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REPORT ON

THE

1981 DRILLING PROGRAMME
STURGEON LAKE BASE METAL PROPERTY
PATRICIA MINING DIVISION ONTARIO

FOR

SEAGULL RESOURCES LTD

June 1, 1981

W.G. Timmins Exploration & Development Ltd



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SUMMARY AND CONCLUSIONS

The Seagull Resources Ltd. 1981 diamond drilling program on the Sturgeon Lake base metal property consists of a total of 11,345 feet in 14 holes. The majority of these holes were drilled to test and extend a mineralized horizon located in previous drilling. The remainder were drilled to test I.P. targets.

There are intersections of significant mineralization in nine holes, including one of a one foot band of massive sulphide, the first to be found on the property.

The possibility of a distal type of massive sulphide deposit is indicated, and a further program of work is recommended. This should be done in three phases: geologic mapping, followed by compilation and analysis of all available data, and then further diamond drilling.

INTRODUCTION

At the request of the Board of Directors of Seagull Resources Ltd. a diamond drilling program was carried out on the Sturgeon Lake base metal property, with core logging and geological supervision by the writer. A program of deep-penetration I.P. and lake-bottom sediment sampling was carried out concurrently by Geo. F. Beier and Associates under the supervision of T.R. Gledhill, P. Eng.

The details of this drilling program and the results obtained are the subject of this report, as are the results of the lake sediment geochemistry. The results of the I.P. survey will be referred on only where pertinent to the drilling. A program of further work is recommended.

PROPERTY, LOCATION AND ACCESS

The property consists of 320 contiguous mining claims, as shown on plans M-2257, Penassi Lake and M-2052, Valora Lake, District of Kenora, Patricia Mining Division, Province of Ontario. A legal survey of the claims has been made in preparation for taking them to lease. A list of claims appears as an appendix to this report. All claims are held by Seagull Resources Ltd.

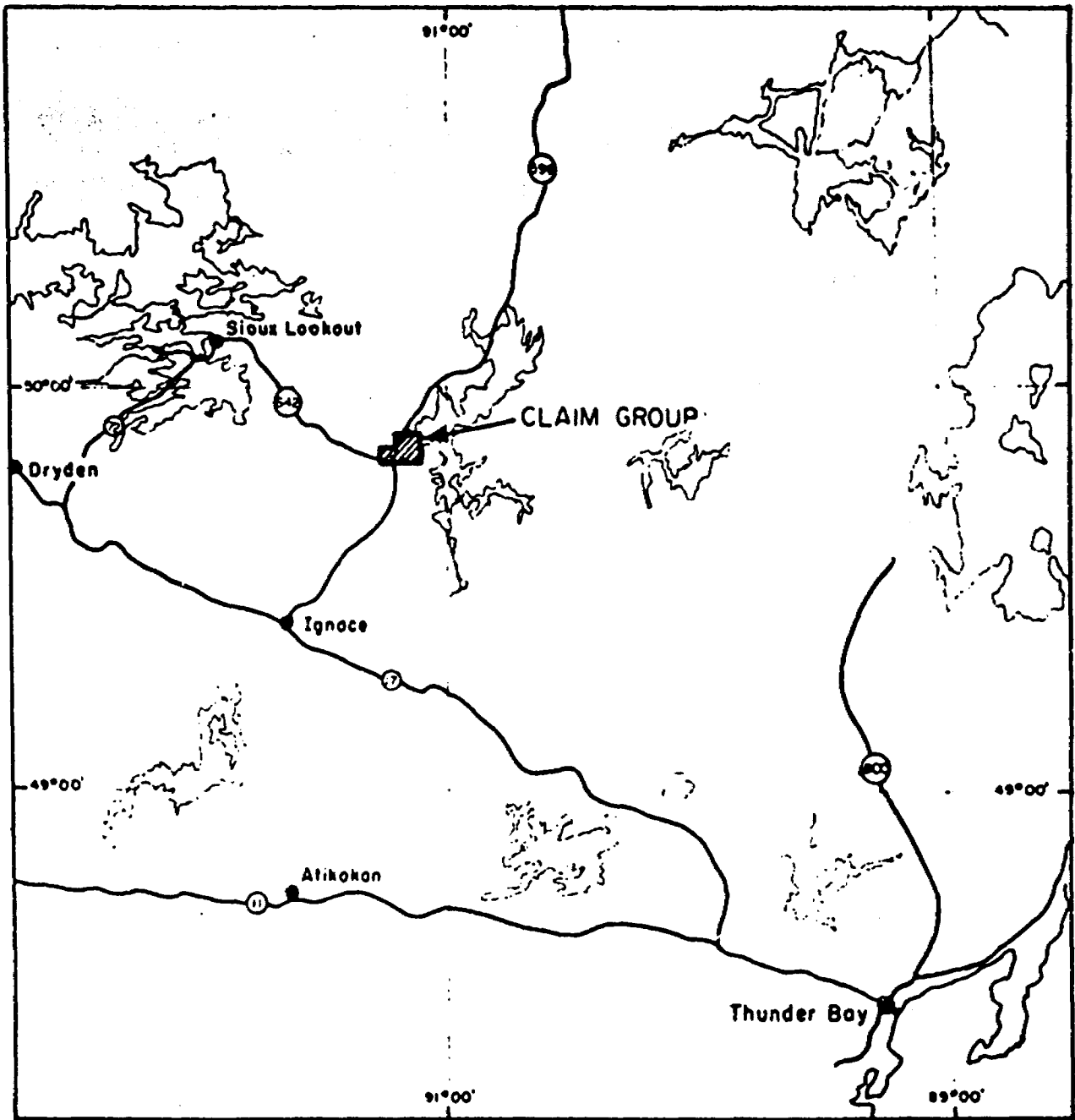
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The property is located in the Bell Lake-Sturgeon Lake map area (O.D.M. maps 2268&2269), in the District of Kenora, Patricia Mining Division, Ontario. The property is 42 miles by road southeast of the town of Sioux Lookout, by way of Highway 542, and about 35 miles north of the town of Ignace, by way of Highway 599. The paved highway serving Mattabi, Lyon Lake, and Sturgeon Lake Mines (now shut down) passes along the south shore of Sturgeon Lake, and cuts through a portion of the claims. There are a number of tractor roads giving access to the shoreline within the property, which are generally passable by four-wheel drive vehicle except during spring break-up. Sturgeon Lake and some smaller lakes occupy a large part of the property, and relatively easy access can be gained by boat in summer and snow vehicle in winter

Charter aircraft are available in Ignace and Sioux Lookout, and scheduled airlines link Dryden and Thunder Bay to the major cities. Rental vehicles are available in Thunder Bay, about four hours drive from the property. The Canadian National Railway line from Sioux Lookout to Thunder Bay passes about 3 miles southwest of the property, and a spur line serves the Mattabi mine.

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STURGEON LAKE PROPERTY

LOCATION MAP

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PHYSIOGRAPHY AND VEGETATION

Maximum local relief is never more than 200 feet above the level of Sturgeon Lake (1342 feet a.s.l.). Generally the relief reflects the distribution of glacial deposits such as till, moraines, and eskers. Some higher knobs reflect bedrock topography, such as at the site of the Darkwater mine, and on Mountain Island. Outcrop is generally quite sparse within the property, and is often subdued topographically so that it is easily overlooked. In addition, the glacial overburden contains many very large boulders which, if partially buried, can be mistaken for outcrop. The best bedrock exposures are on the shorelines (particularly of the islands in Sturgeon Lake), and along the Mattabi Highway.

Most of the land is heavily forested by white and black spruce, birch, poplar, and white pine, with some willows and underbrush, especially near the shorelines. The forest is dense enough to prevent vehicle traffic except by road, but is not so dense as to impede travel by foot. There are a number of low-lying swampy areas.

HISTORY

Gold bearing quartz veins were discovered in the Sturgeon Lake area in the summer of 1898. Intermittent and temporary exploration activity followed. Darkwater Gold Mines Limited was formed in October, 1935, to develop auriferous quartz veins in a granodiorite body south of Beidelman Bay. Underground development began in 1936 and a mining plant was installed. Operations were suspended in 1937 - because of low, erratic gold distribution. (Horwood O.D.M. - 1937b, P 26, 29, 32)

During 1966-67 Steep Rock Iron Mines carried out a program consisting of geological and geophysical surveys followed by trenching and diamond drilling to evaluate a copper-molybdenum occurrence located in the Beidelman Bay area.

In October, 1969 - Mattagami Lake Mines Limited discovered a major base metal - sulphide deposit on Block No. 7 of the Abitibi Paper Company Limited. Following this discovery exploration activity throughout the entire area expanded considerably. As the area is extensively covered by water and glacial till, the major effort involved the diamond drilling of geophysical targets. To date this effort has resulted in the discovery of four major base metal orebodies - two of which are being mined and the fourth (F. orebody) being put into production. Falconbridge Copper Ltd. Sturgeon Lake Mines was shut down in November 1980 upon exhaustion

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of ore reserves.

GEOLOGY OF THE PROPERTY

The Seagull Resources Ltd. Sturgeon Lake property is underlain primarily by Archean meta volcanic and meta-sedimentary rocks of the South Sturgeon Lake Greenstone Belt. This is the same stratigraphic sequence that hosts the orebodies at "F" zone, Mattabi Mines, Lyon Lake Mines, and Sturgeon Lake Mines. The southern part of the property is underlain by an apparently conformable intrusive body known as the Beidelman Bay Complex, which contains sub-economic copper - molybdenum mineralization with some of the characteristics of porphyry-type copper - molybdenum deposits. In addition, this igneous body is cut by a gold - bearing quartz-tourmaline vein which was explored in the 1930's as the Darkwater Mine. Development work was done, but aside from bulk samples, no production is known to have been carried out. These occurrences of gold and copper - molybdenum are of only peripheral significance to the objective of the current program, which is to locate a massive sulphide orebody in the rhyolites of the South Sturgeon Lake Greenstone Belt. The geology of this greenstone belt has been well summarized by A.D. Hunter and G.F. Archibald in their January, 1981 report for Seagull Resources Ltd., and the reader is urged to refer to this report for a detailed description.

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The rocks represent three major cycles of volcanism, ideally mafic at the base and felsic at the top. The lowest cycle of the three is itself subdivided, with the lower member hosting the "F" zone and Mattabi massive sulphide deposits. The strike extension of this horizon trends onto the Seagull property, and this conclusion is substantially borne out by the drilling.

In theory, the volcanic sequences are clear-cut, and the various types of rock quite distinctive. In actual practice, the variations sought are quite subtle, and partially obscured by greenschist facies metamorphism and a moderate to intense foliation caused by deformation of the volcanic sequence in the Kenoran orogeny. As a study of the drill logs will indicate, the rocks can vary wildly in textural and chemical characteristics over a short stratigraphic distance, and furthermore, correlation of units between holes on the same or adjacent sections varies from poor to fair. This is due in part no doubt to the necessarily subjective character of the descriptions in the core logs, but facies changes along strike or down dip appear to also be important.

