



42A02SW0058 2.11949 ARGYLE

010

WILZEL RESOURCES LIMITED

GEOLOGICAL REPORT

for the

MATACHEWAN WEST PROJECT

Argyle, Hincks, and Bannockburn Townships

Larder Lake Mining Division

Ontario

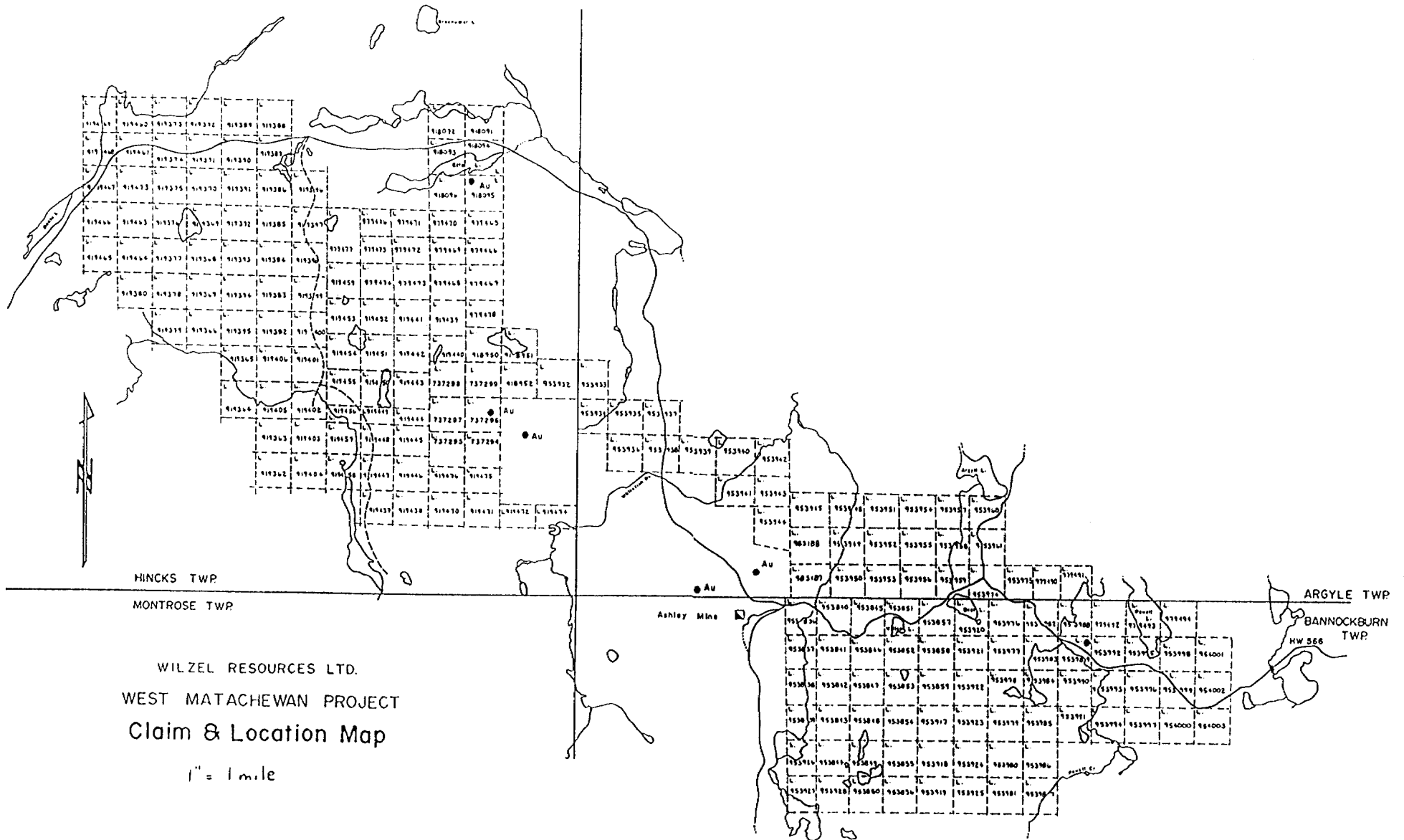
RECEIVED

DEC 16 1988

MINING LANDS SECTION

**R. A. Bennett & Associates
Sudbury, Ontario**

December 16th, 1988.

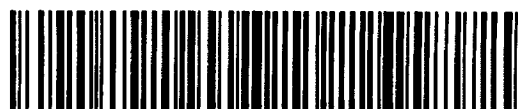


HINCKS TWP
MONTROSE TWP

ARGYLE TWP
BANNOCKBURN TWP

WILZEL RESOURCES LTD.
WEST MATACHEWAN PROJECT
Claim & Location Map

1" = 1 mile



Geological Report - Matachewan West Project, Ontario

TABLE OF CONTENTS

INTRODUCTION	1
HISTORY	2
GENERAL GEOLOGY	5
1988 EXPLORATION PROGRAM	
Gridding	6
Geological Mapping Survey	6
Geology for Map 1.	7
Geology for Map 2.	12
CONCLUSIONS and RECOMMENDATIONS	17
REFERENCES	19

LIST OF FIGURES and MAPS

Figure 1. - General Location Map	page 3.
Figure 2. - Claim Map	pocket
Map # 1. - Geology Map - West Grid, Hincks Township (1:4800)	pocket
Map # 2. - Geology Map - East Grid, Argyle & Bannockburn Twps (1:4800)	"

Geological Report - Matachewan West Project, Ontario

INTRODUCTION

Line cutting and detailed geological grid mapping was completed over most of *Wilzel Resources' Matachewan West Project*, North-eastern Ontario during the Summer and Fall, 1988.

The Property consists of 217 contiguous staked mining claims numbered:

- L. 737294 through L. 737299 inclusive ✓
- L. 918091 through L. 918096 inclusive
- L. 918950 through L. 918952 inclusive ✓
- L. 919362 through L. 919380 inclusive ✓
- L. 919382 through L. 919406 inclusive ✓
- L. 919437 through L. 919476 inclusive 919439 to 68 -75-76 ✓
- L. 953836 through L. 953859 inclusive ✓
- L. 953917 through L. 953928 inclusive ✓
- L. 953932 through L. 953961 inclusive 953945 to 61.
- L. 952974 through L. 954003 inclusive ✓
- L. 979465 through L. 979478 inclusive 979466 to 68 -70 to 78
- L. 979490 through L. 979494 inclusive ✓
- L. 983188 and L.983189 inclusive ✓

that are registered in the name of *Wilzel Resources Limited*, 300 Elm Street West, Sudbury, Ontario, P3C 1V4.

The Property is located in Hincks, Argyle, and Bannockburn Townships, Larder Lake Mining Division, approximately 12 miles west-northwest of the Village of Matachewan and 40 miles west-southwest of the Town of Kirkland Lake.

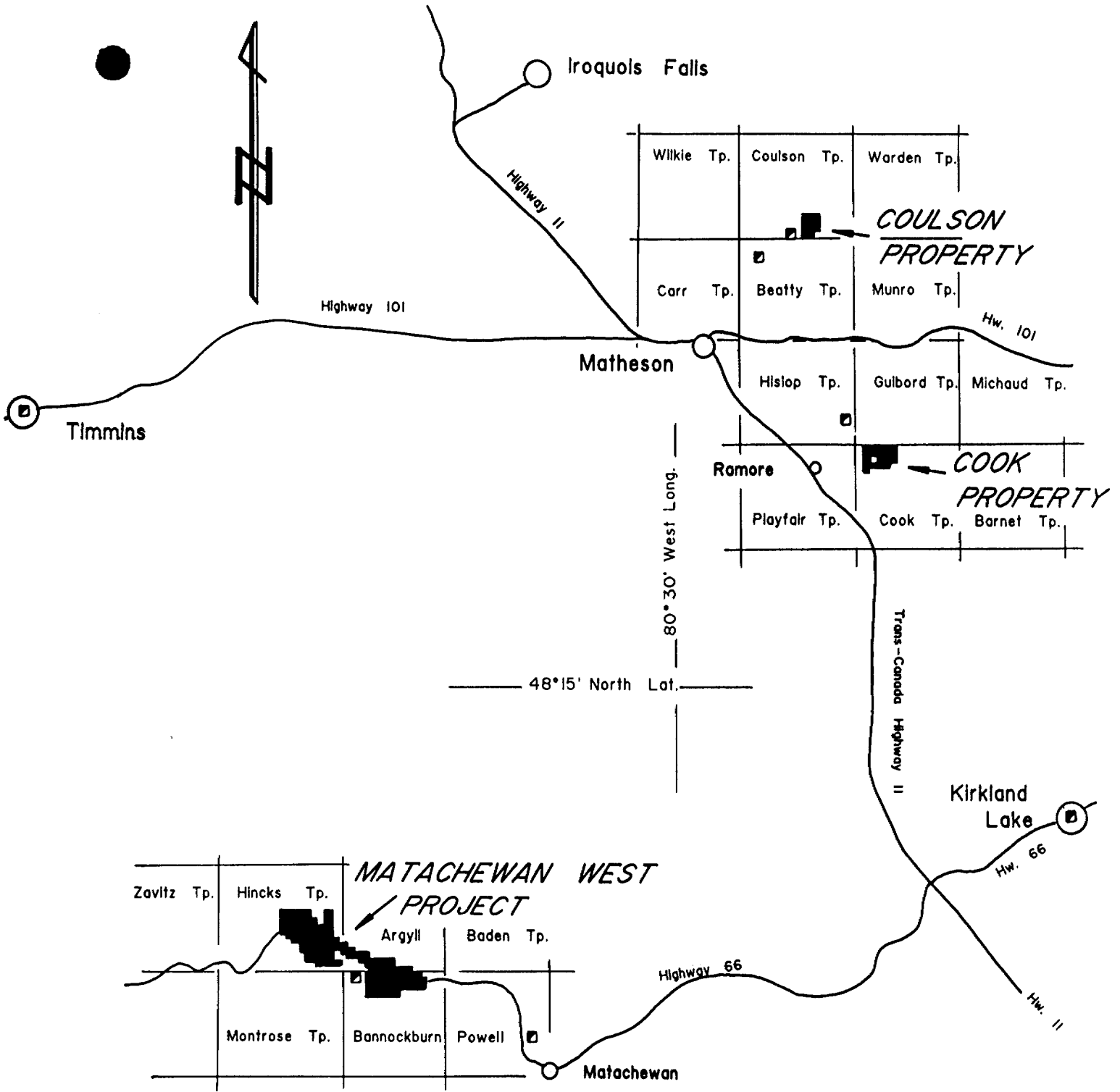
Access to the Property from Trans-Canada Highway * 11 is via Highway *66 west to Matachewan and continue west via gravel Highway *566 for 12 miles to the center of the Property. Several seasonal, gravelled,

