oct. 22, 1982

DATE REPORTS MAILED Oct. 28, 1982

ASSAYER Dean Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



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File No. 82-1404 A

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.		Ag	Au ppb											
1S	800 W	.2	5											1
	850	.4	5											2
	900	.4	5											3
	950	.2	5											4
1S	1000 W	.3	5											5
														6
2S	0 W	.3	5											7
	50	P .3	5											8
	100	P .2	15											9
	150	.2	5											10
	200	.3	5											11
	250	.3	5											12
	300	P .4	5											13
	350	.5	5											14
	400	.4	5											15
	450	.5	5											16
	500	.7	5											17
	550	.3	5											18
	600	.3	5											19
	650	.5	5											20
	700	.4	5											21
	750	.3	5											22
	800	.3	5											23
	850	.3	5											24
	900	.1	5											25
	950	.3	5											26
2S	1000 W	.4	5											27
														28
3S	0 W	.3	5											29
	50	.1	10											30
	100	.2	5											31
	150	.1	5											32
	200	.3	5											33
	250	.3	5											34
	300	.4	5											35
	350	.2	5											36
	400	.1	5											37
	450	.2	5											38
3S	500 W	.4	5											39
														40

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DETERMINATION:.....

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ASSAYER *D. Toye*

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Philex Gold

File No. 82-1404 A

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au ppb									
3S 550 W	.2	5									1
600	.2	5									2
650	.3	10									3
700	.3	5									4
750	.4	5									5
800	.3	5									6
850	.3	5									7
900	.3	5									8
950	.3	5									9
3S 1000 W	.2	5									10
											11
4S 0 E	.2	5									12
50	.2	5									13
100	.3	5									14
150	.3	5									15
200	.3	5									16
250	.2	5									17
300	.2	5									18
350	.2	5									19
400	.2	5									20
450	.3	5									21
500	.2	5									22
550	.2	5									23
600	.2	5									24
4S 650 E	.3	15									25
											26
4S 0 W	.2	20									27
50	P .1	5									28
100	.7	5									29
150	.1	5									30
200	.1	10									31
250	P .1	5									32
300	.2	5									33
350	.2	5									34
400	.1	5									35
450	P .3	5									36
500	.1	15									37
550	.3	5									38
4S 600 W	.5	5									39
											40

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DETERMINATION:.....

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phone: 253 - 3158

File No. 82-1404 A

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au ppb									
4S 650 W	.3	5									1
700	.3	5									2
750	.5	10									3
800	.5	5									4
850	.6	5									5
900	.4	5									6
950	.3	10									7
4S 1000 W	.5	20									8
											9
OW 0 N	.2	5									10
1	.4	10									11
2	.3	5									12
3	.3	10									13
4	.4	10									14
5	.5	5									15
6	.4	10									16
7	.4	5									17
8	.2	50									18
9	.4	470									19
OW 10 N	.3	5									20
											21
1W 0 N	.2	10									22
1	.2	25									23
2	.2	10									24
3	.2	15									25
4	.4	75									26
5	.4	15									27
6	.5	5									28
7	.4	15									29
8	.2	10									30
9	.3	10									31
1W 10 N	.1	5									32
											33
2W 0 N	.4	10									34
1	.3	5									35
2	.3	15									36
3	.3	5									37
4	.2	20									38
5	.5	25									39
2W 6 N	.2	10									40

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DETERMINATION:.....

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To: Philex Gold

File No. 82-1404A

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au ppb													
2W 7 N	1.1	20													1
8	.2	5													2
9	.2	5													3
2W 10 N	2.5	20													4
															5
3W 0 N	.3	5													6
1	.5	5													7
2	.4	10													8
3	.1	5													9
4	.2	45													10
5	.2	15													11
6	.3	5													12
7	.2	10													13
8	.2	5													14
9	.1	5													15
3W 10 N	.2	5													16
															17
4W 0 N	.2	10													18
1	.2	10													19
2	.1	5													20
3	.2	5													21
4	.1	5													22
5	.1	5													23
6	.1	10													24
7	.2	10													25
8	.3	5													26
9	.3	5													27
4W 10 N	.1	5													28
															29
															30
															31
															32
															33
															34
															35
															36
															37
															38
															39
															40

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 DIGESTION:.....
 DETERMINATION:.....