The best key to the location of the "grey fragmental - foot-wall breccia" contact appears to be the copper geochemistry

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as described elsewhere in this report under the heading "Results of Statistical Treatment of Drill Core Data". The massive sulphide intersection of hole SG81-5 occurs at an apparently lower stratigraphic level than the stringer chalcopyrite of the other holes. This indicates the possibility that the massive sulphides were transported some distance from their source at a hydrothermal vent, ending up in a depression on the sea floor. This is in contrast to the Mattabi deposit, where the massive sulphides overlie an intensely altered pipe-like zone which is considered to be the channel followed by the metal-bearing fluids.

OBJECTIVES OF 1981 DRILLING PROGRAMS

The Seagull Resources Ltd. 1981 Sturgeon Lake drilling program was carried out with two objectives: the primary one being to follow-up the mineralization located by New InscO Mines Ltd. in their 1977 drilling (specifically N77-3 & N77-4) and to increase geologic knowledge of this zone by drilling down dip and along strike of the mineralized horizon; and the second objective being to test targets designated by I.P. and EM surveys.

(See Diamond Drill Plan - in pocket)

Drill holes No. SG81-1 to SG81-6, SG81-8, SG81-13 & SG81-14 were drilled in furtherance of the first objective, and holes Nos. SG81-7, & SG81-9 to SG81-12 were drilled in furtherance of the second objective. As the true strike of the Archean volcanics in the property area has been generally interpreted to be within 10° to 20° of due east, all drill holes in this program were drilled on an azimuth of 180° (due south), so as to most nearly crosscut stratigraphy and to facilitate subsequent plotting. As flattening of drill holes (a progressive decrease in inclination) is known to be pronounced in the area the initial inclination of the holes was set at -65° for all but the last 2 holes, which were drilled at -80° in order to test greater depths. Hole No. SG81-7 was drilled using a stabilized core barrel, which reduced the

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flattening somewhat, but probably not enough to justify the extra cost.

RESULTS OF THE 1981 PROGRAM

All holes except for SG81-4 & SG81-10 reached target depth or greater. The former was stopped when acid tests indicated that it was flattening excessively and would pass too close to SG81-2 if allowed to continue. Hole No. SG81-10 was lost due to caving in overburden. Considerable casing and rods were lost in this hole. SG81-12 was spotted a few feet north of SG81-10, and successfully reached the target area.

All other holes can be said to have given a fair test of the target area, with the possible exception of hole SG81-11 which tested the peripheral part of an I.P. high rather than the centre; this being due to excessively deep water in the area where a hole would have to be collared in order to hit the centre. There is no indication that any of the holes deviated along strike to any great extent. A table summarizing the drilling can be found as an appendix.

GEOLOGIC INTERPRETATION OF DRILLING

The drilling has confirmed some previously held theories of the property geology, and has brought to light some new features. The strike of the volcanics has generally been

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interpreted as easterly with a northerly dip. Drilling has shown this to be, at least in the eastern part of the property, the main area of interest, essentially correct; with a strike of 090° and a dip of 70° north being a good approximation, at least as applied to foliation. Foliation generally is parallel or nearly parallel to bedding (compositional layering), but in a few instances it is discordant. Hole No. SG81-12 cut through a sequence of rocks that appears to be repeated in reverse order, which strongly indicates the existence of a medium - scale fold, with an amplitude of several hundred feet. Such medium -scale deformation is to be expected with the observed intensity of major deformation. Such features as minor shears, joints, and kink-banding are further evidence of this deformation.

The "Mattabi- F zone" horizon has been traced or located in drill holes for a strike length of 1600 feet at this time. This will be discussed further under the heading of mineralization.

The I.P. survey carried out during the course of the drilling program delineated a number of areas with sufficiently anomalous resistivity or frequency effect to be considered anomalous. Resistivity contoured on N=5 indicated a strong northeasterly trend to the causative source(s). Three of the anomalous areas were selected as drill targets. These were tested by holes SG81-9, 10, 11, & 12. None of these holes encountered

more mineralization than a few percent of disseminated pyrite, and the rocks generally differ from those cut by the other holes. A brief description of each hole, as well as detailed logs can be found as appendices.

MINERALIZATION

Significant mineralization was cut in nine of the fourteen holes drilled. In most cases, mineralized intersections are in the form of chalcopyrite stringer zones, with chalcopyrite forming narrow veinlets, generally along foliation, or in the matrix of breccias.

The more significant sulphide intersections are tabled overleaf.

In hole #SG81-3, the 5 foot interval 327.3-332.7 assayed 452 ppb gold, and 22700 ppb silver - equivalent to about 0.014 oz/ton and 0.70 oz/ton, respectively. In hole #SG81-6, the interval of 5 feet from 583.0 - 588.0 assayed 26800 ppb silver, approximately 0.83 oz/ton. Other intervals contain only nominal amounts of precious metals.

It appears likely that should massive sulphides of ore potential occur on the property, there is potential for sufficient silver to be of economic significance.

HOLE	FROM	TO	WIDTH	% CU	% Zn	NOTES
SG81-1	477.1	487.1	10.0'	0.45	0.83	Stringer & dissem.
SG81-1	499.2	501.4	2.2'	0.07	1.20	" "
SG81-2	331.5	352.5	21.0'	0.57	0.05	Stringer chalcopyrite
SG81-2	601.0	602.0	1.0'	1.23	0.18	Stringer Chalcopyrite
SG81-3	327.7	332.7	5.0'	2.56	0.98	Bedded? Chalcopyrite
SG81-3	524.3	539.8	14.5'	0.17	0.10	Stringer chalcopyrite
SG81-4	446.0	448.4	2.4'	0.60	0.02	Stringer chalcopyrite
SG81-4	479-7	497.0	17.3'	0.13	0.05	Stringer chalcopyrite
SG81-4	532.0	534.0	2.7'	0.43	0.05	Stringer chalcopyrite
SG81-5	737.0	744.5	7.5'	0.13	0.27	Stringer & dissem.
SG81-5	749.0	750.7	1.7'	0.05	2.41	Dissem. sphalerite
SG81-5	750.7	751.7	1.0'	1.79	35.1	Massive sulphide
SG81-5	751.7	753.9	2.2'	0.06	1.48	Dissem. sphalerite
SG81-6	583.0	593.0	10.0'	0.40	0.63	Stringer chalcopyrite
SG81-7	767.0	772.0	5.0'	0.30	0.14	Stringer chalcopyrite
SG81-7	947.0	957.0	10.0'	0.49	0.15	Stringer chalcopyrite
SG81-7	1141.6	1148.6	7.0'	0.47	0.20	Stringer chalcopyrite
SG81-8	675.0	685.0	10.0'	0.15	0.08	Stringer chalcopyrite
SG81-8	715.0	717.0	2.0'	0.57	0.19	Stringer chalcopyrite
SG81-8	1029.0	1032.0	3.0'	1.02	0.08	Stringer chalcopyrite
SG81-13	218.0	223.0	3.0'	0.10	0.98	Dissem. sphalerite
SG81-13	248.7	250.9	2.2'	0.005	2.04	Dissem. sphalerite
SG81-13	395.0	405.0	10.0'	0.16	0.05	Stringer chalcopyrite

The economic sulphides are confined to those holes which test the "grey-fragmental - footwall breccia" contact, using the terminology of Sakrison. Hole #SG81-7 was drilled primarily to test possible deep EM response, but cut several zones of stringer chalcopyrite that seem to define this horizon.

Drill holes SG81-9, 10, 11 and 12 were targeted on I.P. responses, and disseminated pyrite logged in these holes is sufficient to explain the I.P. response. The rocks cut by these holes differ from those in main area of interest, and this fact may help direct further exploration for extensions of the mineralized horizon.

A contour diagram (Fig. 1) showing displacement of the main copper horizon relative to a plane striking due east and dipping at 70° N has been constructed to show the morphology of the copper horizon. This indicates that the mineralized horizon has the form of anticlinal surface plunging to the north about 25° - 30° at a bearing of 355° . This structure may be due to a second period of regional deformation or to paleotopography or perhaps both, but the former is the most likely cause. In any event, knowledge of this structure will be of use in planning future drill holes, and predicting the depths at which mineralized intersections may be observed.

Massive sulphides were cut only in one drill hole and it cannot be determined if they follow a similar structural pattern.

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STATISTICAL TREATMENT OF DRILL CORE DATA

Samples of drill core were cut at frequent intervals for major element geochemical analysis, and mineralized sections were cut for assays of copper, zinc, gold and silver. The samples cut for major element analysis were also analyzed for copper and zinc.

The sampling program generated a large amount of data, which has been treated statistically by computer. The mean, standard deviation, and threshold anomalous values equal to the mean \pm 2 S.D. were calculated and printed out, both hole by hole and for drilling in total. Data values hole by hole are presented by depth, to aid in identifying trends. Computations were done using both raw data (as percent or ppm or ppb) and the natural logarithm of data values, since some elements occur in a normal distribution, and others in a log-normal distribution, depending primarily on how close the value can approach zero. For each statistical computation, the computer also generated a classification of data values, by breaking the data range into 12 equal divisions (the 2 end divisions being open) and counting the number of data points falling into each class. This procedure makes it simple to construct histograms to show graphically the distribution of values.

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RESULTS OF STATISTICAL TREATMENT OF DRILL CORE ANALYSIS

Some elements have been found to vary erratically with depth in holes, others vary more systematically, and still others remain in fairly constant. Distribution of zinc appears to be fairly erratic, with no clear-cut trends in evidence. Copper, on the other hand, varies erratically, but a trend is noticeable in those holes where mineralization was encountered. In these holes, a point can be found below which the copper value rarely exceeds the mean, and above which, it frequently does so. (Fig 2) (This applies specifically to the logarithm of copper concentration). In some cases, this point is quite distinctive, with a run of high values succeeded by a run of low values. This crossing point usually correlates very closely with the "footwall contact" noted in the geologic log, and provides confirmation of the existence of such a contact.

The content of iron (as Fe_2O_3) tends to vary erratically, with the odd high value corresponding with a logged mafic dike. Iron appears to be of little use as a guide to mineralization. Manganese (as Mn O) appears to be slightly increased in the mineralized zone, but it generally varies but little from the mean. Sodium is slightly depleted, and potassium slightly enriched in the mineralized zone. The sodium/potassium ratio may be a useful indicator for the mineralized horizon.

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LAKE-BOTTOM SEDIMENTS

Lake sediment samples taken in the course of the I.P. survey were analyzed for copper and zinc. The results of these analyses were examined statistically as follows:

The mean , standard deviation, and a threshold value equal to the mean +2 S.D. were calculated for the natural logarithms of the copper and zinc values in ppm. The log transform of the data was used because experience has shown that populations of relatively low numbers bounded on the lower side by zero generally have a log-normal distribution. The actual values corresponding to the means of logarithms and threshold values were then computed, giving the geometric means, and threshold anomalous concentrations for copper and zinc.

