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DOGPAW LAKE

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**Phase I Exploration Program,
Dogpaw Lake Property**

Assessment Report

STARCORE RESOURCES LTD.

**Kenora Mining Division,
Northwestern Ontario**

NTS 52 F/5 SW

**Latitude 49°21'30" Longitude 94°08'00"
Magnetic Declination 2°32'**

By:

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Avalon Ventures Ltd.

May 14, 1998

Summary

In December 1996, Starcore Resources Ltd. acquired the option to earn a 100% interest in five contiguous mining claims totalling 77 units, collectively called the Dogpaw Lake Property. The property is located approximately 70 kilometres southeast of the town of Kenora in northwestern Ontario. During the spring and fall of 1997, a Phase I exploration program was carried out to evaluate the potential for shear hosted lode gold mineralization on the property. The spring program included establishing a control grid and performing a ground magnetometer survey on the lake ice, as well as linecutting over a small area of the land portion of the property. The fall program included the establishment of a cut control grid, a ground magnetometer survey, geological mapping, and rock sampling on the land portion of the property.

The Dogpaw Lake Property is situated near the junction of two regional faults, the northeast trending Wabigoon Fault and the northwest trending Pipestone-Cameron Deformation Zone (PCDZ), which passes through the southern portion of the property. Each of these deformation zones is traceable for hundreds of kilometres along strike. Numerous gold occurrences and significant deposits have been discovered along both structures, commonly in association with secondary splay structures that propagate from them. These include Nuinsco's Cameron Lake deposit, Royal Oak's Shoal Lake deposit, and Teck and Corona Gold's Thunder Lake deposit.

At the historic Gauthier Occurrence, located on the northwestern portion of the Dogpaw Lake Property, high grade gold mineralization is reportedly contained within discontinuous quartz veins along discrete, east to east-southeast trending shear zones near the contact between a mafic volcanic unit and a felsic to intermediate volcanic unit. Shallow diamond drilling at the Gauthier Occurrence in 1945 yielded gold values up to 19.84 g/t over 1.83 metres and 24.10 g/t over 1.52 metres, while grab samples taken in 1985 reportedly assayed up to 111.98 g Au/t. Rock sampling at the occurrence during Starcore's Phase I program produced considerably lower gold assays, up to 1.46 g/t.

Geological mapping completed during the Phase I program has shown the Dogpaw Lake Property to be predominantly underlain by intermediate to mafic metavolcanic rocks, intercalated with minor amounts of felsic metavolcanic and tuffaceous metasedimentary units. Early phase, strongly foliated, quartz-feldspar phyric felsic dykes occur locally. A large, 600 x 1000 metre, moderately to weakly magnetic gabbroic unit occurs in the central to north-central portion of the property, coincident with an anomalous magnetic high identified from the ground magnetometer survey. Moderate to strong chloritic alteration is widespread in the volcanic rocks, along with locally variable carbonate, epidote, sericite, and silica alteration. Five separate zones of intense ankerite and silica alteration were identified, one of which is exposed over a width of 15 metres. Due to thick overburden, however, these zones were only traced for short distances along strike.

Six northwest to west northwest trending shear zones, including the regional PCDZ, pass through the Dogpaw Lake Property. They occur as anastomosing zones of highly fissile, carbonate-chlorite-sericite schists. Some of these shears may be secondary splays off the PCDZ, and all represent targets for shear hosted gold mineralization.

In relation to the regional and local geology, the Dogpaw Lake Property is favourably situated for the discovery of shear hosted lode gold deposits, and several targets which merit further investigation have been delineated. Recommendations for further work include induced polarization surveys over select areas of the property, a soil geochemistry survey, further geological mapping, prospecting, and a 500 metre diamond drilling program.

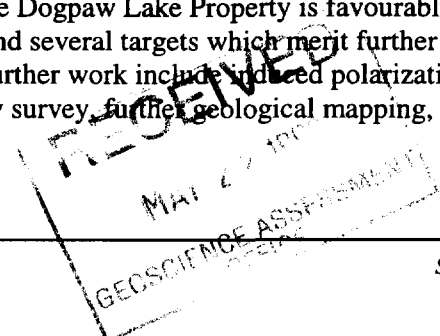




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1.0 Introduction

In December 1996, Starcore Resources Ltd. acquired the option to earn a 100% interest in five mining claims comprising 77 units in the western portion of the Wabigoon Subprovince. Collectively referred to as the Dogpaw Lake Property, these claims are situated approximately 70 kilometres southeast of the town of Kenora in northwestern Ontario. The primary exploration target is shear hosted lode gold deposits.

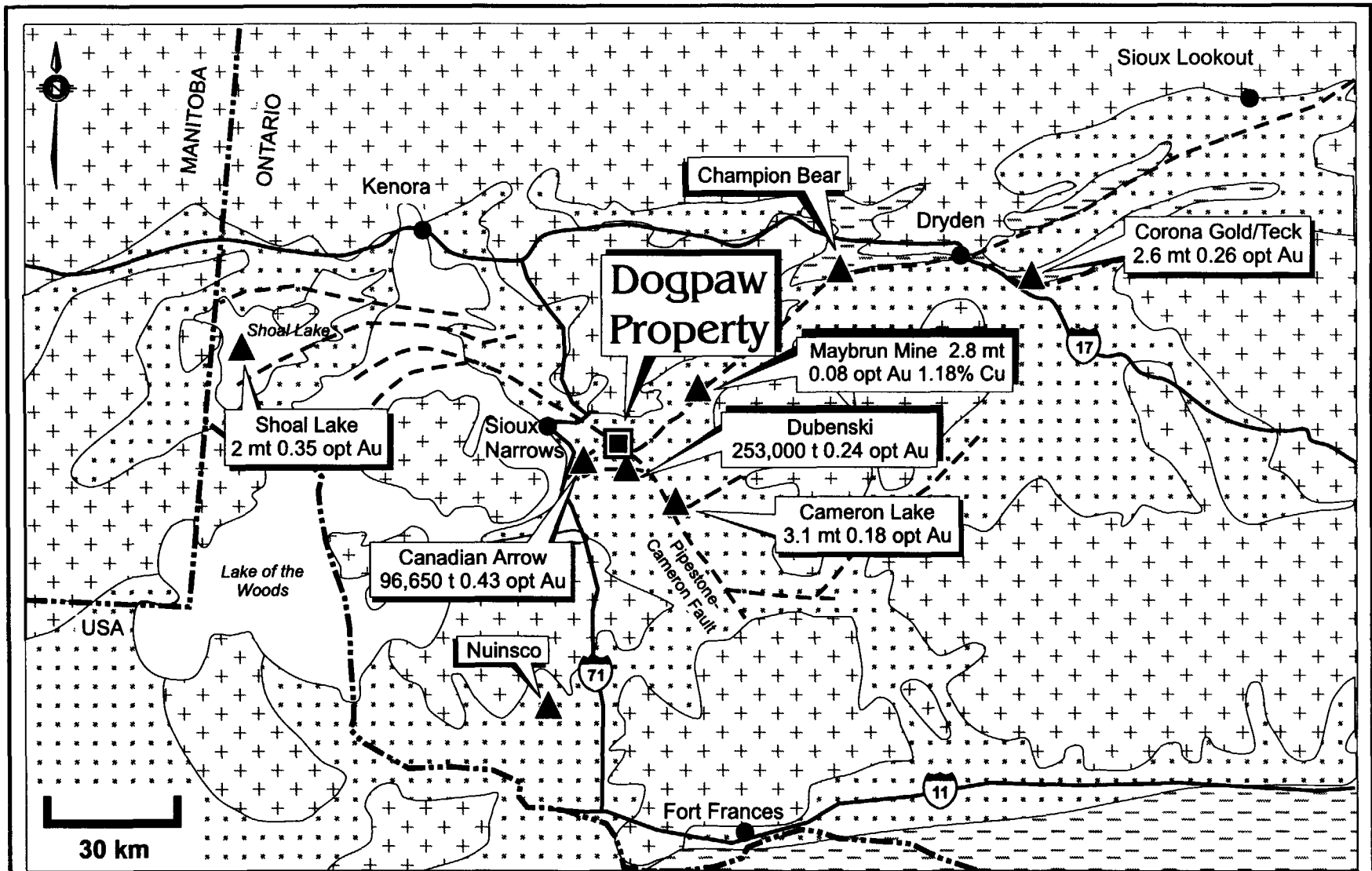
The Dogpaw Lake Property occurs near the junction of two regional faults, the Pipestone-Cameron Deformation Zone (PCDZ) and the Wabigoon Fault, each of which is known to be associated with significant gold deposits elsewhere in the region. These include Teck and Corona Gold's Thunder Lake deposit, Nuinsco's Cameron Lake deposit, and Royal Oak's Shoal Lake deposit. On Avalon's Dubenski Property, which is located less than two kilometres south of the Dogpaw Lake Property, an estimated deposit of 253,000 t grading 6.80 g Au/t occurs along a secondary splay structure off the PCDZ.

On behalf of Starcore Resources Ltd., Avalon Ventures Ltd. ("Avalon") of Thunder Bay, Ontario, initiated a Phase I exploration program on the Dogpaw Lake Property in the spring of 1997. This included a ground magnetometer survey on the lake ice covering the western portion of the property, as well as limited linecutting in the south and the northwest. During the fall of 1997, a grid consisting of 200-metre spaced, north-south striking cut lines was established over the majority of the land portion of the property. A ground magnetometer survey was then completed over this grid. Geological mapping and rock sampling was also carried out on the grid and along the shoreline. The purpose of this report is to document the results of the Phase I exploration program.

