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GEOLOGICAL REPORT
ON THE
ULTREX PETROLEUM LTD. PROPERTY

Horwood Township
Horwood Lake Area, Ontario

RECEIVED

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MINING LANDS SECTION

by
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SUMMARY

The Horwood Lake property of Ultrex Petroleum Limited consists of twelve (12) contiguous unpatented 40-acre mining claims. The claims are located in Horwood Township, District of Sudbury, Porcupine Mining Division, Northeastern Ontario. A geological survey was carried out during the month of May, 1984. The property was found to be underlain by intermediate to mafic metavolcanics and metagabbroic intrusive rocks. Numerous narrow, possibly auriferous (gold bearing) quartz veins were located on the property. Those containing significant amounts of pyrite, pyrrhotite and chalcopyrite mineralization were sampled and sent for assaying. A follow up program consisting of detailed prospecting and geophysical surveys is recommended.

INTRODUCTION

A Geological mapping survey was conducted between May 16, 1984 and June 1, 1984 on the Ultrex Petroleum Limited, Horwood Lake property. The twelve (12) contiguous mining claims are located in the central portion of Map 2329, Horwood Lake Sheet (Breaks 1978) in the central part of Horwood Township. The property adjoins the surveyed mining property owned by Groundhog Gold Mines Limited, which will be discussed later in this report.

INTRODUCTION cont'd

The survey was conducted by Don Hillier, B.Sc. The mapping and prospecting program was carried out on a compass and flagged grid established prior to the geological survey. The grid, also established by Don Hillier, consisted of an east-west baseline and north-south survey lines spaced 400 feet apart. Survey stations were flagged every 100 feet along the survey lines. An east-west tieline was established at 3,600 feet north of the baseline. A large majority of the rock outcrops were covered by light (2 to 4 inches) moss and where possible this moss cover was partially stripped by hand during the mapping survey.

It is the purpose of this report to discuss the results of the geological survey and prospecting program. Recommendations for further work to locate auriferous zones are also included later in this report.

LOCATION AND ACCESS

The Ultrex Petroleum property is located in northeastern Ontario at latitude $48^{\circ}00'$ and longitude $82^{\circ}20'$ or approximately 17 miles south-southeast of Foleyet, Ontario (see Figure 1). The property is situated on the east shore of Horwood Lake on the western part of Horwood Peninsula, 1 mile southeast of Pinecone Point.

The property is accessible via boat which can be rented at a fishing-hunting camp located at the northernmost tip of Horwood Lake.

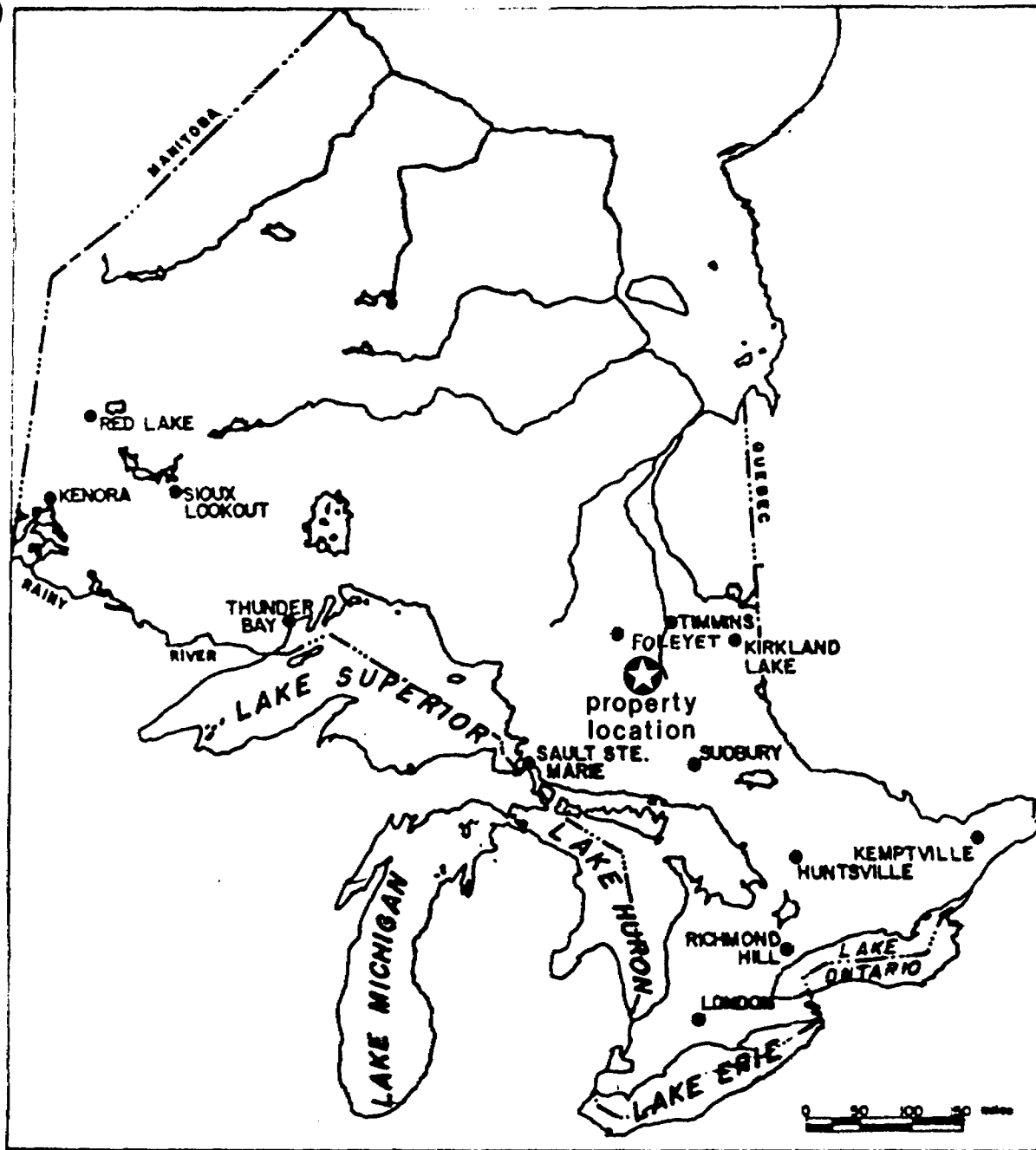


Figure #1 -- Property Location Map

PROPERTY

The 12 contiguous mining claims included in the Ultrex Petroleum Limited claim group encompass approximately 480 acres of mining land in the central part of Horwood Township. The claims are registered with the Ministry of Natural Resources, Recording Office, Timmins, Ontario. The claims are listed below.

<u>Claim No.</u>	<u>Approx. Area</u>	<u>Recording Date</u>	<u>Registered Staker</u>
P-749472	40 acres	Sept. 15, 1984	E. J. Korba
P-749473	"	"	"
P-749474	"	"	"
P-749475	"	"	"
P-749476	"	"	"
P-749477	"	"	"
P-749478	"	"	"
P-749479	"	"	"
P-749480	"	"	"
P-749481	"	"	"
P-749482	"	"	"
P-749483	"	"	"

At the time of writing the claims were in good standing and were held by Ultrex Petroleum Limited.