These values are tabled below:

<u>ELEMENT</u>	<u>GEOMETRIC MEAN</u>	<u>THRESHOLD ANOMALOUS VALUE</u>
Copper	12 ppm	49 ppm
Zinc	42 ppm	127 ppm

No copper values exceeded this threshold, and only one zinc value did so (148ppm) In the case of zinc, the presence of one value above the threshold level cannot be considered

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statistically significant since the "tails" of the distribution curve extend considerably further than 2 standard deviations away from the mean. A true anomaly should appear as a cluster of high values, spatially related. The conclusion to be derived from the lake sediment analysis is either that there is no anomalous concentration of copper or zinc in the lake sediments of the area surveyed or that, due to sampling technique, or chemical and physical conditions within the lake, the chemistry of the sediment does not accurately reflect the bedrock geochemistry. It is probably the latter condition that prevails, as the survey area has been in effect "bracketed" by diamond-drilled areas, where geochemically high copper and zinc have been recorded in numerous holes. Logs of holes drilled in the lake generally indicate a deep layer of glacial drift, as is commonly seen on shore. Records of the sampling show that many samples could not be taken, due either to hard bottom or to water depth in excess of line available. It is suggested that the paucity of geochemical anomalies in sediment is more probably due to the difficulty of prevailing conditions rather than the absence of geochemically anomalous bedrock. The ultimate conclusion in this matter is that the sampling technique, (a G.S.C. pattern gravity bottom corer lowered through a hole in the ice by rope) is not suited for the conditions prevailing in this part of Sturgeon Lake. A technique for sampling bedrock of sediments on bedrock is required.

CONCLUSIONS AND RECOMMENDATIONS

The Seagull Resources Ltd. 1981 drilling program on the Sturgeon Lake base metal property has been successful to the extent that mineralized intersections of greater length and higher grade have been cut than were previously known on the property; and that massive sulphides have been identified on the property for the first time. The geologic picture is far from simple, and there is good reason to believe that the massive sulphide intersection cut in hole SG81-5 is not genetically related to the stringer chalcopryrite cut in other holes. At other deposits in the Sturgeon Lake base metal camp, stringer chalcopryrite is recognized in the immediate footwall to the massive sulphide orebodies, whereas in the present exploration area, the stringer chalcopryrite occurs alone, with no massive sulphides in the hanging wall, and the massive sulphide occurrence is stratigraphically several hundred feet lower than the stringer chalcopryrite. There are two spatial types of massive sulphide deposits; proximal and distal. In the former, the massive sulphide body overlies the alteration pipe that presumably represents the channelway of the mineralizing fluids. In the distal type, the massive sulphides are precipitated (or at least sedimented) at some distance from the hydrothermal vent, and footwall alteration is minimal or absent altogether. The massive sulphide intersection in SG81-5 may represent a distal type deposit, which

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complicates exploration as there may be no distinct geochemical signature.

It is recommended that the exploration program on this property be continued, as there is significant base metal mineralization, and there is considerable room for further exploration both on this horizon and elsewhere in the stratigraphy.

There should be further drilling, with two objectives: one being to cut the massive sulphides of SG81-5, and the other being to extend the horizon of stringer chalcopyrite and to search for massive sulphides that theoretically should overlie the stringer zone. Drilling to accomplish the former objective should be directed updip and along strike, and stepouts should be fairly short at first. Holes spotted to test the massive sulphide target will also yeild information on the chalcopyrite stringer zone.

There should be a detailed study of all the avialable data and maps in order to produce a synthesis of the geology upon which to base further exploration. There is a large volume of data on hand, in the form of drill logs, geologic mapping, and ground and airborne geophysical surveys. Colating and digesting all this data could shed light on the western extent of the mineralized horizon, and save considerable expense in drilling.

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In addition, the property should be geologically mapped in detail during the summer or fall season, with closely spaced traverses through the forested areas, and by boat around the lakeshore and on the islands. Samples of outcrop should be taken for rock geochem. The results of this could be compared with the drill core geochemistry in an effort to identify stratigraphic horizons. Further study of the drill core geochemistry will be necessary to get the most value from this work.

A three - phase program is recommended:

1. Detailed geologic mapping and sampling for rock geochemistry. The mapping should cover throughly the area from the contact on the south with the Beidelman Bay intrusive to Mountain Island on the North.
2. Collating and synthesizing the data from phase 1 along with all previous data in order to pool all known information about the property geology.
3. Upon completion of phases 1 & 2, phase 3, further diamond drilling, should be carried out. This would include follow-up drilling on the mineralization found in the 1981 program, as described above, and possibly the

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drilling of one more fences of holes to establish geologic cross-sections in the central and western portions of the property.

Respectfully submitted,

Gordon Richmond

June 1, 1981

Gordon S. Richmond, B.Sc.

GSR/sb

CERTIFICATE

I, GORDON S. RICHMOND, employed by W. G. Timmins Exploration & Development Ltd., with offices at 502 900 6th Ave. S. W., Calgary, Alberta do hereby certify that:

1. I am a graduate of the University of British Columbia holding the degree of B.Sc. in Geology.
2. I have been employed in my present position for 23 months.
3. I have no interest direct or indirect in the property or securities of Seagull Resources Ltd., nor do I expect to receive any such interest.
4. This report is based on a study of government and private reports, and on logging and assaying of diamond drill core from holes drilled on the property during the period from February to April, 1981

Dated at Calgary, Alberta the 2nd day of June, 1981

Gordon Richmond

Gordon S. Richmond, B.Sc.

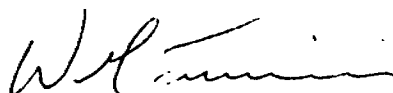
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CERTIFICATE

I, WILLIAM G. TIMMINS, maintaining offices at 502 900 6th Avenue, S. W., Calgary, Alberta do hereby certify that:

1. I am a geologist having been practising my profession for seventeen years.
2. I am a graduate of the Provincial Institute of Mining, Haileybury, Ontario, and have attended Michigan Technological University, Houghton, Michigan.
3. I am a member in good standing of the Association of Professional Engineers of British Columbia, and of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.
4. I have no interest direct or indirect in the property or securities of Seagull Resources Ltd., nor do I expect to receive any such interest.
5. This report is based on a core logging and sampling programme carried out by Mr. G. Richmond, B.Sc. Geology during the period February, 1981 to April, 1981, also three personal visits to the property during that period.

Dated at Calgary, Alberta the 2nd day of June, 1981



W. G. Timmins P. Geol
Consulting Geologist

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ACKNOWLEDGEMENTS

To A. Doug Hunter, of Nuinsco Mines Ltd., for giving the writer the benefit of his experience in massive sulfide geology, and for his invaluable assistance in logging and interpreting the initial drill holes.

To Tim Steves, of Graycom Systems Ltd., Calgary, for his patience in developing a computer program to handle the variety of assay and geochem data resulting from the drilling program.

SUMMARY OF DRILL HOLESAPPENDIX II

HOLE NO.	LATITUDE	DEPARTURE	AZIMUTH	INCLINATION AT COLLAR	TOTAL DEPTH	PURPOSE & RESULT
SG81-1	18 + 50N	112 + 00E	180°	-65°	597'	✓ To undercut mineralization located in New InSCO N77-3 - successful
SG81-2	18 + 50N	116 + 00E	180°	-65°	847'	✓ To undercut N77-4- located stringer chalcopyrite
SG81-3	18 + 50N	114 + 00E	180°	-65°	697'	✓ To test mineralization located in SG81-1 & SG81-2
SG81-4	20 + 50N	116 + 00E	180°	-65°	556'	✓ To undercut SG81-2 - deviated, but located sulfides
SG81-5	18 + 50N	118 + 00E	180°	-65°	857'	✓ To test horizon east along strike - located massive sulphide intersection
SG81-6	20 + 50N	118 + 00	180°	-65°	1127'	✓ To test intersection of SG81-5 - located only stringer chalcopyrite
SG81-7	22 + 50N	128 + 00E	180°	-65°	1467'	✓ To test deep EM anomaly - located several chalcopyrite stringer zones
SG81-8	22 + 50N	116 + 00E	180°	-65°	1107'	✓ To undercut SG81-4 and test stringer zone. Located stringer zone successfully
SG81-9	6 + 00S	4 + 00E	180°	-65°	827'	To test I.P. anomaly. No commercial mineralization
SG81-10	37 + 00N	120 + 00E	180°	-65°	297'	To test I.P. anomaly. Lost hole at 297'

HOLE NO.	LATITUDE	DEPARTURE	AZIMUTH	INCLINATION AT COLLAR	TOTAL DEPTH	PURPOSE & RESULT
SG81-11	7 + 00S	40 + 00E	180°	-65°	835'	To test I.P.anomaly. No commercial mineralization
SG81-12	37 + 62N	120 + 00E	180°	-65°	637'	To test same anomaly as SG81-10. No commercial mineralization
SG81-13	18 + 50N	115 + 00E	180°	-80°	857'	To extend previous intersections. Cut stringer chalcopyrite
SG81-14	16 + 50N	119 + 00E	180°	-80°	847'	To test massive sulphides of SG81-5. No intersection.

APPENDIX V

ASSAY CERTIFICATES

APPENDIX IV

COMPUTER LISTINGS OF ASSAY INTERVALS

APPENDIX VII

List of Mineral Claims comprising the Seagull Resources Ltd.
Sturgeon Lake Property:

Claim No.	No. of Claims	Held By
Pa637939 to 53800 incl.	62	Seagull Resources Ltd.
Pa537930 and 537931	2	" "
Pa537936 to 537938 incl.	3	" "
Pa 362352	1	" "
Pa 362369	1	" "
Pa 362374	1	" "
Pa 362376	1	" "
Pa 229511 to 229567 incl.	57	" "
Pa 229099 to 229105 incl.	7	" "
Pa229160 to 229175 incl.	16	" "
Pa 229251 and 229252	2	" "
Pa 229477 to 229486 incl.	10	" "
Pa 243893 to 243917 incl.	25	" "
Pa 243798 to 243801 incl.	4	" "
Pa 243802 to 243816 incl.	15	" "
Pa 210834 to 210948 incl.	15	" "
Pa 204788 and 204789	2	" "
Pa 210497	1	" "
Pa 204791 and 204792	2	" "
Pa 205497 to 205503 incl.	7	" "
Pa 222238 to 222240 incl.	3	" "
Pa 227061 to 227080 incl.	20	" "
Pa 221618 and 221619	2	" "
Pa 436735 to 436752 incl.	18	" "
Pa 227110 and 227111	2	" "
Pa 227085 to 227093 incl.	9	" "
Pa 227119 to 227123 incl.	5	" "
Pa 227187 to 227190 incl.	4	" "
Pa 227193 to 227198 incl.	6	" "
Pa 227160 and 227161	2	" "
Pa 347175	1	" "
Pa 210614 to 210616 incl.	3	" "
Pa 210418 to 210423 incl.	6	" "
Pa 211162 to 211164 incl.	3	" "
Pa 211166 and 211167	2	" "

TOTAL:

320

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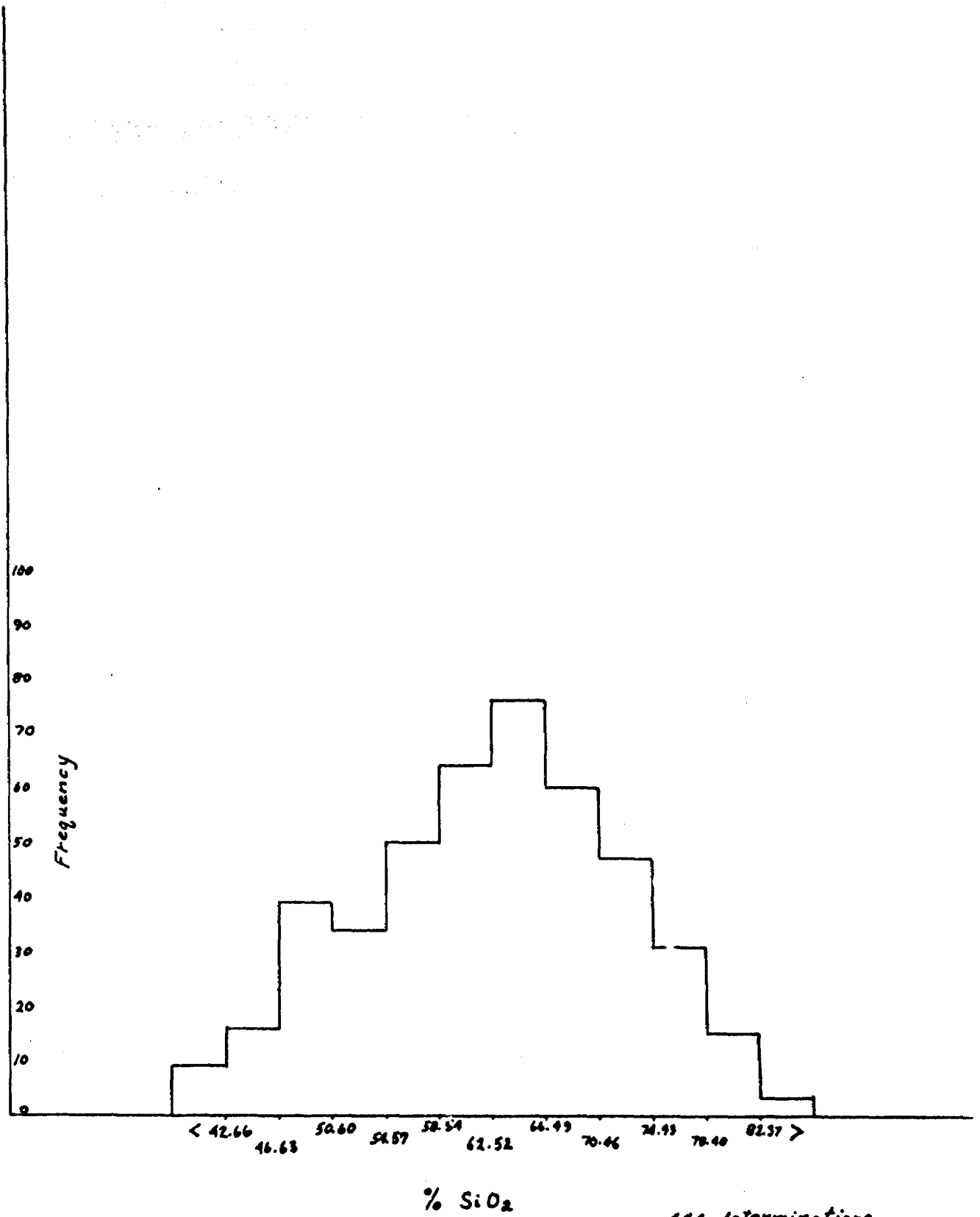
APPENDIX VI

HISTOGRAMS OF ELEMENT DISTRIBUTIONS

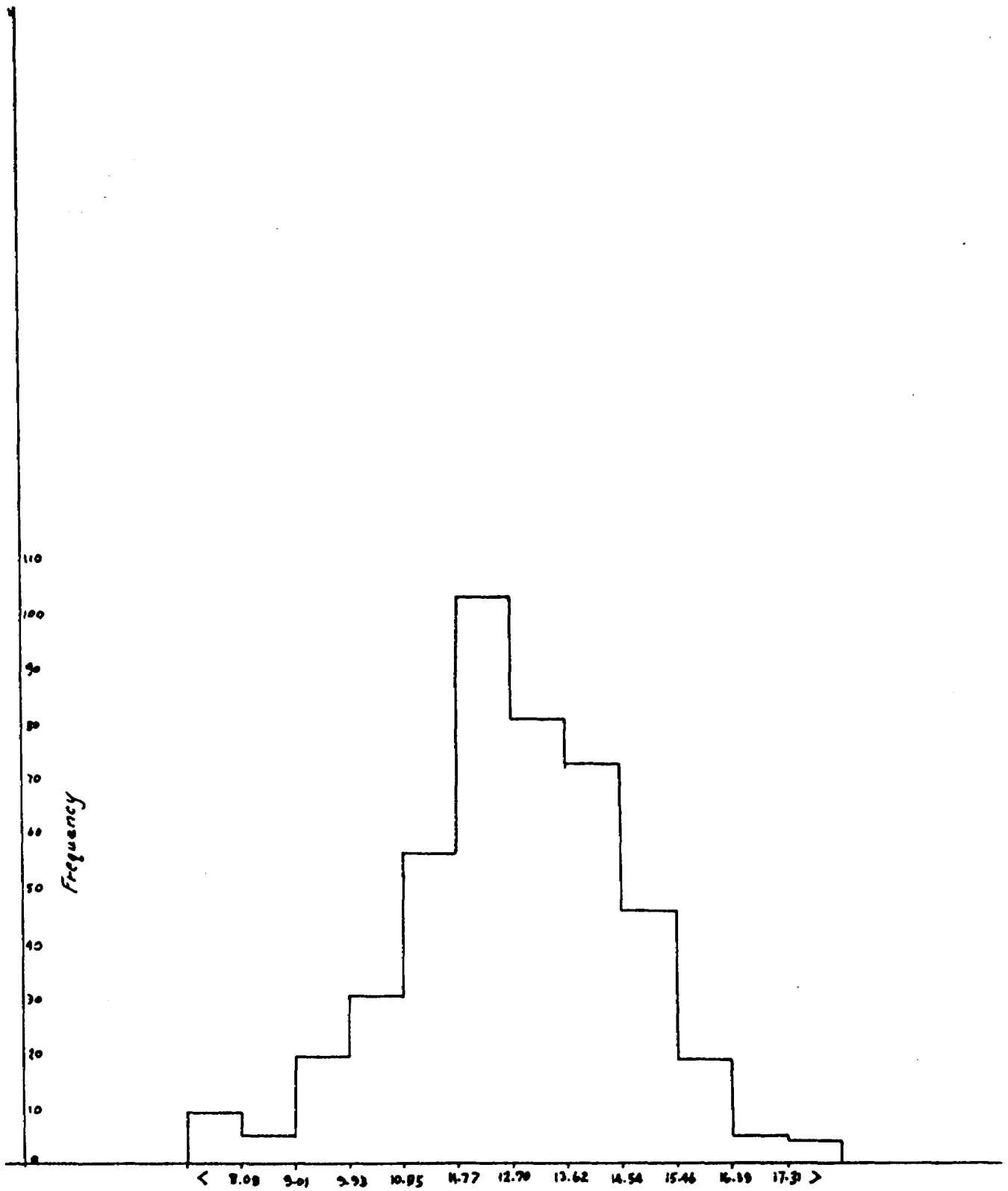
The ten pages following are histograms (frequency diagrams) of 8 major elements plus copper and zinc. Si_2O_3 and Al_2O_3 are plotted using the actual values of concentration as the basis of ranking, while the remainder are ranked on the natural logarithm of concentration. This is because silica and alumina rarely tend toward zero, and fall into a fairly narrow range, while the other elements can vary widely. Histograms are not plotted for gold or silver because these elements were assayed for only when copper and zinc were found to be high, and thus the results would tend to be skewed toward the high side. Lead was assayed for along with copper and zinc, but the values are uniformly low, and of little exploration value.

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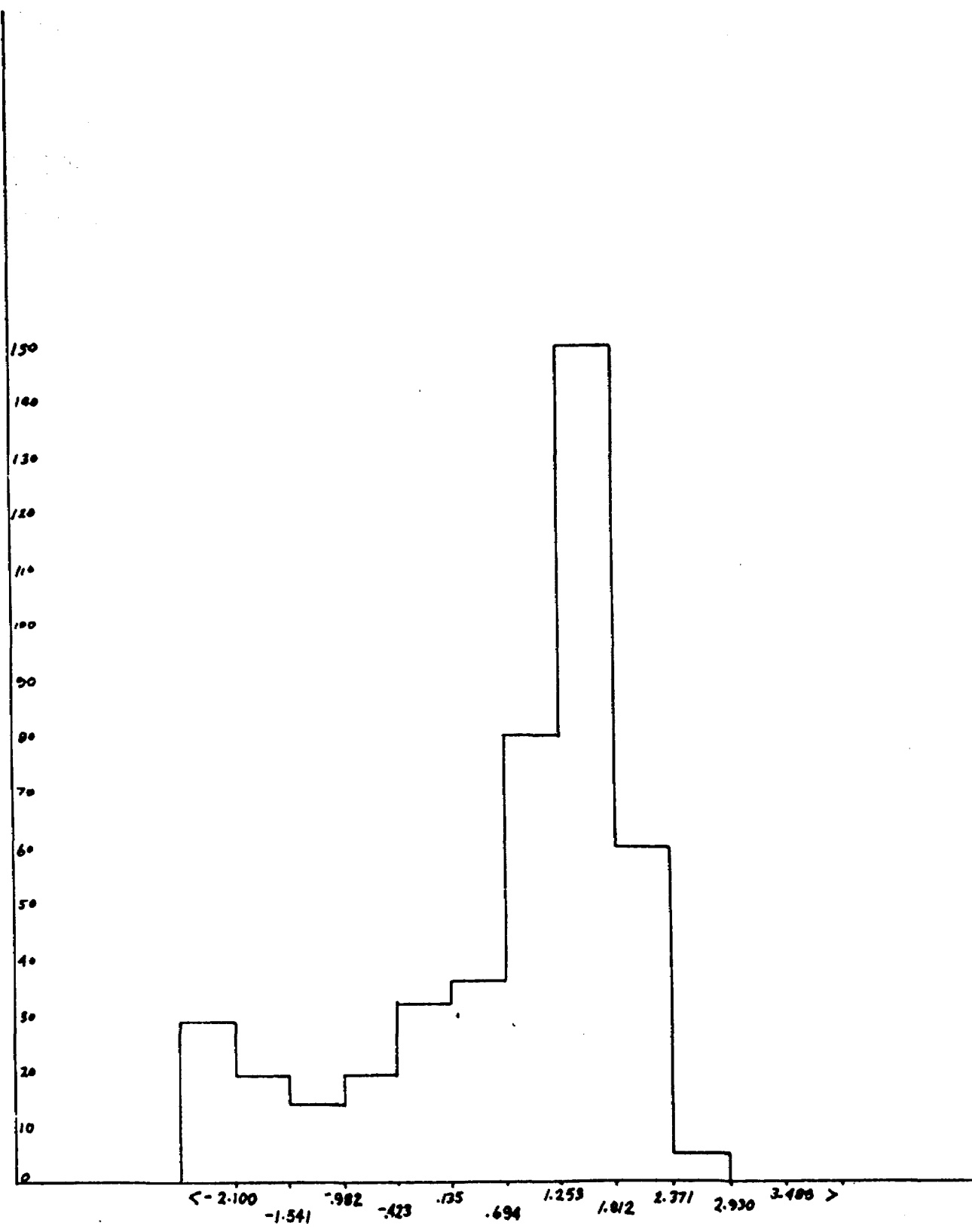


