



GEOLOGICAL, GEOCHEMICAL, AND
GEOPHYSICAL EVALUATION
of the
REDDEN OPTION
STURGEON NARROWS AREA
Patricia Mining Division
NTS 52-G/15
Latitude 50°58' North
Longitude 91°51' West
Ontario

August 21, 1987

on behalf of
ABERMIN CORPORATION
Vancouver, B.C.

by
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INTRODUCTION

This report was prepared by Taiga Consultants Ltd. on behalf of Abermin Corporation of Vancouver, British Columbia. Taiga carried out a program of geological mapping, prospecting, humus (A₁ horizon) geochemical sampling, geophysical surveying, and trench/rock chip sampling, as well as limited diamond drilling and re-logging of old drill core on the Redden Option in northwestern Ontario during the period June 1 to June 26, 1987.

Property Status

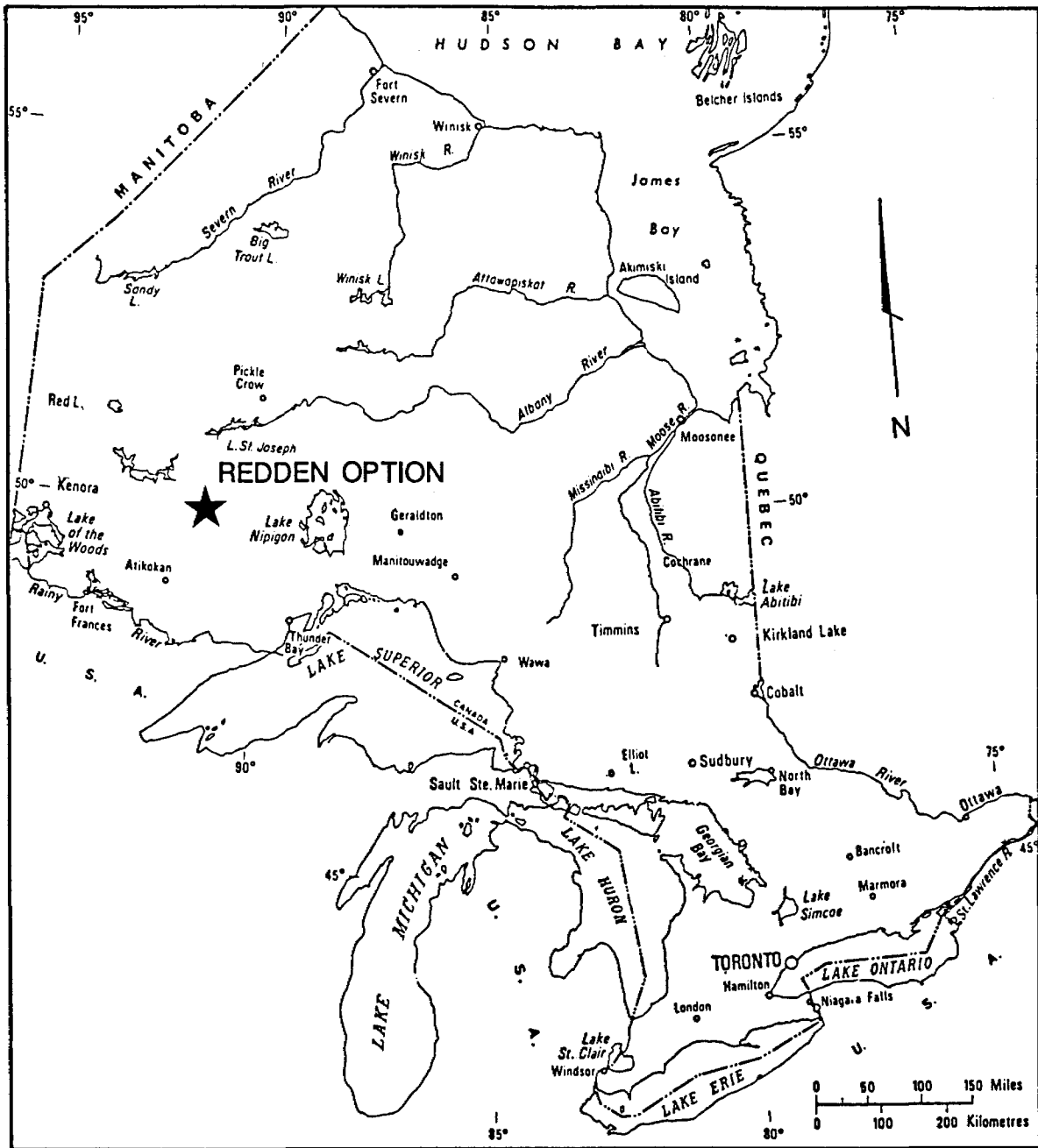
The Redden Option is located in the Patricia Mining Division of Ontario on NTS map-sheet 52-G/15 (Figures 1 and 2). The property is registered in the name of Abermin Corporation. Subject to the terms of a Property Acquisition Agreement dated February 16, 1987, the beneficial owners are W. McAtter, H. Lundmark, and J. W. Redden. The mineral claims are listed below:

<u>Claim No.</u>	<u>Date of Record</u>	<u>Claim No.</u>	<u>Date of Record</u>
PA 704623	Apr. 6, 1983	PA 815752	Sep. 18, 1984
PA 810419	Dec. 4, 1984	PA 815753	Sep. 18, 1984
PA 810420	Dec. 4, 1984	PA 815754	Sep. 18, 1984
PA 810421	Dec. 4, 1984	PA 815755	Sep. 18, 1984
PA 810422	Dec. 4, 1984	PA 815756	Sep. 18, 1984
PA 810423	Dec. 4, 1984	PA 815757	Sep. 18, 1984

Abermin has the right to earn a 100% undivided interest in the property subject to a 7.5% Net Profits Interest to be held by the vendors. The Property Acquisition Agreement sets out the following cash payments to be met by Abermin:

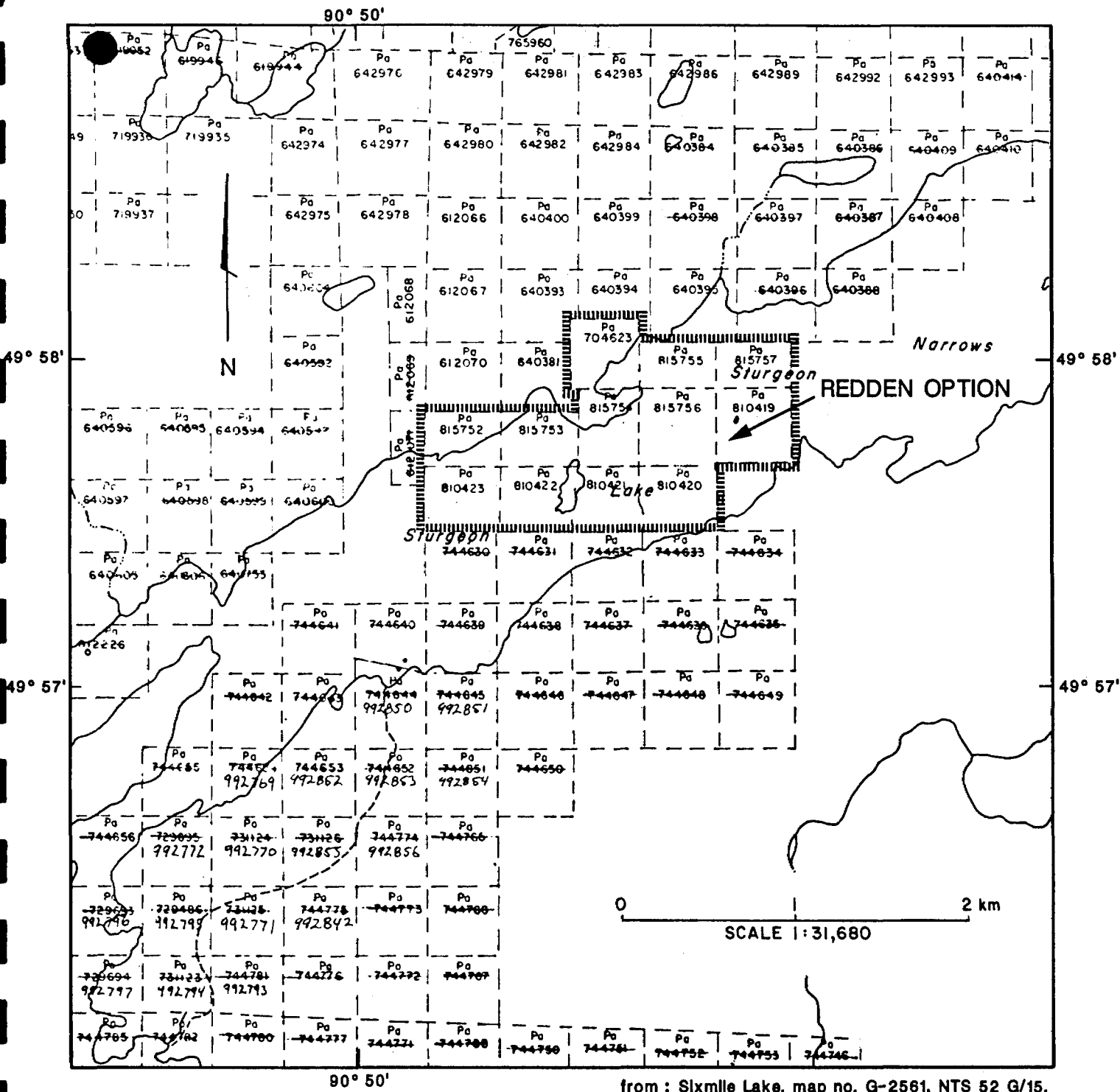
- (a) \$ 7,500 upon receipt of the extension contemplated in the Agreement;
- (b) \$15,000 on or before March 1, 1988 ("First Anniversary Date");
- (c) \$30,000 on or before March 1, 1989 ("Second Anniversary Date");
- (d) \$60,000 on or before March 1, 1990 ("Third Anniversary Date")

Claim PA 704623 was due to expire April 6, 1987, but an extension of time was granted by the Mining and Lands Commissioner that allows performance of deficiency of work and filing proof thereof by December 7,



LOCATION MAP
 STURGEON NARROWS PROJECT

FIGURE 1



PROPERTY MAP
STURGEON NARROWS PROJECT

FIGURE 2

1987. Claims 815752-815757 are currently on extension until June 30, 1987, and require an additional 40 days of work by September 18, 1987. Claims 810419-810423 are currently on extension to July 31, 1987, and require an additional 40 days of work by December 4, 1987.

Work assessment filed with the Mining Recorder as a result of the recent exploration program should be sufficient to hold the claims in good standing for at least one year.

Location and Access

The property is located on the west shore of Sturgeon Lake in the Sturgeon Narrows area. Most of the claims area is composed of water claims; however, portions of claims 704623, 815752, 815753, 815754, and 815756 are located on the west shore of Sturgeon Narrows. The remaining land area is comprised of two small islands in the centre of Sturgeon Narrows, covered by claims 810421, 810422, and 810419.

Access is by road 18 km south on Highway 599 from the hamlet of Savant Lake and thence via the Six Mile Lake logging road to within 100 m north of the 704623 claim boundary. The Main Showing area is located on the shore of Sturgeon Lake and is accessible by barge from numerous landings on the lake. The Mattabi Lake base metals mine, located 12 km to the southeast, is serviced by a railroad spur line.

Physiography

The land portions of the property are densely covered by mature black spruce and balsam forest interspersed by numerous small cedar swamps. Topography is characterized by low rolling hills which slope down to flat rocky shorelines. Local relief does not exceed 20 m above lake surface.

Glacial outwash and muskeg cover a significant portion of the property and so limits the amount of outcrop available for investigation. Other areas are covered by a continuous carpet of moss; however, bedrock is present at a very shallow depth below surface. Measurements indicate that the last glacial advance was from northeast to southwest.

EXPLORATION HISTORY

Sporadic prospecting for gold has been carried out in the general area since the 1890's but intensive exploration did not begin until 1900 when the St. Anthony Gold deposit was located and developed on the North Bay of Sturgeon Lake, 12 miles to the north. The mine produced 63,310 ounces of gold and 16,391 ounces of silver from a large brecciated quartz vein which crosscuts both mafic volcanics and the St. Anthony granite pluton. The gold was found in free form, associated with pyrite, chalcopyrite, sphalerite, and galena, as well as quartz, calcite, and siderite (Moore, 1911). Numerous gold occurrences dot the north arm of Sturgeon Lake. Most are associated with crosscutting quartz vein systems (Figure 3).

Mattabi Mines Limited is currently producing copper, lead, and zinc concentrates at its Mattabi base metals deposit, 12 km south of the property. Falconbridge Limited is no longer producing from its Lyon Lake base metals deposit, situated adjacent to Mattabi Mines.

Steep Rock Iron Mines discovered high-grade gold in pyritic quartz veins at King Bay, 6 km due north of the property. Drilling indicated that the gold values were very erratic in distribution, and the property has been examined by a number of different optioners since 1981.

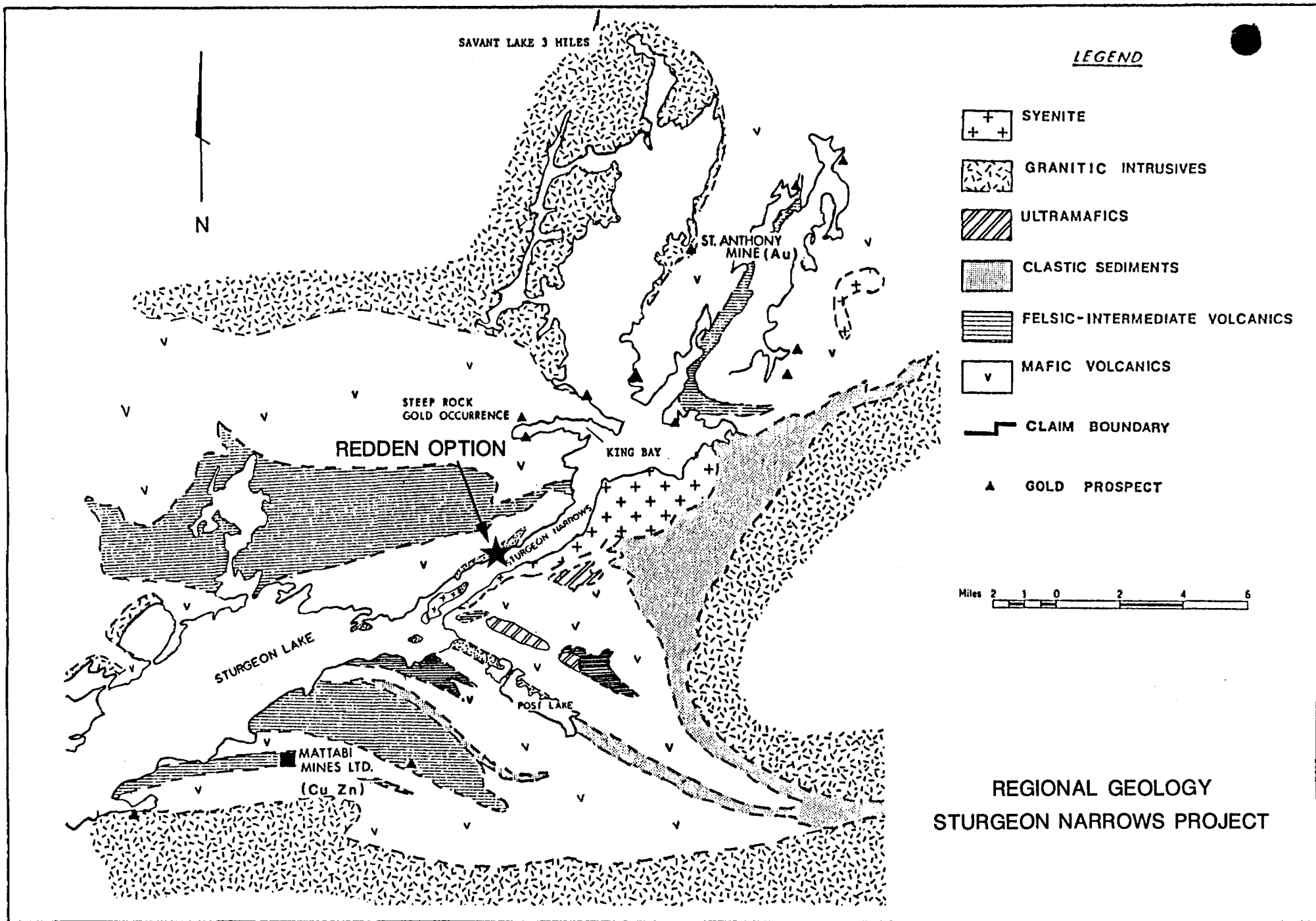


FIGURE 3

PREVIOUS WORK

The earliest work carried out on the property is reported (Redden, 1985) to have been the excavation of a number of trenches around the turn of the century over what is now the Main Showing. Redden states that the property was patented until sometime in the 1960's when it was returned to the Crown.

W. G. Wahl Ltd. (1969) carried out a ground magnetometer survey over an airborne magnetic anomaly located just off the tip of Hook Peninsula in Sturgeon Narrows. Subsequently, five diamond drill holes were completed, of which four are located within the present property. Two drill holes were completed on sites 250 m northeast and along strike of the Main Showing. Anomalous gold values of up to 0.01 oz/ton were returned from drill hole 69-4 over the interval 96.5'-103'. Two other very long drill holes were completed on the tip of Hook Peninsula. No analyses were reported in the assessment files for these two holes. The core from this drill program is stored in a cache on a sandy peninsula 1000 m southeast of the tip of Hook Peninsula on the east shore of Sturgeon Narrows. None of the core boxes retain their labelling and all of the core has been dumped on the ground (see Map 1).

Selco completed diamond drill holes 242-22 and 242-23 collared on a site just outside the boundary of PA 704623. The holes were located to investigate a strong EM conductor. The conductor was found to be caused by a barren sulphide/graphite unit. No assays were filed with the assessment documents.

In 1974, Falconbridge carried out an extensive program of line cutting and diamond drilling, followed by magnetometer, horizontal-loop EM, and I.P. surveys, which were in turn followed by trenching and geological mapping. The results of the drilling and trench sampling indicated that there are anomalous gold values over a strike length of at least 60 m within a syenite dyke which has a strike length of at least 400 m. The Wahl and Falconbridge data indicate that the syenite dyke is intermittently mineralized over a strike length of 320 m. Falconbridge filed for assessment credits on the

property in late 1974 but subsequently dropped the option. Since that time, the property has been staked several times but no significant work has been carried out.

J. W. Redden staked PA 704623 in 1983 and carried out limited overburden stripping and geological mapping.

Abermin examined the property in the fall of 1986 on two different occasions and acquired an option on the ground in February 1987. Rock samples and panned concentrates were collected from the Main Showing and analyzed for Au, As, Ag, Zn, Pb, and Cu. Three rock samples taken from the Main Showing returned values ranging from 0.325 oz/ton to 1.033 oz/ton. A small orientation grid (29 humus samples - A₁ horizon), was sited over the Main Showing and the samples were analyzed for the same suite of elements. The best response was received from gold analyses with values ranging from below the detection limit (<5 ppb) to 3700 ppb. Of these 29 values, eleven were above 100 ppb and four were above 1000 ppb.

GEOLOGICAL SETTING

The Sturgeon Lake area is located in the northern arm of the Archean Wabigoon Greenstone Belt (Breaks, Ontario Geological Survey, Map 2442). Trowell's 1983 mapping (O.G.S., Maps 2456 and 2457) forms a relatively detailed and accurate geological data base. The property is situated within a band of sediments on the northwest edge of the Central Sturgeon Lake Volcanic Cycle. Within this band, the stratigraphy consists of fine-grained argillaceous and chemical sediments, as well as fine-grained mafic tuffs, all of which are interbedded in turn with medium- and coarse-grained clastic rocks which have likely been derived from the former two rock types as local debris flows. The sequence has been intruded by a variety of syenitic and lamprophyric rocks related to the adjacent Sturgeon Narrows Alkalic Complex. Numerous small-scale, southwest striking, steeply dipping shears related to the Sturgeon Narrows Cataclastic Zone crosscut all of the rocks in the vicinity of the Narrows.

SPRING 1987 EXPLORATION PROGRAM

The spring 1987 exploration program on the Redden Option was carried out from a camp located on a spur of the Six Mile Lake logging road adjacent to the northwest boundary of claim PA 704623 (Map 1). Expediting was carried out from the town of Dryden, 150 km to the southwest. Between June 1 and June 26, 1987, a grid with cut base and tie lines (total 1.165 km) was established with hip-chained and flagged crosslines (total 5.35 km). VLF-EM, magnetometer, and humus (A₁ horizon) soil geochemical surveys were completed as well as geological mapping and prospecting. Land claims 704623, 815752, 815753, 815754, and 810422 were prospected in detail and most of the area was geologically mapped.

Over the Main Showing, five AW core size diamond drill holes (39.25 m or 128.8 feet) were completed using a J.K.S. Boyles Winkie drill. All core was logged and split with both splits being sent for analysis. Core left on site by Falconbridge (1974) was re-logged (holes J-1 to J-8) and sections were sent for analysis (holes J-6, J-7, and J-8). The W. G. Wahl (1969) core was re-located but was found to be in a disordered state and so was not re-examined in detail.

Four slumped-in trenches (total length 43.5 m) were sluiced out; new trenches (total length 22 m) were excavated by hand over the Main Showing area. Due to the extreme fire hazard, the original plan to excavate using a large backhoe on the Main Showing was not possible. Continuous rock chip samples were carried out in all open trenches and on six different sites along the northeast shore of Hook Peninsula.

The camp was demobilized on June 25 and all lumber was stacked on site.

Map 2a shows the locations of the grid, trenches, drill holes, rock sample locations, and the results of geological mapping outside the grid.

GEOLOGICAL MAPPING

Semi-detailed geological mapping was carried out along grid lines within the Sturgeon Narrows grid, and all data have been plotted at a scale of 1:1000 on Map 2b.

The stratigraphy consists of a number of polymictic conglomerate units and a thick unit of magnetite-rich argillite which grades into lean magnetite iron formation, as well as thin units of medium- to coarse-grained arkose. In general, bedding and lithological boundaries strike northeast with dips moderately to steeply northwest. A single southwest striking, large syenite dyke or sill crops out over a distance of 190 m and has an apparent width of 40 to 70 m. Also, a number of small dykes and dykelets of similar composition have been mapped at a variety of locations on the grid.

The east shore of Hook Peninsula is cut by a number of northeast trending near-vertical shear zones which are probably related to the Sturgeon Narrows Cataclastic Zone (Trowell, 1983) which is located just off-shore to the east. The zones have been strongly ankeritized and quartz veined. In some cases (CR-14), the zones have solid ankerite cores up to one metre thick.

Two small islands in the centre of the Narrows were mapped at a scale of 1:2500 (Map 1). Narrows Island is composed mostly of a variety of syenites and lamprophyre dykes intruding a section of arkose and polymictic conglomerate. The island appears to straddle the contact between the Sturgeon Narrows Alkalic Complex and the sediments of the Central Sturgeon Lake Volcanic Cycle. A small island northeast of Hook Peninsula is composed of interbedded polymictic conglomerate and bands of lean magnetite iron formation. The presence of magnetite correlates well with a linear aeromagnetic high (Map 1117G, G.S.C.) which is centered over Sturgeon Narrows. Within this linear high is a one-line magnetic high centered over a point just off the end of Hook Peninsula.

MAGNETOMETER SURVEY

A magnetometer survey was completed on the grid using a Scintrex MBS-2 base station and a GeoMetrics G826 portable proton precession magnetometer. Readings were taken at 10 m stations along grid lines with the sensor head mounted on a 2.5 m staff. All readings have been corrected for diurnal fluctuations in the earth's magnetic field. The survey has been plotted and contoured on Map 2c.

Contour lines strike generally in an east-northeast direction. Magnetic relief is quite pronounced and so data have been contoured at 100-gamma intervals.

In general, the magnetic relief reflects the distribution of mapped lithological units; however, this conclusion must be qualified. Both argillite and polymictic conglomerate show as moderate to high relief while arkose shows as low relief. However, the band of conglomerate mapped on Hook Peninsula did not contain enough magnetite to generate such a high magnetic response. This indicates that the peninsula may be underlain at depth by a magnetite-rich ultramafic such as is common in the Sturgeon Narrows area.

The main syenite dyke does not appear to have a unique magnetic signature.

VLF-EM SURVEY

A VLF-Em survey was carried out on the crosslines using station NLK (Seattle, Washington) with reading intervals of 10 m. Base and tie lines were surveyed using station NSS (Annapolis, Maryland) with reading intervals of 25 m. The results are presented in profile format on Map 2d and in contoured Fraser-filtered format on Map 2e.

VLF-EM profiles show as very shallow slopes with few cross-overs. In general, quadratures follow in-phase slopes indicating that the few weak conductors encountered are due to near-surface conductive layers, probably swamps. None of the responses appear to indicate bona fide bedrock conductors.

GEOCHEMISTRY

A total of 593 humus samples (A₁ horizon) were collected at 5 m spacing over the grid from Lies 6+50N to 11+00N. The humus was obtained from each station by stripping the organic layer back, removing the decomposed vegetation by hand, and placing the material in a large kraft paper envelope. Samples were sent to Bondar-Clegg in Vancouver for gold analysis by atomic absorption following fire assay preconcentration. Analyses are presented in Appendix I and plotted on Map 2f. Plotted values have been contoured at intervals which double every contour interval starting at 10 ppb. Sample values have been categorized in the following manner:

<u>Value Category</u>	<u>Range</u>	<u>Quantity</u>
Possibly Anomalous	<20 to < 40	19
Weakly Anomalous	<40 to < 80	10
Moderately Anomalous	<80 to <160	2
Strongly Anomalous	>160	2

Background values are considered to be those of less than 5 ppb, the limit of detection.