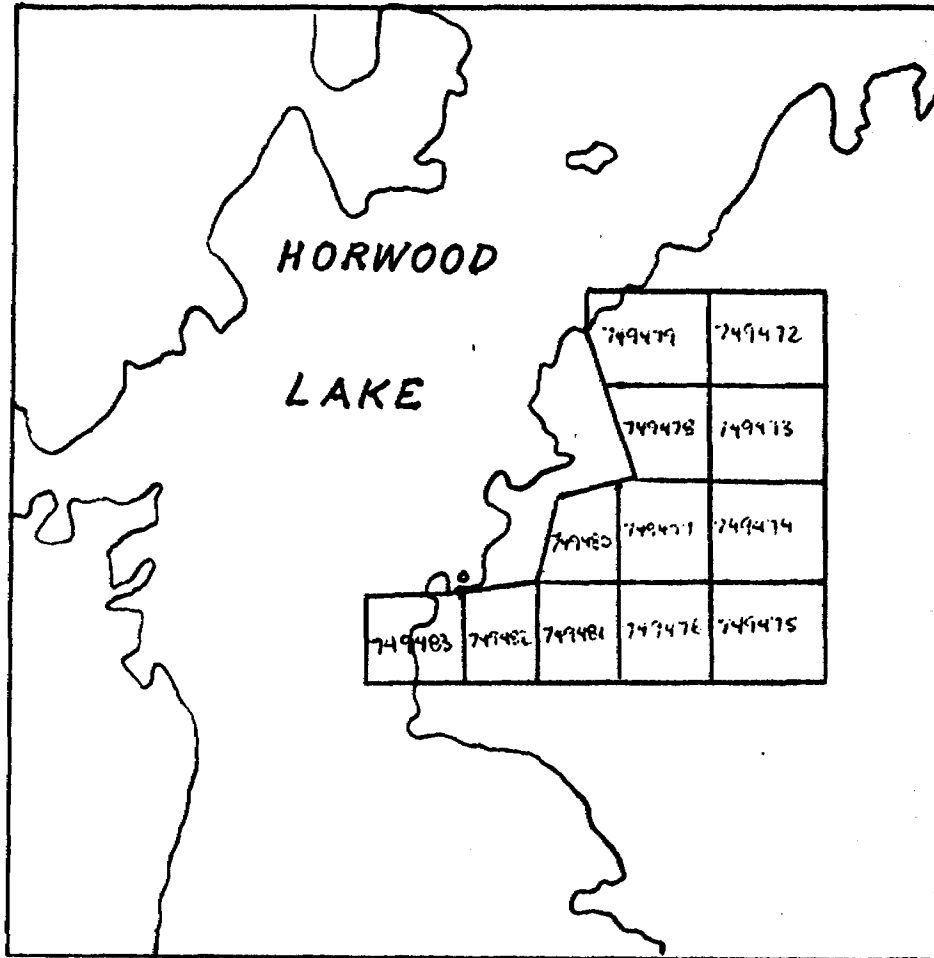


Figure 2 Claim Location Map

TOPOGRAPHY AND VEGETATION

The area covered by the subject property is generally of low relief, usually less than 50 feet. Scattered outcrop comprises approximately 10 percent of the property. Generally the outcrops are covered by light (2 to 4 inches) moss cover. Outcrop areas are interspersed with swampy areas and areas of heavier overburden. A thick forest of spruce, pine and balsam cover the property. The lower swamp areas are thick with alders.

PREVIOUS EXPLORATION

A review of the assessment work files in the Timmins Resident Geologist's office reveals that the only previous work done on the Ultrex Petroleum Limited claim group was a geological survey conducted by H.J. Logan in October, 1947.

The earliest work in the Horwood Lake area was an initial geological investigation by W.A. Parks of the Geological Survey of Canada in 1899 (Parks 1900). T.L. Tanton conducted a general geological survey in 1916 and produced the first geologic map of the Horwood Lake area (Tanton 1917). H.M. Bannerman summarized the geology and mineral occurrences in the southern part of Horwood Township (Bannerman 1930 - 1924). H.C. Laird examined the geology in the southern half of Horwood Township and evaluated several gold properties for the Ontario Department of Mines (Laird 1935). W.D. Harding conducted a geological survey of the Horwood Lake area for the Ontario Department of Mines (Harding 1937). A reconnaissance geologic mapping program conducted by the

PREVIOUS EXPLORATION cont'd

Ontario Department of Mines included the Horwood Lake area (Thurston et al. 1971). The most recent survey carried out by the Ontario Department of Mines is that of F.W. Breaks (1978).

Sporadic gold exploration in the Horwood Lake area dates back to 1909 with prospecting inspired by important gold discoveries being made during the same year in the nearby Porcupine district. Exploration programs carried out on properties in the Horwood Lake area were summarized by F.W. Breaks (1978) and are as follows:

1. Ajax Occurrence

Great Pike Lake - Hardiman Bay area, two miles east of the southeast corner of the Ultrex Petroleum claim group. A detailed geological mapping program to examine possible gold mineralization within quartz vein systems and/or shear zones.

2. J. Charlebois (Groundhog Mine)

Horwood Peninsula area, adjacent to the Ultrex Petroleum Limited claim group. The first significant gold discovery in the area recorded by Tom Jessup in 1918. In 1928 - 29, Nipissing Mining Company Limited optioned the 12-claim Jessop property and indicated the presence of a mineralized quartz vein with economic gold values. The vein was reported to be situated within a narrow northwest-trending shear zone and mineralization was traced for 96 feet along strike.

PREVIOUS EXPLORATION cont'd

2. The average grade calculated by channel sampling at intervals of 5 feet was 0.54 ounces gold/ton over a width of 1.94 feet. Two test pits were excavated on claim 9807 and the average grades are indicated below:

	<u>Grade</u> (ounces gold/ton)	<u>Width</u> (feet)	<u>Length</u> (feet)
Pit #1	7.23	1.19	9
Pit #2	0.63	3.1	16

In 1919, Spruce Falls Power and Paper Company Limited constructed a dam at the inlet of Groundhog Lake and the original showing was flooded by 15 feet of water. No further work was reported to have been done by Nipissing Mining Company Limited. In 1934, Groundhog Gold Mines Limited acquired the property and enlarged the claim group. Minimal development was carried out until 1947 - 48, when geological and geophysical surveys were followed by approximately 8,000 feet of diamond drilling. Strike of mineralization was extended to 1,000 feet, averaging 0.31 ounces gold/ton over 3.4 feet width. Results of a magnetometer survey conducted in 1948, failed to extend the mineralized zone to the southeast under overburden cover or to the northeast under the lake. The 33 claim group was reduced to 4 patented claims (59804, 59806, 59807 and 59811).

PREVIOUS EXPLORATION cont'd

3. Deburmac Occurrence

Exact location unknown, approximately two miles south of Ultrex Petroleum Limited claim group. Investigation of a narrow east to southeast trending, steeply dipping, mineralized quartz vein. Surface sampling highest assay was 0.40 ounces of gold over 3.5 feet. At least 2,778 feet of diamond drilling was carried out.

4. Donalda Mines Limited (1965)

Located in south-central Horwood Township, 3.5 miles south of Ultrex Petroleum Limited property. Combined electromagnetic-magnetometer survey with interest centred upon a southwest-trending mineralized shear zone. The geophysical survey failed to reveal any anomalous areas of possible economic potential at that time.

5. Hardiman Bay Mines Limited (1966)

Located four miles southwest of the Ultrex Petroleum Limited property. A ground magnetometer survey outlined several anomalous zones. Ten diamond drill holes totalling 2,196 feet investigated the more important anomalies. Five of these drill holes probed a gold occurrence which at surface carried minor pyrite, carbonate and gold, with the best chip sample over a width of 4 feet running 0.38 ounces gold/ton.

PREVIOUS EXPLORATION cont'd

6. Smith-Thorne Mine

Located along the eastern shore of Horwood Lake 1,500 feet south of Hardiman Bay entrance, three miles south of Ultrex Petroleum Limited property. Gold was discovered in a 30 inch wide massive quartz vein for a length of 60 feet. Channel sampling recorded 0.75 ounces gold/ton over the vein width. In 1925, Hollinger Consolidated Gold Mines optioned the property, sunk a shaft, and carried out extensive underground sampling and diamond drilling and outlined several small lenses of economically important gold mineralization:

<u>Level</u> (feet)	<u>Grade</u> (ounces gold/ton)	<u>Dimensions</u> (feet)
200	0.20	20 x 4.9
	0.25	30 x 4.2
325	----	----
570	0.85	90 x 3.5
	0.51	55 x 3.3
	0.28	79 x 2.7

Hollinger Consolidated Gold Mines drilled three deep (1,300-1,400 feet) diamond drill holes and continuity of projected gold mineralization below the 570 foot level was not established by these holes. The Hollinger option was curtailed in early 1937, because the volume of gold mineralization was insufficient to support a major mining operation.

Late in 1937, Tionaga Gold Mines Limited proceeded with development. Further deepening of the shaft to 731 feet was undertaken in February, 1938. Additional levels were established at

PREVIOUS EXPLORATION cont'd

6. 450 feet and 570 feet. During 1938 and 1939, 6653 tons of ore were processed at the mine site. Total production amounted to 2,299 ounces of gold and 494 ounces of silver.

7. Liberator Prospecting Syndicate (1946)

Located four miles south of Ultrex Petroleum Limited property. A geological survey covering a portion of a prominent northeast-trending mineralized shear zone. Extensive development was recorded by several mining companies in previous years commencing in 1933.

8. Drofino Mines Limited

Located five miles southeast of Ultrex Petroleum Limited property. Visible gold discovered in 1933 and 12 claims were staked by J. Burke and J. McIlroy. Hollinger Consolidated Gold Mines Limited optioned the property in 1935 and drilled 25 holes totalling 4,800 feet in addition to trenching and channel sampling. The option lapsed in 1938 and the claims were restaked by Mining Research Corporation and 13 new claims were added to the group. The claim group was acquired by Drofino Mines Limited in 1945. Stripping and trenching along with extensive diamond drilling established continuity of mineralization to a depth of at least 200 feet over a strike length of 700 feet. In 1948-49, a 200 square feet

LEGEND

CENOZOIC^a

QUATERNARY

● Alluvium, stream, and swamp deposits.