444 determinations



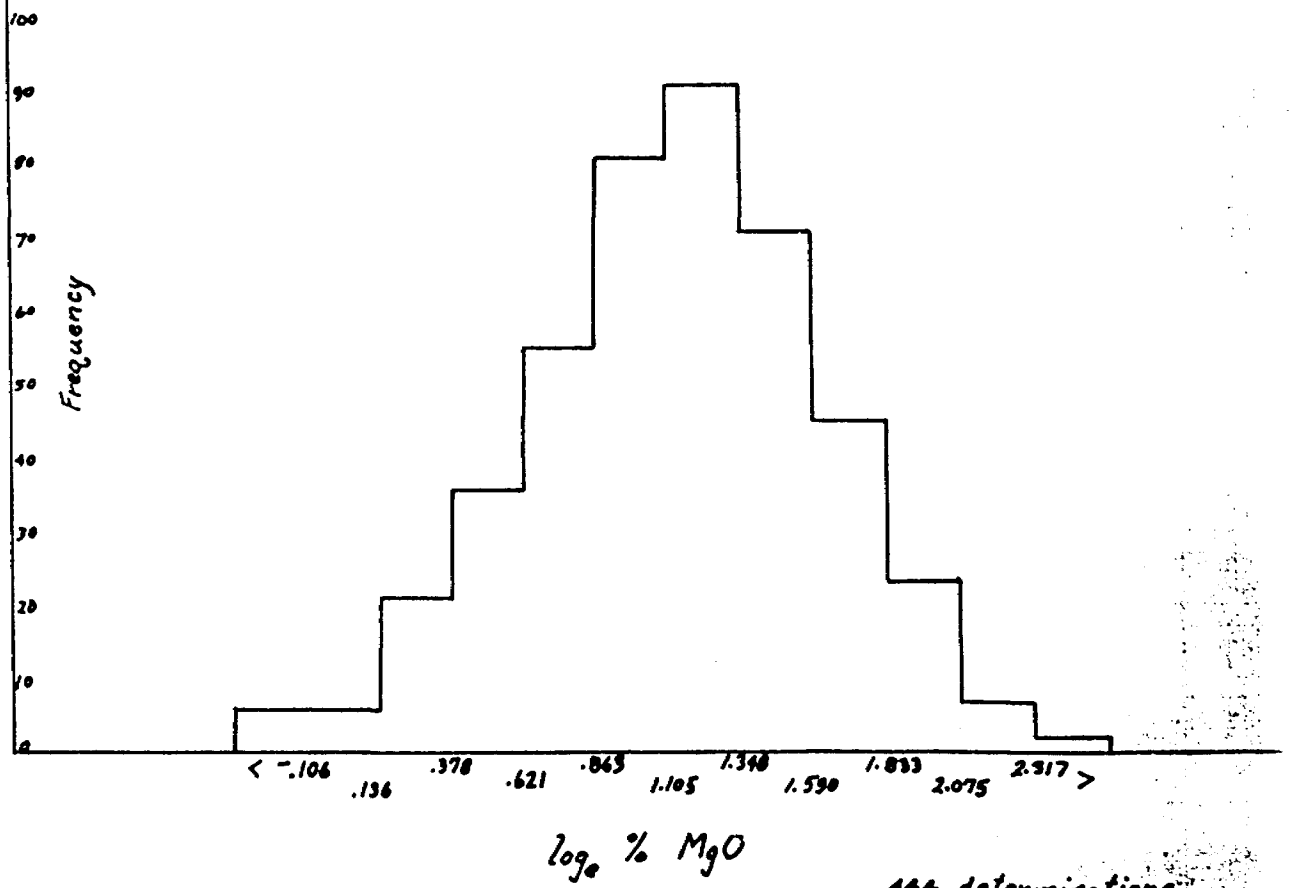
% Al_2O_3

444 determinations

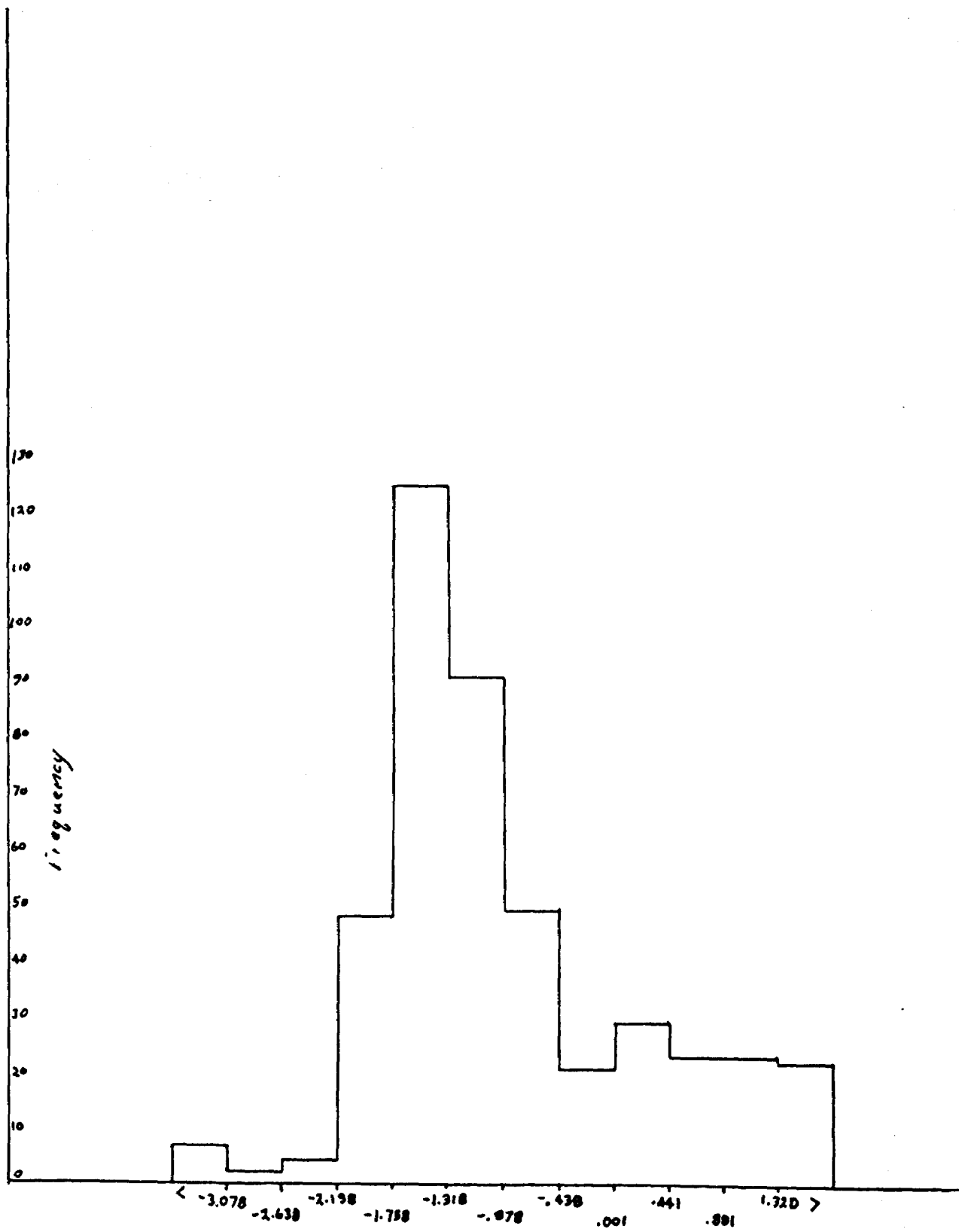


$\log_e \% \text{CaO}$

444 determinations

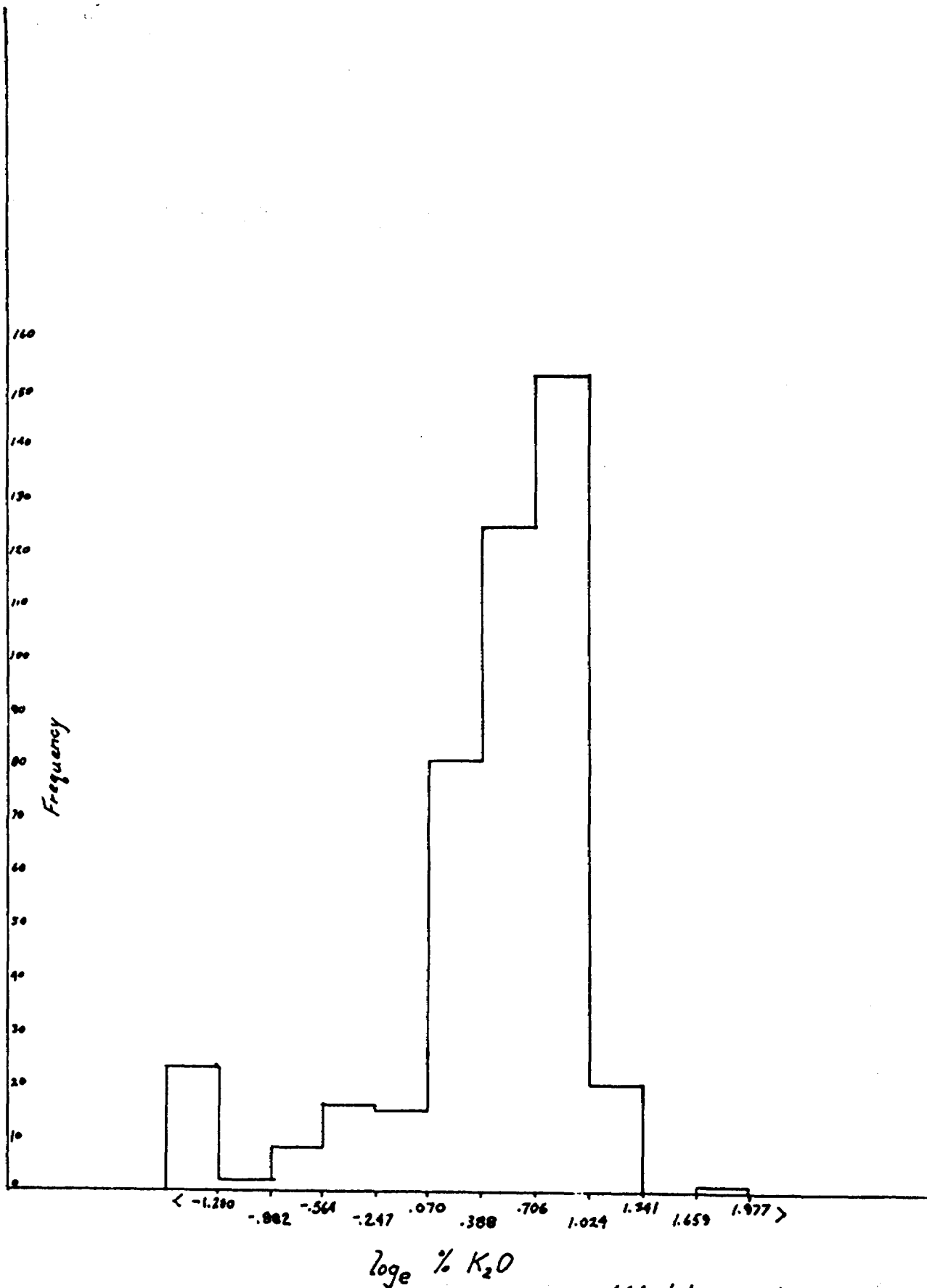


444 determinations

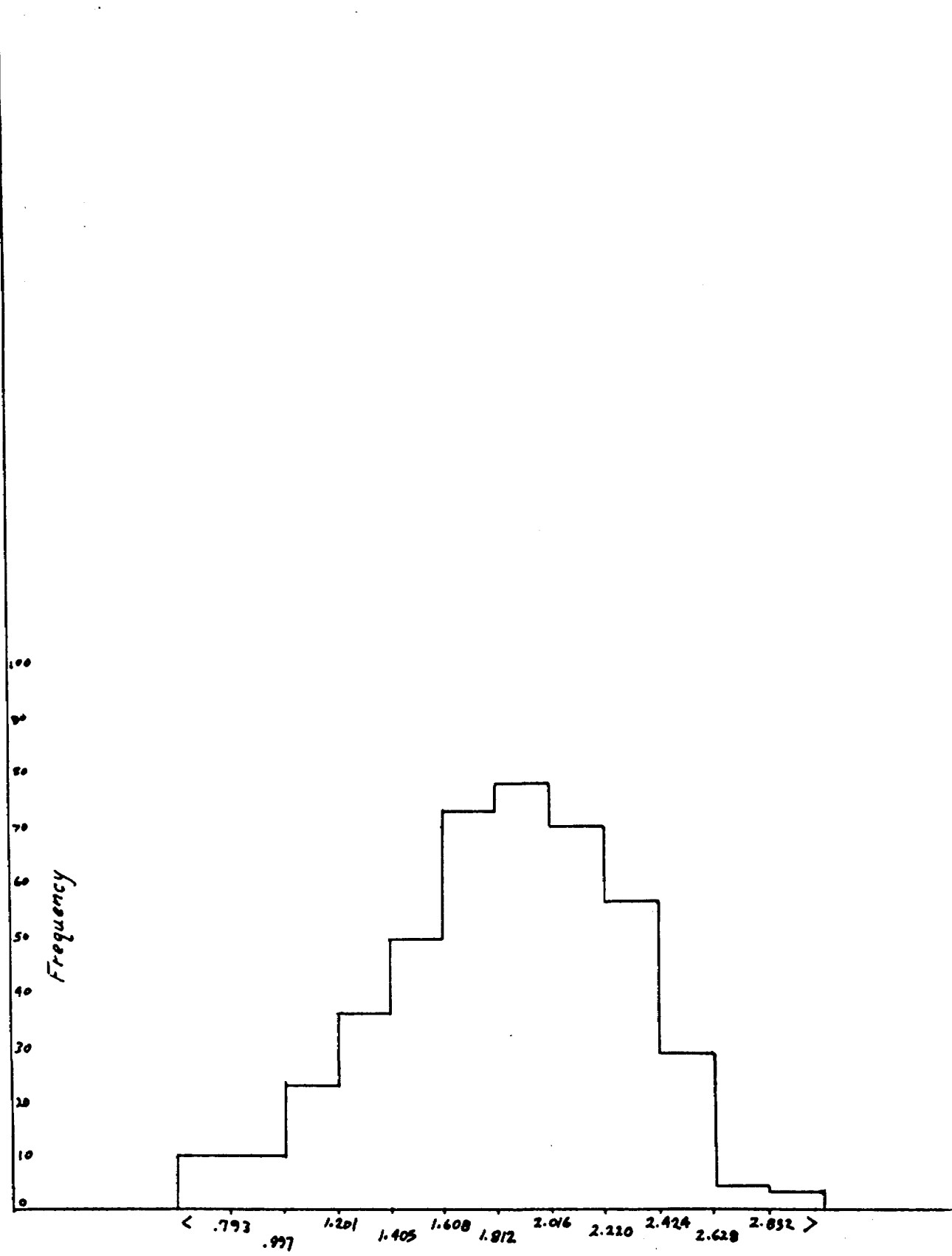


$\log_e \% \text{Na}_2\text{O}$

444 determinations

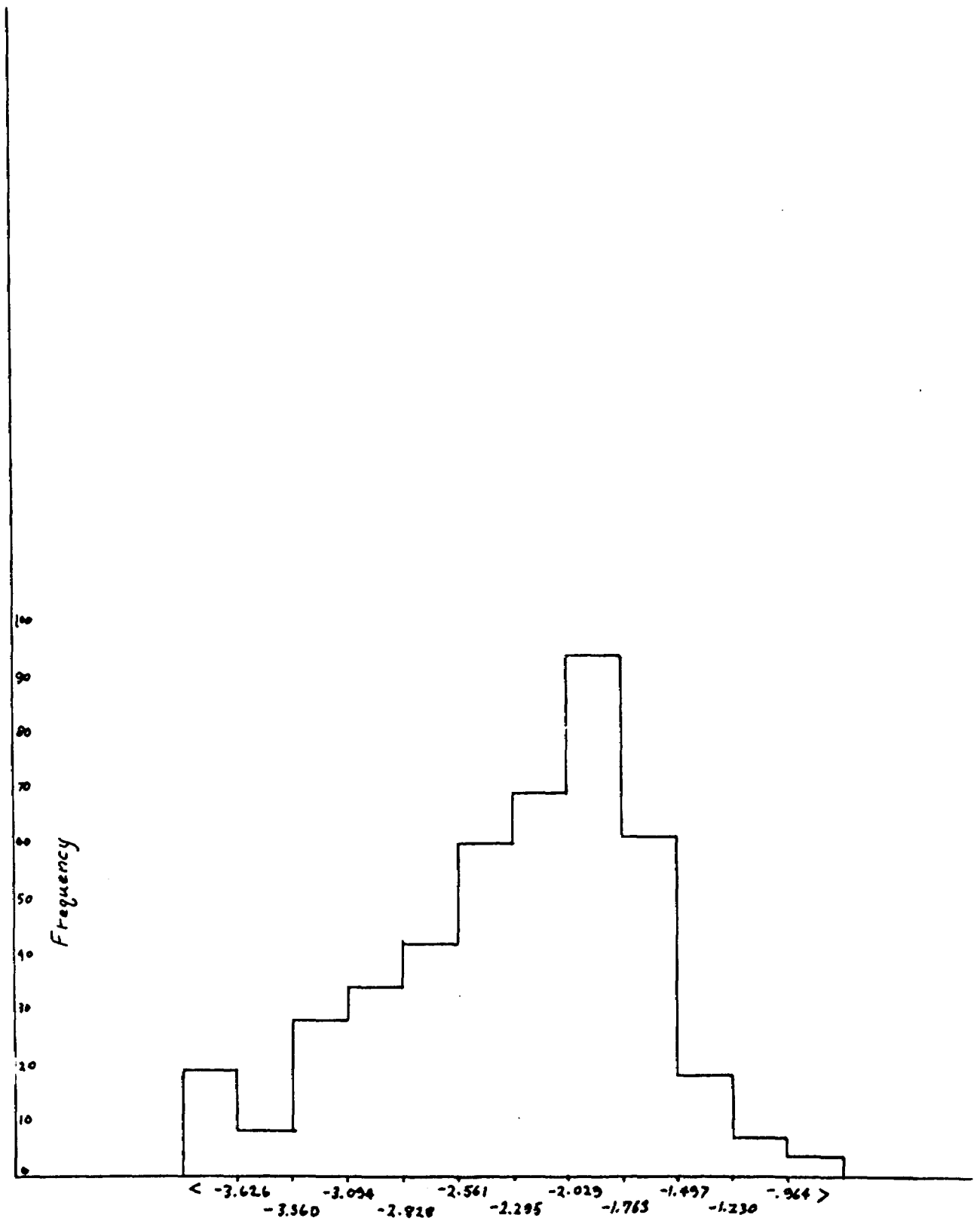


144 determinations



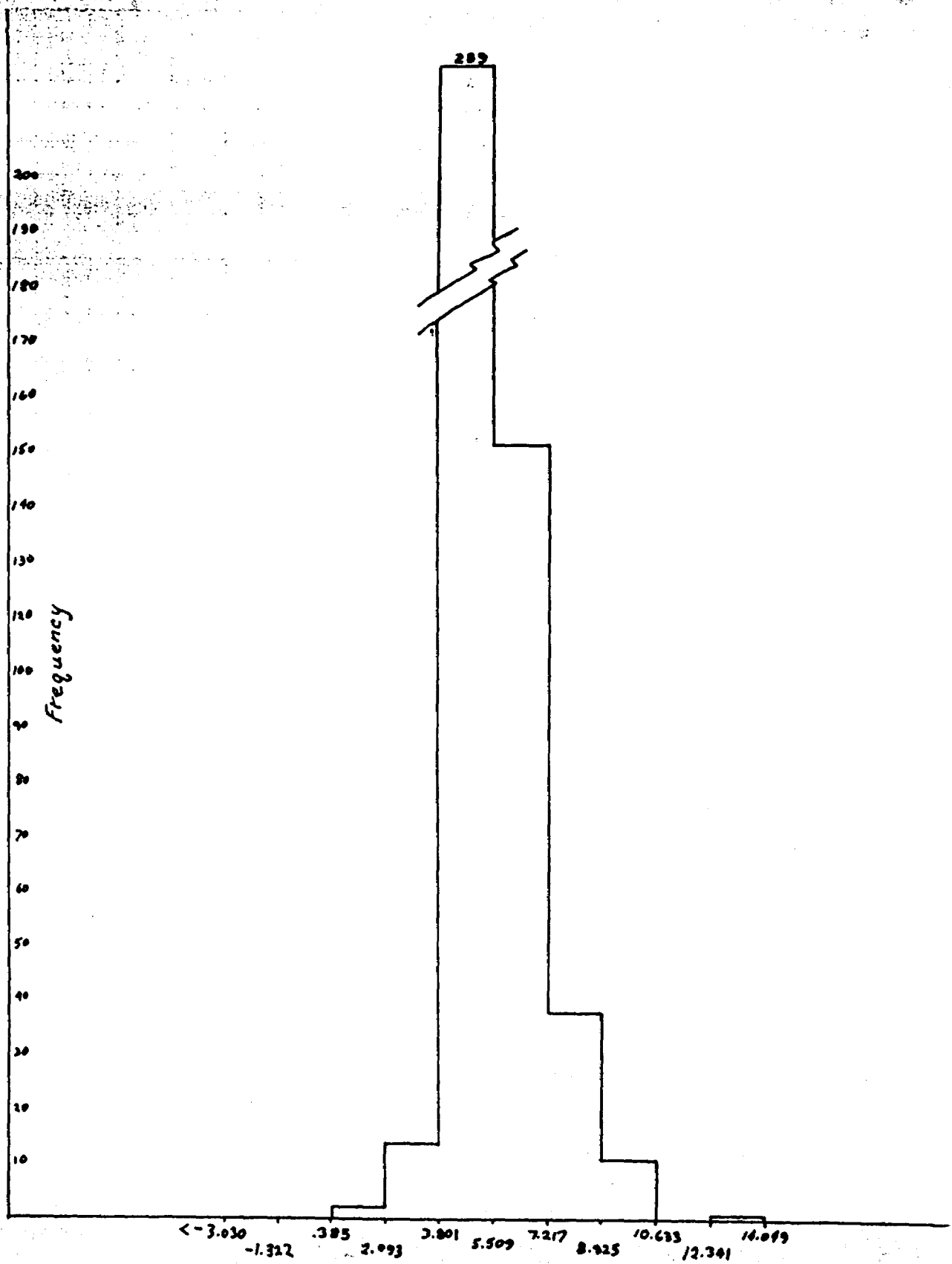
$\log_e \% \text{Fe}_2\text{O}_3$

444 determinations



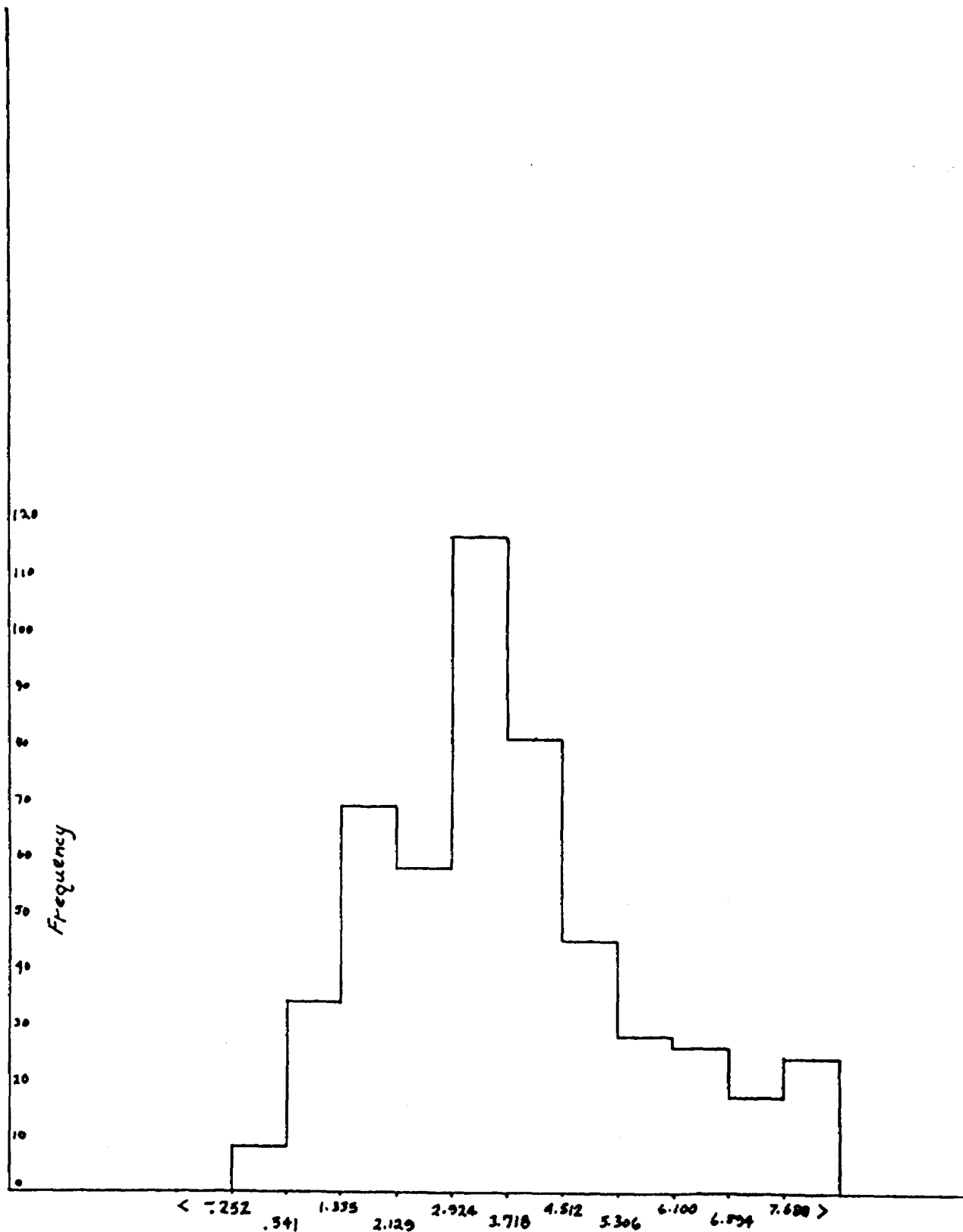
$\log_e \% \text{MnO}$

444 determinations



loge ppm Zn

507 determinations



$\log_e \text{ ppm Cu}$

507 determinations

HOLE NO: SG-B1- 1

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SAMPLE LISTING - BY HOLE

APR 24/81

SAMPLE	DEPTH FROM	DEPTH TO	LENGTH
3001	69.0	70.0	1.0
3002	87.0	88.0	1.0
3003	110.0	111.0	1.0
3004	143.0	144.0	1.0
3005	166.0	167.0	1.0
3101	191.0	192.0	1.0
3006	209.0	211.0	2.0
3007	225.0	226.0	1.0
3008	249.0	250.0	1.0
3102	298.0	299.0	1.0
3009	301.0	302.0	1.0
3010	308.0	309.0	1.0
3011	314.0	315.0	1.0
3012	333.0	334.0	1.0
3013	344.0	345.0	1.0
3014	366.0	367.0	1.0
3015	384.0	385.0	2.0
3016	397.0	398.0	1.0
3130	408.4	410.1	1.7
3017	417.3	418.5	0.7