The best results were returned from the main showing area with a high of 440 ppb gold. Contour lines follow the outline of the main syenite dyke but anomalous values do not extend south of Line 8+75N.

A second bifurcating anomaly with values up to 220 ppb gold extends from Line 8+50N to 10+00N, between the 5+00E baseline and the syenite anomaly. The anomaly follows a band of polymictic conglomerate in an area of very thin overburden. The source of the anomaly is unknown.

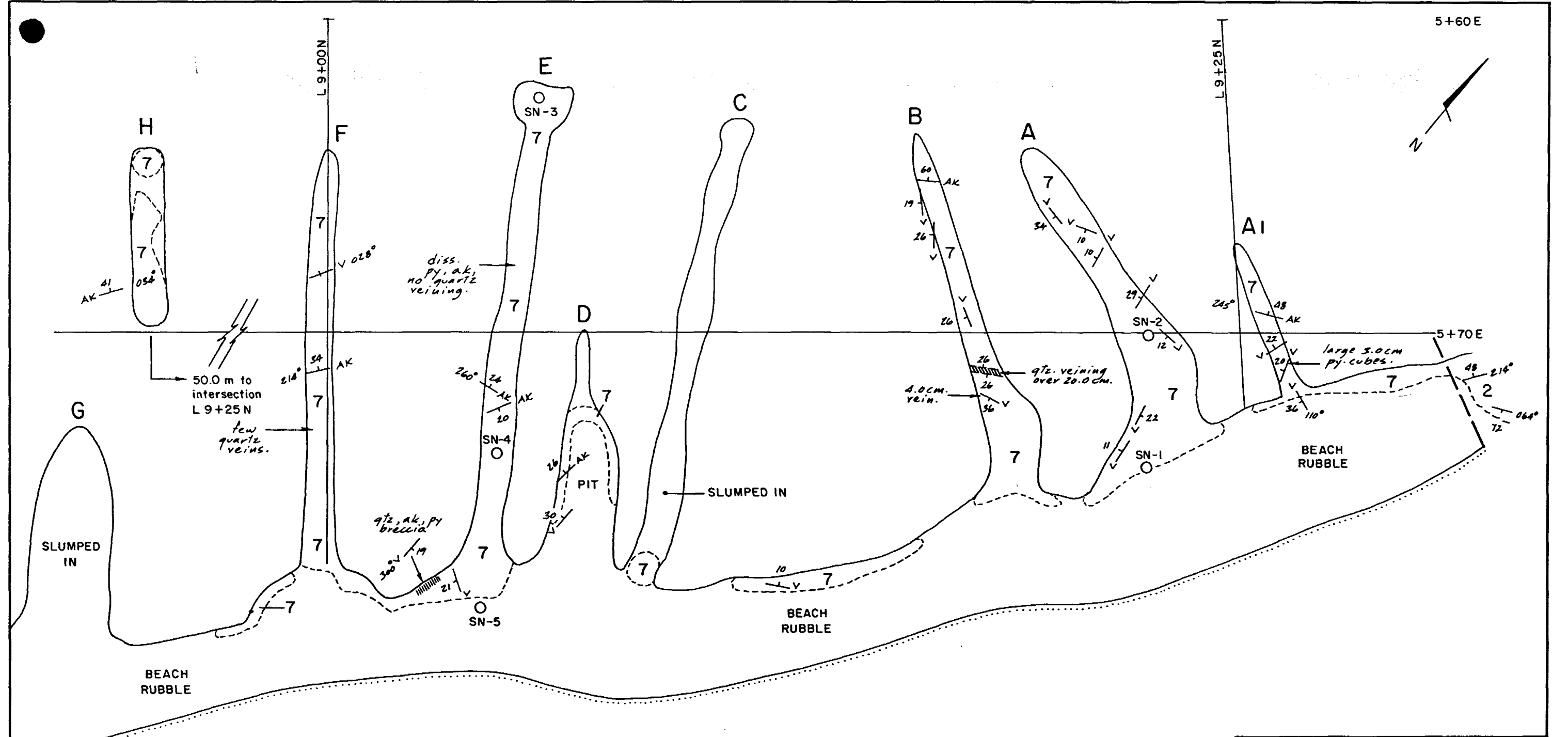
Lesser anomalies of 95 and 55 ppb were returned on Line 9+00N at 4+40E and 7+65E. The former is located in an area of swampy lowland which is underlain by thick sandy outwash deposits. The cause of the anomaly is unknown. The L.9+00N 7+65E anomaly is situated in an area of thin overburden underlain by polymictic conglomerate. The cause of the anomaly is unknown.

TRENCHING AND SAMPLING

The trenches from Falconbridge's 1974 program were re-located and found to be almost completely slumped in. Due to extreme fire hazard conditions in effect at that time in the region, Forestry officials banned all heavy equipment operations in the bush. The planned backhoe trenching program was abandoned and a hand trenching/sluicing program was completed in its place. Trenches A, B, E, and F (Figure 4a) were completely sluiced out down to bedrock. Trenches A1 and H were excavated by hand at each end of the line of trenches over the main syenite dyke. The orientations of quartz and ankerite veins in the trenches were measured and the results have been plotted on Figure 4a. In general, the orientations of veins and fractures are northeast, parallel to the Sturgeon Narrows Cataclastic Zone, or at an angle consistent with the orientation of a conjugate northwest trending shear set.

All of the open trenches were rock chip sampled over one metre intervals and the data have been plotted on Figure 4b. Values range from 5 ppb to 5800 ppb with best values coming from Trenches A1, A, and B, and portions of Trench E. Best values were returned from narrow (one to two metre wide) zones which appear to strike approximately parallel to the trend of the syenite dyke. A single zone of high values can be traced for 8.5 m from Trench A1 to Trench B. Gold values in this zone range from 1250 ppb to 5800 ppb. A second zone ranging from 1200 to 4300 ppb gold has been partially outlined on the in-shore portion of Trenches A and B. A 6 m wide zone ranging from 340 to 2400 ppb gold was partially outlined in Trench E from the beach inwards.

An attempt was made to ascertain if gold is concentrated in quartz veins or if it is disseminated throughout the syenite. Samples CR-21, CR-22, CR-23, and FR-69 are grab samples from three separate veins. Results are respectively 80 ppb, >10,000 ppb, 460 ppb, and 720 ppb gold. The indication is that gold is often concentrated in veins but is erratically distributed. Portions of Trenches E and F contained no visible quartz veins; however, values of up to 800 and 1100 ppb gold were returned from unveined samples.



Symbols

- A Trench
- Outcrop
- SN-4 Diamond drill hole
- 30°-v Trend and dip of quartz vein and veinlet.
- 24°-AK Trend and dip of ankerite veinlet.
- Geological contact

Sturgeon Lake

Geological Legend

- 7 Syenite
- 2 Sediments (feldspathized)

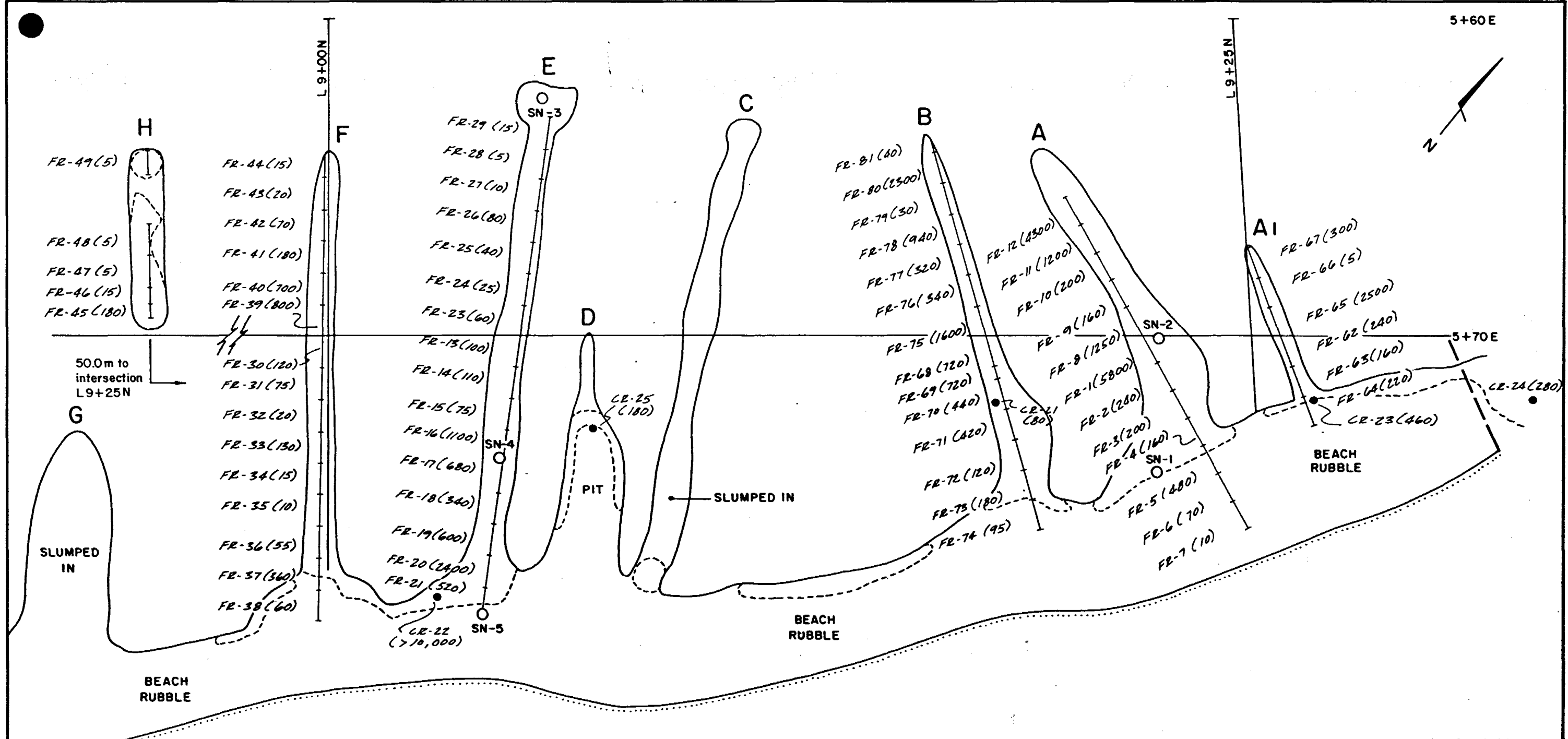
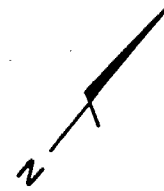
ABERMIN CORPORATION

STURGEON NARROWS PROPERTY
MAIN SHOWING -
GEOLOGY

DATE	JUNE 1987	NTS	52 G/15
PROJECT	ONT-87-2	MAPPED/ DRAWN BY	R. CHISHOLM
SCALE	1:125		

TAIGA CONSULTANTS LTD. FIG. 40

5+60E



Sturgeon Lake

Legend:

- FR-14(110)
Continuous rock chip sample.
- Grab sample.

ABERMIN CORPORATION			
STURGEON NARROWS PROPERTY			
ROCK CHIP SAMPLE LOCATIONS AND GOLD ANALYSES (in ppb)			
DATE	JUNE 1987	NTS	52 G/15
PROJECT	ONT-87-2	MAPPED/DRAWN BY	R. CHISHOLM
SCALE	1:125		
TAIGA CONSULTANTS LTD.			FIG. 4b

A careful examination of trench samples and core splits did not return any observations of visible gold. Delicate foils and films of visible gold, however, were observed in decomposed pyrite cubes and coating the interior of cavities left by weathered pyrite in samples of syenite gathered from beach rubble. Gold was observed only in those instances where the pyrite had been completely decomposed to limonite. This suggests that gold is present only as a substitute for iron in pyrite lattices. Pyrite is widespread throughout the syenite dyke as disseminations of fine- to coarse-grained blebs and cubes in quantities averaging 2% to 3%. However, the highest concentration of pyrite and the largest pyrite cubes are found erratically distributed along quartz-ankerite veins, hence the erratic gold values returned from quartz veins.

An 11 m long trench was excavated by hand over a section of the main syenite dyke, 100 m southeast of Trench H. Within the trench, a series of ten one-metre long intervals were rock chip sampled (CR-51 to CR-61) and sent for assay. Gold values were very low, within a range of 10 to 80 ppb. The dyke at this point carries up to 5% finely disseminated magnetite and only trace pyrite. A similar observation was made in the Main Showing area where magnetite and pyrite also have an antipathetic relationship. Very likely, magnetite is the primary iron accessory mineral and pyrite is a later alteration product associated with the gold mineralizing process.

A series of six northeast trending steeply dipping ankerite-quartz flooded shear zones was rock chip sampled along the northeast shore of Hook Peninsula. The zones are quite gossanous due to the weathering of ankerite and contain lesser amounts of quartz, calcite, pyrite, and rare fuchsite. Sample intervals CR-8 to CR-20 varied from one to three metres in width. A single sample (CR-14), from a one metre wide solid ankerite core of a 5 m wide zone, returned a gold value of 1150 ppb. All other samples returned gold values of 25 ppb or less.

DIAMOND DRILLING AND RE-LOGGING

Five AW size diamond drill holes (SN-1 to SN-5) were completed over the Main Showing (Figure 4a). Holes SN-1 to SN-4 were drilled in a vertical orientation and SN-5 was drilled at -60° dip at 140° azimuth. All core was split and logged in detail, and both splits were combined for assay. Core was sampled over one metre intervals or as dictated by lithological changes. For core logs and sample analyses, see Appendix II.

Gold values range from below the limit of detection (5 ppb) to a high of 540 ppb. The values correlate well with surface rock chip sampling although the tenor is somewhat lower. SN-2 was collared in Trench A over the zone which had returned values up to 5800 ppb gold from surface rock chip samples. The lower values from drill core may indicate that surface rocks have undergone supergene enrichment.

Drill core from Falconbridge's 1974 drill program was re-located and re-logged (see Appendix II). The core is generally in a good state of order and very few sections could not be recovered. Holes J-1 to J-8 were re-logged. Hole J-9 is from a site located off the property and was in a state of complete disorder; it was not re-logged. The original drill logging had picked most lithological boundaries correctly; however, the sedimentary rocks were mis-identified as volcanic tuffs and descriptions of mineralization in the syenite were very limited. An observation of visible gold in Hole J-2 (145.08 m) by Falconbridge could not be substantiated. It appears that the mineral identified is, in fact, tarnished pyrite.

The remaining splits left from the Falconbridge sampling were re-sampled at one metre intervals for holes J-6, J-7, and J-8. These analyses have been listed on the new drill logs (see Appendix II).

Gold values returned from the 1987 program ranged from below the limit of detection (5 ppb) to 3700 ppb. In general, the 1987 results are similar to Falconbridge's 1974 results, and there appears to have been no analytical problems with the original sampling.

As a general observation, the zones of maximum quartz-ankerite veining appear to be near the outer margins of the syenite dyke, especially on the east margin. Highest gold values appear to coincide with maximum alteration and veining. This correlates well with surface sampling, as the best Main Showing values occur near the shoreline over what is probably the east margin of the dyke.

CONCLUSIONS AND RECOMMENDATIONS

Detailed trenching, diamond drilling, and rock chip sampling of the Main Showing on the Redden Option has indicated that there are erratically distributed zones of auriferous, pyritic quartz-ankerite veining along the margins of a large syenite dyke. Gold is contained in medium- to coarse-grained pyrite cubes disseminated in zones and concentrated along quartz veinlets. The primary iron mineral within the syenite was likely magnetite which has been replaced by auriferous pyrite in zones of ankerite-quartz alteration. Gold values range from over 10,000 ppb in quartz veinlets at a scale of centimetres, to 1000-5000 ppb on a scale of metres. The highest grade zone returned values of 3525 ppb gold (equivalent to 0.10 oz/ton) over a 2 m interval which was traced over 10 m from Trench A₁ to Trench B. Recent sampling confirms the original results obtained by Falconbridge Nickel Mines Ltd. from their work in 1974.

Detailed rock chip sampling of six northeast trending ankerite-quartz flooded shear zones, located on Hook Peninsula, returned a single gold value of 1150 ppb. The sample is from a one metre wide solid ankerite core of a 5 m wide shear zone which is probably related to the Sturgeon Narrows Cataclastic Zone.

Detailed geochemical (A₁ horizon) sampling over the area surrounding the original showing did not extend the mineralization beyond known limits over the syenite dyke. The survey did, however, outline several multi-point anomalies with gold analyses up to 220 ppb. The sources of which have not yet been found.

It is recommended that the following geochemical anomalies be re-sampled for verification and the surrounding area be sampled in detail to further define the anomalies:

Grid Coordinates	Gold Value	Underlying Rock Type
9+00N 5+00E	220 ppb	polymictic conglomerate
8+75N 5+25E	150 ppb	polymictic conglomerate
9+00N 7+65E	55 ppb	polymictic conglomerate

An attempt should be made to trace these anomalies to a bedrock source.

In the event that no further positive results are obtained from follow-up work, the property option should be dropped and the property returned to its vendors.

CERTIFICATE

I, Robin E. Chisholm, of 231 - 18th Avenue N.E. in the City of Calgary in the Province of Alberta, do hereby certify that:

1. I am a Consulting Geologist with the firm of Taiga Consultants Ltd. with offices at Suite 100, 1300 - 8th Street S.W., Calgary, Alberta.
2. I am a graduate of Carleton University, B.Sc. (Hons.) in Geology (1977), and have practised my profession continuously since that time.
3. I have been engaged in mineral exploration and property development work in the Northwest Territories, Ontario, Saskatchewan, British Columbia, and elsewhere in Canada. I was also engaged in mineral exploration in Niger, Africa; and Algeria, Africa.

Between 1975 and 1985, I have held responsible positions with Uranerz Exploration and Mining, Pan Ocean Oil Ltd., Aberford Resources Ltd., GML Minerals Consulting Ltd., and B.P. Canada Ltd.

4. I am a Fellow in good standing of the Geological Association of Canada.
5. I am the author of the report entitled "Geological, Geochemical, and Geophysical Evaluation of the REDDEN OPTION, Sturgeon Narrows Area, Patricia Mining Division, Ontario", dated August 21, 1987. I directly supervised the work described therein.
6. I do not own or expect to receive any interest (direct, indirect, or contingent) in the property described herein nor in the securities of ABERMIN CORPORATION, in respect of services rendered in the preparation of this report.

DATED at Calgary, Alberta, this 21st day of August, A.D. 1987.

Respectfully submitted,

PERMIT TO PRACTICE TAIGA CONSULTANTS LTD.	
Signature	<i>Robin E. Chisholm</i>
Date	<i>August 28, 1987</i>
PERMIT NUMBER: P 2399	
The Association of Professional Engineers, Geologists and Geophysicists of Alberta	

Robin E. Chisholm
R. E. Chisholm, B.Sc., F.GAC

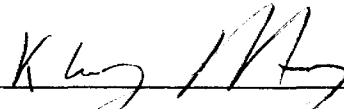
In the Matter of the MINING ACT of Ontario

AFFIDAVIT

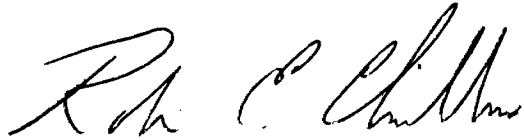
I, Robin E. Chisholm, of the City Calgary in the Province of Alberta, Geologist, make oath and say that:

1. I did visit the property hereinafter described and did supervise the work carried out thereon and as such have personal knowledge of the matters hereinafter deposed to except where stated to be based on information and belief.
2. as a result of mining exploration work completed on claims Pa 704623, Pa 815754, and Pa 815755, \$7,238.52 was expended on analyses and assays of soil and rock samples collected on the above claims.
3. \$150.00 per day is a fair market price for the rental of a J.K.S. Boyles Winkie drill.
4. \$50.00 per day is a fair market price for the rental of a WA-20 Honda pump and accessories.
5. the five Report of Work forms filed by me on August 28, 1987, re: the Redden Option located at Sturgeon Narrows, represent an accurate description of the work carried out on the claims indicated within each form.
6. I make this Affidavit for the ^{re. km} ~~purpose~~ ^{ur} of compliance with Chapter 268, Section 77, Sub-Section 18 pursuant to the MINING ACT of Ontario.

SWORN BEFORE ME at the City of)
 Calgary in the Province of Alberta,)
 this 28th day of August, A.D. 1987)



 K. Lynn Meyer
 Notary Public



 Robin E. Chisholm, F.GAC

BIBLIOGRAPHY

Breaks, T.W. (1979): Sioux Lookout - Armstrong Sheet, Ontario; Ont.Geol. Surv., Compilation Series Map 2442, scale 1:253,440.

Geological Survey of Canada:

- Aeromagnetic Map 1117G, Bell Lake, NTS 52-G/15.

Moore, E.S. (1911): The Sturgeon Lake Gold Field, Thunder Bay District, Ontario; Ont.Bur.of Mines, Ann.Rpt.1911; Vol.20, Pt.1, pp.133-157 (with Colmap 20B).

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Redden, J.W. (1984): Report on Mining Claim Pa 704623, Patricia Mining Division; private report.

----- 1985: Report on the Sturgeon Narrows Property (Pa 704623, Pa 810419-810423, Pa 815752-815757), Patricia Mining Division; private report.

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Trowell N.F. (1983): Geology of the Sturgeon Lake Area, Districts of Thunder Bay and Kenora; Ont.Geol.Surv., Rpt.221, with Maps 2456,2457,2458.

Ontario assessment files:Report

W. G. Wahl Ltd.

1969	Report on Geophysical Survey, Sturgeon Narrows, Sheet M2877	_____
1969	Diamond Drill Holes 69-1, 69-2	81
1969	Diamond Drill Holes 69-3, 69-4, 69-5	83
1971	Diamond Drill Holes 242-22, 242-23; <u>for</u> Selco	341

G. Meyer; for Falconbridge Nickel Mines Limited

1974	Option of S.C. Johnson Gold Prospect, Project 677	_____
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A P P E N D I X I

Gold Analyses and Analytical Techniques

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
Canada V7P 2K1
Phone: (604) 981-1111
Telex: 04-35266



BONDAR-CLEGG

**Certificate
of Analysis**

REPORT: 427-4053 (COMPLETE)

REFERENCE INFO: SHIPMENT #1

CLIENT: ABERMIN CORPORATION
PROJECT: ONT-87-2

SUBMITTED BY: R. CHISHOLM
DATE PRINTED: 23-JUN-87

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	9	0.001 OPT		

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BED ROCK	7	2 -150	9	ASSAY PREP	7
C CONCENTRATE (PAN/HM)	2			PULVERIZING	2

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MR. R. CHISHOLM

INVOICE TO: MR. B. SMEE

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Certificate
of Analysis

REPORT: 427-4053

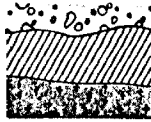
PROJECT: ONT-87-2

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT
R2 SN1		0.002
R2 SN2		0.002
R2 SN3		0.002
R2 SN4		0.002
R2 SN5		<0.002
R2 SN6		0.002
R2 SN7		0.002
C2 PCSN1		0.008
C2 PCSN2		0.010

Registered Assayer, Province of British Columbia

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BONDAR-CLEGG

**Geochemical
Lab Report**

CNT-87-2 (PART 2)

ABERMIN CORPORATION
MR. R. CHISHOLM
C/O TAIGA CONSULTANTS
100-1300 8TH ST. S.W.,
CALGARY, ALTA. T2R 1B2

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Geochemical
 Lab Report

REPORT: 127-4806 (COMPLETE)

REFERENCE INFO: SHIPMENT #3

CLIENT: ABERMIN CORPORATION
 PROJECT: ONT-87-2

SUBMITTED BY: R. CHISHOLM
 DATE PRINTED: 16-JUL-87

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	206	5 PPB	FIRE-ASSAY	Fire Assay AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BED ROCK	84	2 -150	206	CRUSH,PULVERIZE -150	206
D DRILL CORE	122				

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 MR. R. CHISHOLM

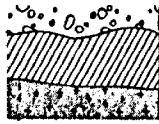
INVOICE TO: MR. B. SHEE

REPORT: 127-4806

PROJECT: ONT-87-2

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	Au PPB
R2 FR-87-01		5800	R2 FR-87-41		180
R2 FR-87-02		240	R2 FR-87-42		70
R2 FR-87-03		200	R2 FR-87-43		20
R2 FR-87-04		160	R2 FR-87-44		15
R2 FR-87-05		480	R2 FR-87-45		180
R2 FR-87-06		70	R2 FR-87-46		15
R2 FR-87-07		10	R2 FR-87-47		5
R2 FR-87-08		1250	R2 FR-87-48		5
R2 FR-87-09		160	R2 FR-87-49		5
R2 FR-87-10		200	R2 FR-87-51		50
R2 FR-87-11		1200	R2 FR-87-52		10
R2 FR-87-12		4300	R2 FR-87-53		80
R2 FR-87-13		100	R2 FR-87-54		50
R2 FR-87-14		110	R2 FR-87-55		10
R2 FR-87-15		75	R2 FR-87-56		10
R2 FR-87-16		1100	R2 FR-87-57		15
R2 FR-87-17		680	R2 FR-87-58		10
R2 FR-87-18		340	R2 FR-87-60		10
R2 FR-87-19		600	R2 FR-87-61		5
R2 FR-87-20		2400	R2 FR-87-62		240
R2 FR-87-21		520	R2 FR-87-63		160
R2 FR-87-22		95	R2 FR-87-64		220
R2 FR-87-23		60	R2 FR-87-65		2500
R2 FR-87-24		25	R2 FR-87-66		5
R2 FR-87-25		40	R2 FR-87-67		300
R2 FR-87-26		80	R2 FR-87-68		720
R2 FR-87-27		10	R2 FR-87-69		720
R2 FR-87-28		5	R2 FR-87-70		440
R2 FR-87-29		15	R2 FR-87-71		420
R2 FR-87-30		120	R2 FR-87-72		120
R2 FR-87-31		75	R2 FR-87-73		180
R2 FR-87-32		20	R2 FR-87-74		95
R2 FR-87-33		130	R2 FR-87-75		1600
R2 FR-87-34		15	R2 FR-87-76		340
R2 FR-87-35		10	R2 FR-87-77		320
R2 FR-87-36		55	R2 FR-87-78		940
R2 FR-87-37		360	R2 FR-87-79		30
R2 FR-87-38		60	R2 FR-87-80		2300
R2 FR-87-39		800	R2 FR-87-81		140
R2 FR-87-40		700	R2 CR-87-2-21		80