PLEISTOCENE

● Glacial drift, sand, gravel, boulders, and varved clay.

UNCONFORMITY

PRECAMBRIAN^b

MIDDLE TO LATE PRECAMBRIAN (PROTEROZOIC)

MAFIC INTRUSIVE ROCKS

- 9 Diabase, unsubdivided.
- 9a Olivine diabase dikes (Abitibi-type).
- 8a Quartz diabase dikes.
- 8b Porphyritic quartz diabase dikes.

INTRUSIVE CONTACT

EARLY PRECAMBRIAN (ARCHEAN)

LATE FELSIC TO INTERMEDIATE INTRUSIVE ROCKS

- 7 Unsubdivided.
- 7a Equigranular biotite granodiorite.
- 7b Porphyritic biotite granodiorite.
- 7c Porphyritic to equigranular biotite quartz monzonite.
- 7d Muscovite granodiorite.
- 7e Aplite dikes.
- 7f Xenolithic granitic rocks.
- 7g Biotite-hornblende quartz diorite.
- 7h Hornblende quartz monzonite.
- 7j Hornblende quartz monzonite.
- 7k Hornblende granodiorite.
- 7m Biotite-hornblende diorite.

INTRUSIVE CONTACT

EARLY FELSIC TO INTERMEDIATE INTRUSIVE ROCKS

- 6 Unsubdivided.
- 6a Biotite trondhjemite.
- 6b Biotite-hornblende trondhjemite.
- 6c Biotite-hornblende diorite.
- 6c Migmatite.
- 6e Quartz porphyry, feldspar porphyry, and quartz-feldspar porphyry.

INTRUSIVE CONTACT

MAFIC AND ULTRAMAFIC INTRUSIVE ROCKS

ULTRAMAFIC INTRUSIVE ROCKS

- 5a Dark green-black serpentinite.
- 5b Light blue-green serpentinite.
- 5c Talc-carbonate serpentinite.
- 5d Sheared serpentinite.

MAFIC INTRUSIVE ROCKS

- 4a Metagabbro.
- 4b Xenolithic metagabbro.
- 4c Porphyritic to equigranular diorite.
- 4d Hornblende.
- 4e Metagabbro dikes.

INTRUSIVE CONTACT

METAVOLCANICS AND METASEDIMENTS

METASEDIMENTS

- 3a Greywacke.
- 3b Conglomerate.
- 3c Chert, chert breccia.
- 3d Quartzite.
- 3e Arkose.
- 3f Slate.

FELSIC TO INTERMEDIATE METAVOLCANICS

- 2 Unsubdivided.
- 2a Tuff, lapilli-tuff.
- 2b Tuff-breccia, pyroclastic breccia.
- 2c Felsic flows.
- 2d Quartz-feldspar crystal tuffs.
- 2e Feldspar and/or quartz porphyry subvolcanic rocks.
- 2f Mirolitic subvolcanic rocks.

MAFIC TO INTERMEDIATE METAVOLCANICS

- 1 Unsubdivided.
- 1a Amygdaloidal metavolcanics.
- 1b Pillowed metavolcanics.
- 1c Crenulated metavolcanics.
- 1d Laminated (possibly mafic tuffs in part) metavolcanics.
- 1e Medium-to coarse-grained metavolcanics.
- 1g Fine-grained metavolcanics.
- 1h Mafic breccia.
- 1j Amphibolitized metavolcanics.
- 1k Massive metavolcanics.
- 1m Garnetiferous metavolcanics.
- 1n Variolitic metavolcanics.
- 1p Porphyritic andesite.
- 1q Migmatized metavolcanics.

- Ag Silver
- Asp. Arsenopyrite
- Au Gold
- Ch Chalcopyrite
- gn Galena
- mo Molybdenite
- po Pyrrholite
- py Pyrite
- q Quartz
- sp Sphalerite

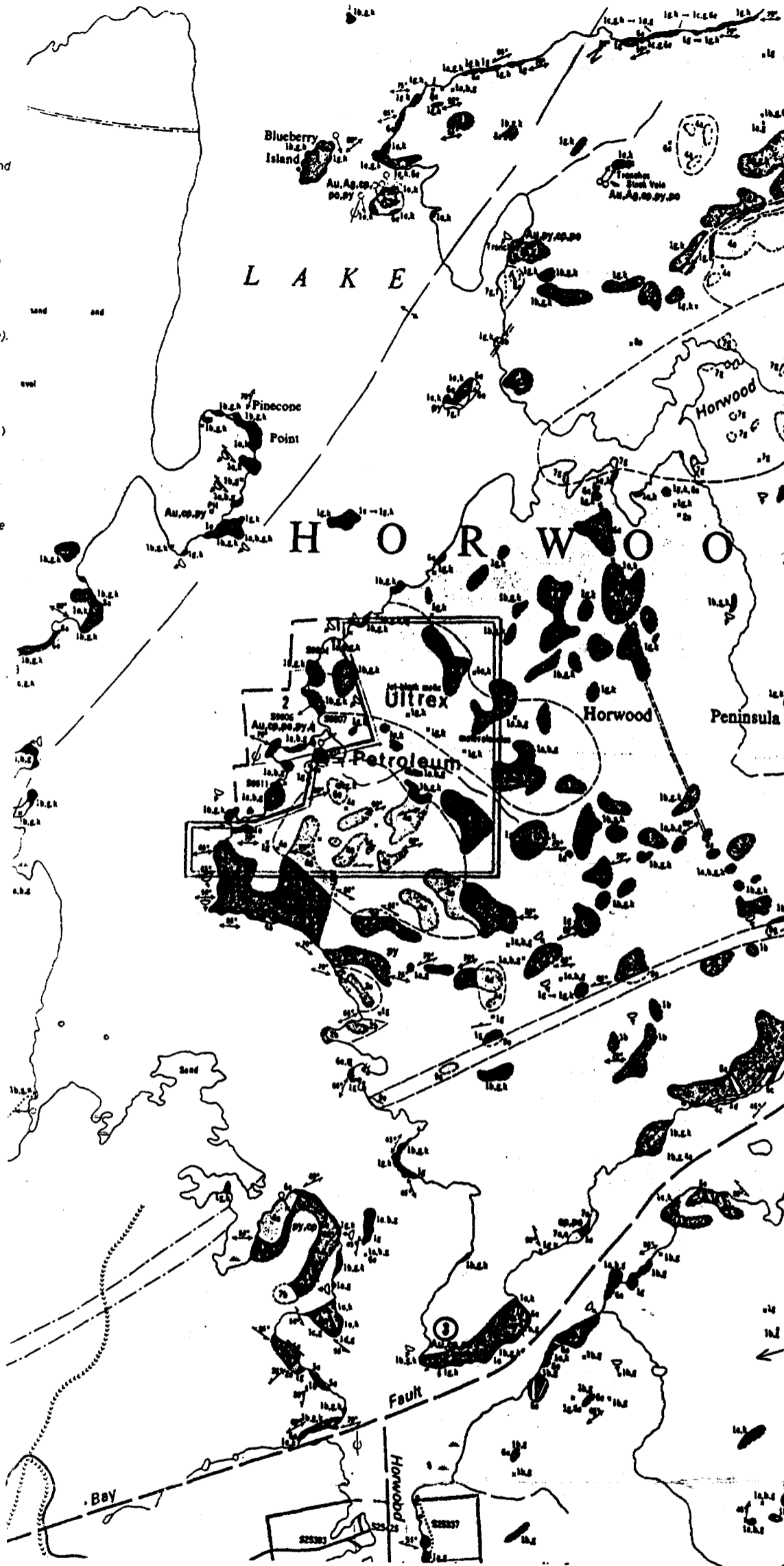


Figure #3 -- Regional Geology

PREVIOUS EXPLORATION cont'd

8. vertical shaft was excavated to a depth of 306 feet with levels at 150 feet and 275 feet. Total amount of diamond drilling recorded by Orofino Mines Limited is 21,112 feet. Ore reserves were tentatively placed at 105,000 tons averaging 0.27 ounces gold/ton. Several diamond drill holes 800 to 1,000 feet in length were drilled in 1962-63.

Other properties worked on in the Horwood Lake area failed to indicate any significant gold occurrences.

REGIONAL GEOLOGY

The following regional geology is taken from O.G.S. Report 169, Geology of the Horwood Lake Area, District of Sudbury by F.W. Breaks, published in 1978.