2.0 Location and Access

The Dogpaw Lake Property is located in the Kenora Mining Division of northwestern Ontario, approximately 70 kilometres south southeast of the town of Kenora (Figure 1). It is centred on Latitude 49°21'30" and Longitude 94°08'00", NTS reference 52 F5/SW. The five claims comprising the Dogpaw Lake Property (Figure 2) span the north central portion of claim sheet Dogpaw Lake G-2613 and the south-central portion of claim sheet Lobstick Bay G-2627.

Access to the property can be gained by travelling east from Highway 71 along the Cameron Lake Road, located approximately 10 kilometres south of the town of Sioux Narrows. After travelling about 15 km along the Cameron Lake Road, a 3 to 4 km boat ride to Caviar Lake via Flint Lake provides excellent access to the eastern portion of the property. Access to the western portion of the property can be gained by boating north to Dogpaw Rapids and then south into Dogpaw Lake, or by utilizing a well-maintained 200-metre portage between the southernmost parts of Caviar and Dogpaw Lakes. Alternatively, a boat can be launched from the Whitefish Bay Indian Reserve on the northwest side of Dogpaw Lake.



Granite



Greenstone



Sediments



Fault



Starcore Dogpaw Property



Gold Occurrence/Resource

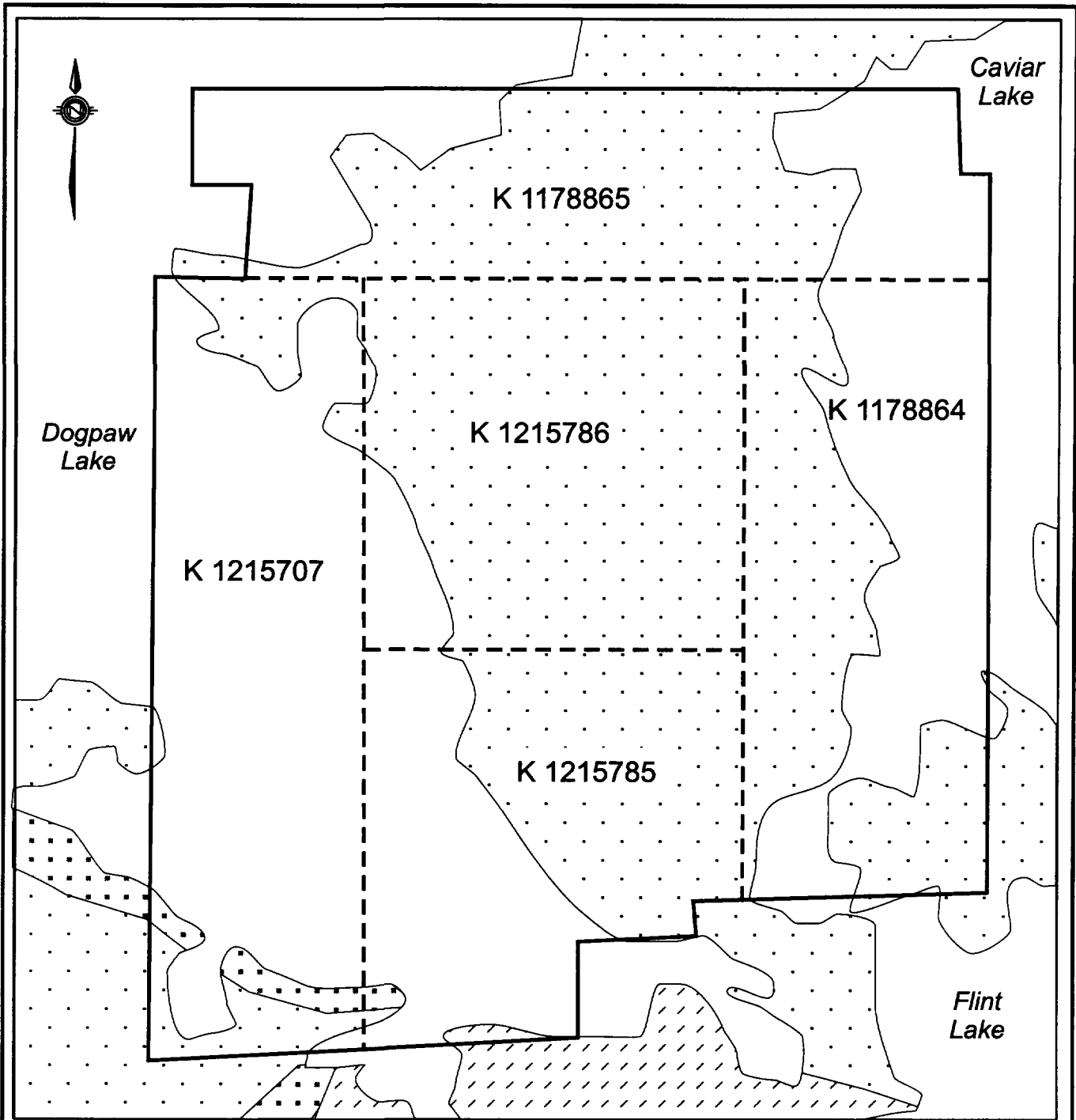
STARCORE RESOURCES LTD.

DOGPAW PROPERTY
LOCATION MAP

Figure 1

December 1997

NTS: 52 F5



<i>STARCORE RESOURCES LTD.</i>	
DOGPAW PROPERTY CLAIM SKETCH	
Figure 2	December 1997
NTS: 52 F5	

3.0 Disposition

The Dogpaw Lake Property consists of five mining claims totalling 77 units, covering a total area of 3,080 acres (Figure 2). These claims span the north central portion of claim sheet Dogpaw Lake G-2613 and the south-central portion of claim sheet Lobstick Bay G-2627. The claims are recorded in the Kenora Mining Recorder's Office in the names of James Bond II and Kenneth Fenwick. Pertinent claim information is provided in Table 1.

Table 1: Dogpaw Lake Property Claims Disposition

Claim	Units	Recorded	Assessment Due	Assessment Required
K 1178864	14	30 Jan 1997	30 Jan 1999	\$5,600
K 1178865	16	30 Jan 1997	30 Jan 1999	\$6,400
K 1215707	16	25 Oct 1996	25 Oct 1998	\$6,400
K 1215785	15	25 Oct 1996	25 Oct 1998	\$6,000
K 1215786	16	25 Oct 1996	25 Oct 1998	\$6,400
	77			\$30,800

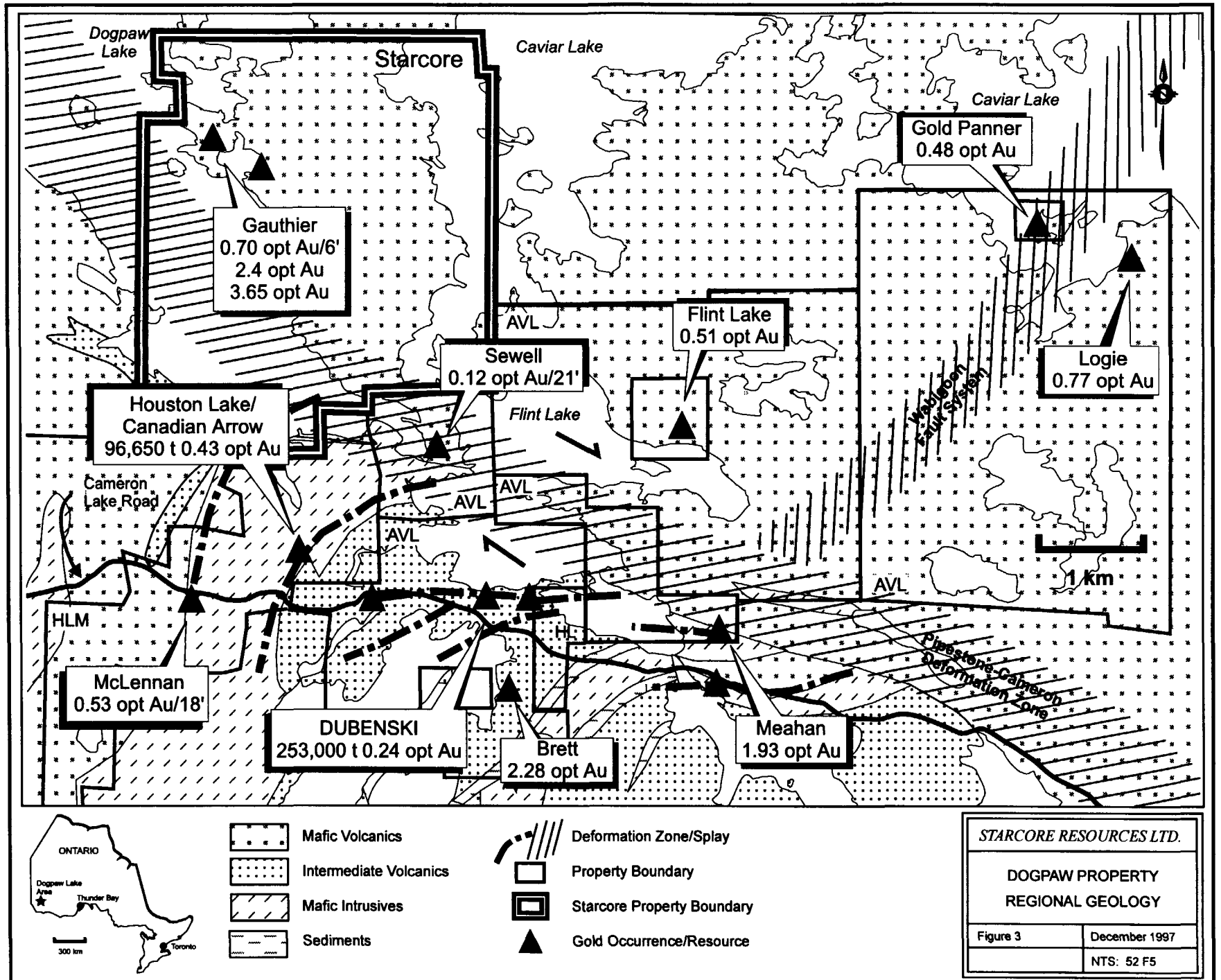
Starcore acquired the option to earn a 100% interest in the property from the vendors in December 1996. Starcore can exercise the option by issuing a total of 100,000 shares, making \$60,000 in cash payments, and completing \$250,000 in exploration expenditures in staged amounts by December 2000.