REPORT: 127-4806

PROJECT: ONT-87-2

PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	Au PPB
R2 CR-87-2-22		>10000	D2 J-7 51.28-52.28		40
R2 CR-87-2-23		460	D2 J-7 52.28-53.28		10
R2 CR-87-2-24		280	D2 J-7 53.28-54.28		5
R2 CR-87-2-25		180	D2 J-7 54.28-55.28		<5
D2 J-6 78.94-79.94		1150	D2 J-7 55.28-56.28		<5
D2 J-6 79.94-80.94		460	D2 J-7 56.28-57.28		<5
D2 J-6 80.94-81.94		160	D2 J-7 57.28-58.28		5
D2 J-6 81.94-82.94		90	D2 J-7 58.28-59.28		<5
D2 J-6 83.94-84.94		70	D2 J-7 59.28-60.28		10
D2 J-6 84.94-85.94		3500	D2 J-7 60.28-61.28		<5
D2 J-6 85.94-86.94		920	D2 J-7 61.28-62.28		<5
D2 J-6 86.94-87.94		30	D2 J-7 62.28-63.28		<5
D2 J-6 87.94-88.94		2900	D2 J-7 63.28-64.28		5
D2 J-6 88.94-89.94		45	D2 J-7 64.28-65.28		25
D2 J-6 89.94-90.94		65	D2 J-7 65.28-66.28		<5
D2 J-6 90.94-91.94		240	D2 J-7 66.28-67.28		10
D2 J-6 91.94-92.94		90	D2 J-7 67.28-68.28		130
D2 J-6 92.94-93.94		20	D2 J-7 68.28-69.28		90
D2 J-6 93.94-94.94		85	D2 J-7 69.28-70.28		180
D2 J-6 94.94-95.94		10	D2 J-7 70.28-71.28		60
D2 J-6 95.94-96.94		5	D2 J-7 71.28-72.28		170
D2 J-6 96.94-97.94		10	D2 J-7 72.28-73.28		150
D2 J-6 97.94-98.94		10	D2 J-7 73.28-74.28		25
D2 J-6 98.94-99.94		3700	D2 J-7 74.28-75.28		35
D2 J-6 99.94-100.94		30	D2 J-7 75.28-76.28		75
D2 J-6 100.94-101.94		15	D2 J-7 76.28-77.28		200
D2 J-6 101.94-102.94		5	D2 J-7 77.28-78.28		160
D2 J-6 102.94-103.94		10	D2 J-7 78.28-79.28		150
D2 J-6 103.94-104.94		10	D2 J-7 79.28-80.28		130
D2 J-6 104.94-105.94		5	D2 J-7 80.28-81.28		85
D2 J-6 105.94-106.94		<5	D2 J-7 81.28-82.28		100
D2 J-6 106.94-107.57		10	D2 J-7 82.28-83.28		2200
D2 J-7 43.28-44.28		<5	D2 J-7 83.28-84.28		170
D2 J-7 44.28-45.28		<5	D2 J-7 84.28-85.28		380
D2 J-7 45.28-46.28		<5	D2 J-7 85.28-86.28		55
D2 J-7 46.28-47.28		<5	D2 J-8 66.14-67.14		<5
D2 J-7 47.28-48.28		5	D2 J-8 67.14-68.14		10
D2 J-7 48.28-49.28		10	D2 J-8 68.14-69.14		5
D2 J-7 49.28-50.28		60	D2 J-8 69.14-70.14		55
D2 J-7 50.28-51.28		75	D2 J-8 70.14-71.14		65



REPORT: 127-4806

PROJECT: ONT-87-2

PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	Au PPB
D2 J-8 71.14-72.14		170
D2 J-8 72.14-73.14		65
D2 J-8 73.14-74.14		55
D2 J-8 74.14-75.14		<5
D2 J-8 75.14-76.14		40
D2 J-8 76.14-77.14		5
D2 SN-1 2.11-3.11		35
D2 SN-1 3.11-4.11		25
D2 SN-1 4.11-5.11		440
D2 SN-1 5.11-6.11		110
D2 SN-1 6.11-6.98		20
D2 SN-2 0.0-1.0		110
D2 SN-2 1.0-2.0		40
D2 SN-2 2.0-3.0		260
D2 SN-2 3.0-4.0		240
D2 SN-2 4.0-5.0		20
D2 SN-2 5.0-6.0		40
D2 SN-2 6.0-7.0		540
D2 SN-2 7.0-8.0		100
D2 SN-2 8.0-9.0		110
D2 SN-2 9.0-10.0		40
D2 SN-2 10.0-11.0		30
D2 SN-2 11.0-12.0		20
D2 SN-2 12.0-12.24		<5
D2 SN-3 0-0.75		<5
D2 SN-3 0.75-1.12		10
D2 SN-3 1.12-2.12		5
D2 SN-3 2.12-2.83		20
D2 SN-3 2.83-3.83		5
D2 SN-3 3.83-4.83		<5
D2 SN-3 4.83-5.83		<5
D2 SN-3 5.83-6.83		<5
D2 SN-3 6.83-7.77		<5
D2 SN-4 0-1.0		35
D2 SN-4 1.0-2.0		160
D2 SN-4 2.0-3.0		180
D2 SN-4 3.0-4.0		60
D2 SN-4 4.0-5.0		80
D2 SN-4 5.0-6.0		100
D2 SN-4 6.0-7.23		220

SAMPLE NUMBER	ELEMENT UNITS	Au PPB
D2 SN-4 7.23-7.67		5
D2 SN-5 0-0.97		40
D2 SN-5 0.97-1.97		30
D2 SN-5 1.97-2.97		240
D2 SN-5 2.97-3.97		460
D2 SN-5 3.97-4.59		85

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Geochemical
Lab Report

ONT - 87-21

ABERMIN CORPORATION
MR. R. CHISHOLM
C/O TAIGA CONSULTANTS
100-1300 8TH ST. S.W.,
CALGARY, ALTA. T2R 1E2

+ + + + +



REPORT: 127-4054 (COMPLETE)

REFERENCE INFO: SHIPMENT #1

CLIENT: ABERMIN CORPORATION
 PROJECT: ONT-87-2

SUBMITTED BY: K. CHISHOLM
 DATE PRINTED: 26-JUN-87

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold - Fire Assay	593	5 PPB	FIRE-ASSAY	Fire Assay AA
2	Au/wt	Sample weight/grams	557	0.1 G		
3	Au/wt	-20 Au Sample Weight	120	0.1 G		

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
0 ORGANIC OR HUMUS	593	5 OTHER	593	DRY, SEIVE -80	593

REMARKS: ERRATIC Au RESULT NOTED FOR SAMPLE 10+00N 5+25E
 CHECK = 25 PPB Au.

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 MR. R. CHISHOLM

INVOICE TO: MR. B. SMEE



REPORT: 127-4054

PROJECT: ONT-87-2

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Au/wt G	Au/wt G	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Au/wt G	Au/wt G
05 8+00N 5+00E		5	10.0		05 8+00N 7+00E		<5	5.0	
05 8+00N 5+05E		<5	10.0		05 8+00N 7+05E		<5	10.0	
05 8+00N 5+10E		5	10.0		05 8+00N 7+10E		<5	10.0	
05 8+00N 5+15E		5	10.0		05 8+00N 7+15E		<5	10.0	
05 8+00N 5+20E		<5	10.0		05 8+00N 7+20E		<5	8.0	
05 8+00N 5+25E		<5	10.0		05 8+00N 7+25E		<5	5.0	
05 8+00N 5+30E		<5	10.0		05 8+00N 7+30E		<5	10.0	
05 8+00N 5+35E		<5	10.0		05 8+00N 7+35E		<5	8.0	
05 8+00N 5+40E		<5	10.0		05 8+00N 7+40E		<5	10.0	
05 8+00N 5+45E		<5	10.0		05 8+00N 7+45E		<5	8.0	
05 8+00N 5+50E		<5	10.0		05 8+00N 7+50E		<5	10.0	
05 8+00N 5+55E		5	10.0		05 8+00N 7+55E		<5	8.0	
05 8+00N 5+60E		15	10.0		05 8+00N 7+60E		<5	7.0	
05 8+00N 5+65E		<5	10.0		05 8+00N 7+65E		5	10.0	
05 8+00N 5+70E		<5	10.0		05 8+00N 7+70E		<5	10.0	
05 8+00N 5+75E		<5	10.0		05 8+00N 7+75E		<5	10.0	
05 8+00N 5+80E		<5	10.0		05 8+00N 7+80E		<5	10.0	
05 8+00N 5+85E		<5	10.0		05 8+00N 7+85E		<5	10.0	
05 8+00N 5+90E		<5	10.0		05 8+00N 7+90E		<5	10.0	
05 8+00N 5+95E		<5	10.0		05 8+00N 7+95E		<5	10.0	
05 8+00N 6+00E		<5	10.0		05 8+00N 8+00E		<5	7.0	
05 8+00N 6+05E		<5	10.0		05 8+00N 8+05E		<5	10.0	
05 8+00N 6+10E		5	10.0		05 8+00N 8+10E		<5	3.0	7.0
05 8+00N 6+15E		<5	10.0		05 8+00N 8+15E		<5	6.0	
05 8+00N 6+20E		<5	10.0		05 8+25N 4+70E		<5	1.0	9.0
05 8+00N 6+25E		<5	10.0		05 8+25N 4+75E		10	8.0	
05 8+00N 6+30E		<5	10.0		05 8+25N 4+80E		<5	6.0	
05 8+00N 6+35E		<5	10.0		05 8+25N 4+85E		<5	4.0	6.0
05 8+00N 6+40E		<5	10.0		05 8+25N 4+90E		<5	4.0	6.0
05 8+00N 6+45E		<5	10.0		05 8+25N 4+95E		<5	10.0	
05 8+00N 6+50E		<5	7.0		05 8+25N 5+00E		<5	5.0	
05 8+00N 6+55E		<5	10.0		05 8+25N 5+05E		5	7.0	
05 8+00N 6+60E		5	6.0		05 8+25N 5+10E		<5	3.0	7.0
05 8+00N 6+65E		<5	10.0		05 8+25N 5+15E		<5	2.0	8.0
05 8+00N 6+70E		<5	10.0		05 8+25N 5+20E		<5	7.0	
05 8+00N 6+75E		<5	10.0		05 8+25N 5+25E		<5	9.0	
05 8+00N 6+80E		<5	10.0		05 8+25N 5+30E		<5	4.0	6.0
05 8+00N 6+85E		<5	6.0		05 8+25N 5+35E		<5	6.0	
05 8+00N 6+90E		<5	10.0		05 8+25N 5+40E		<5	10.0	
05 8+00N 6+95E		<5	10.0		05 8+25N 5+45E		<5	4.0	6.0



REPORT: 127-4054

PROJECT: DNT-87-2

PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	AU PPB	Au/wt G	Au/wt G	SAMPLE NUMBER	ELEMENT UNITS	AU PPB	Au/wt G	Au/wt G
05 8+25N 5+50E		<5	10.0		05 8+25N 7+85E		<5	7.0	
05 8+25N 5+55E		15	10.0		05 8+25N 7+90E		<5	8.0	
05 8+25N 5+60E		<5	4.0	6.0	05 8+25N 7+95E		<5	4.0	6.0
05 8+25N 5+65E		<5	8.0		05 8+25N 8+00E		<5	4.0	6.0
05 8+25N 5+70E		<5	3.0	7.0	05 8+25N 8+05E		<5	5.0	
05 8+25N 5+75E		<5	2.0	8.0	05 8+25N 8+10E		<5	10.0	
05 8+25N 5+80E		<5	4.0	6.0	05 8+25N 8+15E		20	6.0	
05 8+25N 5+85E		<5	3.0	7.0	05 8+25N 8+20E		<5	5.0	
05 8+25N 5+90E		<5	6.0		05 8+50N 4+25E		<5	2.0	8.0
05 8+25N 6+00E		<5	10.0		05 8+50N 4+30E		<5	5.0	
05 8+25N 6+05E		<5	1.0	9.0	05 8+50N 4+35E		<5	10.0	
05 8+25N 6+10E		<5	1.0	9.0	05 8+50N 4+40E		15	10.0	
05 8+25N 6+45E		<5		10.0	05 8+50N 4+45E		<5	10.0	
05 8+25N 6+50E		<5	1.0	9.0	05 8+50N 4+50E		<5	10.0	
05 8+25N 6+55E		<5		10.0	05 8+50N 4+55E		<5		10.0
05 8+25N 6+60E		<5	3.0	7.0	05 8+50N 4+60E		<5		10.0
05 8+25N 6+65E		<5		10.0	05 8+50N 4+65E		<5		10.0
05 8+25N 6+70E		25	2.0	8.0	05 8+50N 4+70E		<5		10.0
05 8+25N 6+75E		<5	1.0	9.0	05 8+50N 4+75E		5		10.0
05 8+25N 6+80E		<5	7.0		05 8+50N 4+80E		<5		10.0
05 8+25N 6+85E		<5	7.0		05 8+50N 4+85E		10	10.0	
05 8+25N 6+90E		<5	10.0		05 8+50N 4+90E		5	10.0	
05 8+25N 6+95E		<5	10.0		05 8+50N 4+95E		<5	10.0	
05 8+25N 7+00E		<5	8.0		05 8+50N 5+00E		5	10.0	
05 8+25N 7+05E		<5	5.0		05 8+50N 5+05E		10	10.0	
05 8+25N 7+10E		<5	3.0	7.0	05 8+50N 5+10E		15	5.0	
05 8+25N 7+15E		<5	3.0	7.0	05 8+50N 5+15E		35	7.0	
05 8+25N 7+20E		<5	4.0	6.0	05 8+50N 5+20E		<5	10.0	
05 8+25N 7+25E		<5	6.0		05 8+50N 5+25E		<5	6.0	
05 8+25N 7+30E		<5	4.0	6.0	05 8+50N 5+30E		<5	9.0	
05 8+25N 7+35E		<5	8.0		05 8+50N 5+35E		<5	10.0	
05 8+25N 7+40E		<5	2.0	8.0	05 8+50N 5+40E		30	5.0	
05 8+25N 7+45E		<5	6.0		05 8+50N 5+45E		<5	10.0	
05 8+25N 7+50E		<5	2.0	8.0	05 8+50N 5+50E		10	10.0	
05 8+25N 7+55E		<5	2.0	8.0	05 8+50N 5+55E		10	10.0	
05 8+25N 7+60E		<5	10.0		05 8+50N 5+60E		10	10.0	
05 8+25N 7+65E		<5	4.0	6.0	05 8+50N 5+65E		10	7.0	
05 8+25N 7+70E		<5	9.0		05 8+50N 5+70E		5	10.0	
05 8+25N 7+75E		<5	7.0		05 8+50N 5+75E		15	10.0	
05 8+25N 7+80E		<5	9.0		05 8+50N 5+80E		10	10.0	



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SAMPLE NUMBER	ELEMENT UNITS	Au PFB	Au/wt G	Au/wt G	SAMPLE NUMBER	ELEMENT UNITS	Au PFB	Au/wt G	Au/wt G
05 8+50N 6+75E		5	10.0		05 8+75N 4+35E		<5	3.0	7.0
05 8+50N 6+80E		5	10.0		05 8+75N 4+40E		<5		10.0
05 8+50N 6+85E		10	5.0		05 8+75N 4+45E		<5		10.0
05 8+50N 6+90E		<5	10.0		05 8+75N 4+50E		<5		10.0
05 8+50N 6+95E		10	7.0		05 8+75N 4+55E		<5	3.0	7.0
05 8+50N 7+00E		5	7.0		05 8+75N 4+60E		<5	10.0	
05 8+50N 7+05E		10	5.0		05 8+75N 4+65E		<5	5.0	
05 8+50N 7+10E		5	10.0		05 8+75N 4+70E		<5		10.0
05 8+50N 7+15E		10	10.0		05 8+75N 4+75E		5	6.0	
05 8+50N 7+20E		5	10.0		05 8+75N 4+80E		<5	10.0	
05 8+50N 7+25E		<5	10.0		05 8+75N 4+85E		<5	10.0	
05 8+50N 7+30E		5	9.0		05 8+75N 4+90E		<5	10.0	
05 8+50N 7+35E		<5	10.0		05 8+75N 4+95E		<5	5.0	
05 8+50N 7+40E		<5	9.0		05 8+75N 5+00E		<5	8.0	
05 8+50N 7+45E		5	10.0		05 8+75N 5+05E		5	10.0	
05 8+50N 7+50E		<5	10.0		05 8+75N 5+10E		<5	10.0	
05 8+50N 7+55E		5	10.0		05 8+75N 5+15E		<5	7.0	
05 8+50N 7+60E		<5	10.0		05 8+75N 5+20E		<5	7.0	
05 8+50N 7+65E		<5	10.0		05 8+75N 5+25E		150	5.0	
05 8+50N 7+70E		<5	10.0		05 8+75N 5+30E		45	10.0	
05 8+50N 7+75E		<5	8.0		05 8+75N 5+35E		<5	10.0	
05 8+50N 7+80E		<5	7.0		05 8+75N 5+40E		<5	7.0	
05 8+50N 7+85E		<5	10.0		05 8+75N 5+45E		<5	10.0	
05 8+50N 7+90E		<5	10.0		05 8+75N 5+50E		5	10.0	
05 8+50N 7+95E		<5	10.0		05 8+75N 5+55E		<5	3.0	7.0
05 8+50N 8+05E		<5	10.0		05 8+75N 5+60E		<5	10.0	
05 8+50N 8+10E		15	10.0		05 8+75N 5+65E		<5	8.0	
05 8+50N 8+15E		<5	8.0		05 8+75N 5+70E		<5		10.0
05 8+50N 8+20E		<5	10.0		05 8+75N 5+75E		25	5.0	
05 8+50N 8+25E		<5	10.0		05 8+75N 7+15E		120	5.0	
05 8+50N 8+30E		10	6.0		05 8+75N 7+20E		<5	4.0	6.0
05 8+75N 3+90E		25	10.0		05 8+75N 7+25E		<5	3.0	7.0
05 8+75N 3+95E		10	5.0		05 8+75N 7+30E		<5	7.0	
05 8+75N 4+00E		<5		10.0	05 8+75N 7+35E		<5	7.0	
05 8+75N 4+05E		<5		10.0	05 8+75N 7+40E		5	10.0	
05 8+75N 4+10E		<5		10.0	05 8+75N 7+45E		<5	10.0	
05 8+75N 4+15E		<5		10.0	05 8+75N 7+50E		<5	10.0	
05 8+75N 4+20E		5	8.0		05 8+75N 7+55E		<5	5.0	
05 8+75N 4+25E		<5	5.0		05 8+75N 7+60E		<5	8.0	
05 8+75N 4+30E		5	6.0		05 8+75N 7+65E		<5	8.0	



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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Au/wt G	Au/wt G	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Au/wt G	Au/wt G
05 8+75N 7+70E		10	5.0		05 9+00N 5+05E		5	10.0	
05 8+75N 7+75E		<5	10.0		05 9+00N 5+10E		20	7.0	
05 8+75N 7+80E		<5	10.0		05 9+00N 5+15E		5	3.0	7.0
05 8+75N 7+85E		<5	10.0		05 9+00N 5+20E		<5	7.0	
05 8+75N 7+90E		<5	10.0		05 9+00N 5+25E		<5	10.0	
05 8+75N 7+95E		<5	10.0		05 9+00N 5+30E		<5	10.0	
05 8+75N 8+00E		<5	10.0		05 9+00N 5+35E		<5	9.0	
05 8+75N 8+05E		<5	10.0		05 9+00N 5+40E		15	10.0	
05 8+75N 8+10E		<5	10.0		05 9+00N 5+45E		25	10.0	
05 8+75N 8+15E		<5	10.0		05 9+00N 5+50E		<5	10.0	
05 8+75N 8+20E		<5	10.0		05 9+00N 5+55E		<5	10.0	
05 8+75N 8+25E		5	10.0		05 9+00N 5+60E		<5	10.0	
05 8+75N 8+30E		<5	10.0		05 9+00N 5+65E		30	10.0	
05 9+00N 3+70E		5	7.0		05 9+00N 5+70E		440	3.0	7.0
05 9+00N 3+75E		5	8.0		05 9+00N 5+75E		10	7.0	
05 9+00N 3+80E		<5	7.0		05 9+00N 5+80E		55	5.0	
05 9+00N 3+85E		<5	10.0		05 9+00N 7+35E		<5	3.0	7.0
05 9+00N 3+90E		<5	5.0		05 9+00N 7+40E		<5	3.0	7.0
05 9+00N 3+95E		10	5.0		05 9+00N 7+45E		<5	6.0	
05 9+00N 4+00E		<5	6.0		05 9+00N 7+50E		<5	10.0	
05 9+00N 4+05E		<5	10.0		05 9+00N 7+55E		10	10.0	
05 9+00N 4+10E		10	8.0		05 9+00N 7+60E		5	5.0	
05 9+00N 4+15E		<5	10.0		05 9+00N 7+65E		55	10.0	
05 9+00N 4+20E		10	5.0		05 9+00N 7+70E		10	5.0	
05 9+00N 4+25E		10	5.0		05 9+00N 7+75E		5	5.0	
05 9+00N 4+30E		5		10.0	05 9+00N 7+80E		40	5.0	
05 9+00N 4+35E		10	5.0		05 9+00N 7+85E		<5	10.0	
05 9+00N 4+40E		95	5.0		05 9+00N 7+90E		<5	8.0	
05 9+00N 4+45E		<5	7.0		05 9+00N 8+00E		15	6.0	
05 9+00N 4+50E		5	5.0		05 9+00N 8+05E		10		10.0
05 9+00N 4+55E		20	5.0		05 9+00N 8+10E		15	7.0	
05 9+00N 4+60E		15	5.0		05 9+00N 8+15E		10	6.0	
05 9+00N 4+65E		<5	5.0		05 9+00N 8+20E		10	10.0	
05 9+00N 4+70E		<5	10.0		05 9+00N 8+25E		5	10.0	
05 9+00N 4+75E		10	5.0		05 9+00N 8+30E		<5	10.0	
05 9+00N 4+80E		10	6.0		05 9+00N 8+35E		<5	10.0	
05 9+00N 4+85E		<5	5.0		05 9+25N 3+75E		<5	10.0	
05 9+00N 4+90E		<5	5.0		05 9+25N 3+80E		10	3.0	7.0
05 9+00N 4+95E		<5	3.0		05 9+25N 3+85E		<5	7.0	
05 9+00N 5+00E		220	10.0		05 9+25N 3+90E		<5	10.0	