The Ultrex Petroleum Limited property is located within a portion of the Swayze greenstone belt in the Superior Province of the Canadian Shield. More specifically, the property lies within the generally east-west trending Archean metavolcanic, metasedimentary, metagabbroic belt. The general area, referred to as the Horwood Lake area, is situated within the Horwood Lake Sheet, Map 2329 (see enclosed portion, Figure 3), which was mapped by F.W. Breaks and associates for the Ontario Department of Mines in 1971.

The oldest rocks in the Horwood Lake area are the felsic and mafic metavolcanic sequences which contain minor interflow metasediments.

REGIONAL GEOLOGY cont'd

The felsic metavolcanics occur as scattered, generally small units and comprise approximately three percent of the metavolcanic sequence within the map area. The felsic sequence is composed of fine-grained, weakly to moderately foliated metavolcanics probably derived from dacitic to rhyolitic pyroclastic deposits, consanguinous subvolcanic intrusive rock and subordinate felsic flows. Coarse phases of the pyroclastic metavolcanics vary from lapilli-tuff to pyroclastic breccia. Spherulitic and pillowed felsic metavolcanics rarely occur. Porphyritic types and miarolitic cavities lend support to the theory that the felsic metavolcanics are early rhyodacitic subvolcanic - volcanic masses.

Mafic to intermediate metavolcanics predominate and underlie approximately 70 percent of the Horwood Lake Area. The majority of the mafic metavolcanics have been affected by greenschist facies metamorphism. The mafic metavolcanics vary from the massive varieties which display pillow and amygdaloidal structures to varieties which are moderately to intensively sheared and carbonitized.

Massive, very fine grained, pillowed, jet black mafic metavolcanics of basaltic composition occur in two areas (west boundary of Horwood Township, north of Swayze River, and east side of Horwood Lake, south of Pinecone Point) of Horwood Township.

Laminated mafic metavolcanics, characterized

REGIONAL GEOLOGY cont'd

by fine, subtle color banding occur in the Great Pike Lake area and possibly represent mafic tuffs.

Massive, medium - to coarse grained amphibolitized mafic rocks occur in the area and probably represent the coarser-textured part of mafic lava flows.

Mafic breccias occur in areas of good exposure and usually contain lapilli-size fragments. These breccias are volcanogenic in origin. Autoclastic flow - top and flow - bottom breccias are notably scarce even within excellently exposed areas of massive pillowed mafic metavolcanics.

Isolated pods of detrital metasediments occupy an insubstantial part of the Horwood Lake area. Greywacke, conglomerate, chert, quartzite, arkose and slate were the metasediment types found to occur in the area.

Many discrete equigranular to porphyritic metagabbroic plutons and rare, narrow metagabbroic dikes occur in the area. The metagabbro plutons appear to be intrusive into the mafic metavolcanic pile. The metagabbroic dikes crosscut the mafic metavolcanics.

Intrusive serpentized ultramafics occur as numerous, small, pod-shaped bodies in southeastern Horwood Township.

The earliest felsic intrusive rocks in the

REGIONAL GEOLOGY cont'd

area are syntectonic, foliated, equigranular trondhjemite, diorite and quartz, feldspar and quartz-feldspar porphyries. Biotite trondhjemite and hornblende biotite trondhjemite occur as phases of the large Hardiman Lake Pluton, whereas the porphyry rock types occur as narrow discordant to concordant sheets.

The later felsic to intermediate intrusive rocks occur as three plutonic masses named the Hoodoo Lake Pluton, Kukatush Pluton and the Horwood Peninsula Pluton. The Hoodoo Lake Pluton consists of leucocratic, medium-grained, biotite porphyritic granodiorite. The predominant granite phases of the Kukatush Pluton are hornblende and biotite-hornblende monzonite, although, local zones of biotite-hornblende diorite and hornblende quartz monzonite also occur. The Horwood Peninsula Pluton consists largely of fine to medium grained, massive, equigranular, biotite-hornblende quartz diorite with lesser portions of biotite-hornblende granodiorite. Numerous smaller less important late felsic intrusive bodies also occur in the area.

Swarms of Late Precambrian (Proterozoic) diabase dikes intrude all the aforementioned rock groups.

Three prominent faults occur in the area and include the north trending Horwood Lake Fault, north trending Hoodoo Lake Fault and the east to northeast trending Hardiman Bay Fault. Smaller north to northwest trending faults and lineations also occur in the area.

REGIONAL GEOLOGY cont'd

A macroscopic anticlinal fold is thought to occur in Horwood Township with its axial plane trace trending northeast between East Marsh Island and the northwestern shoreline of Horwood Peninsula. The fold axis is thought to deflect southwest to a more southerly direction in the southern half of Horwood Township. The only other macroscopic fold system is comprised of an east-west trending antiform and synform located just west of Great Pike Lake. It is thought that this folding has been caused by the diapiric emplacement of the Hardiman Bay Pluton (Breaks 1978).

PROPERTY GEOLOGY

The Ultrax Petroleum Limited Horwood Lake property is underlain by mafic to intermediate metavolcanics and an intrusive metagabbroic pluton, all of greenschist facies metamorphic grade. Pillowed to massive metavolcanics which are probably andesitic in composition underlay the main proportion of the property and grade into basic, basaltic, pillowed to massive metavolcanics northward. An elliptical metagabbroic pluton which seems to intrude the metavolcanics is situated in the south-central portion of the claim group. Possible auriferous (gold bearing) coarse white to translucent quartz veins, some containing 2 to 5 percent disseminated and cubic pyrite and minimal chalcopyrite occur at random on the property and appear to be infillings of epigenetic hydrothermal origin. The following is a detailed description of the rock types found on this property.