4.0 Regional Geology

The Dogpaw Lake Property is situated in the western portion of the Wabigoon Subprovince of the Superior Province of the Canadian Shield. This subprovince is a granite-greenstone terrain separating the gneissic terrains of the Quetico Subprovince to the south and the English River Subprovince to the north. The volcanic stratigraphy consists of a lower mafic tholeiitic sequence, overlain by a middle mixed mafic to felsic, calc-alkaline and tholeiitic sequence, capped locally by an upper mafic tholeiitic sequence (Blackburn et al. 1985).

As illustrated in Figure 3, the Dogpaw Lake Property occurs near the junction of two regional faults, the Pipestone-Cameron Deformation Zone (PCDZ) and the Wabigoon Fault, each of which is traceable for hundreds of kilometres along strike and is spatially associated with several significant gold occurrences. The PCDZ trends in a northwest direction across the southern portion of the property, while the Wabigoon Fault cuts stratigraphy in a north northeasterly direction less than five kilometres east of the property.

The PCDZ is a major zone of shearing up to hundreds of metres wide, defined by strongly schistose rocks and extensive carbonate, sericite, and chlorite alteration. Notable gold occurrences proximal to this structure include Nuinsco's Cameron Lake deposit, which contains an estimated 3.1 mt grading 5.10 g Au/t, and Royal Oak's Shoal Lake deposit, which



contains 2.0 mt grading 9.92 g Au/t. On Avalon's Dubenski Property, located less than two kilometres to the south of the Dogpaw Lake Property, an estimated deposit of 253,000 t grading 6.80 g Au/t has been identified. On Houston Lake Mining's Canadian Arrow Property, contiguous with the southern boundary of the Dogpaw Lake Property, drilling has intersected zones of gold mineralization grading up to 30.05 g/t over 7.9 metres.

The Wabigoon Fault has been traced for over one hundred kilometres to the northeast near the town of Sioux Lookout in northwestern Ontario. In 1997 joint venture partners Teck and Corona Gold announced an underground exploration program on their Thunder Lake Property, which hosts estimated reserves of 850,000 ounces gold within a second order structure off the Wabigoon fault. The deposit is located roughly 15 kilometres east of the town of Dryden.

5.0 Previous Exploration

Since gold was first discovered in the Kenora region in the late 1800's, a number of small mines have experienced short-lived periods of gold production. Around the turn of the century, two different mines were developed in the immediate area of Starcore's Dogpaw Lake Property. These are the Gold Panner Mine and the Flint Lake Mine (Davies and Morin, 1976), located on Caviar Lake and Flint Lake, respectively (see Figure 3). At the Gold Panner Mine, which operated from 1899 to 1903, gold occurs in association with quartz veins in a 2.4 metre wide carbonatized shear zone within a quartz porphyry dyke. At the Flint Lake Mine, two vertical shafts and a number of trenches were developed, along with a plant, mill, and assay office. Shortly thereafter, all work was abandoned and no gold was ever produced. The gold mineralization was reportedly contained within sulphide bearing quartz veins in carbonatized basalts.

The Dogpaw Lake Property has experienced sporadic periods of exploration by various parties since the mid 1900's, when gold was first discovered on the property. The following is a brief history of exploration that has been carried out:

- 1944: Albert Gauthier discovered gold in the northwestern portion of the present Dogpaw Lake Property and staked a number of claims in the area.
- 1944: Sylvanite Gold Mines Ltd. optioned several of the Gauthier claims and performed limited sampling of a number of altered shear zones and veins; additional ground was then staked to the north of the claims.
- 1945: Sylvanite Gold Mines Ltd. performed limited trenching and diamond drilling on their claims, and gold values up to 0.08 opt were reported.

- 1945: Albert Gauthier staked a number of claims in the northwestern portion of the current Dogpaw property and discovered gold in quartz veins along a silicified and carbonatized shear zone at what is presently known as the Gauthier Occurrence. Work carried out on this showing included a number of shallow pits and three shallow drill holes. Samples collected from pits 46 metres apart produced assay results of 2.00 and 2.40 opt Au. Assay results returned from a 27.7 metre drill hole included 0.20 opt Au over 1.52 metres and 0.18 opt Au over 0.45 metres. The claims were allowed to lapse by 1947.
- 1972: Ten contiguous claims in the vicinity of the Gauthier Occurrence were staked in the northwestern portion of the property, and a cut grid was established with line spacings of 400 feet. Chester J. Kuryliw carried out geological mapping at a scale of one inch = 400 feet, and recommended 300 feet of diamond drilling on the Gauthier Occurrence.
- 1980: Seven trenches were excavated on the peninsula in the vicinity of the Gauthier Occurrence under the direction of A.S. Bayne for S.S. Szetu. Details regarding further work and sampling of these trenches are unknown.
- 1982-83: Twenty-six contiguous claims were staked around the peninsula in the northwestern portion of the current property and optioned to FTM Resources Inc. In 1983, FTM Resources carried out magnetic and electromagnetic surveys on the property, and resampled several of the existing trenches in the vicinity of the Gauthier Occurrence. Geological mapping was also carried out and further work was recommended for the property.
- 1983: Micham Exploration Inc. obtained 40 claims extending from the southeastern portion of the current Dogpaw Lake Property to the Flint Lake Occurrence on the northeast side of Flint Lake. Geological mapping identified a number of targets for potential gold mineralization. Further work consisted of linecutting and soil sampling, and an induced polarization survey was recommended.
- 1984: Channel sampling of four trenches excavated by FTM Resources in the northwestern portion of the current property returned gold values up to 244 ppb over 0.71 metres.
- 1986: First General Mine Management and Gold Corporation in partnership with Nuinsco Resources Ltd. drilled a total of 205 metres in three holes near the Gauthier Occurrence. Several zones of alteration, shearing, and quartz veining were encountered, but gold mineralization was found to be only slightly anomalous, and the highest value reported was 0.062 opt Au over 0.42 metres.

6.0 Current Program

A Phase I exploration program on the Dogpaw Lake Property was initiated in the spring of 1997, and included approximately 10.5 kilometres of linecutting in the southern and northwestern portions of the property. A picketed grid totalling approximately 43.0 line kilometres was also established on the lake ice in the western to southern portion of the property. This grid was constructed to provide control for a ground magnetometer survey that was carried out by Gibson and Associates of Sault Ste. Marie, Ontario.

In October 1997, Vytal Exploration Services Ltd. of Thunder Bay, Ontario tied onto the existing cut lines in order to complete the control grid on the land portion of the property. 19.5 kilometres were cut along north-south striking, 200-metre spaced lines and two east-west trending tie lines, bringing the total line distance of the control grid to 73 kilometres (30 on land + 43 on lake ice). Vytal then proceeded to complete the ground magnetometer survey over the land portion of the property, bringing the total line coverage of the complete total field magnetics survey to 60 kilometres.

Geological mapping and rock sampling was carried out from mid-October to early November 1997 on the control grid as well as along the shoreline. Additionally, flagged grid lines were established and mapped in the northwestern portion of the property in the vicinity of the Gauthier Occurrence. Line stations were flagged at 25 metre spacings along lines 5+00E, 7+00E, 9+00E, and 11+00E, for a total distance of approximately 1.4 kilometres. A total of 99 rock samples were collected during the Phase I program and sent to Chemex Labs of Vancouver for gold analysis by fire assay. Access to the property was gained by boat from Dogpaw Lake and Caviar Lake via Flint Lake. Due to the onset of winter weather conditions, the shoreline on claim K1178865 in the northern part of the property was not mapped.

Results of each aspect of the Phase I exploration program for the Dogpaw Lake Property are discussed below.

7.1 Ground Magnetometer Survey

Instrument Specifications

The total field magnetic survey by Gibson and Associates was carried out using two Scintrex Envi-Mag portable total-field magnetometers. One unit was used as a base station to correct for diurnal variations. The other was used as a portable field unit operated in the stop and go mode configured for mineral exploration. Field readings were taken at 12.5 metre intervals along the picketed grid lines and corrected for diurnal variation.

The land survey that was carried out by Vytal Exploration Services Ltd. was performed using a GSM-19 portable magnetometer. Readings were taken at 12.5 metre intervals along the cut grid lines and corrected for diurnal variation. The data from the two surveys was levelled and combined, and is presented as postings on Map 2a, and as contours on Map 2b (back pocket).