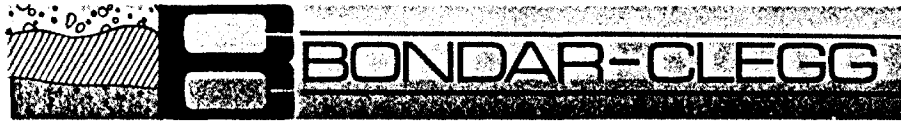


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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Au/wt G	Au/wt G	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Au/wt G	Au/wt G
05 9+25N 3+95E		<5	10.0		05 9+25N 7+60E		<5	10.0	
05 9+25N 4+00E		<5	7.0		05 9+25N 7+65E		<5	3.0	7.0
05 9+25N 4+05E		5	9.0		05 9+25N 7+70E		<5	10.0	
05 9+25N 4+10E		<5		10.0	05 9+25N 7+75E		<5	8.0	
05 9+25N 4+15E		<5		10.0	05 9+25N 7+80E		25	10.0	
05 9+25N 4+20E		<5		10.0	05 9+25N 7+85E		10	8.0	
05 9+25N 4+25E		10		10.0	05 9+25N 7+90E		<5	8.0	
05 9+25N 4+30E		<5	3.0	7.0	05 9+25N 7+95E		<5	10.0	
05 9+25N 4+35E		<5	3.0	7.0	05 9+25N 8+00E		10	3.0	7.0
05 9+25N 4+40E		<5		10.0	05 9+25N 8+05E		5	6.0	
05 9+25N 4+45E		5		10.0	05 9+25N 8+10E		5	8.0	
05 9+25N 4+50E		5		10.0	05 9+25N 8+15E		10	8.0	
05 9+25N 4+55E		10	3.0	7.0	05 9+25N 8+20E		<5	10.0	
05 9+25N 4+60E		5	5.0		05 9+25N 8+25E		5		10.0
05 9+25N 4+65E		<5	5.0		05 9+25N 8+30E		<5	10.0	
05 9+25N 4+70E		<5	10.0		05 9+50N 3+95E		<5		10.0
05 9+25N 4+80E		<5	8.0		05 9+50N 4+00E		<5	7.0	
05 9+25N 4+85E		<5	10.0		05 9+50N 4+05E		<5		10.0
05 9+25N 4+90E		<5	10.0		05 9+50N 4+10E		<5	6.0	
05 9+25N 4+95E		<5	10.0		05 9+50N 4+15E		<5	5.0	
05 9+25N 5+00E		5	5.0		05 9+50N 4+20E		10	5.0	
05 9+25N 5+05E		<5	7.0		05 9+50N 4+25E		<5	3.0	7.0
05 9+25N 5+10E		<5	9.0		05 9+50N 4+30E		<5	3.0	7.0
05 9+25N 5+15E		50	5.0		05 9+50N 4+35E		<5		10.0
05 9+25N 5+20E		<5	8.0		05 9+50N 4+40E		<5	3.0	7.0
05 9+25N 5+25E		<5	10.0		05 9+50N 4+45E		<5	3.0	7.0
05 9+25N 5+30E		<5	7.0		05 9+50N 4+50E		<5		10.0
05 9+25N 5+35E		<5	10.0		05 9+50N 4+55E		<5		10.0
05 9+25N 5+40E		10	10.0		05 9+50N 4+60E		<5	10.0	
05 9+25N 5+45E		<5	10.0		05 9+50N 4+65E		<5	7.0	
05 9+25N 5+50E		5	9.0		05 9+50N 4+70E		<5	8.0	
05 9+25N 5+55E		<5	10.0		05 9+50N 4+75E		15	8.0	
05 9+25N 5+60E		<5	5.0		05 9+50N 4+80E		<5	8.0	
05 9+25N 5+65E		<5		10.0	05 9+50N 4+85E		<5	8.0	
05 9+25N 5+70E		25	3.0	7.0	05 9+50N 4+90E		<5	10.0	
05 9+25N 7+35E		<5		10.0	05 9+50N 4+95E		<5	10.0	
05 9+25N 7+40E		<5	10.0		05 9+50N 5+00E		<5	10.0	
05 9+25N 7+45E		<5	10.0		05 9+50N 5+05E		<5	10.0	
05 9+25N 7+50E		15	10.0		05 9+50N 5+10E		<5	10.0	
05 9+25N 7+55E		<5	10.0		05 9+50N 5+15E		5	10.0	



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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Au/wt G	Au/wt G	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Au/wt G	Au/wt G
05 9+50N 5+20E		<5	10.0		05 9+75N 4+70E		<5	3.0	7.0
05 9+50N 5+30E		<5	10.0		05 9+75N 4+75E		5	10.0	
05 9+50N 5+35E		10	10.0		05 9+75N 4+80E		10	10.0	
05 9+50N 5+40E		15	10.0		05 9+75N 4+85E		5	6.0	
05 9+50N 5+45E		<5	5.0		05 9+75N 4+90E		<5	7.0	
05 9+50N 5+50E		<5	2.8		05 9+75N 4+95E		10	10.0	
05 9+50N 5+55E		5	3.0	7.0	05 9+75N 5+00E		5	3.0	7.0
05 9+50N 5+60E		40	10.0		05 9+75N 5+05E		15	10.0	
05 9+50N 7+20E		15	3.0	7.0	05 9+75N 5+10E		10	7.0	
05 9+50N 7+25E		5	7.0		05 9+75N 5+15E		10	7.0	
05 9+50N 7+30E		5	10.0		05 9+75N 5+20E		<5	10.0	
05 9+50N 7+35E		25	9.0		05 9+75N 5+25E		<5	10.0	
05 9+50N 7+40E		<5	10.0		05 9+75N 5+40E		<5	10.0	
05 9+50N 7+45E		10	10.0		05 9+75N 5+45E		5	10.0	
05 9+50N 7+50E		15	6.0		05 9+75N 7+30E		<5	10.0	
05 9+50N 7+55E		10	3.0	7.0	05 9+75N 7+35E		<5	10.0	
05 9+50N 7+60E		20	5.0		05 9+75N 7+40E		<5	10.0	
05 9+50N 7+65E		10	8.0		05 9+75N 7+45E		5	10.0	
05 9+50N 7+70E		10	10.0		05 9+75N 7+50E		<5	10.0	
05 9+50N 7+75E		10	10.0		05 9+75N 7+55E		<5	7.0	
05 9+50N 7+80E		10	10.0		05 9+75N 7+60E		10	10.0	
05 9+50N 7+85E		20	8.0		05 9+75N 7+65E		40	10.0	
05 9+50N 7+90E		10	10.0		05 9+75N 7+70E		<5	10.0	
05 9+50N 7+95E		15	10.0		05 9+75N 7+75E		<5	6.0	
05 9+50N 8+00E		10	10.0		05 9+75N 7+90E		<5	10.0	
05 9+50N 8+05E		20	10.0		05 9+75N 7+95E		<5	10.0	
05 9+50N 8+10E		20	7.0		05 9+75N 8+00E		<5	8.0	
05 9+50N 8+15E		15	10.0		05 9+75N 8+05E		<5	8.0	
05 9+50N 8+20E		30	5.0		05 9+75N 8+10E		<5	8.0	
05 9+75N 4+15E		10	3.0	7.0	05 9+75N 8+15E		<5	10.0	
05 9+75N 4+20E		25	5.0		05 10+00N 4+30E		<5	6.0	
05 9+75N 4+25E		<5	8.0		05 10+00N 4+35E		<5	3.0	7.0
05 9+75N 4+30E		5	8.0		05 10+00N 4+40E		<5	8.0	
05 9+75N 4+35E		<5	3.0	7.0	05 10+00N 4+45E		10	10.0	
05 9+75N 4+40E		5	10.0		05 10+00N 4+60E		<5	8.0	
05 9+75N 4+45E		<5	10.0		05 10+00N 4+65E		<5	10.0	
05 9+75N 4+50E		<5	10.0		05 10+00N 4+70E		<5	8.0	
05 9+75N 4+55E		5	5.0		05 10+00N 4+75E		<5	8.0	
05 9+75N 4+60E		15	8.0		05 10+00N 4+80E		<5	3.0	7.0
05 9+75N 4+65E		20	5.0		05 10+00N 4+85E		<5	10.0	



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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Au/wt G	Au/wt G	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Au/wt G	Au/wt G
05 10+00N 4+90E		<5	2.0	8.0	05 10+25N 5+25E		<5	5.0	
05 10+00N 4+95E		<5	10.0		05 10+25N 5+30E		10	7.0	
05 10+00N 5+00E		<5	7.0		05 10+25N 5+35E		<5	7.0	
05 10+00N 5+05E		10	10.0		05 10+25N 5+40E		<5	8.0	
05 10+00N 5+10E		<5	10.0		05 10+25N 5+45E		<5	4.0	6.0
05 10+00N 5+15E		<5	10.0		05 10+25N 5+50E		10	5.0	
05 10+00N 5+20E		5	10.0		05 10+25N 5+55E		<5	6.0	
05 10+00N 5+25E		50	10.0		05 10+25N 5+60E		<5	4.0	6.0
05 10+00N 5+30E		5	10.0		05 10+25N 5+65E		<5	6.0	
05 10+00N 5+35E		<5	9.0		05 10+25N 5+70E		<5	6.0	
05 10+00N 5+40E		<5	3.0	7.0	05 10+25N 7+75E		<5	8.0	
05 10+00N 5+45E		<5	4.0	6.0	05 10+25N 7+80E		<5	10.0	
05 10+00N 5+50E		<5	8.0		05 10+25N 7+85E		<5	7.0	
05 10+00N 7+55E		<5	7.0		05 10+25N 7+90E		<5	7.0	
05 10+00N 7+60E		<5	7.0		05 10+25N 7+95E		<5	6.0	
05 10+00N 7+65E		<5	9.0		05 10+25N 8+00E		<5	9.0	
05 10+00N 7+70E		<5	10.0		05 10+50N 4+70E		<5	10.0	
05 10+00N 7+75E		<5	10.0		05 10+50N 4+75E		<5	8.0	
05 10+00N 7+80E		<5	4.0	6.0	05 10+50N 4+80E		<5	10.0	
05 10+00N 7+85E		<5	3.0	7.0	05 10+50N 4+85E		<5	10.0	
05 10+00N 7+90E		<5	7.0		05 10+50N 4+90E		<5	10.0	
05 10+00N 7+95E		<5	4.0	6.0	05 10+50N 4+95E		<5	10.0	
05 10+00N 8+00E		<5	5.0		05 10+50N 5+00N		<5	10.0	
05 10+00N 8+05E		20	10.0		05 10+50N 5+05E		<5	10.0	
05 10+00N 8+10E		<5	8.0		05 10+50N 5+10E		<5	10.0	
05 10+25N 4+50E		<5	1.0	9.0	05 10+50N 5+15E		<5	10.0	
05 10+25N 4+55E		<5	2.0	8.0	05 10+50N 5+20E		<5	10.0	
05 10+25N 4+60E		<5	5.0	5.0	05 10+50N 5+25E		<5	10.0	
05 10+25N 4+65E		<5	3.0	7.0	05 10+50N 5+30E		<5	10.0	
05 10+25N 4+70E		<5	2.0	8.0	05 10+50N 5+35E		<5	10.0	
05 10+25N 4+75E		<5		10.0	05 10+50N 5+40E		<5	10.0	
05 10+25N 4+80E		<5	2.0	8.0	05 10+50N 5+45E		<5	10.0	
05 10+25N 4+85E		<5	2.0	8.0	05 10+50N 5+50E		<5	10.0	
05 10+25N 4+90E		<5	2.0	8.0	05 10+50N 5+55E		<5	10.0	
05 10+25N 4+95E		<5	2.0	8.0	05 10+50N 5+60E		<5	10.0	
05 10+25N 5+00E		<5	5.0		05 10+50N 5+65E		<5	10.0	
05 10+25N 5+05E		<5	3.0	7.0	05 10+50N 5+70E		<5	8.0	
05 10+25N 5+10E		<5	3.0	7.0	05 10+50N 5+75E		<5	4.0	
05 10+25N 5+15E		<5	3.0	7.0	05 10+50N 5+80E		55	9.0	
05 10+25N 5+20E		<5	5.0		05 10+50N 5+85E		<5	10.0	



REPORT: 127-4054

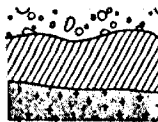
PROJECT: ONT-87-2

PAGE 8

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Au/wt G	Au/wt G	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Au/wt G	Au/wt G
05 10+75N 4+90E		<5	2.0	8.0					
05 10+75N 4+95E		<5	4.0	6.0					
05 10+75N 5+00E		<5	5.0						
05 10+75N 5+05E		<5	8.0						
05 10+75N 5+10E		<5	8.0						
05 10+75N 5+15E		<5	10.0						
05 10+75N 5+20E		<5	10.0						
05 10+75N 5+25E		<5	6.0						
05 10+75N 5+30E		<5	10.0						
05 10+75N 5+35E		<5	6.0						
05 10+75N 5+40E		<5	10.0						
05 10+75N 5+45E		20	10.0						
05 10+75N 5+50E		<5	9.0						
05 10+75N 5+55E		<5	9.0						
05 10+75N 5+60E		<5	8.0						
05 10+75N 5+65E		<5	4.0	6.0					
05 10+75N 5+70E		<5	10.0						
05 10+75N 5+75E		<5	5.0						
05 10+75N 5+80E		<5	5.0						
05 11+00N 5+00E		<5	3.0	7.0					
05 11+00N 5+05E		<5	10.0						
05 11+00N 5+10E		<5	2.0	8.0					
05 11+00N 5+15E		<5	10.0						
05 11+00N 5+20E		<5	9.0						
05 11+00N 5+25E		<5	10.0						
05 11+00N 5+30E		5	10.0						
05 11+00N 5+35E		<5	10.0						
05 11+00N 5+40E		<5	10.0						
05 11+00N 5+50E		<5	10.0						
05 11+00N 5+55E		<5	10.0						
05 11+00N 5+60E		<5	10.0						
05 11+00N 5+65E		<5	10.0						
05 11+00N 5+70E		<5	10.0						

Bondar-Clegg & Company Ltd.

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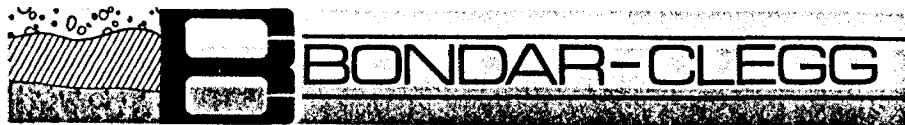


BONDAR-CLEGG

**Geochemical
Lab Report**

ABERMIN CORPORATION
MR. R. CHISHOLM
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100-1300 8TH ST. S.W.,
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Geochemical
 Lab Report

REPORT: 127-4270 (COMPLETE)

REFERENCE INFO:

CLIENT: ABERMIN CORPORATION
 PROJECT: ONT-87-2

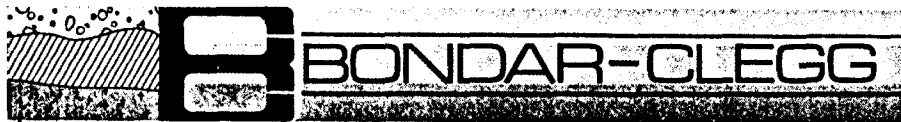
SUBMITTED BY: R. CHISHOLM
 DATE PRINTED: 8-JUL-87

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold - Fire Assay	30	5 PPB	FIRE-ASSAY	Fire Assay AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BED ROCK	30	2 -150	30	CRUSH,PULVERIZE -150	30

REPORT COPIES TO: MR. B. SMEE
 MR. R. CHISHOLM

INVOICE TO: MR. B. SMEE



REPORT: 127-4270

PROJECT: ONT-87-2

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU PPB
---------------	---------------	--------

R2 CR-87-2-01		<5
R2 CR-87-2-02		5
R2 CR-87-2-03		10
R2 CR-87-2-04		<5
R2 CR-87-2-05		5

R2 CR-87-2-06		<5
R2 CR-87-2-07		<5
R2 CR-87-2-08		<5
R2 CR-87-2-09		<5
R2 CR-87-2-10		<5

R2 CR-87-2-11		<5
R2 CR-87-2-12		5
R2 CR-87-2-13		5
R2 CR-87-2-14		1150
R2 CR-87-2-15		20

R2 CR-87-2-16		90
R2 CR-87-2-17		15
R2 CR-87-2-18		<5
R2 CR-87-2-19		25
R2 CR-87-2-20		<5

R2 YR-87-1		<5
R2 YR-87-2		<5
R2 YR-87-3		20
R2 YR-87-4		<5
R2 YR-87-5		<5

R2 YR-87-8		<5
R2 YR-87-11		10
R2 YR-87-12		<5
R2 YR-87-13		<5
R2 YR-87-14		<5

A P P E N D I X I I

Diamond Drill Logs and Sample Analyses

- a) Recent Drilling
SN-1 to SN-5

- b) Re-Logging of Falconbridge's Holes
J-1 to J-8



TAIGA CONSULTANTS LTD.

DIAMOND DRILL LOG

CLIENT: Abermin Corporation
PROJECT: Sturgeon Narrows ONT-87-2

Area: Sturgeon Lake Latitude: Bearing: Date Started: Jun 5 87 Hole No. SN-1
Core Size: AW Departure: Inclination @ collar -90 Date Completed: Jun 6 87 Sheet: 1 of 2
Total Length: 6.98 m Elevation: .6 m Inclination @ _____ m Logged by: R.Chisholm/ Taiga Consultants Ltd.

FROM (m)	TO (m)	INTER (m)	LITHOLOGY	REC (%)	SAMPLE NUMBER	FROM (m)	TO (m)	INTER (m)	Au ppb
CORE RECOVERY: meterage:			0.00-2.11	2					
			2.11-3.68	99					
			3.68-5.17	96					
			5.17-6.98	100					
Total recovery for hole:			70%						
0.00	2.11	2.11	OVERBURDEN, weathered rock, ground up						
2.11	3.08	0.97	SYENITE, light pink, medium-grained, massive, quartz-filled hair-line fractures @ 22,37,40; frequency 1/15 cm; rare fuchsite; 10% disseminated ankerite; 2-3% pyrite cubes, rare veinlets			2.11	3.11	1.00	35
			2.11-2.27 rusty weathered ankerite						
			2.66-2.78 decomposed to limonite						
3.08	6.98	3.90	SYENITE, as above, but greyish-red; 15% disseminated ankerite, 5% biotite; moderately magnetic. pyritic sections at 4.45-4.50, 4.80-4.94, 5.50-5.72, 6.40-6.46 m.			3.11	4.11	1.00	25
						4.11	5.11	1.00	440
						5.11	6.11	1.00	110
						6.11	6.98	0.87	20

TAIGA CONSULTANTS LTD.

DIAMOND DRILL LOG

CLIENT: Abermin Corporation

PROJECT: Sturgeon Narrows ONT-87-2

Area: Sturgeon Lake
 Core Size: AW
 Total Length: 12.24 m

Latitude:
 Departure:
 Elevation: 2.1 m

Bearing:
 Inclination @ collar -90
 Inclination @ _____ m

Date Started: Jun 7 87 Hole No. SN-2
 Date Completed: Jun 8 87 Sheet: 1 of 1
 Logged by: R.E.Chisholm/ Taiga Consultants Ltd.

FROM (m)	TO (m)	INTER (m)	LITHOLOGY	REC (%)	SAMPLE NUMBER	FROM (m)	TO (m)	INTER (m)	Au ppb
CORE RECOVERY: meterage:			0.00- 1.92	63					
			1.92- 3.35	92					
			3.35- 8.04	92					
			8.04- 9.92	130					
			9.92-12.24	96					
Total recovery for hole:			94%						
0.00	12.24	12.24	SYENITE, greyish pink, fine- to medium-grained, massive; 20% disseminated ankerite blebs & phenocrysts to 3 mm; 1-3% cubes & blebs of pyrite, disseminated cubes up to 5 mm; quartz veining with ankerite selvages ranges from hairline to 4 mm thick, frequency 1/10 cm; pyrite preferentially distributed on veins.						
			0.00- 0.42 weathered, decomposed, limonitic zone			0.00	1.00	1.00	110
			0.52- 0.60 weathered, decomposed, limonitic zone			1.00	2.00	1.00	40
			0.72- 0.92 weathered, decomposed, limonitic zone			2.00	3.00	1.00	260
			1.82- 2.20 weakly magnetic			3.00	4.00	1.00	240
			2.23- 2.26 weathered, decomposed, limonitic zone			4.00	5.00	1.00	20
			2.40- 2.60 weathered, decomposed, limonitic zone			5.00	6.00	1.00	40
			8.50-12.24 moderate magnetic, pinkish grey in colour due to magnetite; no pyrite except in narrow non-magnetic sections; slightly (5%) biotitic.			6.00	7.00	1.00	540
			veining at 30, 35, 58 degrees			7.00	8.00	1.00	100
						8.00	9.00	1.00	110
						9.00	10.00	1.00	40
						10.00	11.00	1.00	30
						11.00	12.00	1.00	20
						12.00	12.24	0.24	<5

TAIGA CONSULTANTS LTD.

DIAMOND DRILL LOG

CLIENT: Abermin Corporation
PROJECT: Sturgeon Narrows ONT-87-2

Area: Sturgeon Lake Latitude: Bearing: Date Started: Jun 8 87 Hole No. SN-3
Core Size: AW Departure: Inclination @ collar -90 Date Completed: Jun 9 87 Sheet: 1 of 1
Total Length: 7.77 m Elevation: 3.25 m Inclination @ _____ m Logged by: R.E.Chisholm/ Taiga Consultants Ltd.

FROM (m)	TO (m)	INTER (m)	LITHOLOGY	REC (%)	SAMPLE NUMBER	FROM (m)	TO (m)	INTER (m)	Au ppb
CORE RECOVERY: meterage:			0.00-2.56 m	78					
			2.56-5.62 m	99					
			5.62-7.77 m	80					
Total recovery for hole:			87%						
0.00	1.12	1.12	SYENITE, greyish-pink, medium-grained, massive, porphyritic in ankerite (phenocrysts to 5 mm) and biotite (chloritized); no pyrite; weakly magnetic; 20% disseminated ankerite. 0.75- 1.12 section strongly weathered, ankerite decomposed to limonite			0.00 0.75	0.75 1.12	0.75 0.37	<5 10
1.12	2.78	1.66	SEDIMENTS, bleached and feldspathized, fine-grained 1-2% finely disseminated pyrite			1.12 2.12	2.12 2.83	1.00 0.71	5 20
2.78	7.77	4.99	SEDIMENTS, dark green, fine-grained, 5% 0.5 to 1.0 mm sized disseminated white mineral (probably ankerite); rare sections weakly magnetic; fractured, hairline quartz filling, quartz-ankerite. Core angles 25,50 degrees 5.21- 5.30 syenite dyke 5.95- 6.01 syenite dyke 6.95- 7.05 syenite dyke			2.83 3.83 4.83 5.83 6.83	3.83 4.83 5.83 6.83 7.77	1.00 1.00 1.00 1.00 0.94	5 <5 <5 <5 <5

TAIGA CONSULTANTS LTD.

DIAMOND DRILL LOG

CLIENT: Abermin Corporation

PROJECT: Sturgeon Narrows ONT-87-2

Area: Sturgeon Lake Latitude: Bearing: Date Started: Jun 10 87 Hole No. SN-4
 Core Size: AW Departure: Inclination @ collar -90 Date Completed: Jun 11 87 Sheet: 1 of 1
 Total Length: 7.67 m Elevation: 2.15 m Inclination @ ____ m Logged by: R.E.Chisholm/ Taiga Consultants Ltd.

FROM (m)	TO (m)	INTER (m)	LITHOLOGY	REC (%)	SAMPLE NUMBER	FROM (m)	TO (m)	INTER (m)	Au ppb
CORE RECOVERY: meterage:			0.00-2.09 m	75					
			2.09-3.91 m	103					
			3.91-5.53 m	98					
			5.53-7.67 m	91					
Total recovery for hole:			91%						
0.00	7.23	7.23	SYENITE, light pink, medium-grained, massive; 15% disseminated ankerite; 10% light green chlorite(?); 1-4% disseminated pyrite as cubes up to 5 mm; quartz veining with thin ankerite selvages 2.0 to 4.6 m, frequency 1/15 cm; thickness 1 mm to 2 cm; core angles 21, 28 degrees			0.00	1.00	1.00	35
			0.00-0.60 variably decomposed zones, limonitic			1.00	2.00	1.00	160
			1.15-1.40 variably decomposed zones, limonitic			2.00	3.00	1.00	180
			2.09-2.45 variably decomposed zones, limonitic			3.00	4.00	1.00	60
			2.95-3.23 variably decomposed zones, limonitic			4.00	5.00	1.00	80
			5.50-5.53 variably decomposed zones, limonitic			5.00	6.00	1.00	100
			6.20-6.40 vertical fracture			6.00	7.23	1.23	220
7.23	7.67	0.44	SYENITE, greyish-red, medium-grained, massive to porphyritic (in chlorite), weakly magnetic, groundmass slightly hematized; no pyrite. 5-15% disseminated ankerite with chlorite cores; 5% magnetite, finely disseminated.			7.23	7.67	0.44	5

TAIGA CONSULTANTS LTD.

DIAMOND DRILL LOG

CLIENT: Abermin Corporation
PROJECT: Sturgeon Narrows ONT-87-2

Area: Sturgeon Lake Latitude: Bearing: 140 deg
Core Size: AW Departure: Inclination @ collar -60
Total Length: 4.59 m Elevation: 0.50 m Inclination @ _____ m
Date Started: Jun 11 87 Hole No. SN-5
Date Completed: Jun 12 87 Sheet: 1 of 1
Logged by: R.E.Chisholm/ Taiga Consultants Ltd.