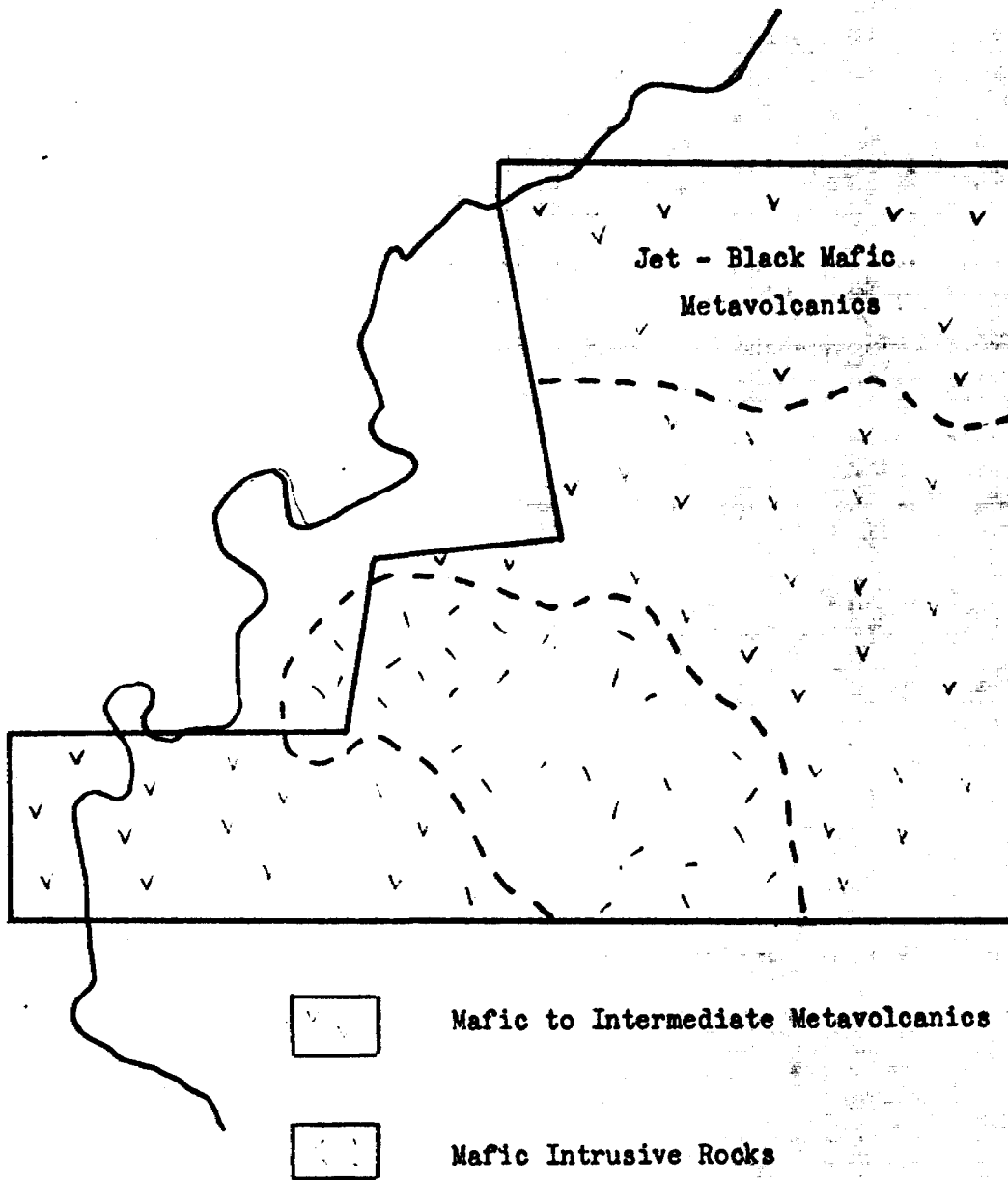


Figure 4 General Property Geology

MAFIC TO INTERMEDIATE METAVOLCANICS

The metavolcanics on the Ultrex Petroleum Limited property vary from massive fine-grained amygdaloidal, foliated and pillowed metavolcanics to massive medium-grained metavolcanics. On the northern portion of the property jet black, fine grained to aphanitic, massive to pillowed metavolcanics of basaltic composition were seen. (Breaks 1978) suggests that the jet black colour is due to a high percentage (60-70%) of fine-grained hornblende and a lesser amount (5%) of magnetite "dusts". The jet black variety may represent a small pocket of higher than average heat flow operative during regional metamorphism (Breaks 1978). Negligible quartz veins and only trace amounts (generally less than 1 percent of disseminated pyrite and pyrrhotite mineralization were seen in this rock type.

The andesitic metavolcanics are fine-to medium-grained, massive to foliated, pillowed and occasionally amygdaloidal. This rock type consists of chlorite, actinolite, albitic plagioclase, epidote and calcite. Foliation is best developed in the massive fine-grained rocks with strike orientations of 065 to 120 degrees and steep (65 to 80 degrees) northerly dips.

Pillowed metavolcanics displaying portions of chloritic pillow rims and vassicular margins are common, although distortion of the majority of the pillows created problems when trying to interpret stratigraphic tops. Generally tops seemed to be facing southwest since pointed bottoms were almost recognizable on the northeast side of the pillows. Occasionally the

MAFIC TO INTERMEDIATE METAVOLCANICS cont'd

pillowed metavolcanics are amygdaloidal displaying weathered-out lensoid pits 1/4 to 1 inch in size. J.G. Moore (1965) interprets amygdules of this size to be formed in the rocks under shallow water depths of less than 500 m (1,640 feet).

Small outcrops of massive medium grained metavolcanics occur randomly in the northeast portion of the property. No distinct contact relations were seen but these rocks probably represent the coarser grained part of the metavolcanic flows. A distinct similarity between this rock type and a slightly coarser variety mapped as metagabbro (4a) exists. The rough grey-green weathered surfaces were easily identified.

Narrow (2 to 8 inches) quartz veins and local concentrations of pyrite and pyrrhotite occur within the andesitic metavolcanics. Carbonate alteration was minimal and no sericitization was seen.

METAGABBRO INTRUSIVE

In the south-central portion of the claim group an elliptical metagabbroic pluton seems to intrude the metavolcanic unit. No distinct contacts were seen, although abrupt changes from massive medium to coarse-grained metagabbro to fine-grained pillowed metavolcanics were encountered. The metagabbro has a distinct rough "speckled" weathered surface with quartz and plagioclase crystals tending to be more resistant

METAGABRO INTRUSIVE cont'd

to weathering than the dark green hornblende and actinolite. On fresh surfaces the metagabbro is dark green and medium-grained. Generally fibrous actinolite and prismatic hornblende crystals can be seen. Lesser amounts of epidote, chlorite and calcite were also seen.

Narrow (2 to 6 inches) quartz veins generally with less than one percent disseminated and cubic pyrite and minimal chalcopyrite, and local concentrations of pyrite mineralization occur within the metagabbroic unit.

CONCLUSIONS

The metavolcanic sequence mapped on the Ultrex Petroleum Limited property represents part of a submarine volcanic pile consisting of mafic to intermediate metavolcanics. The fine-grained jet black variety which occurs on the northern part of the property may represent a small pocket of higher than average heat flow during the regional metamorphism of the general area. The metagabbroic pluton found on the southern portion of the property seems to have intruded the metavolcanic pile. Several possibly auriferous quartz veins were found on the property and samples are in the process of being assayed at the time of writing this report.

Due to the proximity to the gold prospect of Groundhog Gold Mines Limited it is possibly that other auriferous zones may be located on the Ultrex Petroleum property. It is also important to note that

CONCLUSIONS cont'd

gold mineralization occurs in sheared metagabbro on the Orofino Mines Limited property in Silk Township. Other gold and sulphide occurrences in Horwood Township are also located in proximity to metagabbroic stocks.

RECOMMENDATIONS

The Ultrex Petroleum Limited property is adjacent to the patented claims of Groundhog Gold Mines Limited on which there is a significant gold prospect. Minimal previous work has been done on the subject property. It is, therefore my general recommendation to continue exploration for auriferous quartz veins and/or possible sulphide horizons.

Specific recommendations are as follows:

1. A further detailed prospecting, stripping and sampling program is recommended to explore for possible auriferous quartz veins which may be covered by light overburden.
2. If anomalous gold values are received then trenching to obtain representative samples will be required.
3. A linecut geophysical grid with lines spaced at 400 feet intervals should be established over the entire property.
4. An electromagnetic survey should be done on the property to delineate possible sulphide zones buried beneath overburden cover.
5. A magnetometer survey would help delineate contacts that could not be found due to overburden cover.

RECOMMENDATIONS cont'd

5. The contact between the metagabbroic intrusive and the metavolcanics is a good target area. Possible concentrations of pyrrhotite mineralization would also be found using this survey.
6. If anomalous zones are obtained from the above surveys an induced polarization survey should be conducted over selected areas.
7. Diamond drilling will depend on the results of the geophysical surveys.

TABLE 1

TABLE OF FORMATIONS FOR THE HORWOOD LAKE AREA

GENOZOIC

QUATERNARY

RECENT

Lake, stream, and swamp deposits

PLEISTOCENE

Glacial drift, sand, gravel, boulders and varved clays.

UNCONFORMITY

PRECAMBRIAN

MIDDLE TO LATE PRECAMBRIAN (PROTEROZOIC)

MAFIC INTRUSIVE ROCKS

Olivine diabase dikes (Abitibi-type), quartz diabase, and porphyritic diabase dikes.

INTRUSIVE CONTACT

EARLY PRECAMBRIAN (ARCHEAN)

LATE FELSIC TO INTERMEDIATE INTRUSIVE ROCKS

Biotite granodiorite, biotite quartz monzonite, porphyritic biotite granodiorite, porphyritic biotite quartz monzonite, biotite-hornblende quartz diorite, hornblende monzonite, xenolithic granitic rocks, hornblende quartz monzonite, aplite dikes, muscovite granodiorite, hornblende granodiorite, biotite-hornblende diorite.

INTRUSIVE CONTACT

EARLY FELSIC TO INTERMEDIATE INTRUSIVE ROCKS

Biotite trondhjemite, biotite-hornblende trondhjemite, biotite-hornblende diorite, quartz porphyry, feldspar porphyry, quartz-feldspar porphyry, migmatite.

INTRUSIVE CONTACT

MAFIC AND ULTRAMAFIC INTRUSIVE ROCKS

ULTRAMAFIC INTRUSIVE ROCKS

Dark green-black serpentinite, light blue-green serpentinite, talc-carbonate serpentinite, sheared serpentinite.

MAFIC INTRUSIVE ROCKS

Metagabbro, xenolithic metagabbro, porphyritic to equigranular diorite, hornblendite, metagabbro dikes.

METAVOLCANICS AND METASEDIMENTS

METASEDIMENTS

Greywacke, conglomerate, chert, chert breccia, quartzite, arkose, slate.

TABLE 1 cont'd

FELSIC TO INTERMEDIATE METAVOLCANICS

Tuff, lapilli-tuff, tuff-breccia, pyroclastic breccia, felsic flows, quartz-feldspar crystal tuff, feldspar and/or quartz porphyry subvolcanic rocks, miarolitic subvolcanic rocks.