forest access roads provide excellent access to most portions of the Property. The general location of the Property is illustrated on Figure 1, page 3, and the Claim and Location Map, Figure #2, is provided in the back pocket.

HISTORY

Prospecting in the West Matachewan Area started around 1909 as overflow from the Larder and Porcupine gold rushes, but significant gold mineralization wasn't discovered until 1930 when B. Ashley uncovered a rich gold-bearing quartz vein in northwestern Bannockburn Township. The Ashley Gold Mining Corporation Limited brought the property into production in 1932 via a 403 ft inclined shaft, an internal winze, and 6 levels (17,316 ft of development). The mine produced 50,099 troy ounces of gold and 7,644 troy ounces of silver from 157,636 tons of ore (0.32 opt Au grade) until its closing in 1936. Other, similar veins, such as the Garvey Vein were discovered and prospected near the Ashley Vein, but none have been mined. The Ashley Property has seen several 'episodes' of exploration since its closure. The most recent was by Petromet Resources Limited (1981 - 83) when geology and geophysical surveys, trenching, and limited diamond drilling were completed. More work has been recommended and is planned at the Ashley in the near future (personal communication, 1987, H. Tremblay, MPH Ltd.).

Wilzel Resources' Matachewan West Property has seen only very limited work by past explorers. Near Erza Lake in Hincks Township, McCollum Gold Mines (1931) discovered two large quartz veins associated with granitic rocks. One vein (in present claim L.918095) strikes southerly for at least 600 feet and returned two grab samples assaying \$25.00 and \$8.20. The north vein (in present claim L.918092) strikes northwest for at least 150 ft and assayed only trace gold. This same area was further explored by Prestige Mines in 1973 who completed geological mapping and drilled 3 short holes into the south vein. The best assay returned



WILZEL RESOURCES LIMITED
Property Location Map



FIGURE I.

0.02 oz/ton over 2.5 ft in drill core. In 1984, Marjel Resources re-mapped and sampled the Erza Lake South Showing and most of the vein samples returned significant assays (0.05 to 1.23 troy oz/ton gold).

Other exploration work over the Hincks claims include a small ground magnetic and electromagnetic survey by Imperial Oil around 1978; an airborne magnetic and electromagnetic survey by Canamax Resources in 1985; a ground VLF-EM survey and limited trenching by T. Obradovich in 1984 and 1985 (present claims L.737294 - 99); and, scattered pitting, trenching, and prospecting by George Sunisloe between 1965 and 1981.

In Bannockburn Township, the only exploration work of record on the present Property is a VLF-EM survey over a 400 ft line-spaced grid by Marjel Resources in 1984 - 85. Past exploration on *Wilzel's* Argyle Township claims included magnetometer, electromagnetic, and geological surveys completed by Petromet Resources as part of their Ashley exploration program in 1982, an electromagnetic survey over 4 claims by H. D. Carlson, and the continuation of the Bannockburn VLF-EM survey by Marjel Resources. Several overgrown pits and trenches were found during prospecting, but no record of this work could be found in the assessment files.

In 1987, *WILZEL RESOURCES* completed airborne magnetic and electromagnetic surveys over their entire claim group, gridding and prospecting, stripping and trenching on their west grid (Hincks Township claims), and drilled 5 diamond drill holes for a total of 1,902 feet. The prospecting survey on the west grid located 6 new gold showings within the claim group. The trenching and sampling over three old gold showings returned many 'ore quality' assays. Four of the diamond drill holes tested the old Sunisloe showing for gold; while the other hole sectioned part of the large layered gabbroic sill in Bannockburn Township for PGM's.

GENERAL GEOLOGY

WILZEL RESOURCES' **Matachewan West** claims are located within the Abitibi Greenstone Belt in the Superior Province of the Canadian Shield. The belt is approximately 800 by 250 kilometers in dimension and hosts a large number of world-class gold camps; namely, the Porcupine, the Kirkland Lake-Larder Lake, the Cadillac-Malartic-Val d'Or, and the Chibougamau Camps. The supracrustal lithologies within the Abitibi are dominated by various volcanic formations and their derived sediments which have been folded and intruded by batholiths of granitic composition. The lavas are predominantly tholeiitic basalts with lesser komatiitic tholeiites, calc-alkaline andesites to rhyolites, and rare alkalis. Syn-volcanic intrusives include peridotite and gabbro to syenite and felsic porphyry. The sediments are mostly locally derived clastics that can contain cherty exhalites, iron formation, and carbonate beds. The volcano-sedimentary succession can be divided stratigraphically and lithochemically into four mega-cycles. The Matachewan West claims likely occur near the middle of the third mega-cycle in volcanics equivalent to the Kinojevis Group.

The general geology of the Hincks, Argyle, and Bannockburn Township Area is described by H. C. Rickaby in the Ontario Department of Mines Annual Report Volume XLI, Part II published in 1932 - "Bannockburn Gold Area" and illustrated on ODM Map No. 41a. Rickaby describes the Property area to be underlain for the most part by Archean (Keewatin) mafic volcanic flows that have been intruded by Algomian granitic plugs and porphyries, Haileyburian mafic and ultramafic bodies, and cut by north-trending Matachewan quartz diabase dykes. Unconformably overlying this sequence are 'fingers' of Proterozoic (Huronian) Cobalt conglomerates. The mafic lavas are steeply dipping and strike northwest.

EXPLORATION PROGRAM

Gridding

EAST GRID - A grid of chainsaw-cut picket lines totalling 69.52 miles (112 kilometers) and 6 miles of base and tie-lines (9.7 kilometers) was cut to cover all the claims in the eastern claim group between September 6th and October 7th, 1988. The job was contracted to Laforest-Hlava Explorations Limited of Timmins, Ontario. The baseline strikes due east-west through the center of the claim group, and an east-west tie-line was cut along the old surveyed boundary between Argyll and Bannockburn Townships. The picket lines are perpendicular to the baseline and spaced at 400 ft intervals. Pickets were chained and set every 100 feet along all the cut lines.

WEST GRID - The western (Hincks) grid was chainsaw cut during the Summer and Fall of 1987 by contractor/pro prospector T. Obradovich of Kirkland Lake, Ontario. The 3.6 mile (5.8 km) baseline strikes at 125°/305° azimuth through the center of the Hincks group. A total of 72.1 miles (116 km) of picket lines spaced at 400 ft intervals were cut perpendicular to the baseline. Again, the pickets were chained and set every 100 feet along all the cut lines.

The extent of the gridding is illustrated on two Geological Maps that accompany this report.

Geological Mapping Program

Detailed geological and topographical mapping of all the claims covered by the two grids was completed between August 24th and November 4th, 1988 by the author and:

- Ron Burke, MSc. of Timmins, Ontario (field party chief)
- John Burton, BSc. of Timmins, Ontario
- Greg Carter, BSc. of Timmins, Ontario
- Toby Hughes, BSc. of Matheson, Ontario
- Ian Ross, Geo Tech. of Sudbury, Ontario
- Tom Obradovich, Mining Tech. of Kirkland Lake, Ontario.

The grid lines were used for mapping control, but in areas of outcrop, many pace and compass traverses were made in-between to ensure all the the outcrops were charted. A representative suite of rock specimens (totalling 933 in all) was collected from most of the bedrock exposures. These samples are stored at the author's offices in Matheson, Ontario. Each specimen was closely examined with the aid of a binocular microscope. All the suite sample locations and some of the assay sample locations are indicated on the two geology maps that accompany this report.