FROM (m)	TO (m)	INTER (m)	LITHOLOGY	REC (%)	SAMPLE NUMBER	FROM (m)	TO (m)	INTER (m)	Au ppb
CORE RECOVERY: meterage:			0.00-2.31 m	67					
			2.31-4.11 m	98					
			4.11-4.59 m	92					
Total recovery for hole:			81.5%						
0.00	4.59	4.59	SYENITE, pink to red, medium-grained; 10% disseminated ankerite with chloritic cores; 1-5% disseminated quartz eyes to 3 mm; 1-2% pyrite cubes; quartz-ankerite veining, hairline to 1 cm at 30, 40, 44 degrees.			0.00	0.97	0.97	40
			0.00-0.30 magnetic sections, greyish-pink			0.97	1.97	1.00	30
			0.20-0.97 weathered section, limonitic			1.97	2.97	1.00	240
			1.34-1.49 weathered section, limonitic			2.97	3.97	1.00	460
			1.73-1.90 magnetic sections, greyish-pink			3.97	4.59	0.62	85
			2.67-2.73 magnetic sections, greyish-pink						
			3.00-3.20 weathered section, limonitic						
			3.70-3.90 weathered section, limonitic						

Property: Sturgeon Narrows Drilled: May 1974 for Falconbridge Nickel Mines Limited
 Claim: 704623 Re-Logged: June 1987 for Abermin Corp. by R. E. Chisholm
 Location: New Grid Bearing: 160° Dip: -44° TD: 153.9 m (505') Core Size: AQ Casing left in hole

Hole: J-1
 Page: 1 of 2

BOX	FROM (m)	TO (m)	INTER (m)	LITHOLOGY	REC SAMPLE (%)	SAMPLE NUMBER	FROM (m)	TO (m)	INTER (m)	Au ppb
1	0.0	7.6	7.6	Re-worked agglomerate, clasts to 3 cm (avg 7 mm), round to sub-round, mostly mafic clasts some chert, pyritic chert, f.g. mafic groundmass.						
2	7.6	15.2	7.6	as above, 3% pyritic chert fragments, minor blebs of pyrite in groundmass, scattered 5 mm pyrite cubes.						
3	15.2	22.3	7.1	as above, 4% pyritic chert fragments, 2% pyrite blebs & cubes in groundmass.						
	22.3	22.9	0.6	Andesite, fine-grained.						
4	22.9	29.9	7.0	...empty - dumped...						
5	29.9	37.8	7.9	...empty - dumped...						
6	37.8	44.5		...split - intact...						
	37.8	38.4	0.6	Dacite, green-grey, fine-grained.						
	38.4	38.9	0.5	Mafic Tuff(?), dark green, f.g., 5-8% f.g. Py as veinlets and blebs.						
	38.9	41.1	2.2	Variably brecciated & rehealed, partially fenitized mafic volcanics, pink and green.						
	41.1	42.2	1.1	Syenite, light pink, f.g. to m.g., slightly porphyritic, very hard.						
	42.2	44.0	1.8	Fenitized volcanics, as before.						
	44.0	44.5	0.5	Conglomerate, some pyrite veinlets.						
7	44.5	47.5	3.0	Conglomerate, clasts to 4 cm, sub-angular; bedding 25° to horizontal; pyrrhotitic clasts, Py in matrix, all core strongly magnetic.						
				46.9 m 2 cm quartz ankerite vein, 30°-horiz.						
	47.5	51.8	4.3	Gabbro, light to dark green, m.g., slightly porphyritic, pervasively epidotized, minor hairline quartz veinlets @ 50°-horiz., quite magnetic, interstitial magnetite.						
8	51.8	59.4	7.6	...empty box...						
9	59.4	66.4		...has been dumped and reconstituted...						
	59.4	62.5	3.1	as above						
	62.5	66.4	3.9	Finer-grained equivalent of gabbro, sometimes magnetic, mostly not; many hairline quartz veinlets @ ~50°.						
10	66.4	69.5	3.1	Gabbro, m.g., non-magnetic, minor hairline quartz vein 60°.						
	69.5	73.8	4.3	Contact over 5 cm. Syenite, pinkish-green to pink, f.g. to m.g., hypidiomorphic-granular, very hard; 1-3% finely diss Py (cubes); 1-15% v.finely diss magnetite.						
11	73.8	81.4	7.6	...empty box...						
12	81.4	88.7	7.3	...NO box...						
13	88.7	95.7	7.0	...empty box...						
14	95.7	103.0	7.3	...empty box...						
14	103.0	110.3	7.3	...empty box...						
15	110.3	118.0	7.7	...empty box...						
	118.0	125.3	7.3	...dumped but reconstituted; all split...						
				Pink to pinkish-grey to grey, v.f.g. to f.g., finely brecc., 2 mm quartz eyes(?); 1-3% finely diss Py; 0-5% very finely diss magnetite; 5-70% stained by ankerite; minor quartz-ankerite veining 1-2 mm; minor sericite books.						

16	125.3	132.6	7.3	...dumped...
17	132.6	139.9		...intact...
	132.6	133.2	0.6	Syenite, pink-red, f.g. to m.g., quite ankeritic, hematized at margin for 15 cm, gradational contact over 5 cm.
	133.2	139.9	6.7	Gabbro, f.g., quite magnetic.
18	139.9	147.5	7.6	Gabbro, f.g. to m.g., magnetic
19	147.5	151.3	3.8	as above
	151.3	153.0	1.7	Fenetized Gabbro, pinkish-grey from feldspathization, slightly brecciated, quartz ankerite veining 70°-horiz., diss ankerite stain.
	153.0	153.9	0.9	Mafic metavolcanics, fine-grained.

			153.9	END OF HOLE

TAIGA CONSULTANTS LTD.

DIAMOND DRILL LOG

CLIENT: Abermin Corporation
PROJECT: Sturgeon Narrows ONT-87-2

Property: Sturgeon Narrows Drilled: Mar.25/74 for Falconbridge Nickel Mines Limited Hole: J-2
 Claim: 704623 Re-Logged: Jun.11/87 for Abermin Corp. by R. E. Chisholm Page: 1 of 1
 Location: New Grid Bearing: 160° Dip: -43°30' TD: 227.4 m (746') Core Size: AQ Casing left in hole

BOX	FROM (m)	TO (m)	INTER (m)	LITHOLOGY	REC (%)	SAMPLE NUMBER	FROM (m)	TO (m)	INTER (m)	Au ppb
	0.0	7.3	7.3	Overburden.						
	7.3	29.6	22.3	Pebble Conglomerate, sub-round to sub-angular, max. clast size 3 cm (avg 1 cm), clast type mafic volcanic, chert, quartz, limey chert, magnetite iron formation.						
	29.6	32.0	2.4	Fenitized zone, 20% ankerite in matrix, feldspathized; 1% pyrite as cubes; shadows of clasts.						
	32.0	38.4	6.4	Conglomerate, as 7.3-29.6 m, but clasts more densely packed.						
	38.4	41.1	2.7	Fenitized halo, pink, strongly feldspathized.						
	41.1	50.3	9.2	Syenite, grey, medium-grained; 30% mafic minerals; bottom contact gradational over 3 m.						
	50.3	56.8	6.5	Conglomerate, as 7.3-29.6 m; 5% magnetite, 2% Py pebbles.						
	56.8	60.2	3.4	Feldspathized zone, pinkish-grey, fine-grained.						
	60.2	64.3	4.1	Conglomerate, as 50.3-56.8 m.						
	64.3	68.6	4.3	Feldspathized zone, pinkish grey, fine-grained; crackled, calcite filling hairline fractures @ 50°, one per 2cm.						
	68.6	70.9	2.3	as above, but fractures now filled with ankerite.						
	70.9	78.6	7.7	Syenite(?), medium-grained, shot with ankerite fractures up to 3 cm, one per 20 cm; fine fractures one per 1 cm; 30% ankerite in matrix; 1% pyrite cubes to 5 mm.						
	78.6	80.8	2.2	Conglomerate, heavily ankeritized.						
	80.8	102.1	21.3	...missing...						
	102.1	120.4	18.3	Lamprophyre(?), pinkish-grey, f.g., slightly porphyritic, 20% mafic to 2 mm, slight calcite fracturing.						
	120.4	152.7	32.3	Syenite, f.g. to m.g., pink to brick-red to grey; irregular quartz fractures to 3 cm (1 per 1 m), ankerite selvages; 1-3% diss pyrite cubes; 2-10% diss ankerite; approx. half of syenite contains 2-20% finely diss magnetite; trace specular hematite in quartz veins.						
	152.7	155.8	3.1	Sediments, ankeritized lightly, no visible clasts.						
	155.8	190.8	35.0	Sediments with scattered pebbles of pyrite, mafic volcanic, rare chert sub-rounded in v.f.g. green matrix; all very magnetic; darker sections contain up to 30% magnetite.						
	190.8	198.1	7.3	...missing...						
	198.1	199.0	0.9	as 155.8-190.8 m.						
	199.0	201.9	2.9	Lamprophyre(?), as 102.1-20.4 m, pinkish-grey, fine-grained, massive; bottom contact sharp @ 45°.						
	201.9	203.1	1.2	Sediments, as 198.1-199.0 m.						
	203.1	205.0	1.9	Sediments, ankerite stained, fractured; numerous calcite fracture fillings.						
	205.0	213.5	8.5	Lamprophyre, pinkish-grey, v.f.g., massive.; lower contact sharp @ 60°.						
	213.5	227.4	13.9	Sediments, f.g., dark green; few pebble-size clasts of more mafic material; mod.magnetic; 2% pyrite as diss and blebs.						

227.4

TAIGA CONSULTANTS LTD.

DIAMOND DRILL LOG

CLIENT: Abermin Corporation
PROJECT: Sturgeon Narrows ONT-87-2

Property: Sturgeon Narrows Drilled: Apr. 1/74 for Falconbridge Nickel Mines Limited Hole: J-3
 Claim: 704623 Re-Logged: Jun.11/87 for Abermin Corp. by R. E. Chisholm Page: 1 of 1
 Location: New Grid Bearing: 160° Dip: -45°30' TD: 75.6 m (248') Core Size: AQ Casing left in hole

FROM BOX	TO (m)	INTER (m)	LITHOLOGY	REC SAMPLE (%) NUMBER	FROM (m)	TO (m)	INTER (m)	Au ppb
0.0	1.8	1.8	Overburden.					
1.8	10.7	8.9	Sedimentary Breccia, angular fragments to 3 cm (avg 1 cm), mafic volcanic, magnetite iron formation, chert. Bands of magnetite 15 cm wide; 20% magnetite in matrix in unit as a whole, bedding 30°; 1% narrow pyrite veinlets; calcite in fractures and diss and matrix.					
10.7	16.5	5.8	Syenite dyke, pinkish grey, medium-grained, 30% mafics; fenitized sediments for margins, esp 10.7-12.5 m.					
16.5	21.0	4.5	Conglomerate, similar to 1.8-10.7 m, but clasts sub-rounded; less magnetite in matrix but still strongly magnetic; 1-2 patchy blebs of pyrite.					
21.0	24.7	3.7	Intermediate volcanic flow(?) or sediment(?); f.g., homogeneous, greenish-grey with pink tinge, massive; non-magnetic.					
24.7	29.1	4.4	Cobble Conglomerate, siliceous clasts, 15-20% magnetite matrix and magnetite iron formation pebbles 1% pyrite as blebs in matrix.					
29.1	35.2	6.1	Volcanic(?), as 21-24.7 m; f.g., bleached, shot with calcite fractures @ 50° and diss, minor ankerite frac.					
35.2	67.7	32.5	Syenite, m.g., pink, sharp contact top and bottom; first 1.8 m pale grey-green, 1-2% bright green dots of fuchsite; quartz veinlets with ankerite selvages up to 2 cm width, one per 10 cm, one per 5 cm; 3% diss Py as 1-5 mm cubes specular hematite in 5 quartz veins in syenite near bottom; 3-5% magnetite as fine diss in 1 m melanosome,					
67.7	75.6	7.9	Intermediate volcanic(?), f.g. to m.g., massive, grey-green, moderately magnetic.					
		75.6	END OF HOLE					

TAIGA CONSULTANTS LTD.

DIAMOND DRILL LOG

CLIENT: Abermin Corporation
PROJECT: Sturgeon Narrows ONT-87-2

Property: Sturgeon Narrows Drilled: Apr. 3/74 for Falconbridge Nickel Mines Limited Hole: J-4
 Claim: 704623 Re-Logged: Jun.10/87 for Abermin Corp. by R. E. Chisholm Page: 1 of 1
 Location: New Grid Bearing: 160° Dip: -56°45' TD: 89.0 m (292') Core Size: AQ Casing left in hole

BOX	FROM (m)	TO (m)	INTER (m)	LITHOLOGY	REC SAMPLE (%) NUMBER	FROM (m)	TO (m)	INTER (m)	Au ppb
	0.0	1.8	1.8	Overburden.					
	1.8	8.8	7.0	Conglomerate, sub-rounded clasts to 3 cm, clasts mafic volcanic, quartz, chert, magnetite iron formation; thin (<1 cm) wispy band of oxide iron formation, diss magnetite throughout.					
	8.8	11.3	2.5	as above, but bleached, fractured, brecciated; fractures filled with calcite and selvages of ankerite; minor hematite.					
	11.3	14.0	2.7	Fenetized sediment or syenite; pink, f.g., brecciated, crackled.					
	14.0	44.7	30.7	Sediment, gradational from f.g. to cobble conglomerate, moderately magnetic.					
	44.7	46.3	1.6	Sediment, fenetized, bleached.					
	46.3	50.6	4.3	completely fenetized & veined by & to syenite, fractured 60°, ankerite filled; 15% white chalky mineral; diss ankerite; 0-3% fine diss Py cubes; 3% diss magnetite.					
	50.6	53.0	2.4	Mafic volcanic, dark green, v.f.g.					
	53.0	78.3	25.3	Syenite, pink, medium-grained, minor fracturing @ 40°, quartz veining 0.5cm one per 10 cm; 0-5% (up to 10%) diss ankerite; 1-3% pyrite cubes; 0-5% diss magnetite.					
	78.3	80.2	1.9	Intermediate volcanic(?), m.g., abundantly fractured, stained by ankerite, 40°.					
	80.2	83.5	3.3	as above, no alteration.					
	83.5	85.6	2.1	as above, 30% ankerite stain, strongly fracture-filled by ankerite.					
	85.6	88.4	2.8	fresh, as above.					
	88.4	89.0	0.6	...missing...					
			89.0	END OF HOLE					

TAIGA CONSULTANTS LTD.

DIAMOND DRILL LOG

CLIENT: Abermin Corporation
PROJECT: Sturgeon Narrows ONT-87-2

Property: Sturgeon Narrows Drilled: Apr. 5/74 for Falconbridge Nickel Mines Limited Hole: J-5
 Claim: 704623 Re-Logged: Jun.17/87 for Abermin Corp. by R. E. Chisholm Page: 1 of 1
 Location: New Grid Bearing: 160° Dip: -46° TD: 103.9 m (341') Core Size: AQ Casing left in hole

BOX	FROM (m)	TO (m)	INTER (m)	LITHOLOGY	REC SAMPLE (%) NUMBER	FROM (m)	TO (m)	INTER (m)	Au ppb
	0.0	11.0	11.0	Overburden.					
	11.0	30.8	19.8	Conglomerate, large pebble to small cobble, sub-rounded, mafic volcanic, chert, numerous magnetite iron formation pebbles, chert and pyrite pebbles; <1% Py as blebs.					
	30.8	36.1	5.3	Conglomerate(?), feldspathized, greyish-green, slight pink tinge, fine-grained.					
	36.1	39.6	3.5	Syenite(?), pink to grey, f.g. to m.g., 30-40% very fine diss mafic material.					
	39.6	44.8	5.2	Conglomerate, bleached, feldspathized, but clasts visible.					
	44.8	76.8	32.0	43.6-44.8 magnetite content (>15%) preserves textures. Syenite, pink/red/grey, f.g.-m.g., 0-15% diss mafics, hairline to 1.5 cm thick quartz-ankerite and ankerite-quartz veinlets 52°; hairline = one per 2 cm; 1 cm = one per 30 cm; 1-2% diss Py blebs, veinlets, cubes; 0-10% diss magnetite; 5-15% diss ankerite. 72.2-76.8 9 specular hematite veinlets 1-2 cm @ 55°.					
	76.8	78.6	1.8	...missing...					
	78.6	78.9	0.3	Syenite, as above.					
	78.9	80.2	1.3	...missing...					
	80.2	80.8	0.6	Mafic Syeno-Diorite, dark grey, m.g., massive; 10% ankerite.					
	80.8	84.6	3.8	...missing...					
	84.6	86.0	1.4	portions missing; pink syenite, as 44.8-76.8 m.					
	86.0	103.9	17.9	Syenitized sediment or mafic syenite; pink-grey to grey and light green, f.g. to m.g., massive, weakly magnetic; num. hairline calcite and ankerite veinlets @ 55°, one per 2 cm.					
			103.9	END OF HOLE					

Property: Sturgeon Narrows Drilled: May 27/74 for Falconbridge Nickel Mines Limited
 Claim: 704623 Re-Logged: Jun.10/87 for Abermin Corp. by R. E. Chisholm
 Location: New Grid Bearing: 160° Dip: -40° TD: 120.7 m (396') Core Size: AQ Casing left in hole

Hole: J-6
 Page: 1 of 1

BOX	FROM (m)	TO (m)	INTER (m)	LITHOLOGY	SAMPLE NUMBER	FROM (m)	TO (m)	INTER (m)	Au ppb
	0.0	4.6	4.6	Overburden.					
	4.6	7.0	2.4	...dumped, half of box missing... Conglomerate, granule and pebble, green, polymictic, moderately magnetic.					
	7.0	10.4	3.4	Sediment(?), strongly altered; orange->green, f.g., strongly sheared & brecciated; veined; most alteration is ankerite, veins filled with ankerite and quartz, 1-2% diss pyrite; veining and shearing @ 25°, 45°.					
	10.4	11.7	1.3	Syenite, v.f.g. to m.g., 5% chalky mineral, crackle fracture filled by quartz and ankerite up to 1 cm thick @ 65°; 1-2% finely diss pyrite cubes; scattered blebs specular hematite; <3% finely diss magnetite.					
	11.7	18.1	6.4	Feldspathized sediments; pinkish-green, f.g., crackle brecciation fractures 2 mm thick filled with calcite, avg one per 2 cm; moderately magnetic.					
	18.1	22.3	4.2	Conglomerate, volcanoclastic, clasts to 4 cm, sub-rounded, 5% pyrite clasts and pyrite in matrix; 10% chert; balance mafic-intermediate volcanic clasts.	78.94	79.94	1.00	1150	
	22.3	26.2	3.9	Sediment, as 18.1-22.3 m; granule to coarse sand-sized; volcanoclastic; variably magnetic, pervasive diss calcite.	79.94	80.94	1.00	460	
	26.2	31.2	5.0	as above, but moderately to strongly altered and brecciation; weak ankerite pervasive staining, ankerite filling hairline crackle fractures 60°, one per cm.	80.94	81.94	1.00	160	
	31.2	32.0	0.8	Syenite, pink-grey, f.g., sharp contacts @ 45°; 2-3% f.g. Py cubes; non-magnetic.	81.94	82.94	1.00	90	
	32.0	33.1	1.1	Sediment, f.g., brecciated, altered; quartz and dolomite in fractures.	83.94	84.94	1.00	70	
	33.1	33.5	0.4	Syenite, pink, as 31.2-32.0 m.	84.94	85.94	1.00	350	
	33.5	39.6	6.1	Sediment, f.g., altered and brecciated, on mafic volcanic; fracture intensity and alteration decreasing away from contact.	85.94	86.94	1.00	920	
	39.6	59.4	19.8	Conglomerate, f.g. to granule, volcanoclastic (could be mafic tuff), non-magnetic.	86.94	87.94	1.00	30	
	59.4	59.9	0.5	Syenite, medium-grained, grey.	87.94	88.94	1.00	30	
	59.9	78.0	18.1	Mafic volcanic or volcanoclastic, fine-grained.	88.94	89.94	1.00	45	
	78.0	78.8	0.8	as above, feldspathized, pinkish-green, no fracturing.	89.94	90.94	1.00	65	
	78.8	107.6	28.8	Syenite sill, pink to pinkish-grey, medium-grained, diffuse contact; 5-15% diss ankerite; 1-3% diss pyrite cubes; trace specular hematite; ~40% of rock is light with 5% finely diss magnetite; 2-3% ankerite veinlets 1-3 m.	90.94	91.94	1.00	240	
	107.6	111.3	3.7	bleached zone of sediments; 1-5% calcite, esp in fractures.	91.94	92.94	1.00	90	
	111.3	118.0	6.7	Conglomerate, 5% pyrite pebbles, 2% Py in matrix.	92.94	93.94	1.00	20	
				112.9-114.3 missing	93.94	94.94	1.00	85	
				-----	94.94	95.94	1.00	10	
				118.0	95.94	96.94	1.00	5	
				END OF HOLE	96.94	97.94	1.00	10	
					97.94	98.94	1.00	10	
					98.94	99.94	1.00	3700	
					99.94	100.94	1.00	30	
					100.94	101.94	1.00	15	
					101.94	102.94	1.00	5	
					102.94	103.94	1.00	10	
					103.94	104.94	1.00	10	
					104.94	105.94	1.00	5	
					105.94	106.94	1.00	<5	
					106.94	107.57	0.63	10	

TAIGA CONSULTANTS LTD.

DIAMOND DRILL LOG

CLIENT: Abermin Corporation
PROJECT: Sturgeon Narrows ONT-87-2Property: Sturgeon Narrows Drilled: May 29/74 for Falconbridge Nickel Mines Limited
Claim: 704623 Re-Logged: Jun.18/87 for Abermin Corp. by R. E. Chisholm
Location: New Grid Bearing: 160° Dip: -40° TD: 96.3 m (316') Core Size: AQ Casing left in holeHole: J-7
Page: 1 of 1

FROM BOX	TO (m)	INTER (m)	LITHOLOGY	SAMPLE NUMBER	FROM (m)	TO (m)	INTER (m)	Au ppb
0.0	1.4	1.4	Overburden.	43.28	44.28	1.00	<5	
1.4	3.0	1.6	Feldspathized Sediment, light green, bleached; contact sharp @ 40°.	44.28	45.28	1.00	<5	
			2.1-2.4 pink f.g. syenite dykelet, 15-20% banded pyrite, -40°.	45.28	46.28	1.00	<5	
				46.28	47.28	1.00	<5	
				47.28	48.28	1.00	5	
3.0	11.9	8.9	Sediment, f.g., with small pebble-size clasts of chert and pyrite scattered randomly; often black, very strongly magnetic, magnetite 15-60% variable; pyrite 10-15% as clasts, blebs, stringers.	48.28	49.28	1.00	10	
				49.28	50.28	1.00	60	
				50.28	51.28	1.00	75	
				51.28	52.28	1.00	40	
11.9	38.7	26.8	Lamprophyre, pinkish grey, massive porphyritic, mafics (biotite now chloritized) to 3 mm; upper contact gradational over 10 cm but magnetite disappears immediately.	52.28	53.28	1.00	10	
				53.28	54.28	1.00	5	
				54.28	55.28	1.00	<5	
38.7	43.3	4.6	as above, but bleached; diss ankerite increases to 10% calcite fractures 45°.	55.28	56.28	1.00	<5	
				56.28	57.28	1.00	<5	
43.3	86.3	43.0	Syenite, pink, massive, f.g. to m.g.; hairline fractures filled by ankerite one per 5 cm more abundant near top contact; 15-20% diss ankerite up to 2 mm; weakly magnetic, 5% magnetite; 1-2% diss pyrite cubes; quartz veining hairline to 1 cm thick 50°, ankerite selvages, one per 20 cm. ...numerous sections of core missing...	57.28	58.28	1.00	5	
				58.28	59.28	1.00	<5	
				59.28	60.28	1.00	10	
				60.28	61.28	1.00	<5	
				61.28	62.28	1.00	<5	
				62.28	63.28	1.00	<5	
86.3	87.5	1.2	Sediment, bleached, strongly altered, magnetic; ankerite veinlets 55°, one per 3 cm; diss ankerite stain.	63.28	64.28	1.00	5	
				64.28	65.28	1.00	25	
87.5	96.3	8.8	Sediment, dark green, fine-grained, strongly magnetic; pyrite clasts to 10%, much diss pyrite; alteration increases down hole.	65.28	66.28	1.00	<5	
				66.28	67.28	1.00	10	
				67.28	68.28	1.00	130	
				68.28	69.28	1.00	90	
				69.28	70.28	1.00	180	
				70.28	71.28	1.00	60	
				71.28	72.28	1.00	170	
				72.28	73.28	1.00	150	
				73.28	74.28	1.00	25	
				74.28	75.28	1.00	35	
				75.28	76.28	1.00	75	
				76.28	77.28	1.00	200	
				77.28	78.28	1.00	160	
				78.28	79.28	1.00	150	
				79.28	80.28	1.00	130	
				80.28	81.28	1.00	85	
				81.28	82.28	1.00	100	
				82.28	83.28	1.00	2200	
				83.28	84.28	1.00	170	
				84.28	85.28	1.00	380	
				85.28	86.28	1.00	55	
		96.3	END OF HOLE					

TAIGA CONSULTANTS LTD.