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 ASSAYER Dean Toy

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phone:253 - 3158

File No. 82-1404 A

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au ppb								
0 0 E	.4	5								1
30	.1	5								2
60	.1	5								3
90	.2	5								4
120	.1	5								5
150	.5	5								6
180	.2	5								7
210	.1	5								8
240	.1	5								9
270	.1	5								10
0 300 E	.2	5								11
1 0 E	.2	5								12
30	.3	5								13
60	.1	5								14
90	.2	5								15
120	.2	5								16
150	.3	5								17
180 P	.3	5								18
210	.2	5								19
240	.1	5								20
270	.2	20								21
300	.2	5								22
330	.2	5								23
360	.1	10								24
390	.1	5								25
420	.2	5								26
450	.2	10								27
480	.1	10								28
1 510 E	.4	20								29
2 0 E	.1	5								30
30	.1	10								31
60	.3	5								32
90	.1	5								33
120	.1	5								34
150	.2	5								35
180	.5	15								36
210	.2	5								37
2 240 E	.1	5								38

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 DIGESTION:.....
 DETERMINATION:.....

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 ASSAYER Dean Toye

DEAN TOYE, B.Sc.
 CHIEF CHEMIST
 CERTIFIED B.C. ASSAYER



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phone:253 - 3158

File No. 82-1404 A

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

7	SAMPLE No.	Ag	Au ppb											
2	270 E	.2	120											1
	300	.2	30											2
	330	.2	5											3
	360	.2	40											4
	390	.1	45											5
	420	.1	5											6
	450	.1	70											7
	480	.1	10											8
2	510 E	.1	10											9
														10
3	0 E	.2	5											11
	30	.1	5											12
	60	.1	5											13
	90	.2	5											14
	120	.1	10											15
	150	.3	5											16
	180	1.8	2300											17
	210	.2	25											18
	240	.2	5											19
	270	.1	15											20
	300	.2	5											21
	330	.4	10											22
	360	.2	25											23
	390	.2	20											24
	420	.1	15											25
	450	.1	20											26
	480	.2	15											27
3	510 E	.1	70											28
														29
4	0 E	.2	5											30
	30	.4	5											31
	60	.2	5											32
	90	.3	160											33
	120	.3	10											34
	150	P .2	40											35
	180	.3	50											36
	210	P .2	15											37
	240	.4	5											38
	270	.4	5											39
4	300 E	.4	10											40

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Oct. 22, 1982

DATE REPORTS MAILED Oct. 28, 1982

ASSAYER Dean Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Philex Gold

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone:253 - 3158

File No. 82-1404 A

Type of Samples Soils

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

8

SAMPLE No.		Ag	Au ppb																		
4	330 E		.4	20																	1
	360		.2	30																	2
	390		.4	15																	3
	420		.3	20																	4
	450		.3	20																	5
	480	P	.3	5																	6
4	510 E		.1	10																	7
																					8
5	0 E		.5	5																	9
	30		.2	5																	10
	60		.5	5																	11
	90		.3	5																	12
	120		.3	25																	13
	150		.4	5																	14
	180		.4	5																	15
	210		.5	5																	16
	240		.4	5																	17
	270		.2	5																	18
	300		.2	5																	19
	330	P	.3	5																	20
	360		.1	25																	21
	390		.2	10																	22
	420		.2	20																	23
	450		.2	5																	24
	480		.2	5																	25
5	510 E		.1	5																	26
																					27
																					28
																					29
																					30
																					31
																					32
																					33
																					34
																					35
																					36
																					37
																					38
																					39
																					40

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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Oct. 22, 1982

DATE REPORTS MAILED Oct. 28, 1982

ASSAYER Dean Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Philex Gold
605 - 837 West Hastings St.,
Vancouver, B.C.

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

Telephone: 253 - 3158

File No. 82-1404 B

Type of Samples Rock

Disposition _____

ASSAY CERTIFICATE

No.	Sample	Ag oz/ton	Au oz/ton						No.
1	48570	.48	.126						1
2	48571	.10	.050						2
3	48572	.16	.032						3
4	48573	.05	.110						4
5	48574	.01	.004						5
6	48575	.10	.354						6
7	48576	.40	.136						7
8	48577	.01	.008						8
9	48578	1.06	.496						9
10	48579	.03	.124						10
11	48580	.01	.007						11
12	48581	.49	.416						12
13	48582	.65	.116						13
14	48583	.56	.030						14
15	48584	.23	.258						15
16	48585	.08	.052						16
17									17
18									18
19									19
20									20