3103	429.0	430.0	1.0
3018	449.5	450.5	1.0
3019	469.0	470.0	1.0
3104	471.1	477.1	5.0
3105	477.1	482.1	5.0
3106	482.1	487.1	5.0
3107	487.1	489.1	2.0
3020	491.0	492.0	1.0
3108	499.2	501.4	2.2
3198	501.5	504.5	3.0
3021	504.5	505.4	0.9
3199	505.3	507.0	1.7
3022	507.0	508.1	1.1
3200	508.1	509.5	1.4
3109	509.5	512.2	2.7
3301	512.0	517.7	5.7
3110	514.0	515.0	1.0
3023	518.0	520.0	2.0
3302	518.7	522.5	3.8
3024	541.0	542.0	1.0
3025	575.0	576.0	1.0
3026	594.0	596.0	2.0

HOLE NO: SG-B1- 2

W. G. TIMMINS EXP & DEV LTD.
SAMPLE LISTING - BY HOLE

APR 24/81

SAMPLE	DEPTH FROM	DEPTH TO	LENGTH
--------	------------	----------	--------

3027	55.0	56.0	1.0
3028	67.0	68.0	1.0
3111	69.0	71.5	2.5
3112	78.0	98.0	20.0
3029	100.0	101.0	1.0
3030	123.0	124.0	1.0
3031	162.0	163.5	1.5
3032	184.5	185.5	1.0
3033	217.5	219.5	1.0
3113	219.5	221.5	2.0
3114	256.0	257.5	1.5
3034	262.0	263.0	1.0
3035	321.0	322.0	1.0
3115	331.5	336.5	5.0
3116	336.5	341.5	5.0
3117	341.5	345.0	3.5
3118	345.0	350.0	5.0
3119	350.0	352.5	2.5
3036	360.0	361.0	1.0
3037	388.0	389.0	1.0
3038	405.5	407.0	1.5
3039	425.8	427.0	1.2
3040	455.0	456.0	1.0
3041	477.0	477.7	0.7
3042	517.5	518.5	1.0
3043	545.0	546.0	1.0
3044	574.5	575.0	0.5
3327	596.0	601.0	5.0
3045	598.5	599.3	0.8
3120	601.0	602.0	1.0