DIAMOND DRILL LOG

CLIENT: Abermin Corporation
PROJECT: Sturgeon Narrows ONT-87-2

Property: Sturgeon Narrows Drilled: Jun. 5/74 for Falconbridge Nickel Mines Limited Hole: J-8
 Claim: 704623 Re-Logged: Jun. 10/87 for Abermin Corp. by R. E. Chisholm Page: 1 of 1
 Location: New Grid Bearing: 340° Dip: -45° TD: 86.0 m (282') Core Size: AQ Casing left in hole

FROM BOX	TO (m)	INTER (m)	LITHOLOGY	SAMPLE NUMBER	FROM (m)	TO (m)	INTER (m)	Au ppb
0.0	2.1	2.1	Overburden.					
2.1	7.2	5.1	Volcaniclastic Conglomerate, sub-angular clasts to 1 cm, mostly mafic volcanics, some chert, weakly magnetic.					
7.2	9.4	2.2	Feldspathized Sediment, pinkish grey, very hard, strongly magnetic, minor ankerite fracturing.					
9.4	17.7	8.3	as 2.1 - 7.2 m; sediment gradually becoming feldspathized.					
17.7	21.0	3.3	Syenite, outer margin, pinkish-grey, f.g., ankerite fractures 2 mm, one per 5 cm.					
21.0	34.1	13.1	Syenite, pink, f.g. to m.g., 5-10% ankerite as diss and veinlets; 1-2% Py cubes to 5 mm; 2-5% diss magnetite.					
34.1	36.6	2.5	Dyke, outer fenitized margin, as 17.7 - 21.0 m.					
36.6	47.5	10.9	Clastic sediment, f.g., relatively massive; weak diss calcite, numerous calcite veinlets 1-2 mm, 10° and 40°, one per cm; rare feldspathized patches 3-8 cm, weakly magnetic.	66.14	67.14	1.00	<5	
47.5	48.6	1.1	Syenite (pink to brick red) and fenitized sediment, f.g.-m.g., hematized; 5% diss calcite, trace ankerite and Py in fractures.	67.14	68.14	1.00	10	
48.6	66.9	18.3	Sediment, f.g., with feldspathized patches, minor fracturing.	68.14	69.14	1.00	5	
66.9	75.9	9.0	60.0-66.9 ankeritized and fractured ankerite/quartz.	69.14	70.14	1.00	55	
75.9	77.4	1.5	Syenite, pink, m.g., sporadically hematized, crackle fractured; 5-10% diss ankerite and fracture filling 50°; 1-2% diss Py cubes; non-magnetic.	70.14	71.14	1.00	65	
77.4	83.8	6.4	Feldspathized sediment, fine-grained.	71.14	72.14	1.00	170	
83.8	86.0	2.2	Sediment, fine-grained, (intermediate volcanics?)	72.14	73.14	1.00	65	
			Conglomerate, few sub-rounded pebbles of siliceous material.	73.14	74.14	1.00	55	
				74.14	75.14	1.00	<5	
				75.14	76.14	1.00	40	
				76.14	77.14	1.00	5	
		86.0	END OF HOLE					

A P P E N D I X I I I

Summary of Personnel

Sturgeon Narrows

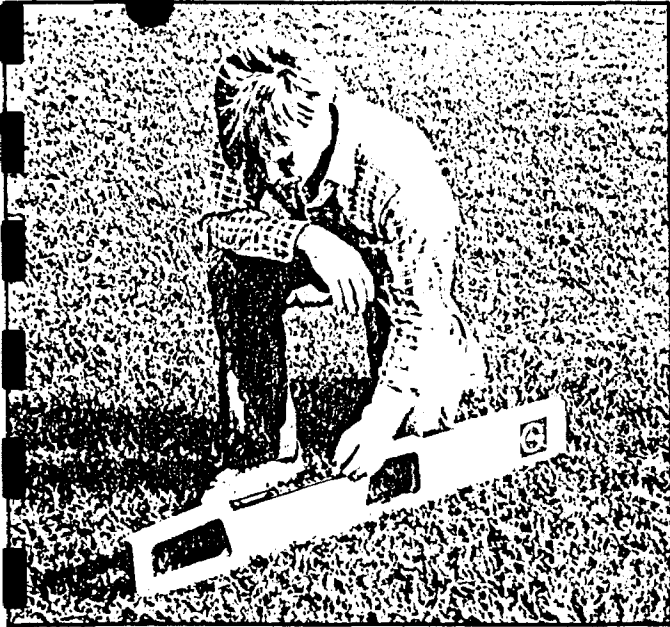
SUMMARY OF PERSONNEL

<u>Name / Address</u>	<u>Position</u>	<u>Dates</u>	<u>Man days</u>
<u>TAIGA Personnel</u>			
Robin E. Chisholm 1322 - 1st St. NW Calgary, AB T2M 2S4	Project Geologist	Jun.01-26 Aug.10-24	26 10
Ian Young 3609 - 1A Street SW Calgary, AB T2S 1R4	Sampler/Drill Helper	Jun.01-26	26
Mac Hislop P. O. Box 745 Cranbrook, BC V1C 4J5	Operator	Jun.01-26	26
Brian Fyke 1120 Lake Wapta Rd SE Calgary, AB T2J 2P2	Geological Assistant	Jun.01-26	26
<u>ABERMIN Personnel</u>			
Barry W. Smee	Project Supervisor	Jun.01-05	5
Ken Reading	Prospector	Jun.01-05	5
Allan Cole c/o Abermin Corporation 1500, 1075 West Georgia Vancouver, BC V6E 3C8	Drill Helper	Jun.01-05	5
Les Allen P. O. Box 128 Gabriola Island, BC	Driller	Jun.04-14	<u>11</u>
TOTAL MAN DAYS			140

A P P E N D I X I V

Instrument Specifications

NEAR SURFACE CONDUCTIVITY



EM38

Designed to be particularly useful for agricultural applications such as field surveys of soil salinity, the EM38 can cover large areas quickly with ground electrodes. The EM38, based on the same patented principles as Geonics Ground Conductivity Meters, provides depths of exploration of 0.75 meters in the horizontal dipole mode - normal operating position, 1.5 meters in the vertical dipole mode - lying on its side (see Geonics Technical Notes TN5 and TN6).

Very lightweight and only one meter long, the EM38 provides rapid surveys with excellent lateral resolution. Measurement is normally made by placing this instrument on the ground and noting the meter reading. However with this instrument it is also possible to record the meter reading at various instrument heights above the ground (from zero to two meters) and thus, using the supplied interpretation curves, to fully resolve a two-layered earth.

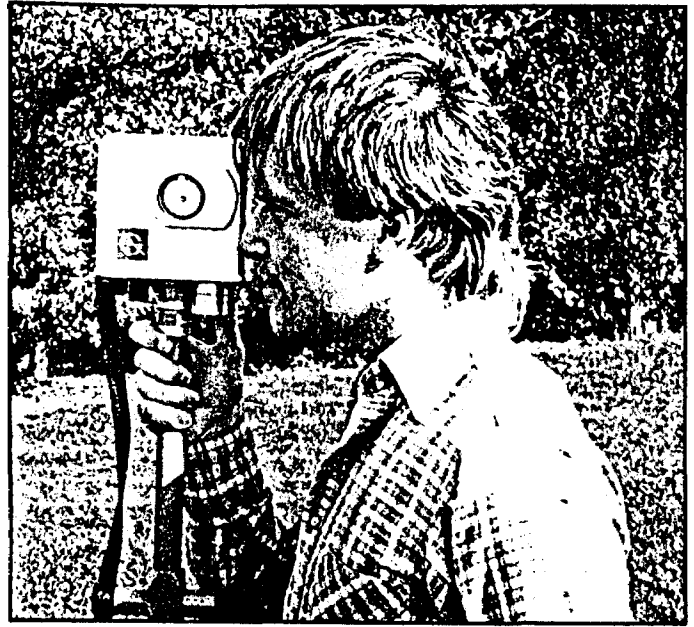
To further enhance the mapping potential of the EM38, measurement can also be made of the magnetic susceptibility of the soil.

In addition to its agricultural application, the EM38 has proven to be very useful in other areas where a knowledge of the near surface conductivity can be applied, such as general geotechnical mapping and archaeology.

Specifications

MEASURED QUANTITY	Apparent conductivity of the ground in millimhos per meter.
PRIMARY FIELD SOURCE	Self-contained dipole transmitter.
SENSOR	Self-contained dipole receiver.
INTERCOIL SPACING	1 meter.
OPERATING FREQUENCY	13.2 kHz
POWER SUPPLY	9V Transistor Radio Battery (eg. Mallory MN1604)
CONDUCTIVITY RANGES	0-30, 100, 300, 1000 millimhos per meter.
MEASUREMENT PRECISION	± 3% of full scale deflection.
BATTERY LIFE	30 hours continuous for MN1604
DIMENSIONS	103 x 12 x 2.5 cm
WEIGHT	Instrument Weight: 1.4 kgm Shipping Weight: 4.1kgm

VLF EM



EM16

One of the most popular and widely used electromagnetic instruments, the EM16 VLF receiver makes the ideal reconnaissance EM. This can be attributed to its field reliability, operational simplicity, compactness and mutual compatibility with other reconnaissance instruments such as portable magnetometers and radiometric detectors.

The VLF method of EM surveying, pioneered by Geonics, has proven to be a simple economical means of mapping geological structure and fault tracing. The applications are many and varied, ranging from direct detection of massive sulphide conductors to the indirect detection of precious metals and radioactive deposits.

FEATURES

- The EM16 is the only VLF instrument that measures the quad-phase as well as the in-phase secondary field. This has the advantage of providing an additional piece of data for a more comprehensive interpretation and also allows a more accurate determination of the tilt angle.
- The secondary fields are measured as a ratio to the primary field making the measurement independent of absolute field strength.
- The EM16 is the only VLF receiver that can be adapted to measure VLF resistivity.

Specifications

MEASURED QUANTITY	In-phase and quad-phase components of vertical magnetic field as a percentage of horizontal primary field. (i.e. tangent of the tilt angle and ellipticity)
SENSITIVITY	In-phase : ±150% Quad-phase : ± 40%
RESOLUTION	±1%
OUTPUT	Nulling by audio tone. In-phase indication from mechanical inclinometer and quad-phase from a graduated dial.
OPERATING FREQUENCY	15-25 kHz VLF Radio Band. Station selection done by means of plug-in units.
OPERATOR CONTROLS	On/Off switch, battery test push button, station selector switch, audio volume control, quadrature dial, inclinometer.
POWER SUPPLY	6 disposable 'AA' cells
DIMENSIONS	42 x 14 x 9 cm
WEIGHT	Instrument: 1.6 kg Shipping : 5.5 kg

SCINTREX MBS-2 Total Field Magnetic Base Station

Function

The MBS-2 is a compact, portable, self powered, total field magnetic base station which incorporates the MP-2 Portable Proton Precession Magnetometer. It is designed and constructed to operate for extended periods at remote locations under a variety of environmental conditions. The resolution is one gamma.

The MBS-2 may be used as a base station for ground and airborne magnetic surveys, in observatories as well as for land, air and sea mobile surveying.

Visual digital display and analogue strip chart outputs are integral to the MBS-2. In addition, analogue and digital outputs are provided for external recording. Internal or external power supplies may be used.

Variable sampling intervals from 2 seconds to 10 minutes plus externally triggered response coupled with selectable recorder chart speeds and selectable analogue sensitivity permit a full range of settings for any monitoring situation.

The MBS-2 is supplied complete with MP-2 Magnetometer, recording control console, 50 metre sensor cable, sensor, non-magnetic tripod, one roll of chart paper, connectors, carrying case, and instruction manual. Optional accessories offer the flexibility of employing the MP-2 as a field portable survey unit.

Features

One gamma sensitivity and accuracy over the range of 20,000 to 100,000 gammas.

Operates in very high gradients, to 5000 gammas per metre.

Internal D cell power supply allows approximately 80 hours of operation. Alternatively, external power sources can be used.

Light Emitting Diode digital display for total field, lamp test and battery test.

Analogue recording output is switch selectable at 10, 100 or 1000 gammas full scale.

Digital output for interfacing with cassette or computer compatible magnetic tape recorders.

Automatic sampling intervals are variable from two seconds to ten minutes. Alternatively manual or remote clock commands can be used for any sampling interval greater than two seconds.

Timing pulse output allows synchronization of the MBS-2 with a remote recording system.

Timing pulses are automatically shown each ten minutes on the analogue strip chart.

Automatic stepping ensures no off-scale analogue traces.

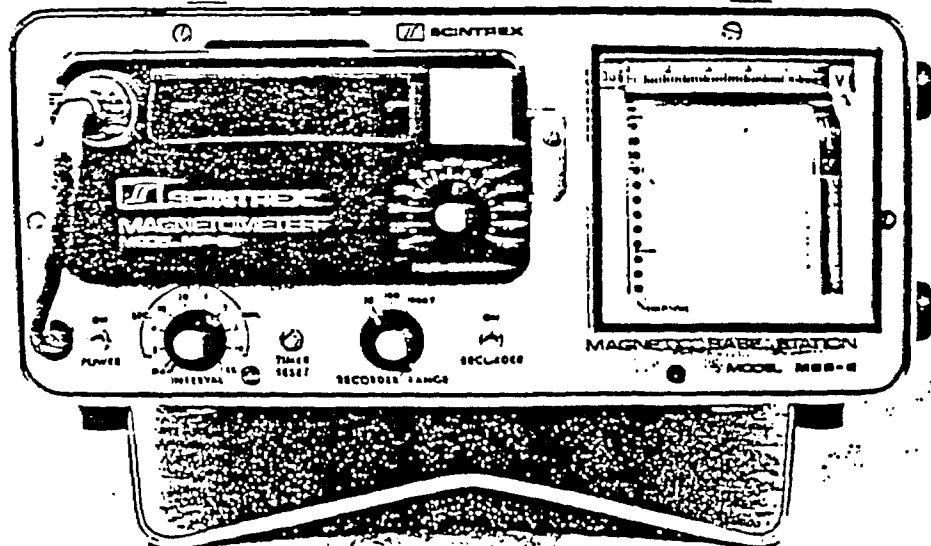
Reset feature allows precise initiation of recording to synchronize with airborne or other systems.

Unique no-glare polarized reflector permits easy reading in bright sunlight.

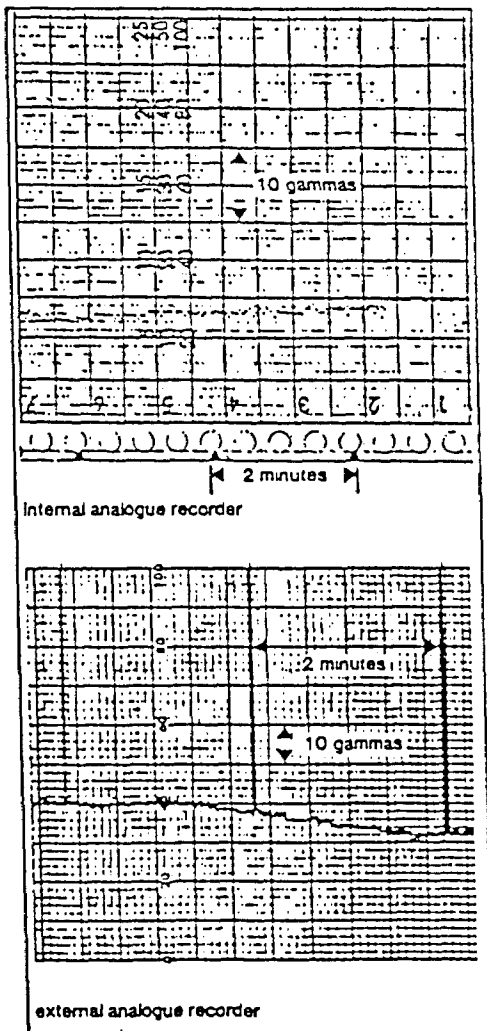
Indicator light warning of excessive gradient, ambient noise or electronic failure.

Rugged, all metal housing for rough field use.

MP-2 magnetometer plus optional accessories kit can be used as a field portable survey unit.



Description of MBS-2 Total Field Magnetic Base Station



Total Field Accuracy	= 1 gamma over full operating range
Operating Range	20,000 to 100,000 gammas in 25 overlapping switch selectable steps
Gradient Tolerance	Up to 5000 gammas/metre
Sensor	Omnidirectional, shielded, noise-cancelling, dual coil
Sampling Rate	Internal control: switch selectable every 2, 4, 10, 30 seconds or 1, 2, 10 minutes. External control: manual command or by external clock at any rate longer than 2 seconds. For external trigger, a positive transition from 0 to -4V or greater initiates one reading.
Clock Accuracy and Stability	= 10 ppm over full temperature range.
Visual Outputs	5 digit light emitting diode numerical display lasting 0.1 seconds in automatic recycle mode and 1.7 seconds in manual mode. Internal strip chart recorder with 65 mm chart width and 100 or 600 mm/hr chart speed. Inkless recording. Switch selectable at 10, 100 or 1000 gammas full scale.
External Outputs	5 digit, 1-2-4-8 BCD DTL, TTL compatible (2 loads) with 0.5 msec, 5V pulse for synchronization of MBS-2 and external recorder. Analogue recorder output of 1V at 1 mA max. Switch selectable for 10, 100 or 1000 gammas full scale.
Time Marker	A 1.5 second pulse every 10 minutes generates a time mark on the internal or on external analogue recorders. For an external analogue recorder, a switch to ground is provided (NPN transistor, 40V max., 250 mA max.). No side pen is required for continuously writing recorders as the pen returns to zero at every event mark.
Sensor Cable	Intervals of less than 10 minutes are optional 50 m length is standard
Power Requirement	The internal batteries of the MP-2, (8 "D" cells) are used to power all functions of the MBS-2. This power source lasts approximately 80 hours, at 25°C and a once per minute sampling interval. An external 10 to 32V DC supply may alternatively be used. Current drain is approximately 0.9A during polarize time and 35 mA during standby, depending upon supply voltage.
Battery Test	Digital readout of normalized internal battery voltage activated by touching switch.
Operating Temperature Range	Console: 0 to 50°C Sensor: -35 to 50°C
Dimensions	Console: 140 mm x 310 mm x 390 mm Sensor: 80 mm diameter x 150 mm length Tripod: 130 mm extended length
Weights	Console: 7.7 kg Sensor with cable: 5.5 kg Tripod: 1.5 kg
Shipping Weight	Approximately 18 kg
Optional Accessories	Sensor monopod, harness, sensor backpack and 2 m sensor cable allow field portable survey use of MP-2 magnetometer. See MP-2 specification sheet.

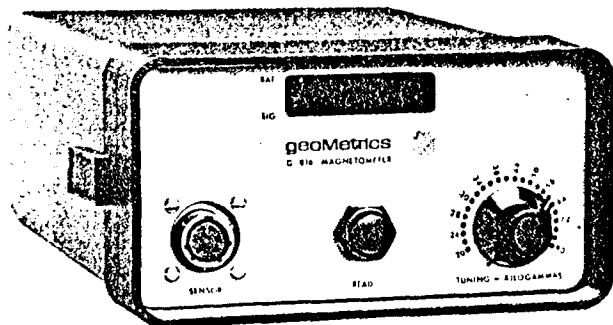
Complete Geophysical
Instrumentation
and Services

Scintrex Limited
222 Snidercroft Road
Concord (Toronto) Ontario
Canada L4K 1B5
Tel: (416) 669-2280
Telex: 06-964570
Cable: Scintrex Toronto

PORTABLE MAGNETOMETERS

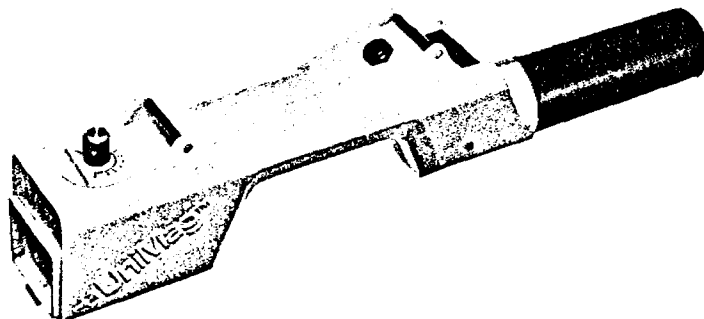


PORTABLE PROTON MAGNETOMETER Model G-816



This unique man-carry field magnetometer provides absolute 1.0 gamma measurement of the earth's total field intensity from a single push button control. The Model G-816 Portable Proton Magnetometer does not require leveling, calibration or temperature compensation and is suited for man-carry mineral and petroleum exploration, magnetic mapping, archeological exploration and search applications. Each measurement is displayed on a 5-digit illuminated readout directly in gammas. The sensor mounts on a collapsible 8 ft. (2.5 m) aluminum staff or in a backpack when "hands-free" operation is important. Disposable carbon zinc "D" cell batteries allow up to 10,000 readings per set. Increased sensitivity to 0.25 gamma is optional. The G-816 comes complete including sensor, staff, signal cables, shoulder harness, spare batteries, operator's manual, 64-page "Applications Manual for Portable Magnetometers" and reusable field suitcase.

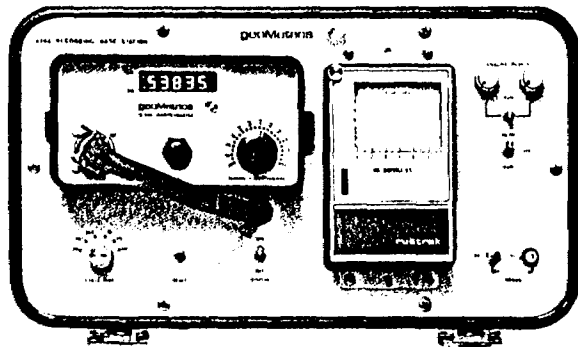
UNIMAG™ FIELD PROTON MAGNETOMETER Model G-836



UniMag™ Field Proton Magnetometer Model G-836 is a completely self-contained proton magnetometer for mineral exploration, geological mapping, engineering geology, research, and general follow-up of aeromagnetic reconnaissance surveys. UniMag Magnetometer features high gradient tolerance and rechargeable batteries within a single compact hand-held console. Requiring no staff, separate sensor or external cable, the UniMag Magnetometer provides absolute accuracy, 10 gamma resolution, field reliability, single push button control, and uncomplicated operation.

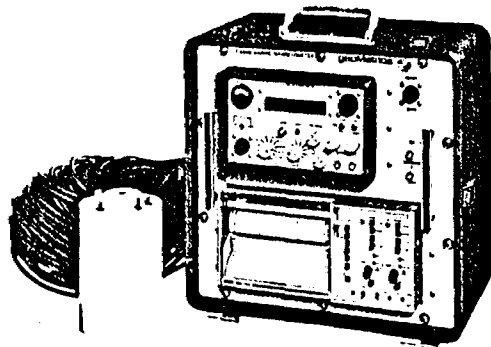
UniMag comes complete with batteries and sensor, adjustable shoulder strap, spare batteries, battery charger, operator's manual, 64-page "Applications Manual for Portable Magnetometers" and field attache case for storage.

RECORDING BASE STATION PROTON MAGNETOMETER Model G-826A



The Model G-826A Portable/Base Station Proton Magnetometer is compact, versatile and rugged, and may be used interchangeably for fixed station diurnal monitoring or portable man-carry applications. The G-826A system provides absolute accuracy, 1.0 gamma sensitivity (0.25 gamma sensitivity is optionally available), drift-free measurements, worldwide operation and complete freedom from calibration and orientation errors. Operation is from external 115/220 V, 50/60 Hz ac or 24 Vdc power (base station) or internal "D" cell flashlight batteries (portable). Data outputs include a 5-digit visual readout, 5 BCD data characters, and a single analog channel. The complete G-826A system includes a portable magnetometer with all man-carry accessories, converter/timer console, two high-gain sensors (one for the base station and one for the portable system), low noise 150 ft. (45 m) signal cable, analog recorder, operator's manual, 64-page "Applications Manual for Portable Magnetometers" and weather-proof cabinet.

MARINE SEARCH AND BASE STATION MAGNETOMETER Model G-806M



The G-806M Magnetometer System is a field-proven cost-effective and versatile tool for marine search/salvage, geophysical survey or fixed base station applications. Using the principle of nuclear precession, the G-806M provides absolute and drift-free measurements of the earth's total magnetic field directly in gammas. The marine system allows precise measurement and display of all earth's field changes caused by local magnetic objects or more distant geologic formations and the base station system allows accurate measurement and display of diurnal variations and magnetic storm activity.

Operation is worldwide with complete freedom from calibration and orientation errors. The G-806M electronics and a dual channel analog recorder are contained in a compact, rugged, waterproof case with marine tow system for use in any vessel up to 60 ft. (18 m) in length or base station sensor and cable.



Ministry of Natural Resources

File _____

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Geological Mapping, VLF-EM, Magnetometer, Soil Geochemical

Township or Area Six Mile Lake

Claim Holder(s) Abermin Corporation

Survey Company Taiga Consultants Ltd.

Author of Report Robin Chisholm (Taiga)

Address of Author #100, 1300 - 8th Street S.W., Calgary

Covering Dates of Survey June 1 - August 25, 1987
(linecutting to office)

Total Miles of Line Cut 1.165 km (.72 mile)
Chained 5.35 km (3.32 mile)

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
Pa	704623
Pa	815753
Pa	815754
Pa	815756

**SPECIAL PROVISIONS
CREDITS REQUESTED**

ENTER 40 days (includes
line cutting) for first
survey.

ENTER 20 days for each
additional survey using
same grid.

	DAYS per claim
Geophysical	
-Electromagnetic	40
-Magnetometer	20
-Radiometric	
-Other	
Geological	20
Geochemical	20

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: August 24/87 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications this file

Previous Surveys

File No.	Type	Date	Claim Holder

RECEIVED

SEP 24 1987

MINING LANDS SECTION

TOTAL CLAIMS 4

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations Geochem 593, Geophys 875 Number of Readings Geochem 593, Geophys 875
Station interval Geochem. 5 m, VLF, Mag. 10 m Line spacing 25 m
Profile scale VLF 1 cm 20 degrees
Contour interval Geochem 10ppm doubling, Mag 100 Gamma, VLF-EM 10

MAGNETIC

Instrument Geometrics G826 proton field mag, Scintrex MBS-2 Base Mag
Accuracy - Scale constant 1 Gamma
Diurnal correction method Base station and recorder
Base Station check-in interval (hours) 30 sec.
Base Station location and value Camp see Map #1

ELECTROMAGNETIC

Instrument VLF EM-16
Coil configuration
Coil separation
Accuracy
Method: [X] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency NLK Seattle crosslines, NSS Annapolis tielines (specify V.L.F. station)
Parameters measured in-phase, quadrature

GRAVITY

Instrument
Scale constant
Corrections made
Base station value and location
Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument
Method [] Time Domain [] Frequency Domain
Parameters - On time Frequency
- Off time Range
- Delay time
- Integration time
Power
Electrode array
Electrode spacing
Type of electrode

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken 704623, 815753, 815754, 815756

Total Number of Samples 593

Type of Sample Humus
(Nature of Material)

Average Sample Weight 20gm

Method of Collection Hand

Soil Horizon Sampled A1

Horizon Development _____

Sample Depth 5-20 cm

Terrain Taiga

Drainage Development 70% well drained, 30% swamp

Estimated Range of Overburden Thickness _____
10 cm to 50 m

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

Humus (A1) - 150 Mesh

Rock - 150 Mesh

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others Au

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory Bondar-Clegg

Extraction Method Fire Assay Precon.