MAFIC TO INTERMEDIATE METAVOLCANICS

Amygdaloidal metavolcanics, pillowed metavolcanics, crenulated metavolcanics, laminated metavolcanics, medium-to coarse-grained metavolcanics, mafic breccia, amphibolitized metavolcanics, massive metavolcanics, garnetiferous metavolcanics, variolitic metavolcanics, porphyritic andesite, migmatized metavolcanics.

REFERENCES

Bannerman, H.M.

1930: Mineral Occurences in Woman River District, Ontario; Geol. Surv. Canada, Summary Report for 1929, Part C, p.1-19.

1934: Rush Lake Area, Sudbury District, Ontario; Geol. Surv. Canada, Summary Report for 1933, Part D, p; 38-82

Breaks, F.W.

1978: Geology of the Horwood Lake Area, District of Sudbury, Ontario. Geological Survey Report 169, 67p. Accompanied by Map 2329, scale 1:31,680 (1 inch ti $\frac{1}{4}$ mile).

Harding, W.D.

1937: Geology of Horwood Lake Area, Ontario. Dept. Mines, Vol.46, Pt. 2, 34p. (published 1938). Accompanied by Map 46a, scale 1 inch to 1 mile.

Laird, H.C.

1935: Horwood Lake Area; Ontario Dept. Mines, Vol. 44 Pt. 7, p. 31-37, (published 1936).

Parks, W.A.

1900: Niven's Base Line, 1899; Ontario Bur. Mines, Vol. 9, p. 125-142.

Thurston, P.C., Sirogusa, G.M. and Sage, R.P.

1971: Operation Chapleau, Horwood Lake Sheet, Districts of Algoma, Cochrane, and Sudbury; Ontario Dept. Mines and Northern Affairs, Prelim. Map P. 673 Geol. Ser., scale 1 inch to 2 miles, Geology 1970.

REFERENCES cont'd

Tenton, T.L.

- 1917: Reconnaissance along Canadian Northern Railway between Gogama and Oba, Sudbury and Algoma District; Geol. Surv. Canada, Summary Report for 1916, p. 179-182.

CERTIFICATE

1, Don Hillier of Vancouver, British Columbia, hereby certify that:

1. I hold a Bachelor of Science Degree in Geology from the University of British Columbia, having graduated in May, 1981.
2. I have practised my profession in exploration continuously since my graduation.
3. I have based conclusions and recommendations contained in this report on my knowledge of the area, previous experience and on results of field work conducted on the property during the month of May, 1984.
4. I hold no interest, directly or indirectly in this property other than professional fees, nor do I expect to receive any interest in the property.

Timmins, Ontario, Canada

Don Hillier
Don Hillier, B.Sc.
Geologist



42B01SE0080 2.7102 HORWOOD

900

1984 09 04

Your File: 239
Our File: 2.7102

Mr. Bruce Hanley
Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

We have received reports and maps for a Geological Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 749472 et al in the Township of Horwood.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-6918

A. Barr:sc

cc: Ed Korba
R.R. #1
Connaught, Ontario
PON 1A0

cc: Maurice Hibbard
Cedar Hill
Connaught, Ontario
PON 1A0



Ministry of
Natural
Resources

Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

W.R.

239/84

The Mining Act

"ULTREX"

Instructions: - Please type or print.

- If number of mining claims traversed exceeds space on this form, attach a list.

Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.

- Do not use shaded areas below.

Aug 12/84

2.7102

Type of Survey(s) GEOLOGICAL		TO HORWOOD TWP.	
Claim Holder(s) ED KORBA		Licence No. M 20807	
Address RR#1 CONNAUGHT, ONTARIO			
Survey Company MAUREX RESOURCES LIMITED		Date of Survey (from & to) 1 Day 5 Mo. 84 Yr. 20 Day 6 Mo. 84 Yr.	
Total Miles of line Cut			
Name and Address of Author (of Geo-Technical report) DON HILLIER GEN. DEL. CONNAUGHT, ONTARIO PON 1A0			

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	20
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	749472				
	749473				
	749474				
	749475				
	749476				
	749477				
	749478				
	749479				
	749480				
	749481				
	749482				
	749483				

RECEIVED
JUN 28 1984
MINING LANDS SECTION

RECORDED
JUN 13 1984
Receipt No. 20

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditures and Days Credits

Total Expenditures \$ **15**

Total Days Credits **15**

Instructions: Total Day Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

7 8 9 10 11 12 1 2 3 4 5 6

PORCUPINE MINING DIVISION
RECEIVED
JUN 13 1984
A.M. 15 P.M.

See Revised Statement

Total number of mining claims covered by this report of work. **12**

For Office Use Only

Total Days Cr. Recorded **240**

Date Recorded **June 13, 1984**

Date Approved as Recorded

Mining Recorder **[Signature]**

Branch Director **[Signature]**

Date **June 12, 1984**

Reported Holder or Agent (Signature) **[Signature]**

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
MAURICE HIBBARD

CEDAR HILL CONNAUGHT, ONT. PON 1A0

Date Certified **June 12, 1984**

Certified by (Signature) **[Signature]**

1984 11 02

Your File: 239/84
Our File: 2.7102

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

RE: Notice of Intent dated October 16, 1984
Geological Survey on Mining Claims P 749472
et al in the Township of Horwood.

The assessment work credits, as listed with the
above-mentioned Notice of Intent, have been approved
as of the above date.

Please inform the recorded holder of these mining
claims and so indicate on your records.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416) 965-4888

S. Hurst:sc

cc: Ed Korba
R.R. #1
Connaught, Ontario
P0N 1A0

cc: Maurice Hibbard
Cedar Hill
Connaught, Ontario
P0N 1A0

cc: Mr. G.H. Ferguson
] Mining & Lands Commissioner
Toronto, Ontario

cc: Resident Geologist
Timmins, Ontario

**Technical Assessment
Work Credits**

File
2.7102

Date
1984 10 16

Mining Recorder's Report of
Work No. 239/84

Recorded Holder	ED KORBA
Township or Area	HORWOOD TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ 20 _____ days	P 749472 to 482 inclusive
Geochemical _____ days	
Man days <input type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/>	
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

10 DAYS CREDIT

P 749483

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—60:



Oct 31/84

1984 10 16

Your File: 2.7102
Our File: 239/84

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

R.J. S. Hurst:mc
Encls.

cc: Ed Korba
R.R.#1
Connaught, Ontario
PON 1A0

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

cc: Maurice Hibbard
Cedar Hill
Connaught, Ontario
PON 1A0



Ministry of
Natural
Resources

Notice of Intent
for Technical Reports

1984 10 16

2.7102/239/84

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

Mining Lands Section

File No 27102

Control Sheet

TYPE OF SURVEY GEOPHYSICAL
 ✓ GEOLOGICAL
 GEOCHEMICAL
 EXPENDITURE

MINING LANDS COMMENTS:

LD . lqd .

J. Hurst
Signature of Assessor

84-09-06
Date

AUDIT NUMBER
41959



Ministry of
Natural
Resources
Mining Claim
The Mining Act

CLAIM NO.
P-749472

RECORDED IN THE NAME OF Edward J. Korba	LICENCE NO. M-20807	RECEIPT NO. 264365	DATE RECORDED September 15, 1983
ADDRESS R. R. # 1, Connaught, Ontario PON IAO			DATE AND TIME OF STAKING Aug. 25/83 at 7:00 A.M.

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS	OFFICE USE ONLY	DATE RECORDED	BALANCE	DESCRIPTION OF CLAIM
				HORWOOD TOWNSHIP
				RESERVATIONS — 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS SAND AND GRAVEL RESERVED. PEAT RESERVED.
				FILE NO. 749472

DATE	DAYS WORK	RECEIPT NO.
April 2/84		
June 13/84	20'	
(2) Assay Coupons.		
Geological.		(W.R.#239/84)

This Abstract is a copy of the entries in the
Rever's Book and is not to be considered as
assurance of the validity of the claim.

JUL 16 1984
[Signature]
Mining Recorder
PROSPECTIVE MINING DIVISION

AUDIT NUMBER

412760



Ministry of
Natural
Resources
Ontario

Mining Claim

The Mining Act

CLAIM NO.

P-749473

RECORDED IN THE NAME OF Edward J. Korba
 LICENCE NO. M-20807 RECEIPT NO. 264365 DATE RECORDED September 15, 1983

ADDRESS R. R. # 1, Connaught, Ontario P0N 1A0
 DATE AND TIME OF STAKING Aug. 25/83 at 9:00 A.M. P.T. X

OFFICE USE ONLY	DATE RECORDED	BALANCE	DESCRIPTION OF CLAIM
ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS			HORWOOD TOWNSHIP
			RESERVATIONS - 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS. SAND AND GRAVEL RESERVED. PEAT RESERVED

FILE NO.