Results and Interpretation

The total field magnetic data displays a sharp break, roughly corresponding to the eastern shore of Dogpaw Lake, between an area of low magnetic susceptibility to the west and an area of high magnetic susceptibility to the east. This contrast can be largely attributed to the presence of a large, weakly to moderately magnetic gabbroic intrusion in the north-central portion of the landmass of the property.

As stated above, the large magnetic high in the north-central portion of the property roughly corresponds with a gabbroic intrusion that was identified during the mapping program. The gabbro occurs over an aerial extent of 600 x 1000 metres, and appears to plunge to the southeast. As shown on Map 2b, this unit is cut by numerous, northwest trending magnetic lows, indicative of strong shearing. In outcrop, however, the gabbro is typically fairly massive and unfoliated. This suggests that the unit deformed more brittly than the surrounding volcanic rocks, with the magnetic lows representing discrete zones of shearing.

A northwest trending magnetic low that passes through the southern portion of the property coincides with the location of the regional PCDZ, which manifests itself as an anastomosing zone of very fissile chlorite-carbonate-sericite schists. These highly deformed rocks frequently contain deformed and folded quartz-ankerite veins, similar to veins that are known to carry gold elsewhere in the immediate vicinity of the Dogpaw Lake Property.

7.2 Property Geology

The majority of the Dogpaw Lake Property is underlain by calc-alkaline intermediate to mafic metavolcanic rocks belonging to the middle series of the Rowan Lake Group, which hosts Nuinsco's Cameron Lake deposit. As shown on Map 1, these rocks mainly occur as fine to coarse grained, locally pillowed flows and lesser tuffaceous units. Several deformed, strongly foliated, east-west trending quartz-feldspar phyric felsic dykes, each less than 0.5 metres wide, cut the volcanic stratigraphy on islands in the southwest part of the property.

Moderately to strongly chloritized mafic flows predominate in most areas of the property. These rocks are typically moderately to weakly foliated, but locally contain narrow, discrete zones of intense shearing. Pillow textures are common in the east-central to west-central parts of the property, most conspicuously along the western shore of Caviar Lake. Pillow tops are usually difficult to determine, but appear to be toward the north. Individual pillows exhibit moderate to mild degrees of elongation. Vesicular flow tops and flow breccias occur on the southwestern portion of the peninsula directly south of the Gauthier Occurrence.

Five separate tuffaceous units, mafic to intermediate in composition, were identified in the western portion of the property. The southernmost of these units is characterized by the presence of elongated mafic clasts, up to one metre long, within a buff to beige, intermediate matrix. A northwest trending lapilli tuff to tuff breccia unit occurs along the southern edge of the peninsula that hosts the Gauthier Occurrence. Two types of clasts are present in this unit. Beige to buff, angular to subrounded, quartz-feldspar porphyritic clasts up to 30 centimetres

in size (2-4 centimetres average) predominate along the western exposures of this unit, while subrounded, chloritized mafic fragments predominate along its eastern exposure. A similar unit outcrops along the eastern shore of Dogpaw Lake, just north of BL-15+00N. The two other tuffaceous units occur along the east shore of Dogpaw Lake, between 19+50N and 23+00N, and range from 50 to 100 meters in apparent thickness. Sericitic and chloritic alteration is common, and quartz-feldspar dykes occur locally within the tuffaceous units.

A large (600 x 1000 metres), moderately to mildly magnetic gabbroic unit occurs in the central to north-central portion of the property (see Map 1). This intrusive unit occurs as a topographic high and corresponds with a strong magnetic susceptibility anomaly. Its magnetic signature suggests that it plunges to the southeast. This gabbro is typically medium grained, massive, and usually unfoliated. However, as shown on Map 2b, the unit is cut by numerous northwest trending, linear magnetic low anomalies, indicative of strong shearing. This suggests that the gabbro deformed more brittly than the surrounding volcanic rocks, with the magnetic lows representing discrete, more intensely altered shear zones. Some of the oblong magnetic highs just north of the baseline in the central portion of the property may represent mafic sill-like bodies intruded along planes of weakness, but no direct evidence for this was found.

Regional deformation and shearing is evident in the form of penetrative foliations within the volcanic rocks, and rarely in the mafic intrusive units. These foliations generally strike in a northwest to west-northwest direction with steep northerly to sub-vertical dips. Discrete zones of high strain and intense alteration occur over the entire property, and range from metres to tens of metres in width. These discrete structures define larger scale, anastomosing shear zones, such as the PCDZ, along which high grade gold mineralization may occur. These large scale shear zones are manifested in the form of very fissile, strongly schistose rocks characterized by variable chlorite, carbonate, and sericite alteration. Discontinuous, deformed quartz-ankerite veins, typically less than 20 centimetres thick, are common within the shear zones. These veins developed as early tension gashes and were buckled during progressive deformation.

Six large scale shear zones, including the PCDZ, were identified on the Dogpaw Lake Property during the Phase I program (see Map 1). Some may have developed as secondary splays off the regional PCDZ, and all represent favourable targets for shear hosted gold mineralization. These zones are defined by linear magnetic lows identified from the total field magnetic survey (see Map 2b), and are discussed in greater detail below.

Sulphide mineralization on the property consists of disseminated pyrite and lesser chalcopyrite, typically in association with quartz-carbonate veins and altered shear zones. Disseminated pyrite content in narrow zones within the wallrock adjacent to some of these veins is as high as 15%. Minor malachite occurs in east-west trending syenitic dykes, typically less than 0.5 metres wide, within the sheared mafic volcanic rocks on one of the islands in the southwestern portion of the property.

Shear Zones:

The regional PCDZ trends in a northwest direction through the southern portion of the property, and manifests itself as a 500 to 600 metre wide zone of strongly schistose rocks characterized by intense sericite, chlorite, and lesser carbonate alteration. Deformed quartz-ankerite veins are common along this shear zone, and have usually been rotated into a subparallel orientation with the foliation. Magnetic susceptibility is low along the PCDZ. A narrow zone of intense shearing identified on the northern side of an island at 3+00E, 11+50N likely represents a secondary splay off the main PCDZ.

The Gauthier Occurrence, located on the peninsula in the northwestern portion of the property, occurs along a northwest trending shear zone (*Gauthier Shear Zone*, Map 1) interpreted from the magnetic data to extend in a southeast direction across the entire property. Gold mineralization appears to be concentrated within discrete shears and deformed quartz-ankerite veins within a 30 metre wide zone of silicification along the southern boundary of the Gauthier Shear Zone. This zone of silicification was traced for 250 metres along strike. The host lithologies consist of mafic volcanic rocks and lesser quartz-feldspar crystal tuffs. Historic grab samples taken at the Gauthier Occurrence reportedly grade up to 111.98 g Au/t. Grab samples taken during the current program yielded much lower values, up to 1.46 g Au/t, but verify the presence of anomalous gold mineralization. Along the northern edge of the Gauthier Shear Zone at 22+00E, 27+00N a zone of intense silica, ankerite, and albite alteration was identified. This zone is at least 15 metres wide and exhibits a very similar alteration style to that at the Shaft Zone on Avalon's Dubenski Property, where gold values sharply increase with depth below the surface trenches. Four similar zones of pervasive alteration were identified at separate localities during the current program (see *Zones A to E*, Map 1).

Among the other shear zones identified during the current program, the one exposed along the shoreline in the eastern portion of claim K1178865, referred to as the *Caviar Lake Shear Zone* on Map 1, is the most intense. The rocks here are highly schistose, and are characterized by strong chloritic and sericitic alteration. The foliation strikes at about 280° and dips steeply to the north, typical with foliations elsewhere on the property. The Caviar Lake Shear Zone is at least 250 metres wide, but due to the onset of winter weather conditions its full extent could not be determined.

The *Fourth Shear Zone* occurs between the Caviar Lake and the Gauthier Shear Zones, and is approximately 300 metres in width along the west shore of Caviar Lake. It is also characterized by strongly foliated, locally schistose mafic to intermediate volcanic rocks with strong chlorite, sericite, and lesser ankerite alteration. A grab sample of strongly altered basalt taken from a shoreline exposure of this shear returned a grade of 0.095 g Au/t.

The *Fifth Shear Zone* strikes across the property in a northwest direction, just north of the PCDZ, and likely developed as a secondary splay off it. Its width varies from 200 metres along the east shore of Dogpaw Lake to about 330 metres along the west shore of Caviar Lake. The northern boundary of this shear zone corresponds with a sharp break in the area of high magnetic susceptibility. Intense sericite and chlorite alteration characterizes this shear.

The *Sewell Shear* (see Map 1) crosses the Dogpaw Lake Property south of the PCDZ and extends into the vicinity of the historic Sewell Occurrence, which reportedly grades up to 23.81 g Au/t. The lower limit of intense shearing generally follows the contact between a mafic to intermediate tuff unit to the north and locally pillowed basalt to the south. The basalt exposures exhibit a weak foliation, whereas the tuff unit is strongly foliated and characterized by moderate to strong chloritic and sericitic alteration.

The six shear zones discussed above represent major zones of deformation and are favourable targets for the discovery of shear hosted lode gold deposits. Several less pronounced structural breaks, along which potentially gold bearing hydrothermal fluids would have been preferentially channelled, are inferred from the ground magnetic data.