The field data has been presented in the form of two geology maps drafted at 1 inch = 400 ft (1:4800) scale; one map covers the cut grid in Hincks Township (Map 1), while the other covers the east grid in Argyll and Bannockburn Townships (Map 2). Geological contacts in overburden covered areas of the grids, and structural disruptions were interpreted with the aid of the aeromagnetic survey maps. Most of the description that follows was prepared by Ron Burke, MSc., who acted as the field party chief during the mapping program.

Geology for Map 1.

As shown on Map 1, back pocket, the western half of the Matachewan West Property is predominantly underlain by a sequence of mafic to intermediate flows which have been folded into a steeply dipping, southeasterly striking orientation. Intermediate pyroclastic rocks and less abundant flows lie north, and stratigraphically above the mafic lavas. A brief hiatus in the Archean volcanism is represented by a thin unit of interbedded chert and clastic sedimentary rock which lies at the contact between the mafic and intermediate volcanics.

A number of narrow dikes of intermediate to felsic composition commonly with feldspar porphyritic textures, intrude the volcanic rocks. Regionally, dikes of similar composition and appearance are spatially associated with occurrences of gold mineralization (Ashley Mine). In the northwest corner of the Map 1 area, the claims are underlain by a body of pinkish coloured syenitic to monzonitic rock with minor mafic phases found locally along the intrusive margin. The supracrustal rocks are also intruded by a number of northerly trending Proterozoic diabase dikes (Matachewan swarm). Finally, the youngest rocks observed consist of Huronian clastic

sediments that unconformably overly the volcanics along the western boundary of the Property.

Unit 1. - MAFIC VOLCANIC ROCKS

The considerable majority of mafic volcanic exposures shown on Map 1, consist of dark green, fine grained, massive rock of andesitic to basaltic composition. A prominent southwest-facing bluff located 800 to 1200 feet north of the baseline (and Bob's Lake) gives extensive exposure of this rock. Outcrops with pillow structures are common and widespread. Pillows are irregular in shape, defined by chloritic selvages, and locally are epidote-rich in their cores. Pillow structure symbols are indicated on the map where flow top directions could be established.

Flow top breccias or hyaloclastites were observed at a number of locations in the Map 1 area. In particular, there are two units of flow breccia with traceable strike lengths, one is located between lines 60+00W and 76+00W at about 9+00N, while the other zone occurs between lines 40+00E and 60+00E at about 5+00S.

Within the sequence of predominantly fine-grained mafic flows there are numerous exposures of massive, medium-grained mafic rock which are intrusive in appearance but may alternatively represent coarser grained portions of thick flows.

Unit 2. - INTERMEDIATE VOLCANIC ROCKS

Dacitic to andesitic flows and pyroclastic rocks underlie the north-central part of the Map 1 grid area, whereas flow rocks predominate along strike to the west. North of the main road to Matachewan, between lines 64+00W and 92+00W, there are numerous outcrops of light green, massive flow rock which are uniformly fine grained or porphyritic with either feldspar or mafic phenocrysts.

North of the basaltic lava sequence and southwest of Ezra Lake, massive intermediate flows are intercalated with units of fragmental

volcanic rock interpreted to be pyroclastic in origin. This rock typically consists of coarse feldspar crystal fragments surrounding lapilli and rarely bomb-sized clasts of fine-grained and porphyritic dacite which comprise up to 20 percent of the rock by volume. Fine-grained and thinly layered tuffaceous rock was observed only rarely.

Within the sequence of dacitic extrusive rocks on the north-central part of the grid there are two units of massive, medium-grained dioritic rock which are interpreted as sill-like bodies of synvolcanic intrusive rock.

Unit 4. - SEDIMENTARY ROCKS

The only exposure of Archean sedimentary rocks observed in the Map 1 area is located on line 40+00W at 26+00N. The outcrop consists of interbedded argillite, fine-grained wacke and chert layers which are up to 2 inches thick. This unit likely is a distal expression of the continuous pyroclastic band further to the east (2g). Much younger Huronian argillite, wacke and conglomerate are exposed only at the western end of the Property along line 120+00W (Unit 9). These rocks can be readily distinguished from the Archean sedimentary rocks by their shallow inclinations.

Unit 6. - MAFIC INTRUSIVE ROCKS

Massive, dioritic to gabbroic rocks form a marginal phase of the intrusive body located in the northwestern corner of the Property in Hincks Township. It is possible that these rocks represent mafic differentiates of the same magma source which gave rise to the syenitic to monzonitic body.

Exposures of medium-grained mafic rock are common and widespread within the sequence of mafic lavas. However, rather than being intrusive, it is quite plausible that most of these rocks represent the cores of thick flows which crystallized at slower rates than the marginal zones, giving rise to the relatively coarse grain size.

Unit 7. - INTERMEDIATE TO FELSIC INTRUSIVE ROCKS

A granitoid body has been mapped at the northwest end of the grid covering the Map 1 area (grid lines 96+00W to 116+00W). Generally massive and medium to coarse-grained, the pink to purplish coloured rock is composed of varying proportions of plagioclase, potassium feldspar, hornblende, biotite and quartz, with bulk compositions probably ranging from syenite to monzonite.

Feldspar porphyry dikes were observed intruding the intermediate pyroclastics and flows north of the Matachewan road at the west end of Map 1 grid as well as on lines 4+00E and 8+00E north of the baseline. The dikes tend to be less than 2 meters wide and appear to strike east-northeast. Typical porphyry rock consists of well formed, white to pinkish feldspar phenocrysts which are hosted by a dark grey, fine-grained matrix and constitute 25 to 50 percent of the total composition. At grid station 76+00W/37+00N, feldspar porphyry rock is exposed in a small overgrown pit within bleached and weakly pyritic volcanic rock. The exposures of feldspar porphyry are of interest because they host, or are at least, spatially related to gold-bearing quartz veins in the region, specifically at the McGill occurrence (Manville Canada Inc.) located immediately east of the Map 1 area, and the old Ashley Mine, 1.5 km to the southeast.

Unit 8. - LATE MAFIC INTRUSIVES (Matachewan Diabase)

Four northerly striking, Matachewan diabase dike of Proterozoic age has been identified crossing the Map 1 area. Other outcrops of diabase have been observed in the map area, however, additional dike structures could not be traced out in the field, nor on the aeromagnetics contour map for the area in question.

Map 1. - STRUCTURE

Mapping indicates that the volcanic sequence underlying most of the Property in Hincks Township has been folded into a nearly vertically

dipping, 120°-125° striking orientation. The major contact between mafic and intermediate extrusives is interpreted to be gently undulating with only minor disruption along cross-structures (interpreted from the aeromag). Based on well defined pillow structures and grain size grading in dacitic tuff, it is suggested that the volcanic stratigraphy is northeast-facing.

The rocks in the area of Map 1 are almost invariably massive, which is to say that there is very little evidence of ductile deformation on the western portion of the Property. Two exposures of weakly foliated rock, which also happen to show the effects of hydrothermal alteration, are located at 76+00W/37+00N and 20+00E/26+00N. In both cases, the foliated rocks lie within a few hundred feet of the major mafic/intermediate volcanic contact.

Map 1. - ALTERATION AND MINERALIZATION

Three previously discovered gold occurrences are located on the claim group in Hincks Township. These showings are described in some detail in the report by Bennett (1988, p. 32-37) and will be mentioned only briefly here. The Sunisloe Gold Showing occurs at 61+00S on the baseline and consists of a series of white, vuggy quartz veins, 1 to 6 inches wide, which cut fine-grained basaltic lava. Two broadly parallel veins striking at 105° and dipping about 30° southwards contain visible gold in addition to pyrite and minor amounts of base metal sulfides. Sampling of these veins has yielded high grade gold assays (0.78 to 2.83 oz/ton) across narrow widths. The other two old gold showings occur in the vicinity of Ezra Lake just northeast of the area covered by Map 1 and consist of single, narrow quartz veins cutting pink granitic rocks. 'Ore quality' gold assays have been returned from these showings as well.

Late in the 1987 field season, the gridded portion of the Property in Hincks Township was prospected and a comprehensive sampling of the outcrops was done. A result of this work was the discovery of a previously unknown, narrow, gold-bearing quartz vein at 44+00E/4+50S. A grab sample of this vein assayed 0.29 oz gold/ton. The recent mapping program found the vein to be approximately one inch wide, hosted by massive, fine-grained, unaltered basalt, very similar to the rock hosting the Sunisloe veins. The

prospecting/sampling program also identified a narrow auriferous quartz vein in weakly pyritic basalt at 3+90E/18+70N which gave samples assaying up to 0.024 oz gold/ton.

In addition to the gold-bearing quartz veins described above, there are two zones of hydrothermal alteration in the Map 1 area which were identified by the recent mapping. At 76+00W/37+00N dacitic flow rock containing mafic phenocrysts is weakly foliated and has been chemically altered such that the rock has been bleached to a buff colour with the mafic mineral clots replaced by bright green chromium sericite (fuchsite). The altered rock contains about 5 percent disseminated pyrite and appears to have undergone potassium enrichment and possibly some silicification. At least 9 samples have been collected from the zone, but none of these gave anomalous gold values upon assaying.