749472

DATE	DAYS WORK	RECEIPT NO.
April 2/84		(2) Assay Coupons.
June 13/84	20'	Geological. (W.R.#239/84)

This Abstract is a copy of the copies in the Record Book and is not to be taken as assurance of the validity of the claim.

JUL 16 1984
 Mining Recorder
 FORESTRY DIVISION

AUDIT NUMBER

412961



Ministry of Natural Resources

Mining Claim

The Mining Act

CLAIM NO

P-749474

RECORDED IN THE NAME OF Edward J. Korba	LICENCE NO. M-20807	RECEIPT NO. 264365	DATE RECORDED September 15, 1983
--	------------------------	-----------------------	-------------------------------------

ADDRESS R. R. # 1, Connaught, Ontario PON IAO	DATE AND TIME OF STAKING Aug. 25/83 at 11:00 A.M.	P.T. x
--	---	-----------

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS	OFFICE USE ONLY	DAYS RECORDED	BALANCE	DESCRIPTION OF CLAIM

FILE NO

749472

DATE	DATE WORK		RECEIPT NO.
April 2/84		(2) Assay Coupons.	
June 13/84	20'	Geological.	(W.R.#239/84)

This Abstract is a copy of the entries in the Record Book and is not to be considered as assurance of the validity of the claim.

JUL 16 1984

Chandler
Mining Recorder
FORCUPNE MINING DIVISION

AUDIT NUMBER

412562



Ministry of Natural Resources

Mining Claim

The Mining Act

CLAIM NO
P-749475

RECORDED IN THE NAME OF
Edward J. Korba

LICENCE NO.
M-20807

RECEIPT NO.
264365

DATE RECORDED
September 15, 1983

ADDRESS

R. R. # 1, Connaught, Ontario PON IAO

DATE AND TIME OF STARTING
Aug. 25/83
at 1:00 P.M.

P.T.

X

ASSESSMENT WORK CREDITS
ASSIGNED TO OTHER CLAIMS

OFFICE USE ONLY

DATE RECORDED

BALANCE

DESCRIPTION OF CLAIM

HORWOOD TOWNSHIP

RESERVATIONS -- 200 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS
SAND AND GRAVEL RESERVED. PEAT RESERVED.

FILE NO
749472

DATE

DAYS WORK

RECEIPT NO.

April 2/84

(2) Assay Coupons.

June 13/84

20'

Geological.

(W.R. #239/84)

This Abstract is a copy of the entries in the Record Book and is not to be considered as assurance of the validity of the claim.

[Signature]
Mining Recorder
DEPARTMENT OF MINES DIVISION

AUDIT NUMBER
412963



Ministry of
Natural
Resources

Mining Claim

The Mining Act

CLAIM NO.
P-749476

RECORDED IN THE NAME OF
Edward J. Korba

LICENCE NO.
M-20807

RECEIPT NO.
264365

DATE RECORDED
September 15, 1983

ADDRESS
R. R. # 1, Connaught, Ontario PON IAO

DATE AND TIME OF STAKING
Aug. 25/83
at 3:00 P.M.

P.T.

x

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS	OFFICE USE ONLY	DAYS RECORDED	BALANCE	DESCRIPTION OF CLAIM

FILE NO.
749472

DATE	DAYS WORK		RECEIPT NO.
April 2/84		(2) Assay Coupons.	
June 13/84	20'	Geological. (W.R.#239/84)	

This Abstract is a copy of the entries in the
Record Book and is not to be considered as
assurance of the validity of the claim.

Stanley
MAY 16 1984
Mining Recorder
PROCURING MINING DIVISION

AUDIT NUMBER

412965



Ministry of Natural Resources

Mining Claim

The Mining Act

CLAIM NO.

P-749478

RECORDED IN THE NAME OF Edward J. Korba	LICENCE NO. M-20807	RECEIPT NO. 264365	DATE RECORDED September 15, 1983
---	-------------------------------	------------------------------	--

ADDRESS R. R. # 1, Connaught, Ontario PON IAO	DATE AND TIME OF STAKING Aug. 25/83 at 7:00 P.M.	P.T. X
---	--	------------------

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS	OFFICE USE ONLY	DATE RECORDED	BALANCE	DESCRIPTION OF CLAIM

FILE NO.
749472

DATE	DAYS WORK	DESCRIPTION	RECEIPT NO.
Sept. 22/83		Order of the Mining Recorder establishes the boundaries of this claim relative to adjoining patents. (006)	
April 2/84		(2) Assay Coupons.	
June 13/84	20	Geological. (W.R.#239/84)	

This Abstract is a copy of the entries in the Record Book and is not to be considered as assurance of the validity of the claim.

Ed Hanley
 JUL 18 1984
 Mining Recorder
 BASCOMB MINING DIVISION

AUDIT NUMBER
412968



Ministry of Natural Resources

Mining Claim

The Mining Act

CLAIM NO
P-749479

RECORDED IN THE NAME OF Edward J. Korba LICENCE NO. M-20807 RECEIPT NO. 264365 DATE RECORDED September 15, 1983

ADDRESS R. R. # 1, Connaught, Ontario PON IAO DATE AND TIME OF STAKING Aug. 26/83 at 7:00 A.M. P.T. X

Table with columns: OFFICE USE ONLY, DAYS RECORDED, BALANCE, DESCRIPTION OF CLAIM. Description: HORWOOD TOWNSHIP. RESERVATIONS - 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS. SAND AND GRAVEL RESERVED. PEAT RESERVED. FILE NO 749472

Main table with columns: DATE, DAYS WORK, DESCRIPTION, RECEIPT NO. Entries include: Sept. 22/83, April 2/84, June 13/84.

This Abstract is a copy of the entries in the Record Book and is not to be considered as assurance of the validity of the claim. [Signature] 16/84 Mining Recorder HORWOOD MINING DIVISION

AUDIT NUMBER

411 2958



Ministry of Natural Resources

Mining Claim

The Mining Act

CLAIM NO

P-749481

RECORDED IN THE NAME OF Edward J. Korba	LICENCE NO. M-20807	RECEIPT NO. 264365	DATE RECORDED September 15, 1983
--	------------------------	-----------------------	-------------------------------------

ADDRESS R. R. # 1, Connaught, Ontario PON IAO	DATE AND TIME OF STAKING Aug. 26/83 11:00 A.m.	P.T. <input checked="" type="checkbox"/>
--	--	---

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS	OFFICE USE ONLY	DAYS RECORDED	BALANCE	DESCRIPTION OF CLAIM
				RESERVATIONS — 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS. SAND AND GRAVEL RESERVED. PEAT RESERVED
				FILE NO 749472

DATE	DAYS WORK		RECEIPT NO.
Sept. 22/83		Order of the Mining Recorder establishes the boundaries of this claim relative to adjoining patents. (006)	
June 13/84	20'	Geological. (W.R.#239/84)	

This Abstract is a copy of the original in the Record Book and is not to be regarded as assurance of the validity of the claim.

APR 16 1984
E. Hanley
 Mining Recorder
 PROSPECT MINING DIVISION

AUDIT NUMBER

412969



Ministry of Natural Resources

Mining Claim

The Mining Act

CLAIM NO

P-749482

RECORDED IN THE NAME OF
Edward J. Korba

LICENCE NO.
M-20807

RECEIPT NO.
264365

DATE RECORDED
September 15, 1983

ADDRESS

R. R. # 1, Connaught, Ontario PON IAO

DATE AND TIME OF STARTING
Aug. 26/83
at 1:00 P.M.

P.T.