8.0 Discussion

Geological mapping has delineated six major northwest trending shear zones on the Dogpaw Lake Property, all of which represent potential hosts for high grade gold mineralization. At the historic Gauthier Occurrence, gold mineralization occurs within discrete sericite-ankerite shears, usually in association with quartz-ankerite veins. Historic gold grades obtained from the occurrence are quite variable, and some of the extremely elevated values (111.98 g/t) may reflect a “nugget effect” in these samples. However, grab samples grading up to 1.46 g Au/t that were taken during the current program do verify the presence of anomalous gold mineralization at this showing, and further work is warranted.

FTM Resources trenched two areas in the northwestern portion of the property (see Map 1) approximately one kilometre southeast along strike from the Gauthier Occurrence during the mid-1980's. Reported gold values from these trenches include 1.59 g/t and 1.91 g/t. During the current mapping program, the northernmost of these trenches was located and resampled. Sheared basalt and quartz-ankerite veins up to 15 centimetres wide are exposed in the trench. Up to 5% disseminated pyrite occurs within the quartz-ankerite veins and up to 15% within the altered wallrock, but limited sampling yielded low assay results. These trenches are situated along a strong, northwest trending magnetic low near the inferred contact between altered mafic volcanic rocks and the main gabbroic unit.

Several intensely altered zones (*Zones A to E*, Map 1), four of which occur within 150 metres of the Gauthier Shear Zone, were identified during the mapping program. These zones of intense ankerite, silica, and albite alteration represent structural breaks along which potentially gold-bearing fluids preferentially migrated. Exposures are limited by thick overburden, but Zone E, located on line 22+00E, was traced over a width of 15 metres. Limited sampling of these zones yielded low gold assays. However, with regard to alteration style and structural setting, these zones are very similar to Avalon's Shaft Zone, located less than two kilometres south of the Dogpaw Lake Property. At the Shaft Zone, gold grades often increase significantly with depth from the surface trench. Therefore, the altered zones on the Dogpaw Lake Property may also contain gold mineralization at depth or along strike.

In general, rock sampling results from the current program are somewhat enigmatic in that some veins and shear zones carry anomalous gold mineralization, while other essentially identical shears and veins are barren. Previous work indicates that the most significant gold mineralization in the Dogpaw Lake area is usually hosted by quartz-carbonate veins within altered shear zones, such as at the historic Flint Lake Mine (Burwash, 1933). At the Cameron Lake deposit, the highest grade gold mineralization occurs in association with quartz-carbonate-albite breccia veins that developed in response to high pore fluid pressures and/or high differential stresses (Melling et al., 1986). These veins post-date an early set of buckled, quartz-carbonate extensional veins but pre-date a later set of unbuckled quartz-carbonate veins. Neither set of extensional veins contains significant gold mineralization.

On the Dogpaw Lake Property, detailed structural mapping and sampling is required to identify different generations of quartz veining and to determine the local controls on gold mineralization. At present, the highest potential for the discovery of a shear hosted gold deposit occurs at the historic Gauthier Occurrence, located in the northwestern portion of the property. Further exploration should focus on the six major shear zones discussed above, particularly the Gauthier Shear Zone, along which several zones of intense hydrothermal alteration/replacement were identified. Lithological contacts also represent potential sites for gold deposition, particularly the contact between the large gabbroic unit and the surrounding volcanic rocks. Historic sampling from trenches near the western margin of the gabbro produced assays including 1.76 g Au/t and 1.91 g Au/t.

9.0 Conclusions and Recommendations

Results of the Phase I program indicate that the Dogpaw Lake Property has potential to contain shear hosted lode gold mineralization along several northwest trending structures. Six major shear zones, including the regional PCDZ, were identified along with numerous other smaller scale structural breaks inferred from the ground magnetometer survey. These shear zones, up to 600 metres wide, are characterized by strong sericite, chlorite, and lesser carbonate alteration, along with frequent quartz-ankerite veining. These shear zones are similar in alteration, mineralization, and structural style to known gold bearing structures in the Dogpaw Lake area, including the Flint Lake Shear Zone, which hosts an estimated gold deposit of 253,000 t grading 0.24 opt at the Shaft Zone on Avalon's Dubenski Property.

Further exploration on the Dogpaw Lake Property should be concentrated along the major shear zones identified during the Phase I program. Given the somewhat enigmatic nature of gold mineralization within these shears, it is recommended that an induced polarization (IP)/resistivity survey be carried out over select areas and used in conjunction with a soil geochemistry survey in order to generate specific targets for follow-up work.

It is recommended that the proposed IP/resistivity survey be carried out along the Gauthier Shear Zone, particularly in the vicinity of the historic Gauthier Occurrence, which is considered to be the highest priority target on the property. Any coincident resistivity and chargeability high anomalies that are identified from this survey would represent the most

favourable targets for further exploration and drilling. Four of the five intensely altered zones (Zones A to D, Map 1) discovered during the mapping program occur within 150 metres of the Gauthier Shear, and should be included in the area covered by the survey.

It is also recommended that a soil geochemistry survey be carried out over as much of the property as possible, especially along the identified shear zones. Mobile Metal Ion (MMI) analysis of soil samples has been very successful in identifying anomalous gold mineralization on nearby properties. Soil geochemistry data would be especially useful in the vicinity of the PCDZ in the southern portion of the Dogpaw Lake Property, where overburden limits the outcrop exposure of the regional structure.

Fill-in linecutting and a ground magnetometer survey should be completed along lines 10+00E and 12+00E, since this represents a priority area for continued exploration. The linecutting is also necessary to facilitate the proposed IP/resistivity survey. Additional linecutting will also be necessary to perform the proposed IP/resistivity survey in the vicinity of the Gauthier Occurrence. A 500 metre diamond drilling program is recommended to test high priority targets. The proposed budget for this work is as follows.

Proposed Budget:

Mob/Demob	\$2,500
Linecutting/Grid Extension (6 km @ \$350/km)	\$2,100
Fill-In Ground Magnetics (1 km @ \$100/km)	\$100
Geological Mapping (6 days @ \$400/day)	\$2,400
Prospecting (3 days @ \$400/day)	\$1,200
Induced Polarization/Resistivity Survey (8 km @ \$1,500/km)	\$12,000
Soil Geochemistry Survey	\$10,000
Diamond Drilling (500 metres @ \$120/metre, all incl.)	\$60,000
Support	\$10,000
Report and Administration	\$8,500
Contingency	<u>\$2,575</u>
Total	\$111,375

Bibliography

- Buck, S., 1988. Structural and Metallogenic Studies in the Flint-Cameron Lakes Area, District of Kenora. Ontario Geological Survey OFR 5682.
- Burwash, E.M., 1933. Geology of the Kagaki Lake Area in Ontario Department of Mines Vol. 42, Pt. 4, pgs.41-92. Accompanied by Maps 42b and 42c, scale 1 inch to 1 mile.
- Campbell, I., 1997. Summary Report on the Dogpaw Lake Property. Starcore Resources Ltd. Internal Report.
- Davies, J.C. and J.A. Morin, 1976. Geology of the Cedartree Lake Area, District of Kenora. Geoscience Report 134.
- Holbrooke, G.L., 1945a. Report on the Gauthier Claim Group, Dogpaw Lake Area; unpublished report for Sylvanite Gold Mines Ltd., Resident Geologist's Files, Ontario Ministry of Natural Resources, Kenora.
- Melling, D.R., 1989. The Geological Setting and Distribution of Gold in the Cameron Lake-Rowan Lakes Area, District of Kenora, with Emphasis on the Monte Cristo and Victor Island Prospects. Ontario Geological Survey, OFR 5713.
- Ministry of Northern Development and Mines, Assessment Files, Kenora, Ontario.
- Thompson, R., 1945b. Report on the A. Gauthier Claim Group, Dogpaw Lake; unpublished report for Ontario Department of Mines, Resident Geologist's Files, Ontario Ministry of Natural Resources, Kenora.

Statement of Expenditures

Linecutting (73 km @ \$260/km average over ice and land grid)	\$18,980
Ground Magnetometer Survey (60 km @ \$90/km)	\$5,400
Geological Mapping (28 days @ \$200/day)	\$5,600
Sample Analysis (99 samples @ \$15/sample)	\$1,485
Supplies and Equipment	\$350
Mobilization/Demobilization	\$800
Boat and Vehicle Rental + Gas	\$950
Accommodations and Meals	\$2,520
Supervision and Report	\$2,500
Total Expenditures	\$38,585

STATEMENT OF QUALIFICATIONS

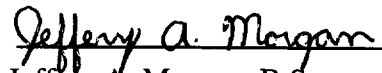
I, Jeffery A. Morgan, of 158 Inglewood Crescent, Thunder Bay, Ontario, hereby certify:

I am a graduate of Memorial University of Newfoundland and hold a Bachelor of Science (Honours) Degree in Geology, 1996.

I have been employed on a contractual basis as an exploration geologist with three mining and exploration companies during the past 2 years.

I have been employed for the past year as a geologist with Avalon Ventures Ltd. of 851 Field Street, Thunder Bay, Ontario.

Dated in Thunder Bay, Ontario this 14th day of May, 1998.


Jeffery A. Morgan, B.Sc.

Appendix I
Certificates of Analysis
(Rock Samples)



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: AVALON VENTURES LTD.

777 RED RIVER RD.
THUNDER BAY, ON
P7B 1J9

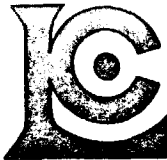
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Page Number : 1
Total Pages : 1
Certificate Date: 04-NOV-97
Invoice No. : 19748292
P.O. Number :
Account : OPJ

CERTIFICATE OF ANALYSIS A9748292

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CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: AVALON VENTURES LTD.