The second alteration zone unrelated to known auriferous quartz veins is located at 20+00E/26+00N. Here, yellowish grey, fine-grained, sericitic rock containing finely disseminated pyrite forms a low, north-facing bluff. The most sericite-rich rock resembles altered rhyodacite and grades laterally over about 70 feet into foliated and thinly laminated intermediate flow rock. The outline of this alteration zone suggests it transects the strike of the volcanics and may possibly be reflecting some type of volcanic vent structure. Five samples of altered rock were assayed, but no anomalous gold values were obtained.

Geology for Map 2.

As previously indicated, the Map 2 area encompasses the gridded portion of the Matachewan West Property located in Argyle and Bannockburn Townships. The majority of this area is again underlain by a thick sequence of mafic lavas which strike in an east-southeasterly direction. These flows, based on available aeromagnetics data, are in all probability the same series

of flows which were mapped to the northwest in Hincks Township. As shown to the northwest (Map 1), the sequence of mafic flows is overlain to the northeast by magnetically unresponsive intermediate extrusive rocks. A small boss of granitic to syenitic intrusive rock has been mapped west of Powell Lake, while an ultramafic body has intruded the supracrustal rocks a mile further to the west. A long, narrow sheet of Huronian sedimentary rocks extends north-south across the map area, unconformably overlying the Archean volcanics and the central portion of the ultramafic body.

Unit 1. - MAFIC VOLCANIC ROCKS

The mafic volcanic rocks exposed in the Map 2 area are very similar in appearance to the stratigraphically correlateable lava rocks shown on Map 1. Typical mafic flow rock is dark green, massive and fine to medium grained. Mineral components, primarily actinolite and plagioclase, are consistent with greenschist facies metamorphism. Trace to minor amounts of disseminated pyrite are commonly present, and locally the rock is moderately to strongly magnetic in hand samples due to finely disseminated magnetite. Fractures in the rock are typically coated with epidote and hematite-stained carbonate.

Exposures of pillow structures are widespread in the Map 2 area, but are most common on the southeastern part of the grid. There are also sporadic occurrences of amygdaloidal and variolitic flows, while exposures of flow top breccia are quite sparse.

Unit 2. - INTERMEDIATE VOLCANIC ROCKS

Volcanic rocks confidently identified as intermediate in composition (dacite-andesite) were mapped across the northern part of the grid, with the best exposures located approximately 2000 feet west of Powell Lake. The contact between the mafic and intermediate volcanic sequences is not exposed; however, it is well defined by aeromagnetics data. From the limited number of exposures it appears that the intermediate

volcanic series consists of interdigitating flows, volcanoclastic sediments and pyroclastics.

Unit 5. - MAFIC TO ULTRAMAFIC INTRUSIVE ROCKS

The most prominent basic intrusion on the Matachewan West Property is located at the northwestern end of the Map 2 grid. The intrusive body is roughly 7800 feet long in the NW-SE direction and 2000 feet wide, and is broadly centered on the major mafic/intermediate volcanic contact. An 800 foot diamond drill hole collared near the turn-off to Camp Tru-Nor in claim L. 953974 in Argyle Township tested this intrusion for concentrations of platinum group elements (Bennett, 1988). Rock cored by this drill hole included coarse-grained gabbro, pyroxenitic gabbro, serpentinized pyroxenite and peridotitic pyroxenite. Another, smaller mafic intrusive is interpreted from the aeromagnetic survey to underlay the eastern edge of the grid.

Unit 7. - FELSIC INTRUSIVE ROCKS

A small body of pinkish coloured, massive, medium-grained felsic intrusive rock is exposed just west and south of Powell Lake and on line 8W along the Camp Tru-Nor road. Depending on the abundance of potassium feldspar, this intrusive can be classified as a granite or a syenite.

Unit 8. - MATACHEWAN DIABASE

A few outcrops of quartz diabase were mapped near the west side of the grid area. This dyke strikes near north-south and is readily recognizable on the aeromagnetic map.

Unit 9. - SEDIMENTARY ROCKS

The only sedimentary rocks observed in the Map 2 area are Huronian (Proterozoic) in age. Shallow dipping polymictic conglomerate and arkosic wacke unconformably overlie the volcanic sequences as well as the mafic/ultramafic body.

Map 2. - STRUCTURE

Based on the magnetically defined mafic/intermediate volcanic contact, the archean supracrustal rocks strike at approximately 120 degrees. By and large, the rocks identified in the Map 2 area are massive and essentially undeformed. In the southeast corner of the Map 2 area is the major contact between the sequence of mafic flows and the overlying intermediate flows and pyroclastics to the north. Individual flows are magnetically defined within the mafic sequence, with the most northerly flows being strongly magnetic and up to 1300 feet thick. The pattern of alternating magnetic and weakly to non-magnetic flows which is revealed by the airborne survey is characteristic of Kenojevis Group volcanic sequences. Other rock units which are detected by the magnetic survey are the Matachewan diabase dikes, in particular the major dike which transects the central part of the Map 1 area and the other in the western part of the Map 2.

Features on the contoured aeromagnetics map which could be interpreted as reflecting gold-associated hydrothermal alteration or mineralization-controlling structures are not apparent within the Map 2 area. A number of outcrops of mafic lava have moderately to well developed foliations and show varying degrees of chlorite-calcite-ankerite alteration. Two foliation orientations have been mapped, one which broadly parallels the regional lithostratigraphic trend and a second one which strikes at about 070 degrees. However, the widely scattered outcrops of foliated rock could not be readily correlated to establish the existence of a distinct high strain (shear) zone.

MAP 2. - ALTERATION AND MINERALIZATION

The chlorite-carbonate replacement associated with moderate foliation development in the southeast corner of the Map 2 area represents a weak and poorly defined alteration zone. More significant in terms of economic geology is the presence of three overgrown trenches which were likely excavated by prospectors in the 1930's.

One trench is located at about 84+75W/63+00N and appears to follow ankeritized mafic lava rock containing a few percent disseminated pyrite. A narrow quartz vein was likely the source of the alteration; however, owing to the amount of debris in the trench, no vein material was found.

Another shallow trench lies about 400 feet north of the Matachewan road on line 60+00W. From loose rubble lying along the trench, it appears the target of the work was a 10 to 15 inch wide quartz-iron carbonate vein which is hosted by highly bleached (carbonatized \pm silicified) mafic volcanic rock which grades outwards from the vein into chlorite-iron carbonate schist and then quickly into unaltered mafic lava. Samples of the altered wall rock failed to yield anomalous gold assay values.

The third and most interesting mineral showing in the Map 2 area is in a 10 ft. x 4 ft. x 3 ft. pit located at 44+00E/10+00N. Here a 5 inch wide zone of quartz vein and granitized rock striking at 080 degrees and dipping nearly vertical is hosted by fine-grained mafic flow rock. At the margins of the vein and altered rock there is about one half to one inch of nearly massive pyrite mineralization. Judging from the amount of work done at this site, the vein and related sulfide mineralization likely contains appreciable amounts of gold. Two samples of mineralized rock collected during the recent mapping yielded gold contents of 926 and 196 ppb.

CONCLUSIONS and RECOMMENDATIONS

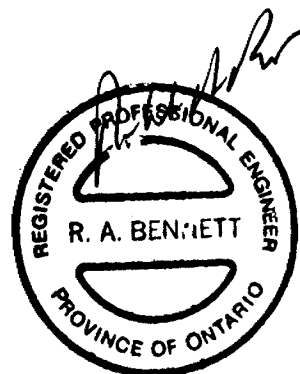
Based on the recent geological mapping, the following interpretations and conclusions are made:

1. The two large claim blocks of the Matachewan West Property which are covered by cut grids are essentially underlain by the same southeasterly striking sequence of Archean volcanic rocks. Thick, massive and pillowed basaltic flows can be distinguished by their magnetic susceptibilities, such that the overall mafic sequence consists of highly magnetic flows alternating with weakly to moderately magnetic units; a feature which is typical of Kenojevis Group mafic sequences in the Abitibi Greenstone Belt. Overlying the mafic flows to the northeast are andesitic to dacitic flows and pyroclastic units. Locally, thin accumulations of fine-grained sedimentary rocks separate the two volcanic sequences.
2. Three small granitic to syenitic bodies occur along the northern boundary of the Property and intrude the intermediate volcanic rocks. A line connecting these intrusions would be aligned roughly parallel to the regional strike of the supracrustal rocks, suggesting that their locations may be controlled by a deep-seated, NW-SE trending structure. Quartz veins hosted by the felsic body at Ezra Lake locally contain gold.
3. The intrusion of the bodies of layered mafic/ultramafic rock mapped on the Property may have been controlled to some extent by the regional contact between mafic and intermediate volcanic rocks which would theoretically be a major structural discontinuity in the volcanic pile.
4. The vast majority of the rocks exposed on the Property show very little or no foliation development, suggesting that if any high strain deformation zones exist, they are covered by overburden. Examination of the contoured aeromagnetics maps covering the Property shows the lavas to be locally disrupted. These areas could be important loci for mineralization localization.

It is postulated that the mafic/intermediate contact could have been an ancient shear or fault zone because of the structural competency contrast that exists between the two volcanic sequences. In addition, along this contact there is the presence of fine-grained sedimentary rocks which are structurally susceptible to shearing.