Analytical Method Atomic Absorbtion

Reagents Used Aqua Regia

General _____



Ministry of
Northern Development
and Mines

Ontario

Ministère du
Développement du Nord
et des Mines

January 8, 1988

Your File: 87-162
Our file: 2.10330

Mining Recorder
Ministry of Northern Development and Mines
Court House
P.O. Box 3000
Sioux Lookout, Ontario
POV 2T0

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
RESEARCH OFFICE

JAN 15 1988

RECEIVED

Dear Sir:

RE: Notice of Intent dated December 21, 1987
Geophysical (Electromagnetic and Magnetometer),
Geological and Geochemical Surveys on Mining Claims
PA 704623 et al in the Area of Six Mile Lake

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, Manager
Mining Lands Section
Mines and Minerals Division

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

RM
RM:p1

Enclosure: Technical Assessment Work Credits

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

Resident Geologist
Sioux Lookout, Ontario

Abermin Corporation
Suite 1500
1075 West Georgia Street
Vancouver, B.C.
V6E 3C9



Recorded Holder	J.W. Redden
TAXONOMY Area	Six Mile Lake

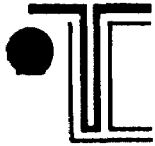
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ 26 _____ days Magnetometer _____ 13 _____ days Radiometric _____ _____ days Induced polarization _____ _____ days Other _____ _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ 13 _____ days Geochemical _____ 13 _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	PA 704623 815753 to 754 inclusive 815756

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

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

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



TAIGA CONSULTANTS LTD.

SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2
TELEPHONE (403) 226-2178

August 28, 1987

RECEIVED

SEP 1 1987

MINING LANDS SECTION

Mining Lands Section
Ministry of Natural Resources
#6610, 99 Wellesley Street
Queen's Park
Toronto, ON M7A 1W3

Dear Sir:

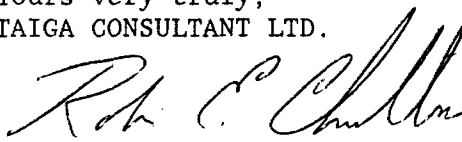
RE: Work Assessment Filing, Sturgeon Narrows Property,
Patricia Mining Division, Six Mile Lake Area, G-2561

On behalf of my client, Abermin Corporation, please find enclosed a Technical Data Statement and two Report of Work forms and two copies of the technical report entitled "Geological, Geochemical, and Geophysical Evaluation of the Redden Option, Sturgeon Narrows Area". These enclosures are in regard to filing of assessment work for claims Pa70463, Pa810419 to Pa810423, Pa815752 to 815757. These twelve claims form a single contiguous block registered in the name of Abermin Corporation.

Should you have any questions regarding this filing, please contact me at the above address.

Thank you very much for your cooperation in this matter.

Yours very truly,
TAIGA CONSULTANT LTD.



Robin E. Chisholm, F.GAC

REC/eb
Enclosures

Fourbay Lake G-2543

9100

2100

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROAD
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-FERROUS MINES
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKOG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

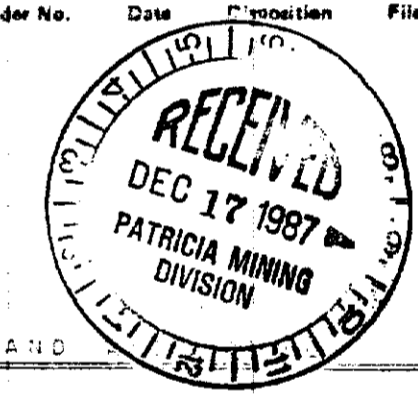
- | TYPE OF DOCUMENT | SYMBOL |
|---------------------------------|--------|
| PATENT, SURFACE & MINING RIGHTS | |
| SURFACE RIGHTS ONLY | |
| MINING RIGHTS ONLY | |
| LEASE, SURFACE & MINING RIGHTS | |
| SURFACE RIGHTS ONLY | |
| MINING RIGHTS ONLY | |
| LICENCE OF OCCUPATION | |
| ORDER-IN-COUNCIL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

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 280, SEC. 23, SUBSEC. 1.

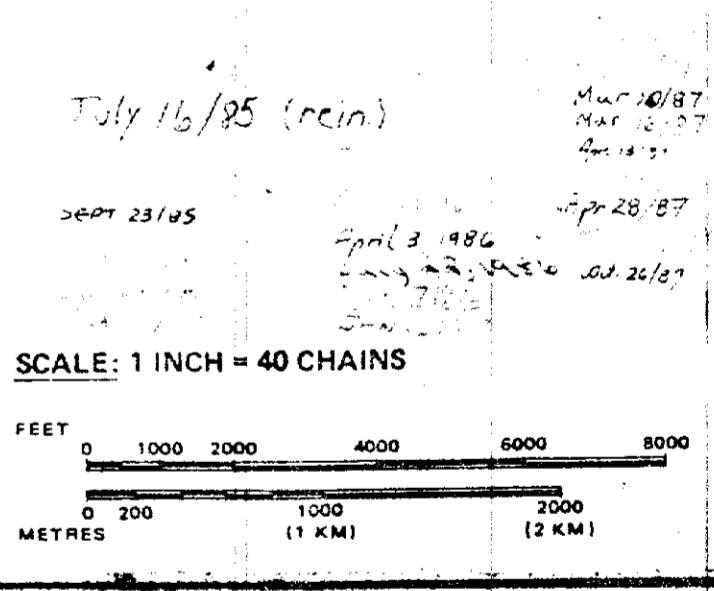
REFERENCES

- AREAS WITHDRAWN FROM DISPOSITION
- M.R.O. - MINING RIGHTS ONLY
 - S.R.O. - SURFACE RIGHTS ONLY
 - M.A.S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File



SCALE: 1 INCH = 40 CHAINS



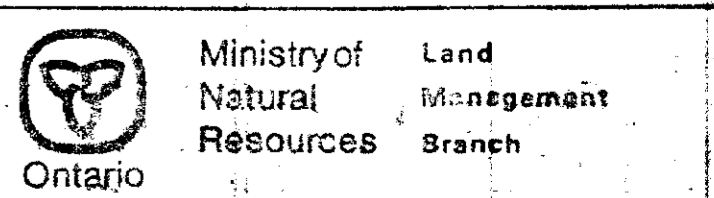
AREA

SIXMILE LAKE

M.N.R. ADMINISTRATIVE DISTRICT IGNACE

MINING DIVISION PATRICIA

LAND TITLES / REGISTRY DIVISION KENORA/THUNDER BAY

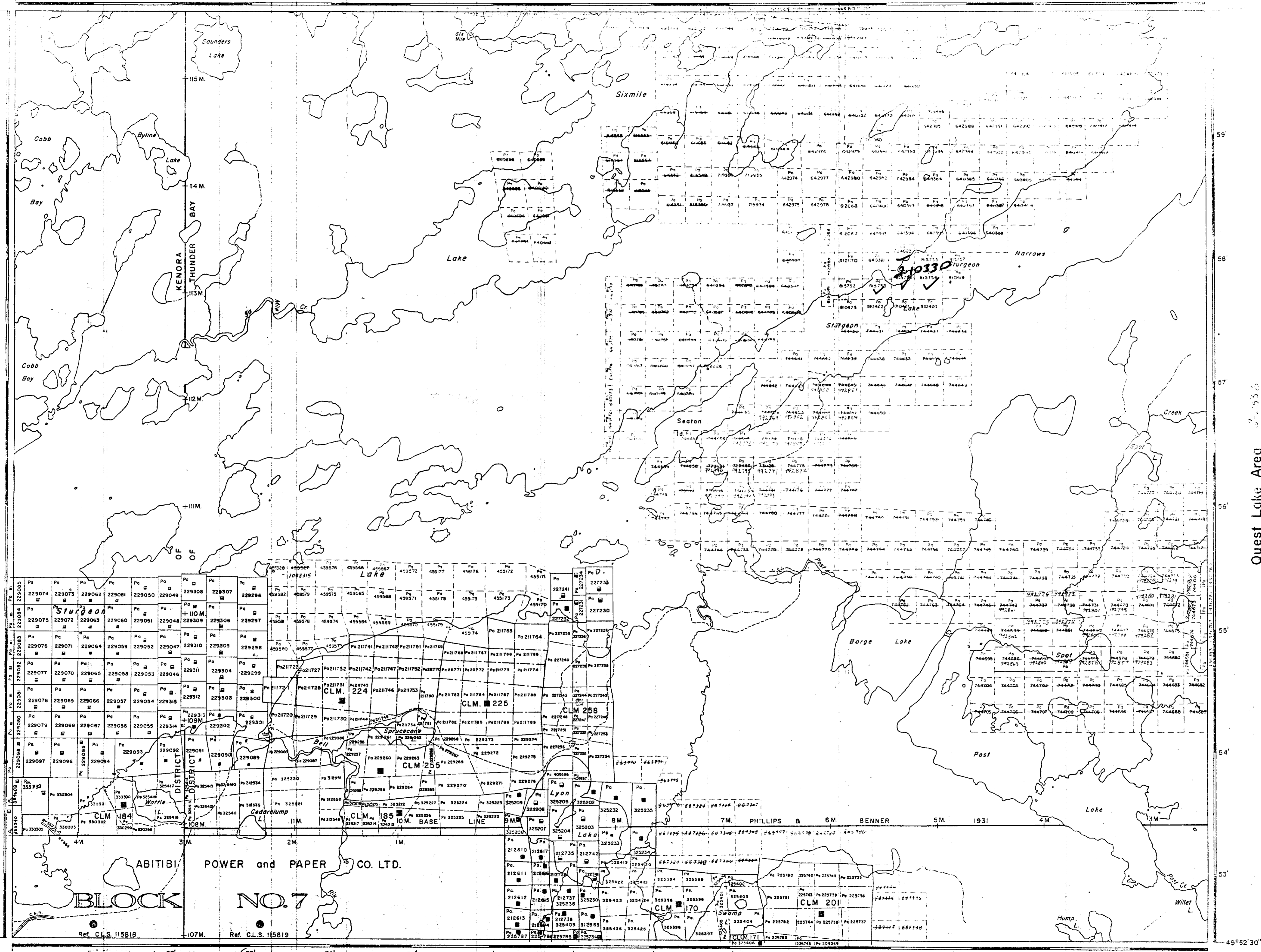


Date FEBRUARY, 1984. Number

G-2561

Penassi Lake G-2524

Quest Lake Area G-2556



POWER and PAPER CO. LTD. BLOCK NO. 7

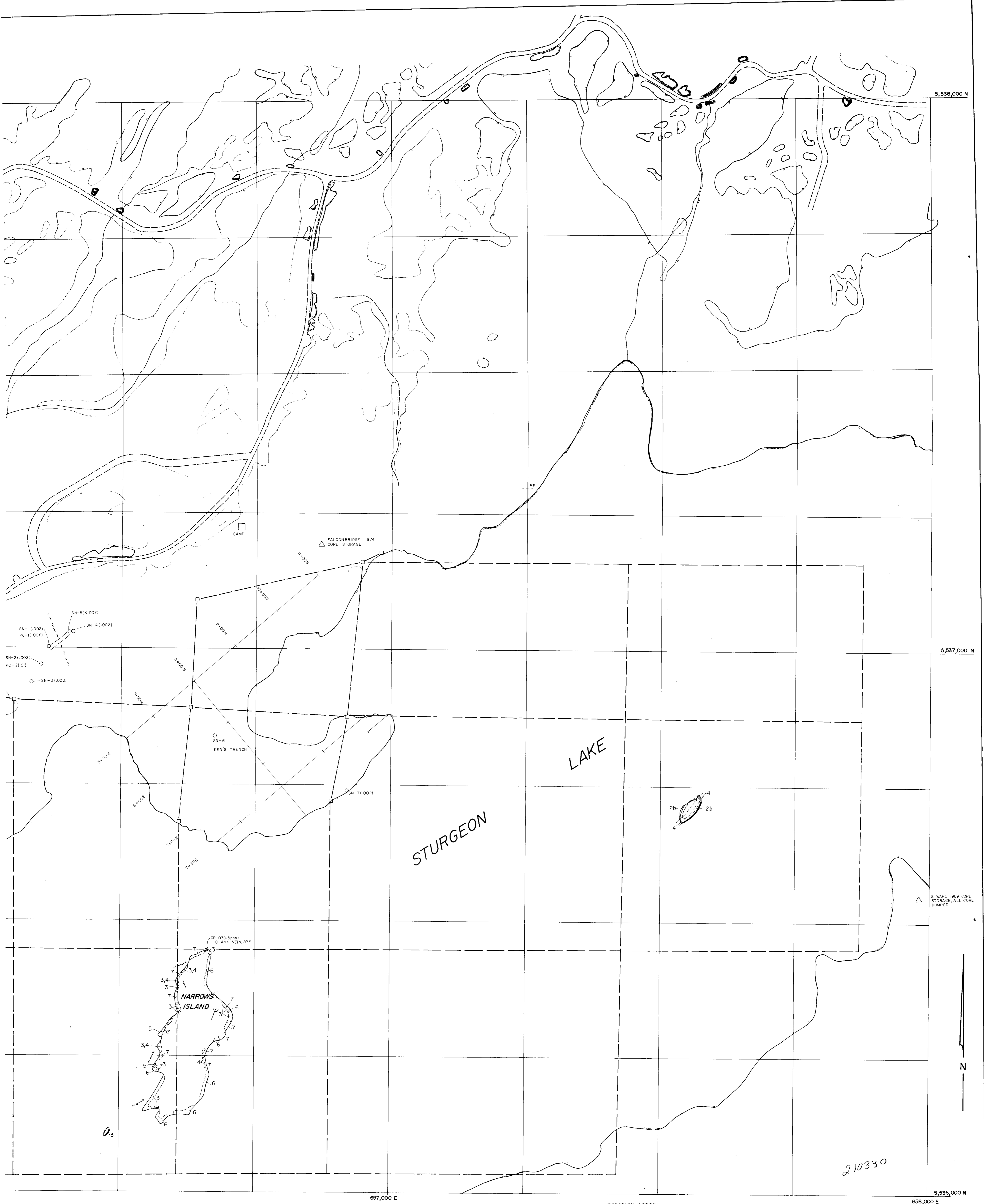
Bell Lake G-1888



52015M00005 2.10330 SIXMILE LAKE

200

498904

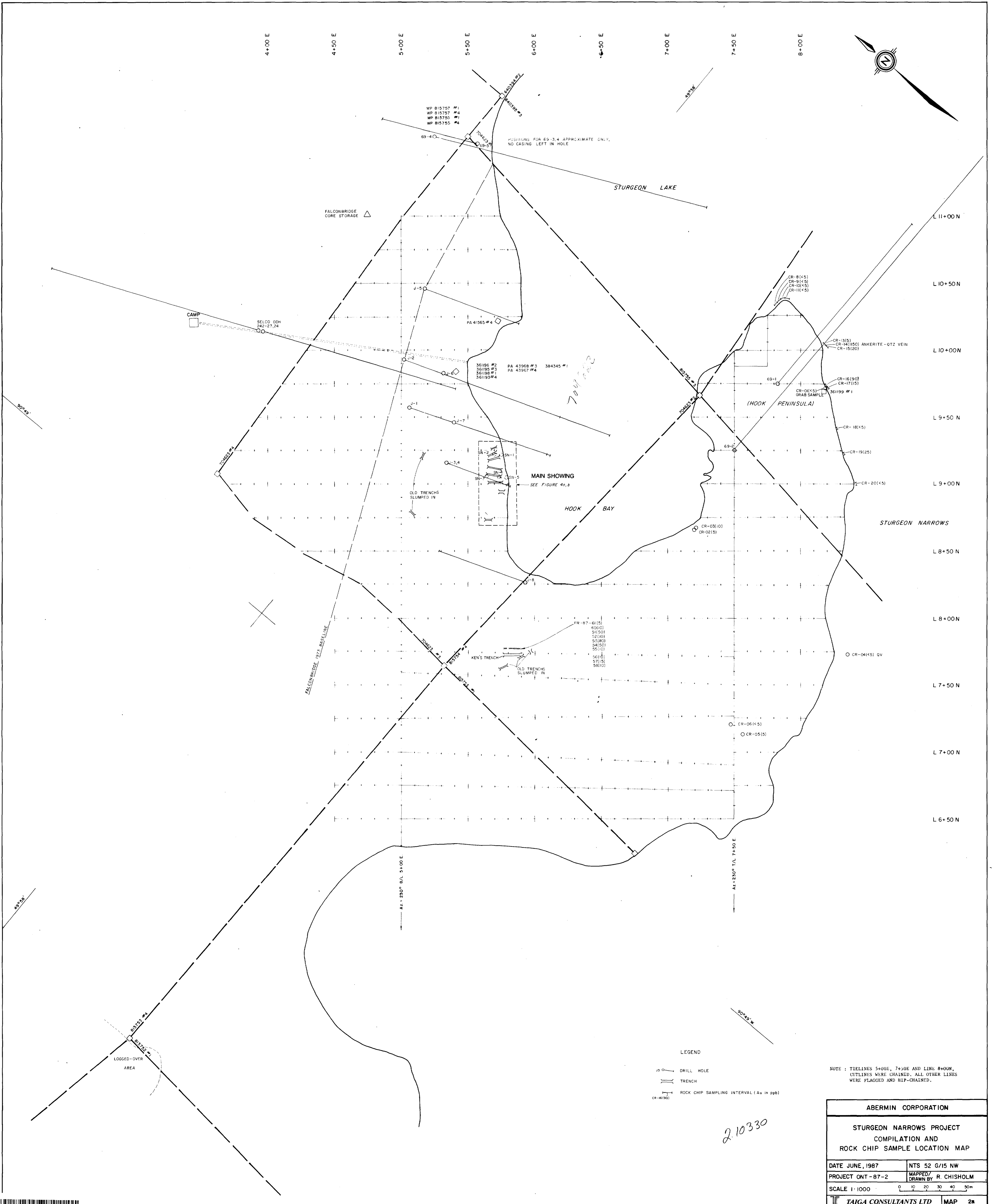


LEGEND		GEOLOGICAL LEGEND		DATE OF PHOTOGRAPHY 1982	
SN-11(002) ^o ROCK GRAB SAMPLE (Au in oz/ton)	4 Metasediments	7 Sturgeon Narrows Alkalic Complex	ABERMIN CORPORATION		
PC-21(01) ^o PANNEED CONCENTRATE (Au in oz/ton)	4 Conglomerate: dark green, clasts from granule to boulder size, subrounded clasts mafic volcanic, chert, argillite, jasper, pyrite I.F., magnetite I.F., gneissic quartz.	6 Syenite: grey to pink, medium to coarse-grained 10-20X mafics; usually porphyritic light coloured feldspar.	STURGEON NARROWS PROJECT		
--- SHEAR ZONE	3 Arenite, Arkose: light green to light brown fine-coarse-grained, poorly bedded, rarely cross-bedded.	5 Lamprophyre: pinkish-brownish grey, fine to medium grained, porphyritic mafic usually biotite.	DETAILED LOCATION MAP		
--- STRIKE & DIP OF SMALL SHEAR ZONE	2 Argillite: b)15% magnetite bands.		DATE JUNE 1987 NTS 52 G/15		
--- STRIKE & DIP OF BEDDING			PROJECT ONT-87-2 DRAWN BY R. CHISHOLM		
--- CLAIM BOUNDARY			SCALE 1:2500		
			TAIGA CONSULTANTS LTD. MAP 1		

210330

5 WAHL 1969 CORE STORAGE ALL CORE DUMPED



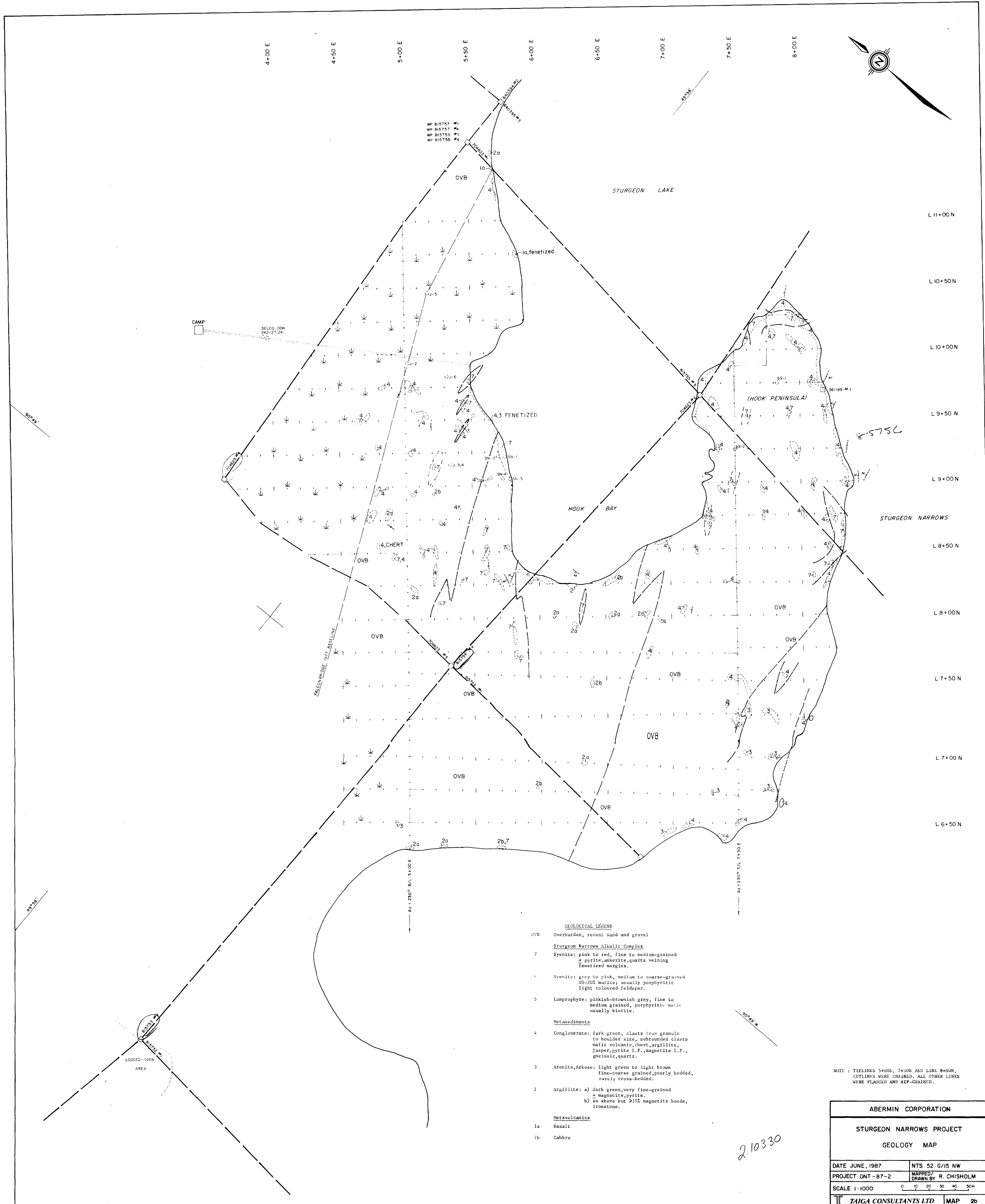


210330

NOTE: TIE LINES 5+00E, 7+00E AND LINE 8+00N, LUTLINS WERE CHAINED. ALL OTHER LINES WERE FLAGGED AND HIP-CHAINED.