777 RED RIVER RD.
THUNDER BAY, ON
P7B 1J9

Project : 527
Comments: ATTN: IAN CAMPBELL CC: DON BUBAR

Page Number : 1
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P.O. Number :
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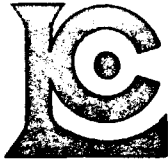
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CERTIFICATION: _____

[Handwritten signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: AVALON VENTURES LTD.

777 RED RIVER RD.
THUNDER BAY, ON
P7B 1J9

Project : 527
Comments: ATTN: IAN CAMPBELL CC: DON BUBAR

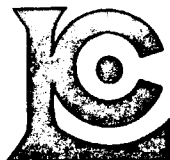
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CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: AVALON VENTURES LTD.

777 RED RIVER RD.
THUNDER BAY, ON
P7B 1J9

Project : 527
Comments: ATTN: IAN CAMPBELL CC: DON BUBAR

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CERTIFICATION: _____



52F05SW2003 2.18511 DOGPAW LAKE 900

of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Act, you may review the assessment work and correspond with the mining land holder. For more information, contact the Assessment Recorder, Ministry of Northern Development and Mines, 6th Floor,

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240.
 - Please type or print in ink.

2.18511

1. Recorded holder(s) (Attach a list if necessary)

Name <i>Kenneth Fenwick</i>	Client Number <i>300118</i>
Address <i>84 Velve Street</i>	Telephone Number <i>807-344-6568</i>
<i>Thunder Bay, ON P7A 6N5</i>	Fax Number <i>807-345-0916</i>
Name <i>James Bond II</i>	Client Number <i>109716</i>
Address <i>P.O. Box 948</i>	Telephone Number <i>304-436-6444</i>
<i>Welch, West Virginia 24801</i>	Fax Number <i>304-436-3902</i>

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.
 Geotechnical: prospecting, surveys, assays and work under section 18 (regs)
 Physical: drilling, stripping, trenching and associated assays
 Rehabilitation

Work Type <i>Linecutting, ground magnetometer survey, geology, rock sampling</i>	Office Use
	Commodity
	Total \$ Value of Work Claimed <i>38,585.00</i>
Dates Work Performed From <i>01 03 97</i> To <i>24 12 97</i>	NTS Reference
Global Positioning System Data (if available)	Mining Division <i>Kemora</i>
Township/Area <i>Dogpaw Lake Area</i>	Resident Geologist District <i>Kemora</i>
M or G-Plan Number <i>G-2613</i>	

Please remember to:

- obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name <i>Avalon Ventures Ltd.</i>	Telephone Number <i>807-346-0404</i>
Address <i>851 Field Street</i>	Fax Number <i>807-346-4233</i>
Name <i>Thunder Bay, ON P7B 6B6</i>	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

RECEIVED
 MAY 22 1998
3:39 pm GB
 GEOSCIENCE ASSESSMENT OFFICE

RECORDED
 MAY 22 1998

4. Certification by Recorded Holder or Agent

 I, *Karen Rees* (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent <i>Karen Rees</i>	Date <i>12 May, 1998</i>
Agent's Address <i>851 Field St. Thunder Bay, ON P7B 6B6</i>	Telephone Number <i>807-346-0404</i>
	Fax Number <i>807-346-4233</i>

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

W-9810-00095

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.		Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg	TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg	1234567	12	0	\$24,000	0	0
eg	1234568	2	\$ 8,892	\$ 4,000	0	\$4,892
1	K 1178864	14	4,600	5,600	0	0
2	K 1178865	16	2,000	6,400	0	0
3	K 1215707	16	10,535	6,400	2,000	2,135
4	K 1215785	15	10,200	6,000	1,000	3,200
5	K 1215786	16	11,250	6,400	2,400	2,450
6						
7						
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2.18511



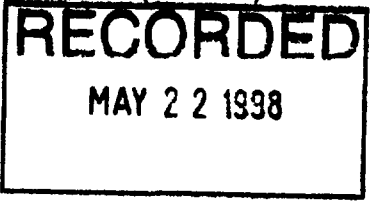
I, Karen Rees (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: Karen Rees Date: 12 May 1998

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):



Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work <small>Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.</small>	Cost Per Unit of work	Total Cost
Linecutting	73 km	avg. \$260/km	18,980
Mag survey	60 km	avg. \$90/km	5,400
Geology	28 days	\$200/day	5,600
Rock assays	99 samples	\$15/sample	1,485
Supervision and Report	10 days	avg. \$250/day	2,500
2.18511			
Associated Costs (e.g. supplies, mobilization and demobilization).			
	Supplies and Equipment		350
	Mob/Demob time	\$200/mday	800
Transportation Costs			
	Boat: Vehicle rental/gas		950
Food and Lodging Costs			
			2,520
Total Value of Assessment Work			38,585

RECORDED
MAY 22 1998

RECEIVED
MAY 22 1998
3:39 PM
GEOSCIENCE DEPARTMENT
OFFICE

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK x 0.50 = Total \$ value of worked claimed.

Note:

- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, Karen Rees (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as agent I am authorized (recorded holder, agent, or state company position with signing authority) to make this certification.

Signature: Karen Rees Date: 12 May 1998

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9846
Fax: (705) 670-5881

August 14, 1998

KENNETH GEORGE FENWICK
84 VELVA AVENUE
THUNDER BAY, ONTARIO
P7A-6N5

Visit our website at:
www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Dear Sir or Madam:

Submission Number: 2.18511

Status

Subject: Transaction Number(s): W9810.00095 Deemed Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. **WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.**

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Bruce Gates by e-mail at gatesb2@epo.gov.on.ca or by telephone at (705) 670-5856.

Yours sincerely,



ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Work Report Assessment Results

Submission Number: 2.18511

Date Correspondence Sent: August 14, 1998

Assessor: Bruce Gates

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9810.00095	1178864	DOGPAW LAKE	Deemed Approval	August 13, 1998

Section:

12 Geological GEOL

14 Geophysical MAG

Correspondence to:

Resident Geologist
Kenora, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

Karen Rees
THUNDER BAY, ONTARIO, CANADA

KENNETH GEORGE FENWICK
THUNDER BAY, ONTARIO

JAMES EDWARD II BOND
WELCH, WEST VIRGI

G-5E13

DOGPAW LAKE

G-5E13

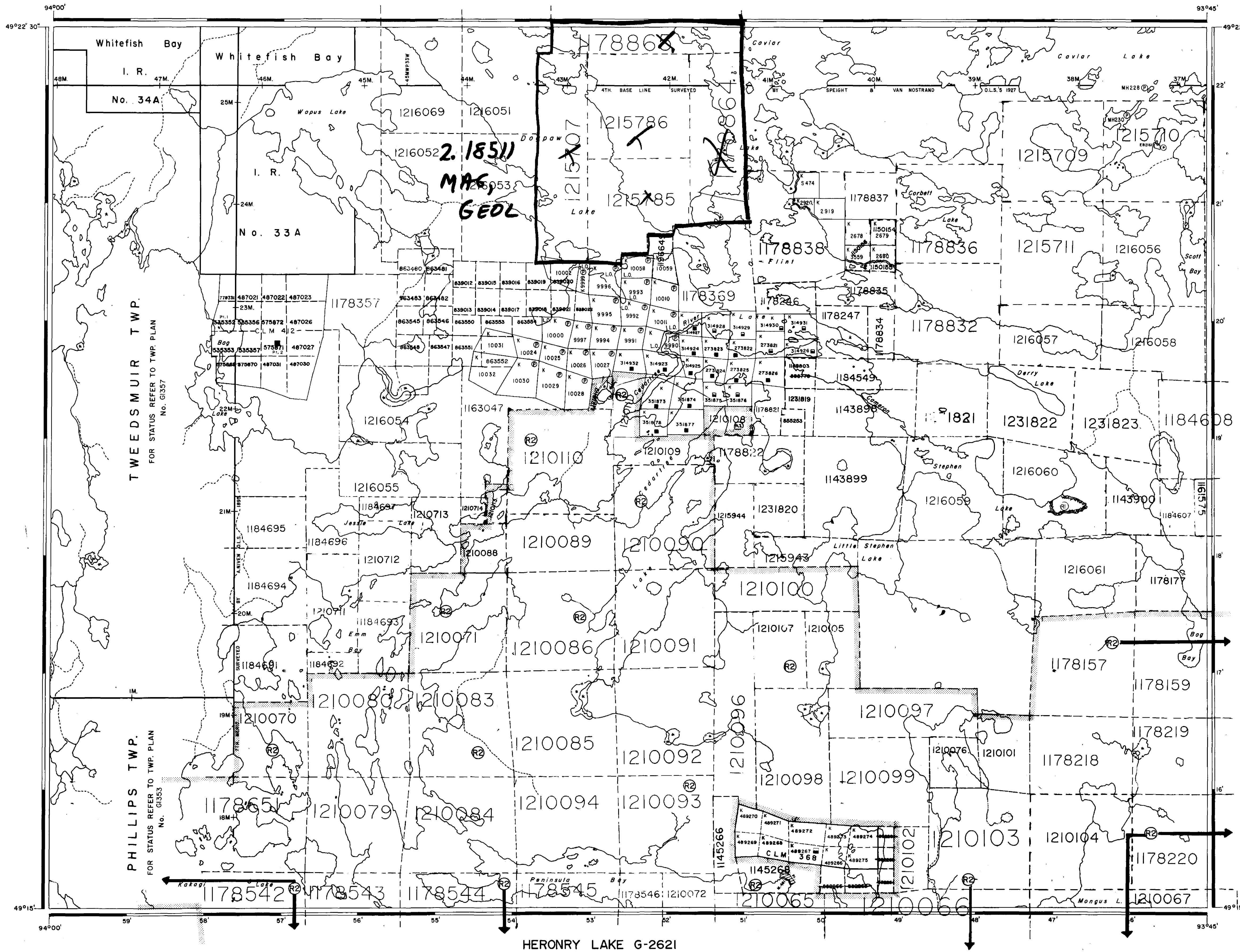
G-5E13

DOGPAW LAKE

G-5E13

TRIM LINE

LOBSTICK BAY G-2627



LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

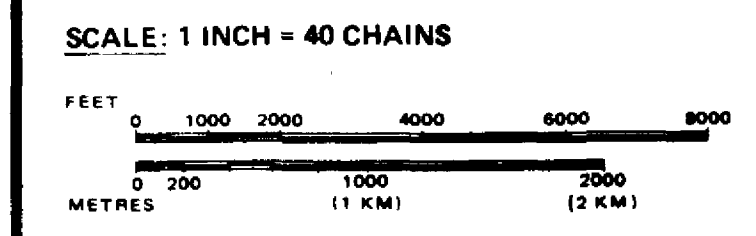
DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER-IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 8, 1912, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 360, SEC. 43, SUBSEC. 1.

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION				
M.R.O. - MINING RIGHTS ONLY				
S.R.O. - SURFACE RIGHTS ONLY				
M.+S. - MINING AND SURFACE RIGHTS				
Description	Order No.	Date	Disposition	File
(32)	W-20/82	mar 1/72	m 8 s	162473
(32)	SEC.35	W-K-25/98	30/06/98	MBS 195150



AREA
DOGPAW LAKE

M.N.R. ADMINISTRATIVE DISTRICT
KENORA

MINING DIVISION
KENORA

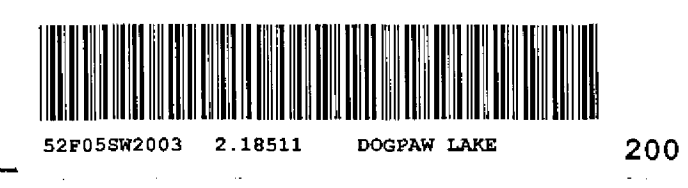
LAND TITLES / REGISTRY DIVISION
KENORA

Ministry of Natural Resources
Ontario Land Management Branch

Date: JANUARY, 1984
Number: **G-2613**

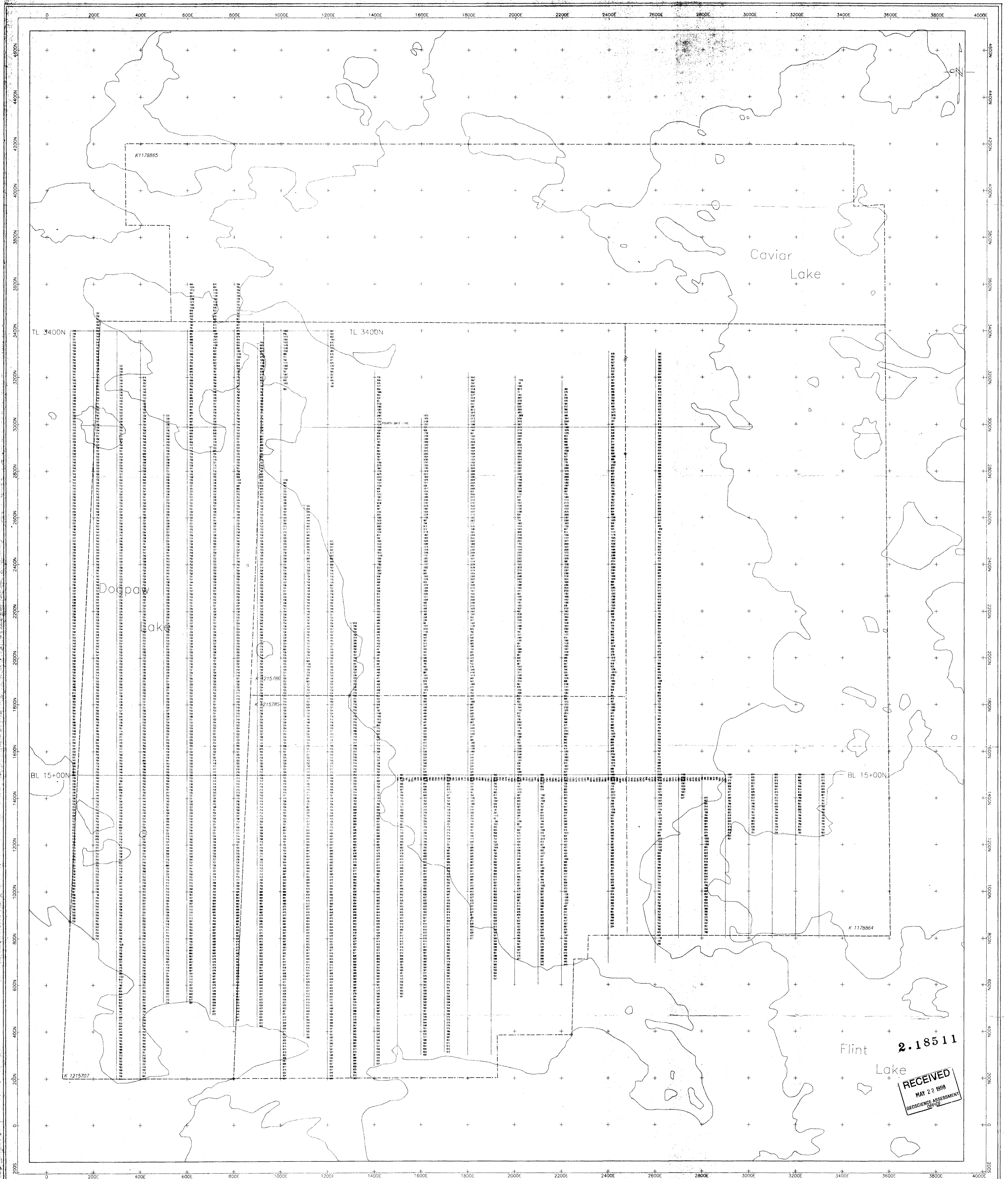
THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