5. Economic concentrations of gold on the Matachewan West Property have so far been confined to quartz veins up to several inches wide hosted by massive, fine-grained basaltic rocks. High grade values, those greater than 0.5 oz/ton gold have been collected at the Sunisloe and Erza Lake South occurrences in Hincks Township. Of the 287 rock samples collected from bedrock exposures distributed across the Property during 1988, only two samples yielded anomalous gold concentrations (926 and 196 ppb), both of which were collected from an old pit in Bannockburn Township which was excavated on a narrow quartz-pyrite vein.

The results of the 1988 geological mapping program will be used to help plan the next stage of exploration on the Matachewan West Property. It is recommended that this work should include detailed prospecting in the showing areas and all the other potentially significant targets discussed in the foregoing. Special attention should be made to structural zones that cross-cut the volcanic stratigraphy.



Sudbury, Ontario

December 16th, 1988

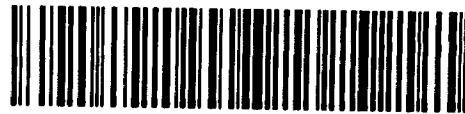
Robert A. Bennett, MSc., PEng.

Consulting Geologist

Seal
2.1594

REFERENCES

1. Bennett, R. A. - 1988
1987 Report on Exploration - private company report
2. Gordon, J. B., etal - 1979
Gold Deposits of Ontario - OGS Mineral Deposits Circular # 18.
3. Jensen, L. S. and Langford, F. F. - 1983
Geology and Petrogenesis of the Archean Abitibi Belt in the Kirland Lake Area, OGS Open File Report 5455.
4. Lovell, H. L. - 1967
Geology of the Matachewan Area, ODM Geological Report 51
5. McConnel, D. L. - 1987
Dighem III Survey for Wilzel Resources Ltd. Matachewan Area, Ontario
6. Ontario Geological Survey MAP 2484 - 1984
Lithostratigraphic Map of the Abitibi Subprovince
7. Ontario Ministry of Mines - Office of the Resident Geologist
ASSESSMENT FILES for Hincks, Argyle, and Bannockburn Twps.
(Petromet, Ashley, McCollum, Prestige, Marjel, Imperial Oil, Canamax, Sunisloe, Keirnicky, Carlson files).
8. Rickagy, H. C. - 1932
Bannockburn Gold Area, ODM Annual Report - Volume XLI, Part II



42A02SW0058 2.11949 ARGYLE

900

2.11949

Type of Survey(s) **Geological & Gridding.** Township or Area **Bannockburn Twp.**
 Claim Holder(s) **Wilzel Resources Limited** Prospector's Licence No. **T4699**
 Address **300 Elm Street West, Sudbury, Ont P 1V4**
 Survey Company **R.A. Bennett, PEng** Date of Survey (from & to) **24 08 88** to **4 10 88** Total Miles of line Cut **61.5 m.**
 Name and Address of Author (of Geo-Technical report) **R.A. Bennett, Box 159, Matheson, Ontario POKINO**

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	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	40
	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	
L	953836		L	953859	
	953837			953917	
	953838			953918	
	953840			953919	
	953839			953920	
	953841			953921	
	953842			953922	
	953843			953923	
	953844			953924	
	953845			953925	
	953846			953926	
	953847			953927	
	953848			953928	
	953849			953976	
	953850			953977	
	953851			953978	
	953852			953979	
	953853			953980	
	953854			953981	
	953855			953982	
	953856			953983	
	953857			953984	
	953858			953985	

Expenditures (excludes power, stripping)

Type of Work Performed	
Performed on Claim(s)	15 1988
Calculation of Expenditure Days Credits	
Total Expenditures	Total Days Credits
\$ <input type="text"/>	÷ 15 = <input type="text"/>

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

CONTINUED
 Total number of mining claims covered by this report of work. **67**

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
2680	Nov 15/88	M. A. Wainman
	Date Approved as Recorded	Branch Director
	See reversed statement.	

Date **Nov 14/88** Recorder/Holder of 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 **R.A. Bennett, PEng Box 159, Matheson, Ontario POKINO**

Date Certified **Nov 14/88** Certified by (Signature) *[Signature]*

BANNOCK BURN TWP - WILZEL RESOURCES

- L. 953986
- 953987
- 953988
- 953989
- 953990
- 953991
- 953992
- 953993
- 953994
- 953995
- 953996
- 953997
- 953998
- 953999
- 954000
- 954001
- 954002
- 954003

- L. 979492
- 979493
- 979494

67 claims in total

A.A.B.



Ministry of Northern Development and Mines

Land Management

Report of Work

(Geophysical, Geological, Geochemical and Expenditures) DOCUMENT No. W8808-563 Mining Act

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.

2.11949

Type of Survey(s) **GEOLOGICAL & GRIDDING** Township or Area **Argyle Twp**
 Claim Holder(s) **WILZEL RESOURCES LTD., and T. Obradovich** Inspector's Licence No. **T4699, K19837**
 Address **300 ELM ST. WEST, SUDBURY, ONT P3C1U4**
 Survey Company **R.A. Bennett, P. Eng.** Date of Survey (from & to) **24 08 88** to **4 10 88** Total Miles of line Cut **13 miles**
 Name and Address of Author (of Geo-Technical report) **Robert A. Bennett, Box 159, Matheson, Ontario POKINO**

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
	Geological	40
	Geochemical	

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here DEC 29 1988	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	Geological	
	Geochemical	

Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
L	953945				
	953948				
	953949				
	953950				
	953951				
	953952				
	953953				
	953954				
	953955				
	953956				
	953957				
	953958				
	953959				
	953960				
	953961				
	953974				
	953975				
	979490				
	979491				
	983188				
	983189				

Expenditures (excludes power stripping)

Type of Work Performed
 Performed on Claim(s) **1145 NOV 5 1988**
7180 11/12 1988

Calculation of Expenditure Days Credits

Total Expenditures \$ + 15 = Total Days Credits

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

Date **NOV 14/88** Recorded Holder of Agent (Signature) *[Signature]*

For Office Use Only

Total Days Cr. Recorded **840** Date Recorded **NOV 30 1988** Mining Recorder *[Signature]*
 Date Approved as Recorded **Dec 8 88** Branch Director *[Signature]*

Total number of mining claims covered by this report of work. **21**

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 **ROBERT A. BENNETT BOX 159 MATHESON, ONT POKINO**
 Date Certified **NOV 14/88** Certified by (Signature) *[Signature]*

(Geophysical, Geological, Geochemical and Experimental)

DOCUMENT NO. W8303-550

- 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.

Mining Act

Type of Survey(s) GEOLOGICAL MAPPING	Township or Area Hincks Twp.
Claim Holder(s) WILZEL RESOURCES LIMITED	Prospector's Licence No. T 4699
Address 300 ELM ST. W., SUBURRY ONT., P3C1U4	
Survey Company R.A. Bennett, P.Eng.	Date of Survey (from & to) 24 08 88 4 10 88
Name and Address of Author (of Geotechnical report) R.A. Bennett, Box 159 Matheson, Ontario, POKINO	Total Miles of line Cut 80 miles.

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	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here DEC 29 1988	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	40
	Geochemical	

Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	- Electromagnetic	
	- Magnetometer	
	- Radiometric	

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
L	737294	✓	L	919376	✓
	737295	✓		919377	✓
	737296	✓		919378	✓
	737297	✓		919379	✓
	737298	✓		919380	✓
	737299	✓		919382	✓
	918950	✓		919383	✓
	918951	✓		919384	✓
	918952	✓		919385	✓
	919362	✓		919386	✓
	919363	✓		919387	✓
	919364	✓		919388	✓
	919365	✓		919389	✓
	919366	✓		919390	✓
	919367	✓		919391	✓
	919368	✓		919392	✓
	919369	✓		919392	
	919370	✓		919393	✓
	919371	✓		919394	✓
	919372	✓		919395	✓
	919373	✓		919396	✓
	919374	✓		919397	✓
	919375	✓		919398	✓

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s) **1145 NOV - 5 1988**

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ **15** = Total Days Credits

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

Continued
Total number of mining claims covered by this report of work. **96 PAB**

For Office Use Only

Total Days Cr. Recorded 3840	Date Recorded Nov 15 88	Mining Recorder <i>M.G. Jenner</i>
	Date Approved as Recorded 11 Jan 89	Branch Director <i>[Signature]</i>

Date **Nov 14/88** Recorded 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
R.A. Bennett, Box 159, Matheson, Ont POKINO

Date Certified **Nov 14/88** Certified by (Signature) *[Signature]*

Copy made 11/02/88 KT

TRUCKS TOWNSHIP - WILZEL RESOURCES

- L. 919399 ✓
- 919400 ✓
- 919401 ✓
- 919402 ✓
- 919403 ✓
- 919404 ✓
- 919405 ✓
- 919406 ✓

- L. 919460 ✓
- 919461 ✓
- 919463 ✓
- 919464 ✓
- 919465 ✓
- 919466 ✓
- 919467 ✓
- 919468 ✓

- L. 919439 ✓
- 919440 ✓
- 919441 ✓
- 919442 ✓
- 919443 ✓
- 919444 ✓
- 919445 ✓
- 919446 ✓
- 919447 ✓
- 919448 ✓
- 919449 ✓
- 919450 ✓
- 919451 ✓
- 919452 ✓
- 919453 ✓
- 919454 ✓
- 919455 ✓
- 919456 ✓
- 919457 ✓
- 919458 ✓
- 919459 ✓