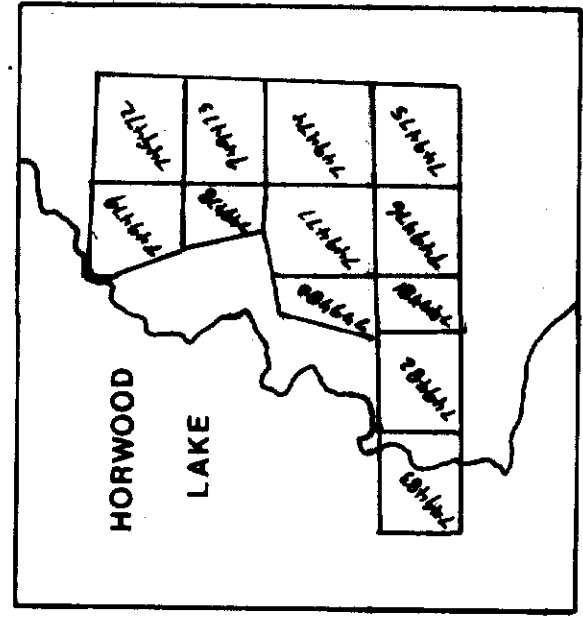
X

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS	OFFICE USE ONLY	DAYS RECORDED	BALANCE	DESCRIPTION OF CLAIM

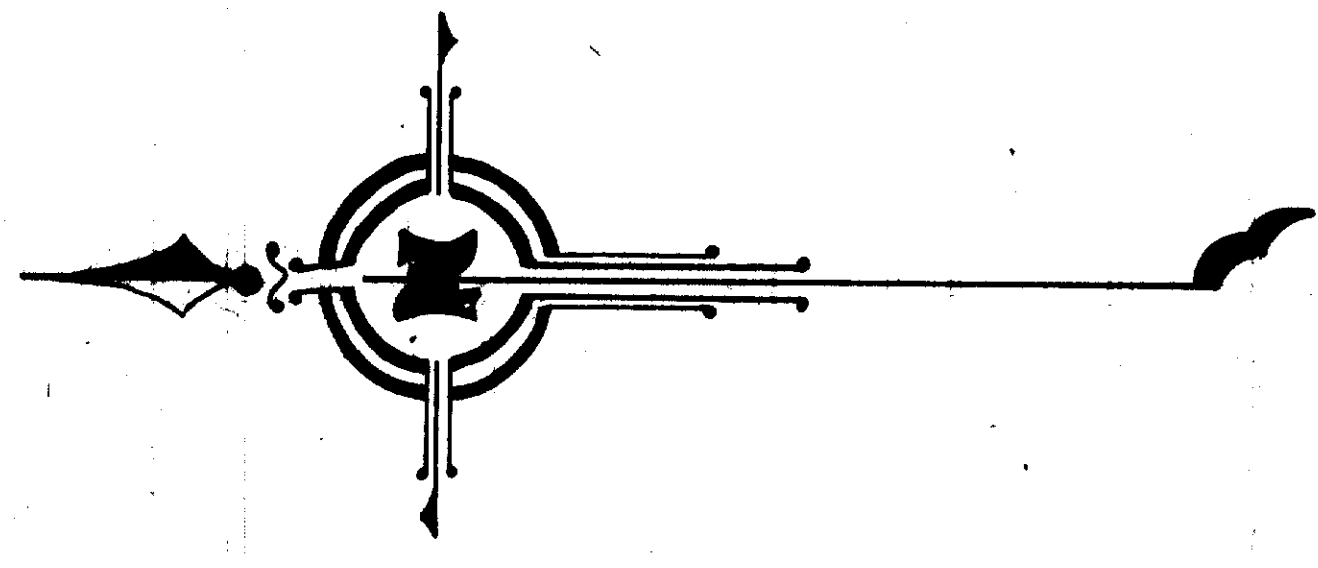
RESERVATIONS — 200 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS
SAND AND GRAVEL RESERVED PEAT RESERVED

FILE NO
749472

DATE	DAYS WORK	RECEIPT NO.
Sept. 22/83		
Order of the Mining Recorder establishes the boundaries of this claim relative to adjoining patents. (006)		
June 13/84	20	
Geological. (W.R.#239/84)		
<p>This Abstract is a copy of the entries in the Record Book and is not to be considered as assurance of the validity of the claim.</p> <p>15/16/84</p> <p><i>[Signature]</i></p> <p>Mining Recorder PORCUPINE MINING DIVISION</p>		



CLAIM INDEX MAP
1" = 1/2 mile



LEGEND

EARLY PRECAMBRIAN (ARCHEAN)

MAFIC INTRUSIVE ROCKS

4a Metagabbro

MAFIC TO INTERMEDIATE METAVOLCANICS

- 1a Amygdaloidal metavolcanics
- 1b Pillowed metavolcanics
- 1c Medium-grained metavolcanics
- 1d Fine-grained metavolcanics
- 1e Massive metavolcanics

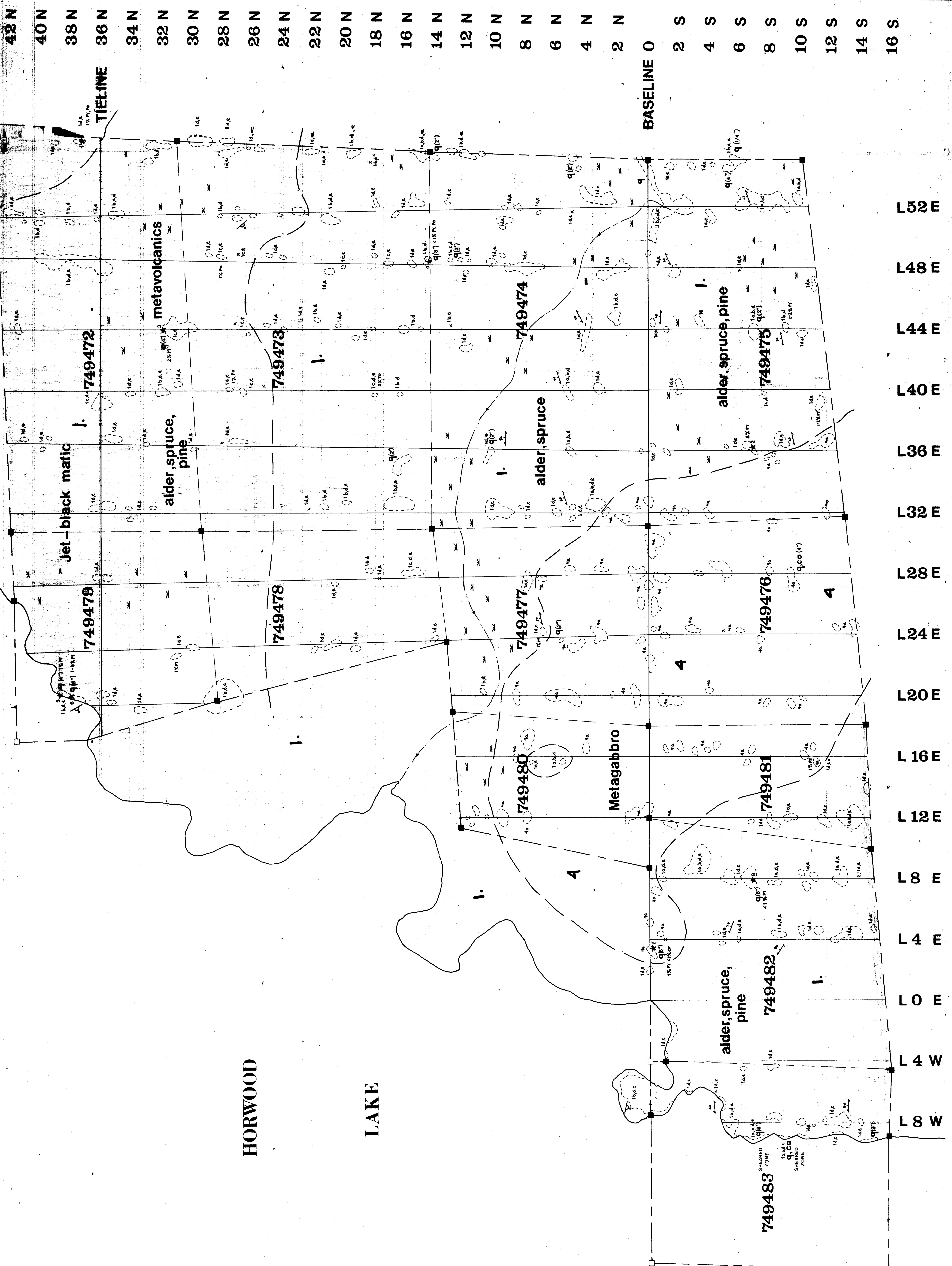
- SMALL OUTCROP
- OUTCROP
- GEOLOGICAL CONTACT
- LAVA FLOW, TOP (ARROW) FROM PILLOWS
- Q, CC QUARTZ, QUARTZ-CALCITE VENS (WIDTH)
- P, MP PYRITE, PYRRHOTITE, CHALCOPYRITE
- * 3 SAMPLE LOCATION, ASSAY NUMBER
- SWAMP
- STREAM
- LOCATED CLAIM POST
- PROPERTY BOUNDARY
- CLAIM LINES

INGAMAR EXPLORATIONS LTD.
for **ULTRIX PETROLEUM LTD.**

Title: HORWOOD LAKE PROPERTY
HORWOOD LAKE AREA
PORCUPINE MINING DIVISION

GEOLOGY fig.5

Date: JUNE 1984 Scale: 1" = 200'
N.T.S. 42B/1
Drawn: D. Hillier File: 84-31



HORWOOD

LAKE