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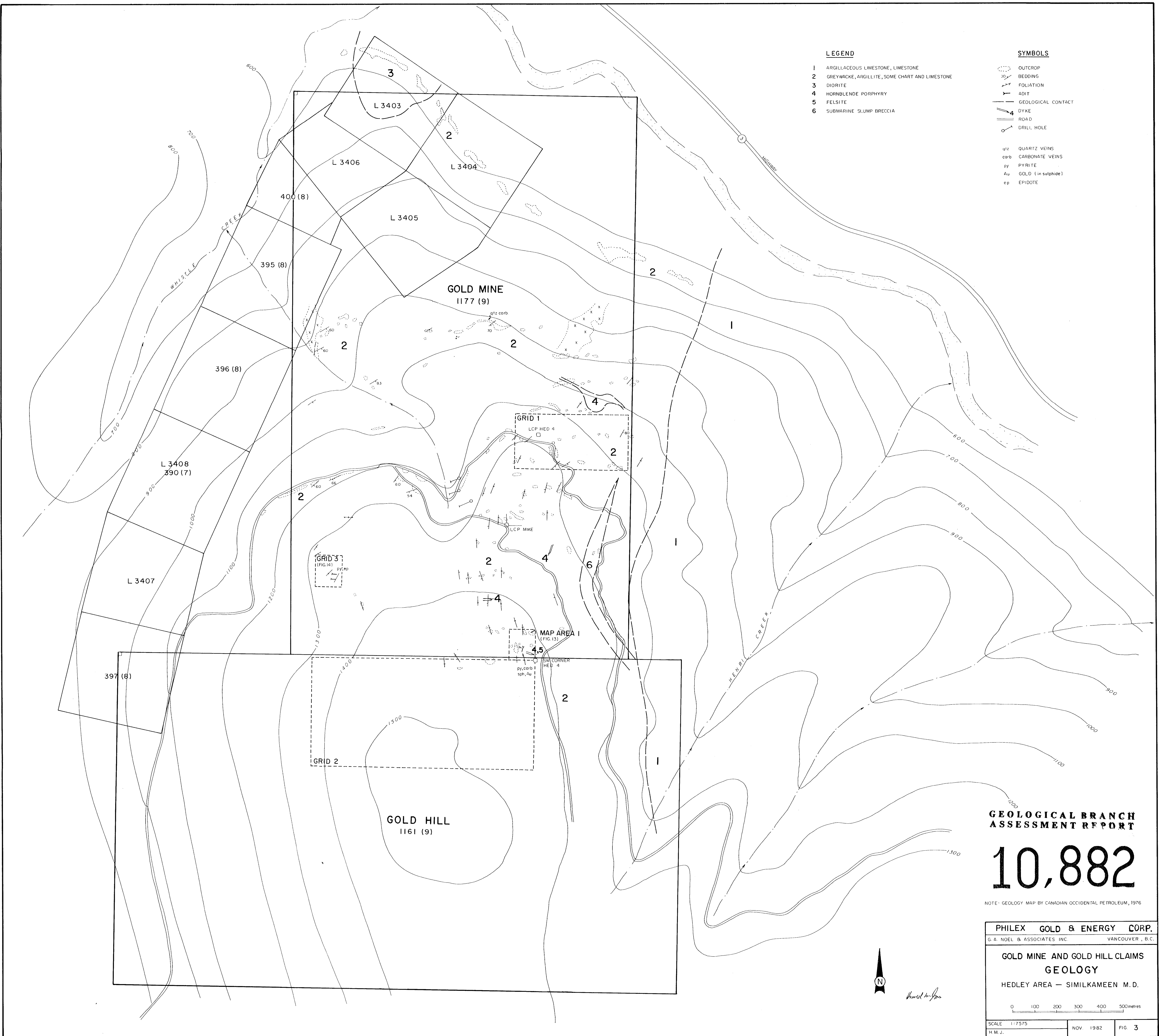
DATE SAMPLES RECEIVED Oct. 22, 1982

DATE REPORTS MAILED Oct. 26, 1982

ASSAYER

Dean Toyé

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



- LEGEND**
- 1 ARGILLACEOUS LIMESTONE, LIMESTONE
 - 2 GREYWACKE, ARGILLITE, SOME CHART AND LIMESTONE
 - 3 DIORITE
 - 4 HORNBLENDE PORPHYRY
 - 5 FELSITE
 - 6 SUBMARINE SLUMP BRECCIA
- SYMBOLS**
- OUTCROP
 - BEDDING
 - ~ FOLIATION
 - ADIT
 - GEOLOGICAL CONTACT
 - 4 DYKE
 - ROAD
 - DRILL HOLE
- qtz QUARTZ VEINS
 carb CARBONATE VEINS
 py PYRITE
 Au GOLD (in sulphide)
 ep EPIDOTE

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

10,882

NOTE: GEOLOGY MAP BY CANADIAN OCCIDENTAL PETROLEUM, 1976

PHILEX GOLD & ENERGY CORP.		
G. A. NOEL & ASSOCIATES INC.		VANCOUVER, B.C.
GOLD MINE AND GOLD HILL CLAIMS GEOLOGY		
HEDLEY AREA — SIMILKAMEEN M.D.		
0 100 200 300 400 500metres		
SCALE 1:7575	NOV. 1982	FIG. 3