- L. 919475 ✓
- 919476 ✓
- L. 979466 ✓
- 979467 ✓
- 979468 ✓
- 979470 ✓
- 979471 ✓
- 979472 ✓
- 979473 ✓
- 979474 ✓
- 979475 ✓
- 979476 ✓
- 979477 ✓
- 979478 ✓

⁶
97 Claims



Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

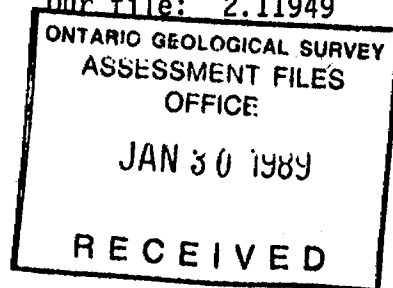
Mining Lands Section
3rd floor, 880 Bay Street
Toronto, Ontario
M5S 1Z8

Telephone: (416) 965-4888

January 26, 1989

Your file: W8808-539
Our file: 2.11949

Mining Recorder
Ministry of Northern Development and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2




Dear Sir:

Re: Notice of Intent dated January 11, 1989 - Geological Survey
submitted on Mining Claims L 953836 et al in Bannackburn Township

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,


W.R. Cowan
Provincial Manager, Mining Lands
Mines & Minerals Division

AB:p1
Enclosure

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

Wilzel Resources Ltd.
300 Elm Street West
Sudbury, Ontario
P3C 1V4

Resident Geologist
Kirkland Lake, Ontario

Mr. Robert Bennett
Box 159
Matheson, Ontario
POK 1N0



Recorded Holder Wilzel Resources Limited
Township or Area Bannackburn

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 _____ 40 _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input 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.	L953836 to 59 incl. 953917-18-19 953921 to 28 incl. 953976-77 953979 to 94 incl. 953996 to 954003 incl. 979492-94

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

<u>20 days</u>	<u>10 days</u>
L953920 953978 953995	L979493

No credits have been allowed for the following mining claims

<input type="checkbox"/> not sufficiently covered by the survey	<input type="checkbox"/> 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.

ARGYLE

DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

- PATENTED LAND
- CROWN LAND SALE
- LEASES
- LOCATED LAND
- LICENSE OF OCCUPATION
- MINING RIGHTS ONLY
- SURFACE RIGHTS ONLY
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED

NOTES

- 400' Surface rights reservation of rivers. WITHDRAWALS AND REOPENINGS
- (R1) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W. 8/86
- (R2) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W. 10/86
- (R3) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W. 10/86
- (R3) AND PART (R1) REOPENED FOR STAKING UNDER ORDER O-90/87 NR

DATE OF ISSUE

JUL 22 1988

LARDER LAKE
MINING RECORDER'S OFFICE

PLAN NO.- M-203 # 5

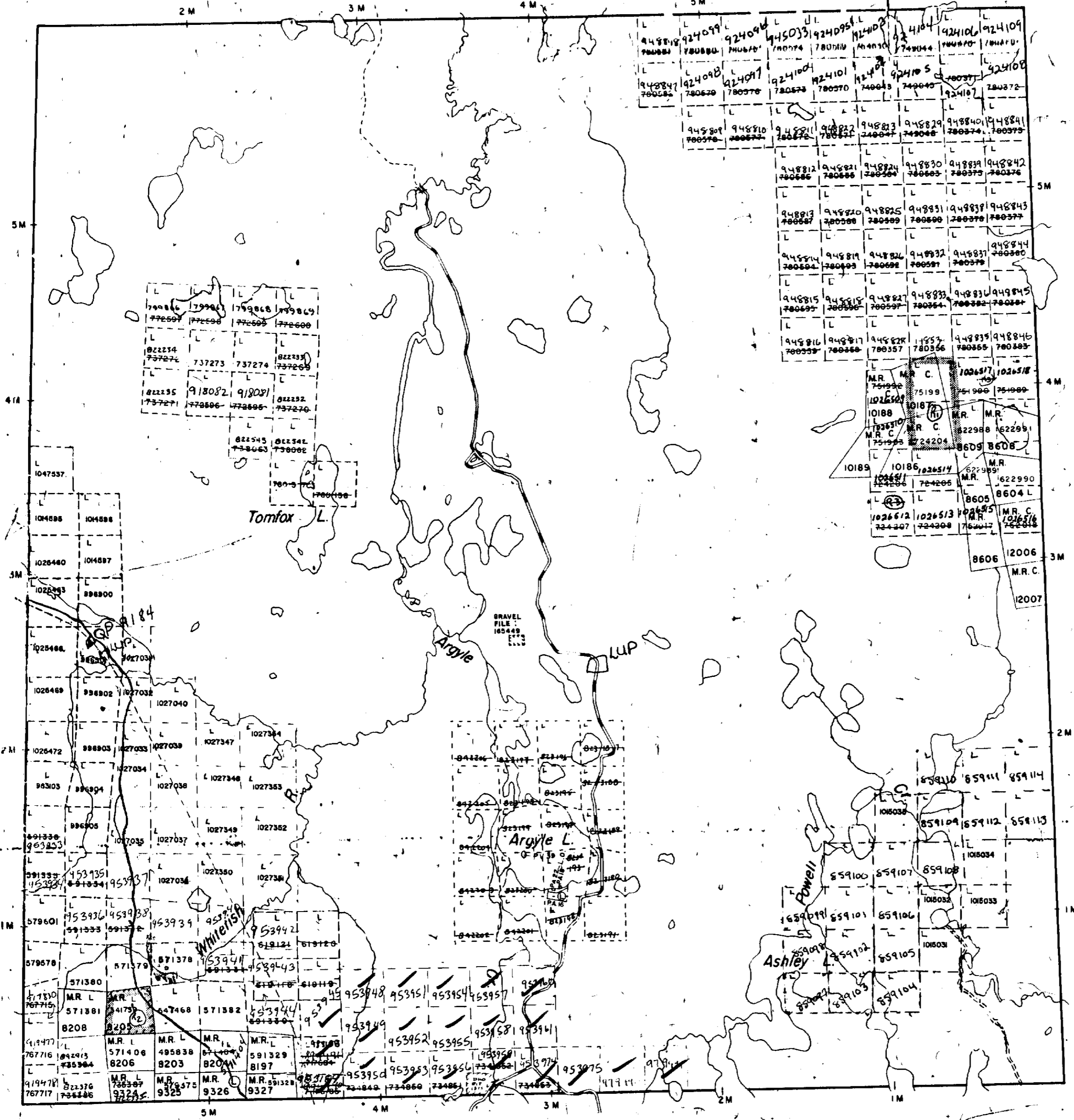
ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

McNeil Twp.

Robertson Twp.

Baden Twp.

Bannockburn Twp.