3328	602.0	607.0	5.0
3046	613.0	613.5	0.5
3047	625.5	626.7	1.2
3048	645.7	646.7	1.0
3049	662.0	663.2	1.2
3050	678.0	679.2	1.2
3051	731.0	732.0	1.0
3052	740.0	740.7	0.7
3121	764.0	767.0	3.0
3056	770.3	771.3	1.0
3053	809.0	810.0	1.0
3054	823.2	824.5	1.3
3055	845.0	846.0	1.0

HOLE NO: SG-81- 3

W. G. TIMMINS EXP & DEV LTD.
SAMPLE LISTING - BY HOLE

APR 24/81

SAMPLE	DEPTH FROM	DEPTH TO	LENGTH
3057	88.3	89.2	0.9
3058	118.9	120.0	1.1
3122	127.0	128.0	1.0
3123	130.0	131.8	1.8
3059	138.4	139.1	0.7
3060	155.7	156.3	0.6
3124	160.2	165.2	5.0
3061	177.3	178.0	0.7
3062	198.9	199.7	0.8
3063	235.9	236.5	0.6
3125	240.3	242.7	2.4
3064	305.1	306.1	1.0
3126	310.3	321.3	11.0
3306	323.8	325.4	1.6
3127	325.8	327.7	1.9
3304	325.8	327.7	1.9
3128	327.7	332.7	5.0
3305	332.7	337.0	4.3
3129	337.0	340.5	3.5
3065	344.7	345.4	0.7
3066	357.0	358.2	1.2
3067	368.5	369.3	0.8
3068	377.4	379.0	1.6
3069	412.0	413.0	1.0
3070	452.0	452.9	0.9
3071	468.2	469.0	0.8
3072	490.5	491.3	0.7
3073	514.8	515.6	0.8
3131	524.3	526.2	1.9
3325	526.2	534.9	8.7
3132	534.9	535.0	0.1
3326	535.0	539.8	4.8
3133	539.8	540.7	0.9
3074	543.7	544.8	1.1
3075	557.9	558.0	0.1
3076	586.1	586.5	0.4
3077	607.0	608.3	1.3
3078	625.4	629.4	4.0
3079	655.4	656.5	1.1
3080	678.4	679.4	1.0