MINING DIVISION
EFFECTIVE:
JUL 11 1994
AM 789 10 11 12 123 456

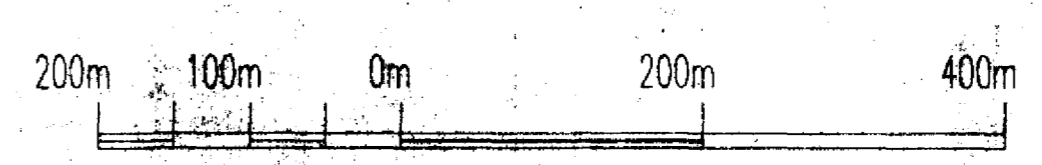


TRIM LINE

493934

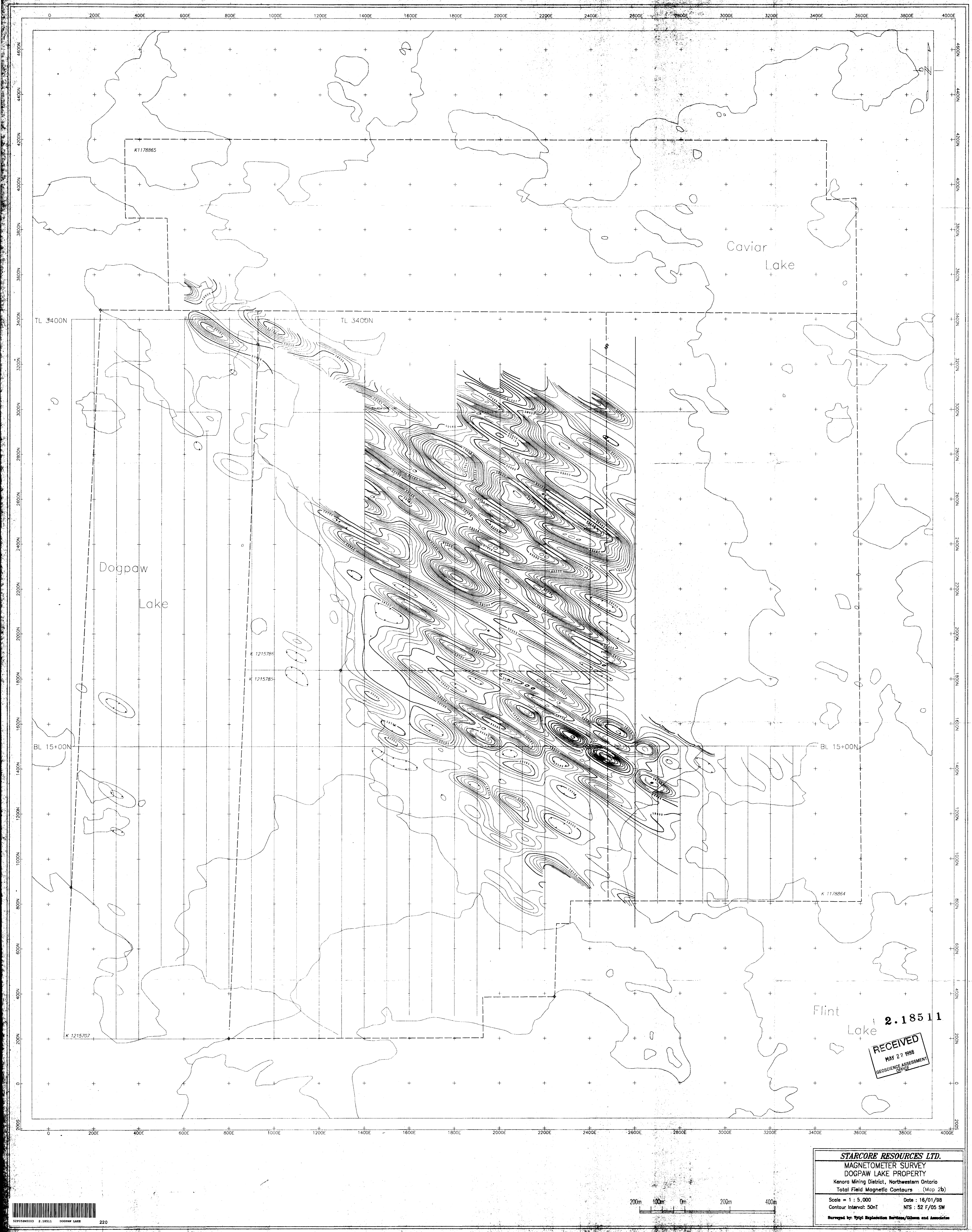


2.18511
RECEIVED
 MAY 22 1998
 GEOSCIENCE ASSESSMENT
 OFFICE



STARCORE RESOURCES LTD.
 MAGNETOMETER SURVEY
 DOGPAW LAKE PROPERTY
 Kenora Mining District, Northwestern Ontario
 Total Field Postings (Map 2a)

Scale = 1 : 5,000 Date : 16/01/98
 Base Removed: 58,000 mT NTS : S2 F/05 SW
 Surveyed by: Vytjil Exploration Services/Gibson and Associates



K 1178865

Caviar Lake

TL 3400N

TL 3400N

Dogpaw Lake

K 1215786

K 1215785

BL 15+00N

BL 15+00N

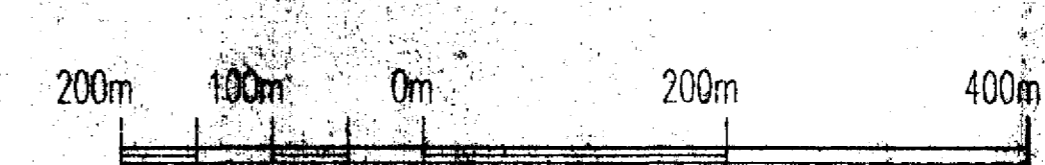
K 1215707

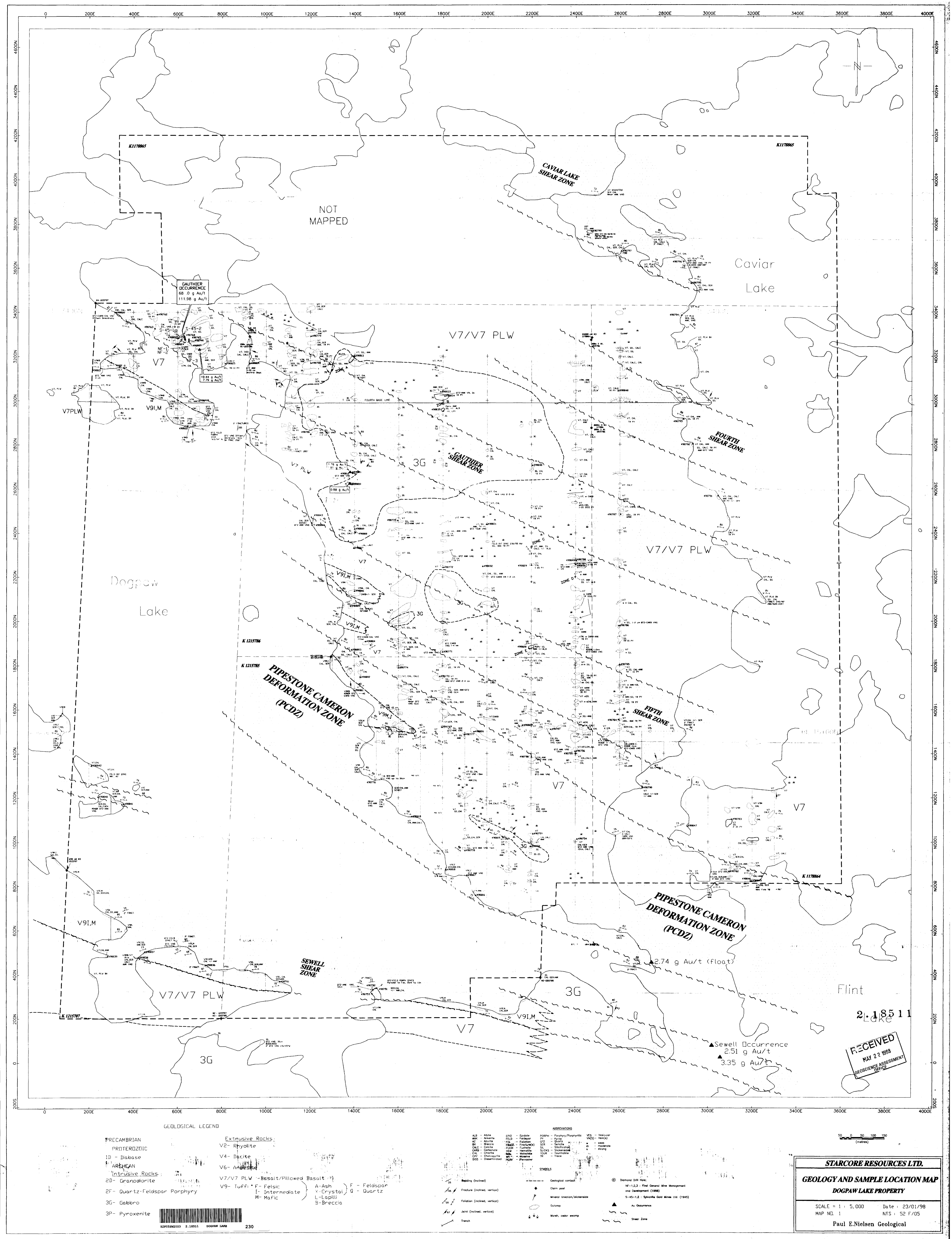
K 1178864

Flint Lake 2.18511

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MAY 27 1998
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STARCORE RESOURCES LTD.
MAGNETOMETER SURVEY
DOGPAW LAKE PROPERTY
Kenora Mining District, Northwestern Ontario
Total Field Magnetic Contours (Map 2b)
Scale = 1 : 5,000 Date : 16/01/98
Contour Interval: 50nT NTS : 52 F/05 SW
Surveyed by: Tysti Exploration Services/Alison and Associates





GEOLOGICAL LEGEND

PRECAMBRIAN	Extrusive Rocks:
PROTEROZOIC	V2- Rhyolite
1D - Diabase	V4- Dacite
ARCHEAN	V6- Andesite
Intrusive Rocks:	V7/V7 PLW - Basalt/Pillowed Basalt
2D- Granodiorite	V9- Tuff: F - Felsic
2F- Quartz-feldspar Porphyry	I - Intermediate
3G- Gabbro	M - Mafic
3P- Pyroxenite	A-Ash
	F - Felsopar
	X-Crystal
	Q - Quartz
	L-Lapilli
	B-Breccia

ABBREVIATIONS

AK - Arkose	FLD - Feldspar	PPH - Porphyry/Pyrophyllite	VS - Veinlet
AL - Arkose	FLC - Feldspar	PT - Pyrite	VNS - Veinlet
AN - Andesite	FR - Felsic	SP - Spinel	W - Well
BA - Basalt	FRM - Felsic	ST - Sulfide	WV - Veinlet
CA - Calcite	FRM - Felsic	STC - Sulfide	WV - Veinlet
CB - Carbonate	FRM - Felsic	STC - Sulfide	WV - Veinlet
CH - Chlorite	FRM - Felsic	STC - Sulfide	WV - Veinlet
CR - Chlorite	FRM - Felsic	STC - Sulfide	WV - Veinlet
DI - Diabase	FRM - Felsic	STC - Sulfide	WV - Veinlet
DIS - Dissected	FRM - Felsic	STC - Sulfide	WV - Veinlet

SYMBOLS

Bedding (inclined)	Geological contact	Diamond Drill Hole
Fracture (inclined, vertical)	Dam post	MF-1,2,3 - First General Mine Management and Development (1988)
Foliation (inclined, vertical)	Mineral location/alteration	S-45-1,2 - Spenton Gold Mine Ltd (1945)
Joint (inclined, vertical)	Outcrop	Au Occurrence
Trench	Marsh, cedar swamp	Shear Zone

STARCORE RESOURCES LTD.
GEOLOGY AND SAMPLE LOCATION MAP
DOGPAW LAKE PROPERTY

SCALE = 1 : 5,000 Date: 23/01/98
 MAP NO. 1 NTS: 52 F/05
 Paul E. Nielsen Geological

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