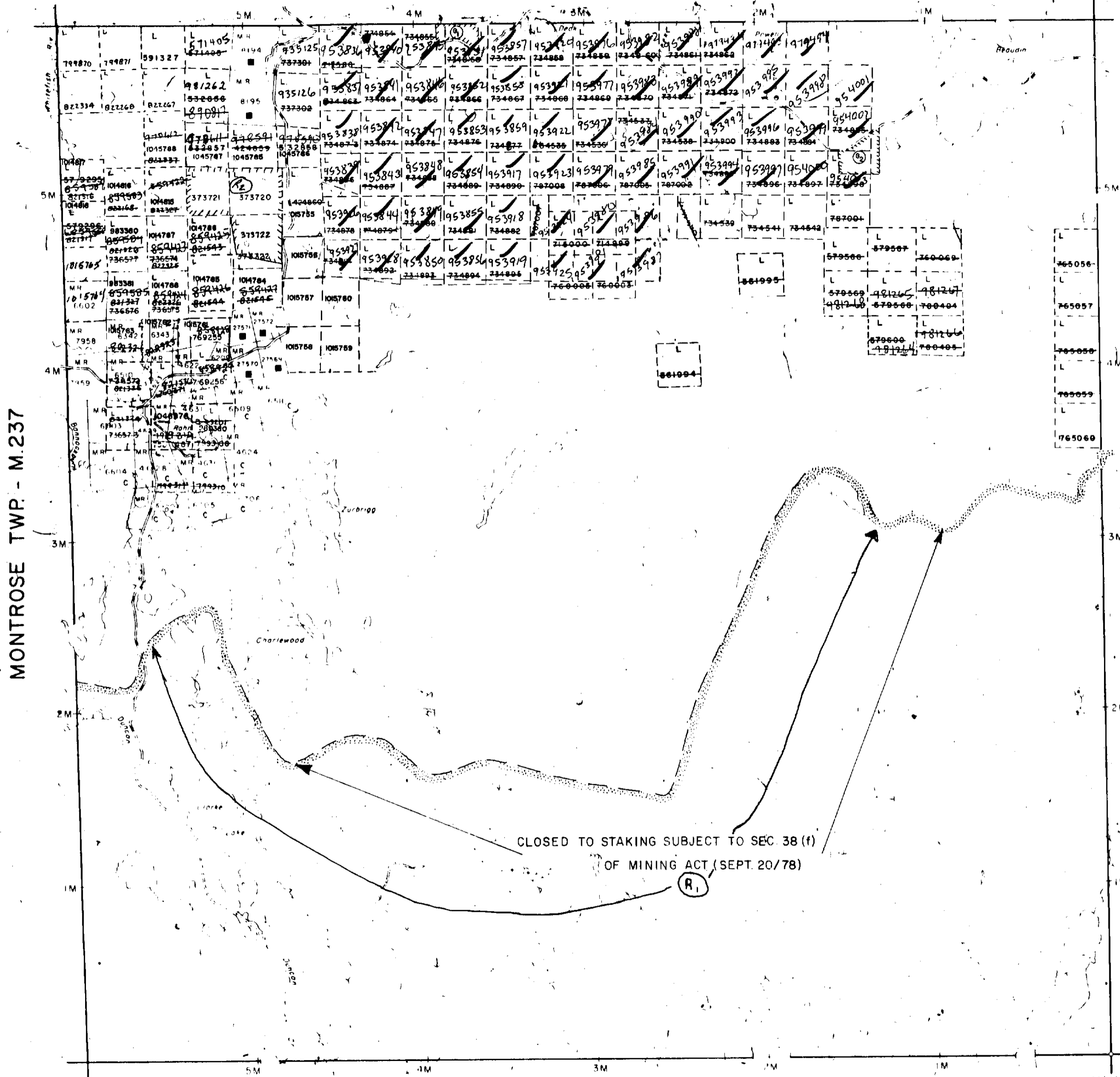
ARGYLE TWP. - M.203

THE TOWNSHIP OF
OF
BANNOCKBURN

DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH 40 CHAINS



DISPOSITION OF CROWN LANDS

- PATENT, SURFACE AND MINING RIGHTS ●
- " SURFACE RIGHTS ONLY ○
- " MINING RIGHTS ONLY ◐
- LEASE, SURFACE AND MINING RIGHTS' ◑
- " SURFACE RIGHTS ONLY ◒
- " MINING RIGHTS ONLY ◓
- LICENCE OF OCCUPATION ▼

- ROADS**
- IMPROVED ROADS
 - KING'S HIGHWAYS
 - RAILWAYS
 - POWER LINES
 - MARSH OR MUSKEG
 - MINES
 - CANCELLED

NOTES

400' surface rights reservation along the shores of all lakes and rivers

SAND and GRAVEL

- ① M.T.C. GRAVEL PIT 3F-25
- ② M.T.C. GRAVEL PIT 1374
- Ⓡ Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. 31 65/88
- Ⓡ2 Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. 2 1/82

NOTICE OF FORESTRY ACTIVITY

THIS TOWNSHIP / AREA FALLS WITHIN THE ELK LAKE MANAGEMENT UNIT AND MAY BE SUBJECT TO FORESTRY OPERATIONS. THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT: P.O. BOX 129 SWASTKA, ONT. POK ITO 705-642-3222

PLAN NO. **M.207#2**

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



42A025W0058 2-11949 ARGYLE

Cleaver Twp.

McNeil Twp.

THE TOWNSHIP OF

HINCKS

DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH=40 S

LEGEND

- PATENTED LAND
- CROWN LAND SALE
- LEASES
- LOCATED LAND
- LICENSE OF OCCUPATION
- MINING RIGHTS ONLY
- SURFACE RIGHTS ONLY
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES

NOTE

400' surface rights reservation along the shores of all lakes and rivers.

Areas withdrawn from staking under Section 43 of the Mining Act (R.S.O. 1970).

Order No	File	Date	Disposition
W 27/78	188022	May 31, 1978	S.R.O.