ABERMIN CORPORATION	
STURGEON NARROWS PROJECT COMPILATION AND ROCK CHIP SAMPLE LOCATION MAP	
DATE JUNE, 1987	NTS 52 G/15 NW
PROJECT ONT-87-2	MAPPED/DRAWN BY R. CHISHOLM
SCALE 1:1000	0 10 20 30 40 50m
TAIGA CONSULTANTS LTD	MAP 2a



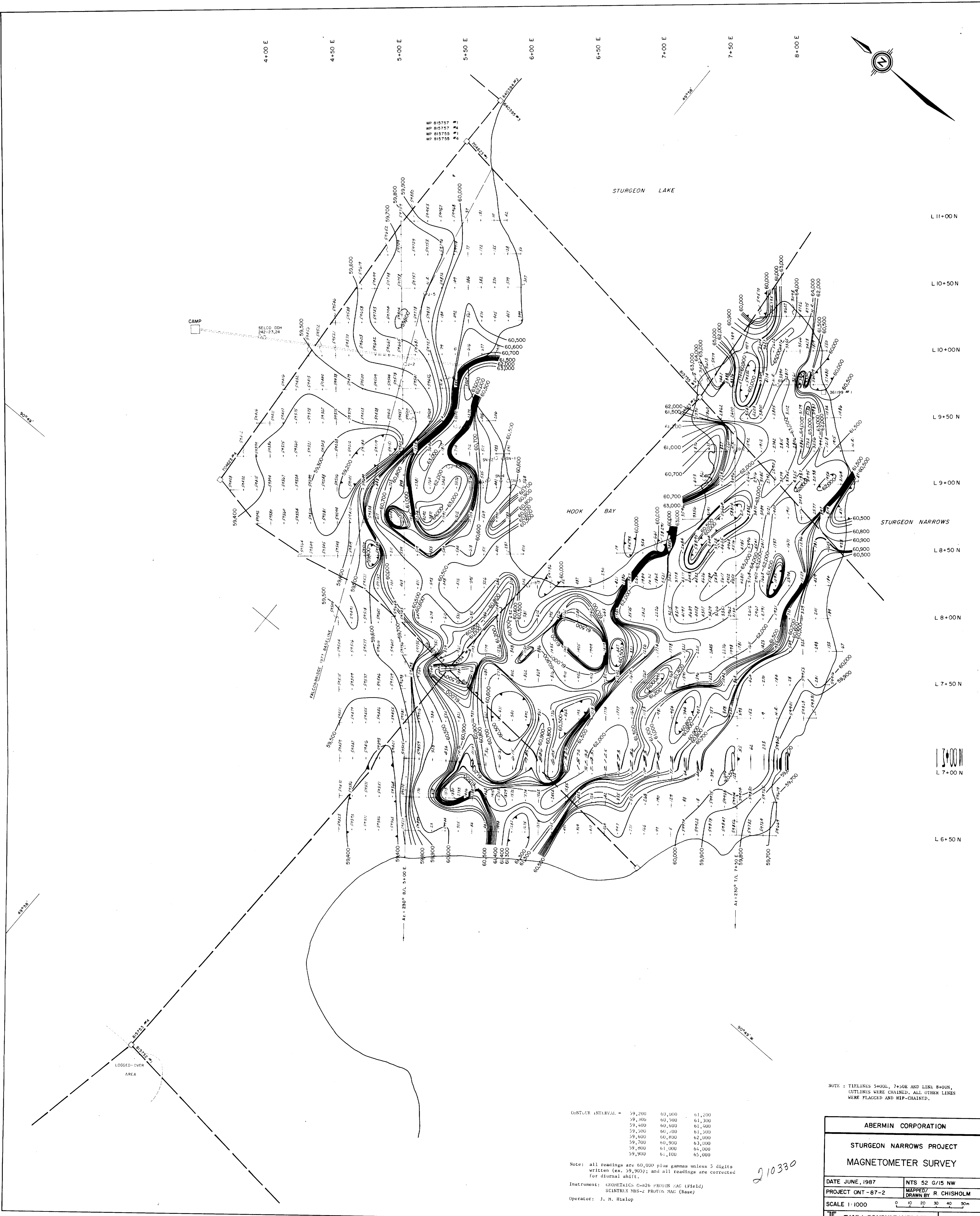


- GEOLOGICAL LEGEND**
- OVB Overburden, recent sand and gravel
 - Sturgeon Narrows Alkalic Complex**
 - 7 Syenite: pink to red, fine to medium-grained + pyrite, ankerite, quartz veining. Fenitized margins.
 - 1 Syenite: grey to pink, medium to coarse-grained 10-20% mafics; usually porphyritic light coloured feldspar.
 - 5 Lamprophyre: pinkish-brownish grey, fine to medium grained, porphyritic mafic usually biotite.
 - Metasediments**
 - 4 Conglomerate: dark green, clasts from granule to boulder size, subrounded clasts mafic volcanic, chert, argillite, jasper, pyrite I.F., magnetite I.F., gneissic quartz.
 - 3 Arenite, Arkose: light green to light brown fine-coarse grained, poorly bedded, rarely cross-bedded.
 - 2 Argillite: a) dark green, very fine-grained + magnetite, pyrite. b) as above but >15% magnetite bands, ironstone.
 - Metavolcanics**
 - 1a Basalt
 - 1b Gabbro

NOTE: TIE LINES 5400E, 7+50E AND LINE 8400N, CUTLINES WERE CHAINED. ALL OTHER LINES WERE FLAGGED AND HIP-CHAINED.

ABERMIN CORPORATION	
STURGEON NARROWS PROJECT	
GEOLOGY MAP	
DATE JUNE, 1987	NTS 52 G/15 NW
PROJECT ONT-87-2	MAPPED/DRAWN BY R. CHISHOLM
SCALE 1:1000	0 10 20 30 40 50m
TAIGA CONSULTANTS LTD	MAP 2b

210330



CONTOUR INTERVAL =

59,200	60,000	61,200
59,300	60,500	61,300
59,400	60,600	61,400
59,500	60,700	61,500
59,600	60,800	62,000
59,700	60,900	63,000
59,800	61,000	64,000
59,900	61,100	65,000

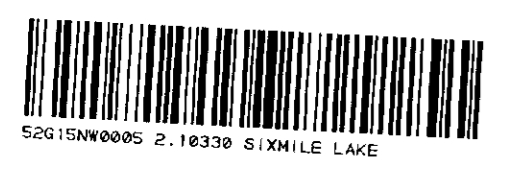
Note: all readings are 60,000 plus gamma unless 5 digits written (ex. 59,905); and all readings are corrected for diurnal shift.

Instrument: GEOMETRICS G-826 PROTON MAG (Field)
SCINTEX NMS-2 PROTON MAG (Base)

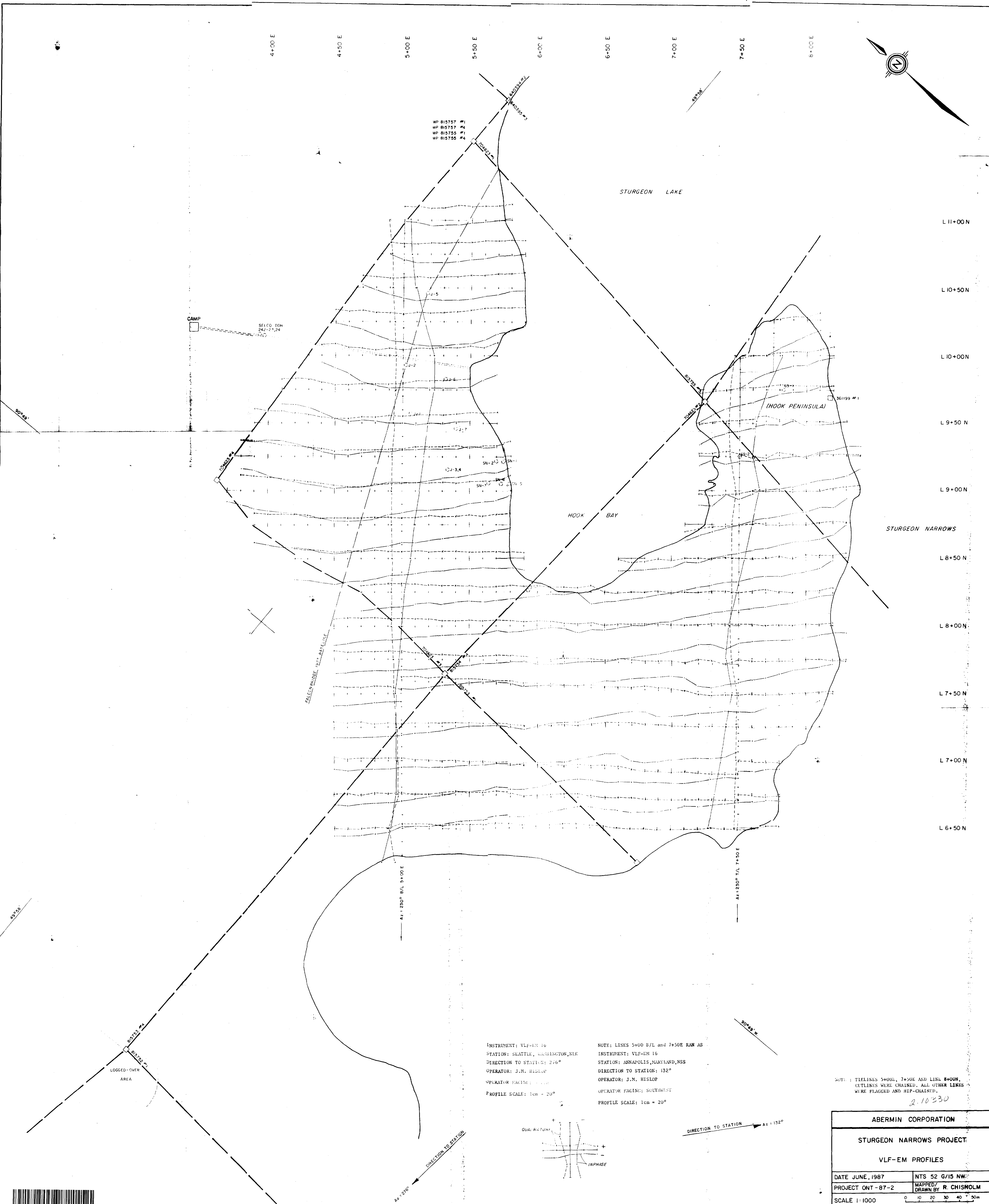
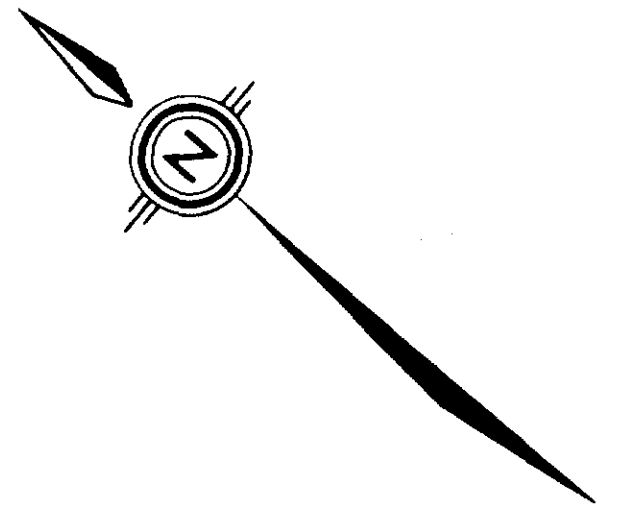
Operator: J. W. Hislop

NOTE: TIE LINES 5+00E, 7+50E AND LINE 8+00E, CUTLINES WERE CHAINED. ALL OTHER LINES WERE FLAGGED AND HIP-CHAINED.

ABERMIN CORPORATION	
STURGEON NARROWS PROJECT	
MAGNETOMETER SURVEY	
DATE JUNE, 1987	NTS 52 G/15 NW
PROJECT ONT -87-2	MAPPER/ DRAWN BY R. CHISHOLM
SCALE 1:1000	0 10 20 30 40 50m
TAIGA CONSULTANTS LTD	MAP 2c



4+00 E 4+50 E 5+00 E 5+50 E 6+00 E 6+50 E 7+00 E 7+50 E 8+00 E



L 11+00 N
L 10+50 N
L 10+00 N
L 9+50 N
L 9+00 N
L 8+50 N
L 8+00 N
L 7+50 N
L 7+00 N
L 6+50 N

WP 815757 #1
WP 815757 #4
WP 815755 #1
WP 815755 #4

CAMP
SEICO DDM
242-27,24
242

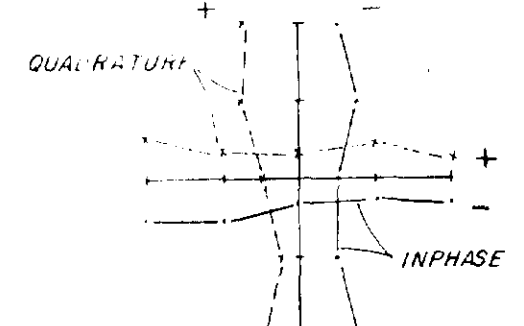
361199 #1
(HOOK PENINSULA)

INSTRUMENT: VLF-EM 16
STATION: SEATTLE, WASHINGTON, NLK
DIRECTION TO STATION: 276°
OPERATOR: J.M. HISLOP
OPERATOR FACING: SOUTHWEST
PROFILE SCALE: 1cm = 20°

NOTE: LINES 5+00 E/L and 7+50E RAN AS
INSTRUMENT: VLF-EM 16
STATION: ANNAPOLIS, MARYLAND, NSS
DIRECTION TO STATION: 132°
OPERATOR: J.M. HISLOP
OPERATOR FACING: SOUTHWEST
PROFILE SCALE: 1cm = 20°

NOTE: TIE LINES 5+00E, 7+50E AND LINE 8+00N,
OUTLINES WERE CHAINED. ALL OTHER LINES
WERE FLAGGED AND HIP-CHAINED.

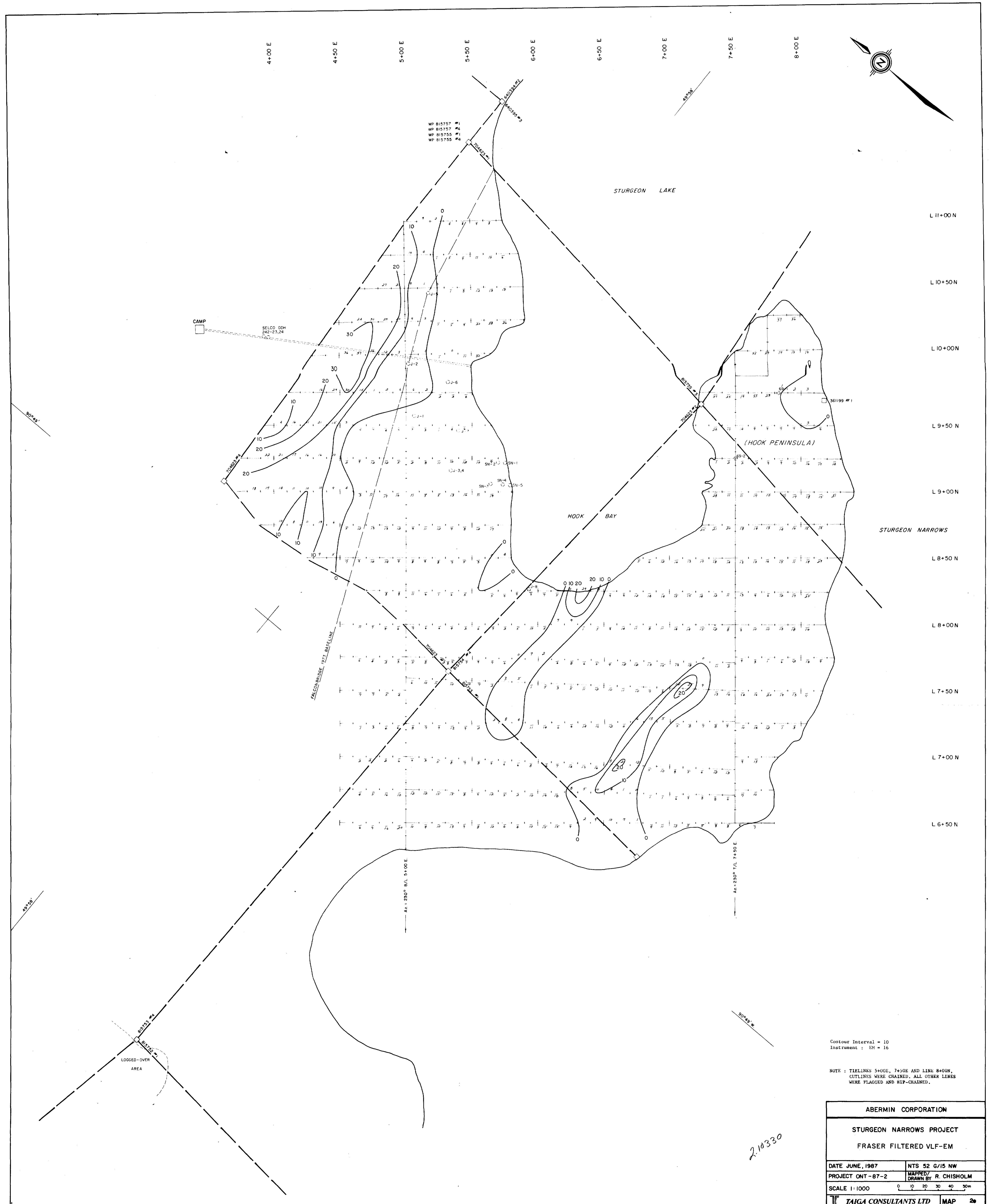
2.10330



DIRECTION TO STATION
Az = 132°

ABERMIN CORPORATION	
STURGEON NARROWS PROJECT	
VLF-EM PROFILES	
DATE JUNE, 1987	NTS 52 G/15 NW
PROJECT ONT-87-2	MAPPED/ DRAWN BY R. CHISMOLM
SCALE 1:1000	0 10 20 30 40 50m
TAIGA CONSULTANTS LTD	MAP 2d

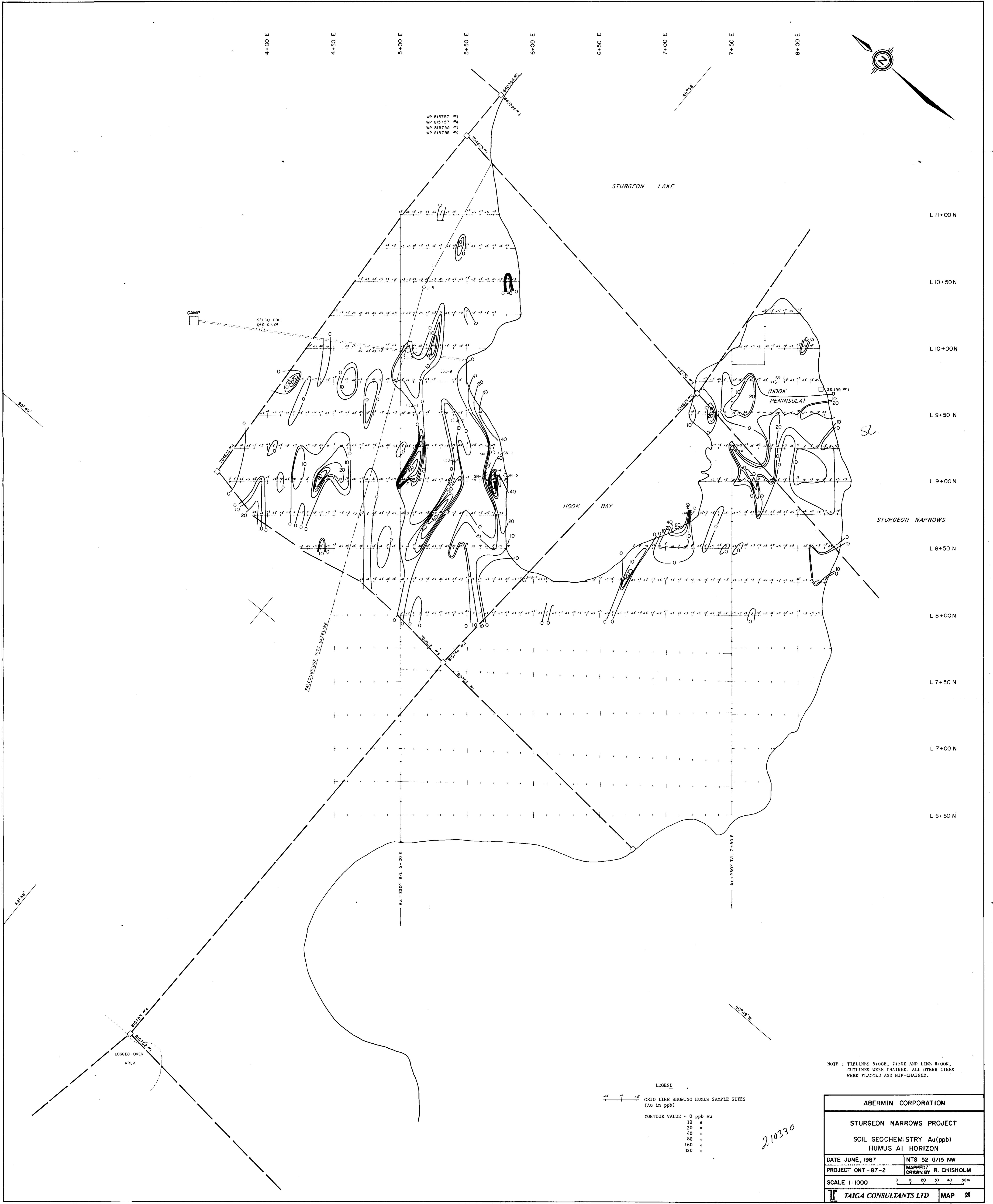




ABERMIN CORPORATION	
STURGEON NARROWS PROJECT	
FRASER FILTERED VLF-EM	
DATE JUNE, 1987	NTS 52 G/15 NW
PROJECT ONT-87-2	MAPPED DRAWN BY R. CHISHOLM
SCALE 1:1000	0 10 20 30 40 50m
TAIGA CONSULTANTS LTD	MAP 2b

2-10330



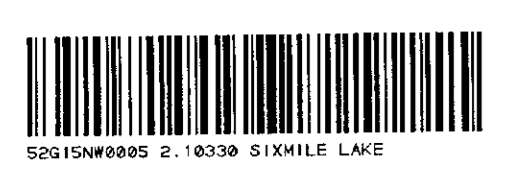


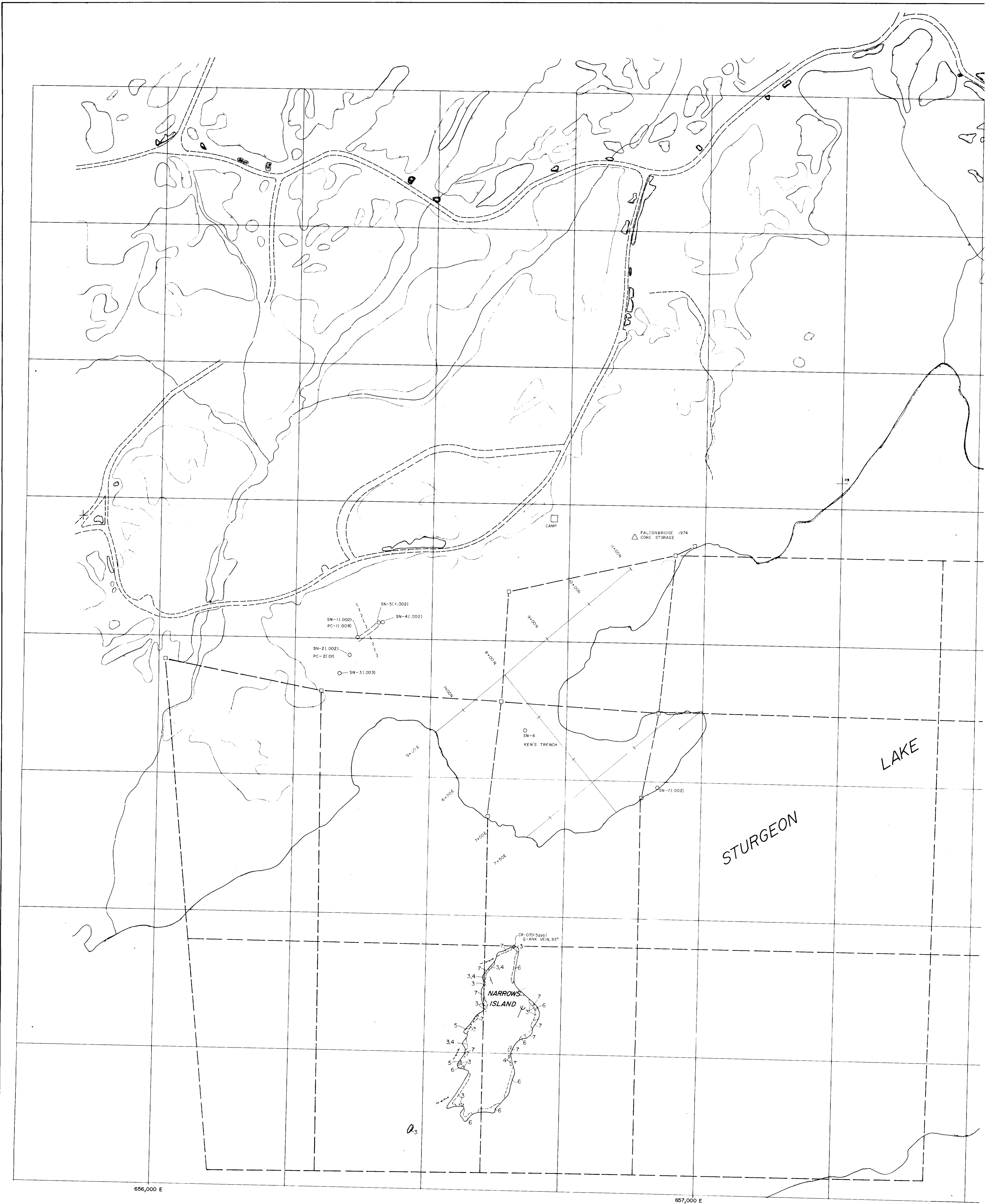
NOTE: TIE LINES 5+00E, 7+50E AND LINE 8+00E, OUTLINES WERE CHAINED. ALL OTHER LINES WERE FLAGGED AND HIP-CHAINED.

LEGEND
 GRID LINE SHOWING HUMUS SAMPLE SITES (Au in ppb)
 CONTOUR VALUE = 0 ppb Au
 10 "
 20 "
 40 "
 80 "
 160 "
 320 "

ABERMIN CORPORATION	
STURGEON NARROWS PROJECT	
SOIL GEOCHEMISTRY Au(ppb) HUMUS A1 HORIZON	
DATE JUNE, 1987	NTS 52 G/15 NW
PROJECT OMT-87-2	MAPPED/DRAWN BY R. CHISHOLM
SCALE 1:1000	0 10 20 30 40 50m
TAIGA CONSULTANTS LTD	MAP 2

210330





COMPILED BY EAGLE MAPPING SERVICES LTD. (87-44)



LEGEND

SN-11.002 ^o ROCK GRAB SAMPLE (Au in oz/ton)	4	Metasediments	7	8
PC-21.01 ^o PANDED CONCENTRATE (Au in oz/ton)		Conglomerate: dark green, clasts from granitic to boulder size, subrounded clasts mafic volcanic, chert, argillite, Jasper, pyrite I.F., magnetite I.F., gneissic quartz.	7	8
--- SHEAR ZONE				
--- STRIKE & DIP OF SMALL SHEAR ZONE	3	Arinite, Arkose: light green to light brown fine-coarse-grained, poorly bedded, rarely cross-bedded.	6	8
--- STRIKE & DIP OF BEDDING			5	12
--- CLAIM BOUNDARY		Argillite: b) 15% magnetite bands.	2	

GEOLOGICAL LEGEND