DATE OF ISSUE

JUL 23 1983

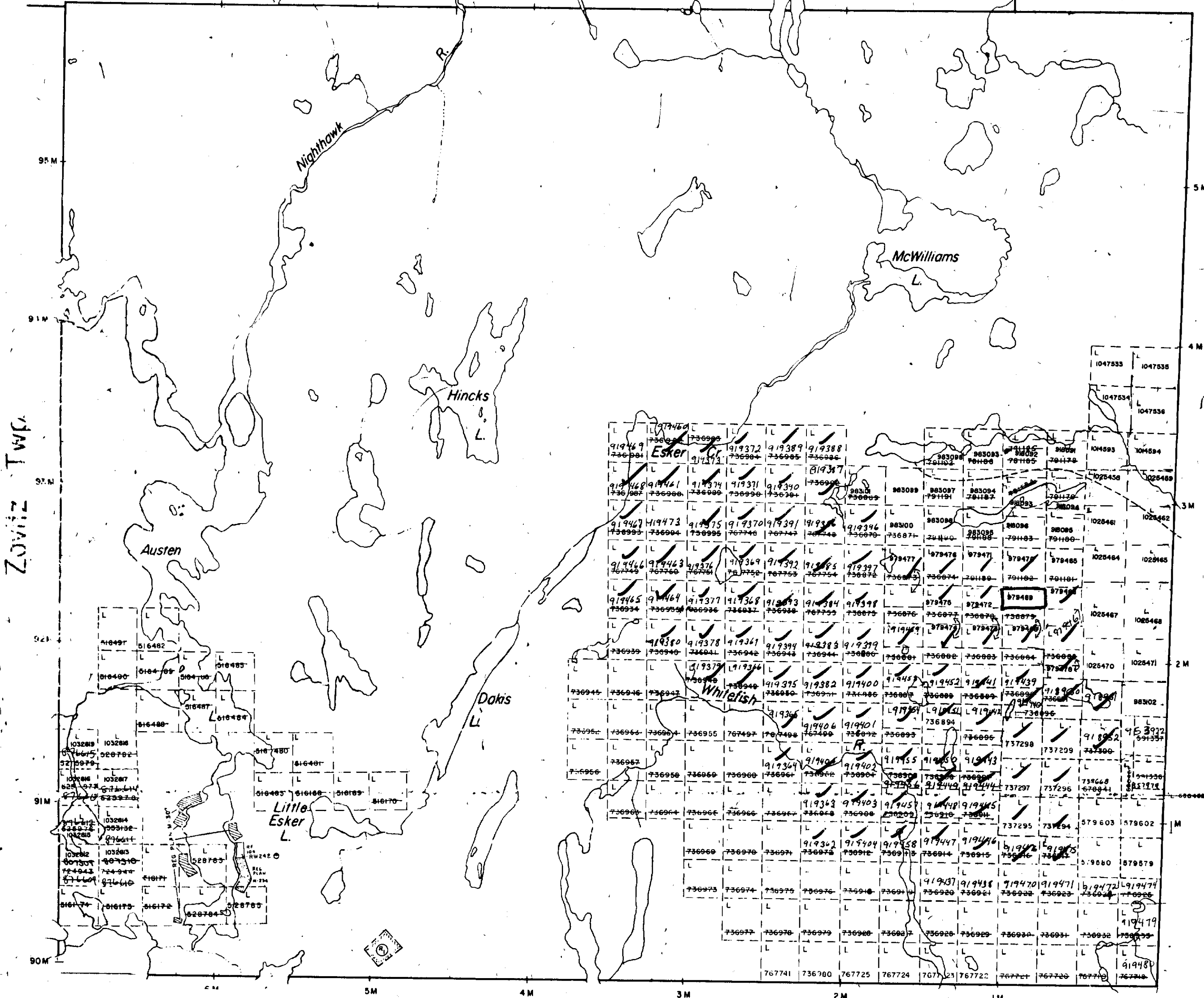
LARDER LAKE
MINING RECORDER'S OFFICE

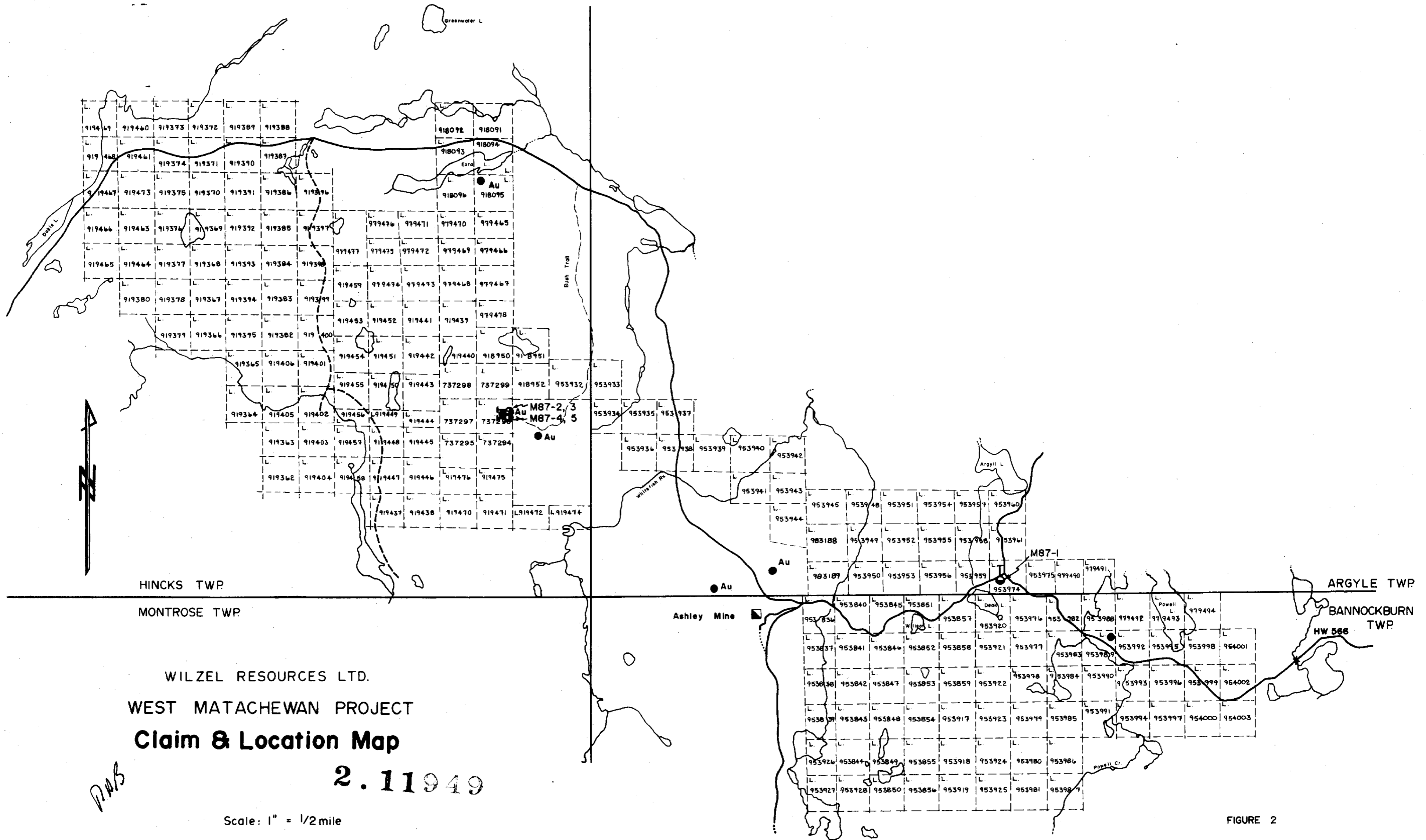
PLAN NO - M.223

ONTARIO #11

MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH





WILZEL RESOURCES LTD.
 WEST MATACHEWAN PROJECT
Claim & Location Map

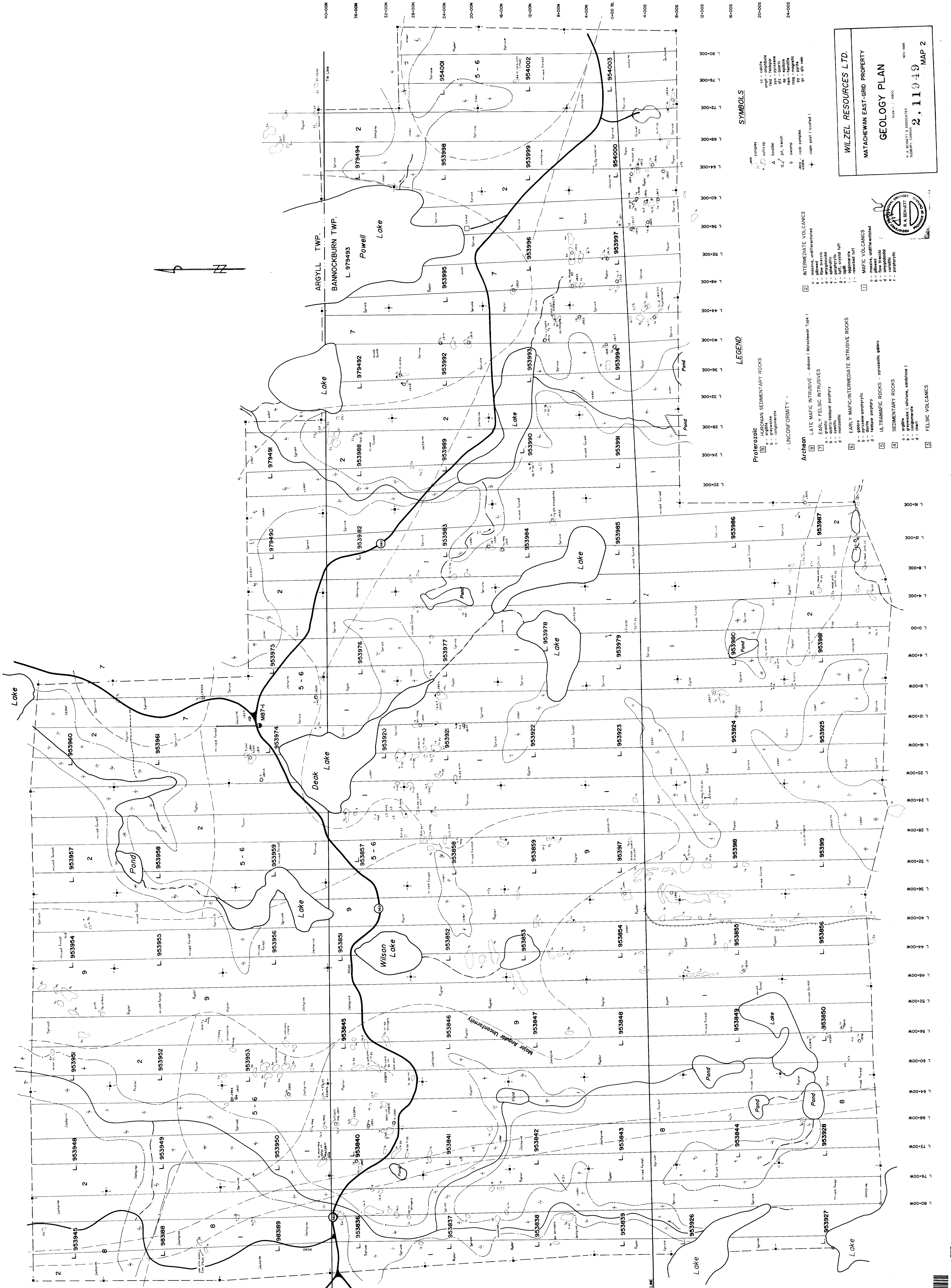
RMS

2.11949

Scale: 1" = 1/2 mile

FIGURE 2





SYMBOLS

- sample
- outcrop
- △ boulder
- pit, trench
- swamp
- rock sample
- clam post (located)

LEGEND

- Proterozoic**
- ③ HURONIAN SEDIMENTARY ROCKS
 - a - gabbro
 - b - granite
 - c - conglomerate
 - d - mafic
 - UNCONFORMITY -
- Archean**
- ② LATE MAFIC INTRUSIVE - gabbro (Matachewan Type)
 - ⑦ EARLY FELSIC INTRUSIVES
 - a - gabbro
 - b - granite
 - c - mafic
 - d - mafic
 - ⑥ EARLY MAFIC/INTERMEDIATE INTRUSIVE ROCKS
 - a - gabbro
 - b - granite
 - c - mafic
 - d - mafic
 - ⑤ ULTRAMAFIC ROCKS - pyroxenitic gabbro
 - ④ SEDIMENTARY ROCKS
 - a - gabbro
 - b - granite
 - c - conglomerate
 - d - chert
 - ③ FELSIC VOLCANICS
- INTERMEDIATE VOLCANICS**
- ② massive, undifferentiated
 - a - gabbro
 - b - granite
 - c - mafic
 - d - mafic
 - e - mafic
 - f - mafic
 - g - mafic
 - h - mafic
 - i - mafic
 - j - mafic
 - k - mafic
 - l - mafic
 - m - mafic
 - n - mafic
 - o - mafic
 - p - mafic
 - q - mafic
 - r - mafic
 - s - mafic
 - t - mafic
 - u - mafic
 - v - mafic
 - w - mafic
 - x - mafic
 - y - mafic
 - z - mafic
- MAFIC VOLCANICS**
- ① massive, undifferentiated
 - a - gabbro
 - b - granite
 - c - mafic
 - d - mafic
 - e - mafic
 - f - mafic
 - g - mafic
 - h - mafic
 - i - mafic
 - j - mafic
 - k - mafic
 - l - mafic
 - m - mafic
 - n - mafic
 - o - mafic
 - p - mafic
 - q - mafic
 - r - mafic
 - s - mafic
 - t - mafic
 - u - mafic
 - v - mafic
 - w - mafic
 - x - mafic
 - y - mafic
 - z - mafic

WILZEL RESOURCES LTD.
 MATACHEWAN EAST-GRID PROPERTY
GEOLOGY PLAN
 SIZE: 1:4800
2.11.1949 MAP 2
 WILZEL RESOURCES LTD. ASSOCIATES
 SUDBURY, CANADA
 NOV 1948