HOLE NO: SG-81- 4

W. G. TIMMINS EXP & DEV LTD.
SAMPLE LISTING - BY HOLE

APR 24/81

SAMPLE	DEPTH FROM	DEPTH TO	LENGTH
3081	87.0	88.1	1.1
3082	120.7	121.4	0.7
3083	139.5	140.2	0.7
3084	182.0	183.1	1.1
3085	207.0	207.9	0.9
3086	233.2	234.2	1.0
3087	276.5	277.4	0.9
3088	299.5	300.0	0.5
3134	303.9	306.0	2.1
3135	313.0	315.0	2.0
3136	327.0	329.0	2.0
3137	329.2	333.0	3.2
3138	336.0	340.2	4.2
3139	348.3	350.1	1.8
3140	360.5	362.3	1.8
3089	364.5	366.0	1.5
3090	398.5	399.7	1.2
3141	446.0	448.4	2.4
3142	458.6	461.0	2.4
3091	474.0	476.0	2.0
3143	479.7	482.0	2.3
3144	482.0	487.0	5.0
3145	487.0	492.0	5.0
3146	492.0	497.0	5.0
3147	497.0	502.0	5.0
3148	502.0	507.0	5.0
3149	507.0	512.0	5.0
3150	512.0	517.0	5.0
3092	528.5	529.3	0.8
3151	532.0	534.7	2.7
3152	546.5	547.6	1.1
3093	551.0	552.8	1.8

HOLE NO: SG-81-5

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SAMPLE LISTING - BY HOLE

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SAMPLE	DEPTH FROM	DEPTH TO	LENGTH
3094	39.3	40.8	1.5
3095	93.0	94.0	1.0
3096	128.0	129.0	1.0
3153	140.2	142.8	2.6
3154	145.0	147.0	2.0
3155	185.6	190.6	5.0
3156	190.6	195.6	5.0
3157	195.6	200.6	5.0
3158	200.6	205.6	5.0
3097	229.0	230.1	1.1
3098	277.3	278.5	1.2
3099	383.2	384.2	1.0
3100	410.0	411.1	1.1
3201	424.3	425.3	1.0
3202	447.0	448.1	1.1
3203	462.0	463.5	1.5
3204	486.0	487.0	1.0
3205	509.2	510.5	1.3
3206	533.7	534.9	1.2
3207	553.4	554.0	0.6
3208	572.4	573.4	1.0
3209	602.0	603.0	1.0
3210	625.6	626.5	0.9
3211	645.0	645.0	1.0
3212	671.0	672.0	1.0
3213	699.7	701.7	2.0
3214	728.0	729.0	1.0
3159	737.0	739.3	2.3
3160	739.8	744.5	4.7
3161	745.0	749.0	4.0
3162	749.0	750.7	1.7
3163	750.7	751.7	1.0
3164	751.7	753.9	2.2
3312	753.7	753.4	0.7
3215	753.5	754.5	1.0
3216	777.0	778.0	1.0
3217	804.9	805.5	1.7
3218	824.2	825.5	1.3
3219	841.2	842.5	1.3 1.3

HOLE NO: SG-81- 6

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SAMPLE LISTING - BY HOLE

APR 24/81

SAMPLE	DEPTH FROM	DEPTH TO	LENGTH
3220	68.1	69.0	0.9
3221	110.8	111.5	0.7
3165	132.4	133.7	1.3
3222	141.5	142.1	0.6
3166	142.2	146.7	4.5
3167	173.0	174.5	1.5
3223	174.5	175.3	0.8
3224	207.2	208.2	1.0
3225	255.5	256.4	0.9
3226	266.8	267.8	1.0
3168	291.0	296.0	5.0
3227	304.8	306.0	1.2
3228	337.0	338.0	1.0
3229	368.9	369.8	0.9
3230	401.9	402.7	0.8
3231	435.4	437.0	1.6
3232	450.0	451.0	1.0
3233	474.1	475.2	1.1
3234	531.5	532.8	1.3
3235	555.0	555.9	0.9
3169	571.3	573.6	2.3
3170	581.3	582.3	1.0
3171	583.0	588.0	5.0
3172	588.0	593.0	5.0
3236	613.1	614.0	0.9
3173	639.0	641.4	2.4
3237	647.0	648.0	1.0
3238	687.0	687.8	0.8
3239	735.2	737.0	1.8
3240	776.2	777.0	0.8
3241	817.0	817.8	0.8
3242	847.0	848.0	1.0
3243	877.0	877.4	0.4
3244	925.4	927.0	1.6
3245	957.0	958.0	1.0
3246	987.0	987.8	0.8
3247	1.021.4	1.022.2	0.8
3248	1.037.0	1.037.8	0.8
3249	1.077.0	1.077.9	0.9
3250	1.097.0	1.097.1	0.1

HOLE NO: SG-81- 7

W. G. TIMMINS EXP & DEV LTD.
SAMPLE LISTING - BY HOLE

APR 24/81

SAMPLE	DEPTH FROM	DEPTH TO	LENGTH
3251	63.0	64.1	1.1
3252	132.5	133.2	0.7
3174	139.7	142.0	2.3
3253	167.0	168.0	1.0
3254	196.3	197.0	0.7
3175	224.8	232.0	7.2
3255	234.9	236.0	1.1
3256	267.0	267.9	0.9
3176	270.0	275.0	5.0
3257	317.0	318.3	1.3
3258	347.0	348.2	1.2
3259	387.0	387.7	0.7
3260	427.0	427.6	0.6
3261	466.0	467.0	1.0
3177	470.5	475.3	4.8
3262	505.1	506.3	1.2
3178	522.0	527.0	5.0
3263	545.9	547.0	1.1
3179	552.0	557.0	5.0
3264	567.0	568.0	1.0
3265	601.9	602.2	0.3
3266	624.5	625.4	0.9
3267	655.9	657.0	1.1
3268	697.0	698.3	1.3
3269	737.0	738.0	1.0
3180	738.0	743.0	5.0
3181	762.0	767.0	5.0
3182	767.0	772.0	5.0
3270	775.7	776.8	1.1
3271	807.0	808.0	1.0
3272	826.0	827.0	1.0
3273	856.2	857.0	0.8
3274	876.0	877.0	1.0
3275	895.9	895.9	0.9
3276	914.3	915.0	1.2
3277	917.0	918.3	1.3
3183	927.0	932.0	5.0
3184	932.0	936.2	4.2
3278	936.2	937.2	1.0
3279	945.9	947.0	1.1
3185	947.0	957.0	10.0
3280	957.0	958.2	1.2
3281	988.5	989.4	0.9
3282	1,016.0	1,017.0	1.0
3283	1,049.2	1,050.4	1.2
3284	1,077.0	1,078.0	1.0
3285	1,107.0	1,108.0	1.0
3286	1,134.1	1,135.0	0.9
3186	1,141.6	1,148.6	7.0
3287	1,167.0	1,167.9	0.9
3288	1,196.3	1,197.0	0.7
3289	1,206.3	1,207.0	0.7
3290	1,224.1	1,225.1	1.0
3291	1,236.7	1,237.6	0.9

HOLE NO: SG-81- 7

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SAMPLE LISTING - BY HOLE

APR 24/81

SAMPLE DEPTH FROM DEPTH TO LENGTH

3292	1.255.0	1.256.0	1.0
3293	1.293.0	1.294.0	1.0
3319	1.332.0	1.337.0	5.0
3294	1.337.0	1.338.0	1.0
3320	1.338.0	1.343.0	5.0
3295	1.375.1	1.377.0	0.9
3296	1.434.5	1.435.5	1.0

HOLE NO: SG-81- 8

W. G. TIMMINS EXP & DEV LTD.
SAMPLE LISTING - BY HOLE

APR 24/81

SAMPLE	DEPTH FROM	DEPTH TO	LENGTH
3297	127.0	128.1	1.1
3298	156.0	157.0	1.0
3299	167.0	167.9	0.9
3300	177.0	178.0	1.0
3401	191.2	192.0	0.8
3402	195.5	196.4	0.9
3403	226.0	227.0	1.0
3404	258.0	259.0	1.0
3405	283.4	284.4	1.0
3406	327.0	327.9	0.9
3407	348.1	349.0	0.9
3408	377.0	378.0	1.0
3409	419.0	420.0	1.0
3410	457.1	458.1	1.0
3411	487.0	487.7	0.7
3187	502.0	507.0	5.0
3412	517.0	517.7	0.7
3413	526.1	527.0	0.9
3414	554.2	555.3	1.1
3415	588.2	589.2	1.0
3416	625.0	625.7	0.7
3417	654.1	655.0	0.9
3321	655.0	655.0	10.0
3322	655.0	675.0	10.0
3184	675.0	685.0	10.0
3189	685.0	687.0	2.0
3418	687.0	687.9	0.9
3190	687.9	695.0	7.1
3191	695.0	705.0	10.0
3192	705.0	715.0	10.0
3193	715.0	717.0	2.0
3419	717.0	718.1	1.1
3194	718.1	725.0	6.9
3195	725.0	735.0	10.0
3323	734.1	736.1	1.8
3420	735.1	737.0	0.9
3324	737.0	745.0	8.0
3421	766.1	767.0	0.9
3422	793.5	794.5	1.0
3423	817.0	818.0	1.0
3424	837.0	838.0	1.0
3425	867.0	868.0	1.0
3426	916.0	917.0	1.0
3427	949.0	950.0	1.0
3428	997.0	998.0	1.0
3196	1.029.0	1.032.0	3.0
3429	1.032.0	1.033.0	1.0
3430	1.066.2	1.067.0	0.8
3431	1.097.9	1.099.0	1.1

HOLE NO: SG-81-9

W. G. TIMMINS EXP & DEV LTD.
SAMPLE LISTING - BY HOLE

APR 24/81

SAMPLE	DEPTH FROM	DEPTH TO	LENGTH
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3432	107.7	108.8	1.1
3433	131.1	132.0	0.9
3434	164.5	170.5	1.0
3435	184.0	184.8	0.8
3197	217.0	221.0	4.0
3436	221.0	222.1	1.1
3303	227.0	237.0	10.0
3437	267.6	267.7	0.1
3438	290.2	291.4	1.2
3439	302.8	303.8	1.0
3440	346.0	347.0	1.0
3445	374.5	375.5	1.0
3446	407.9	408.9	1.0
3447	445.9	447.9	1.0
3448	475.4	476.4	1.0
3449	505.2	506.0	0.8
3454	532.0	533.0	1.0
3453	549.5	550.5	1.0
3455	611.2	612.3	1.1
3456	637.0	637.8	0.8
3457	643.5	644.5	1.0
3458	650.0	657.0	1.0
3459	685.3	687.0	1.2
3460	712.0	712.9	0.9
3461	735.9	737.0	1.1
3462	753.2	753.9	0.7
3463	773.2	774.0	0.8
3464	801.4	802.4	1.0

HOLE NO: SG-81-10

W. G. TIMMINS EXP & DEV LTD.

SAMPLE LISTING - BY HOLE

APR 24/81

SAMPLE DEPTH FROM DEPTH TO LENGTH

3441	124.2	125.2	1.0
3442	145.8	146.8	1.0
3443	167.0	168.0	1.0
3444	193.0	193.9	0.9
3450	216.0	217.0	1.0
3451	243.0	244.0	1.0
3452	285.6	286.6	1.0

HOLE NO: SG-81-11

W. G. TIMMINS EXP & DEV LTD.

SAMPLE LISTING - BY HOLE

APR 24/81

SAMPLE	DEPTH FROM	DEPTH TO	LENGTH
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3465	175.7	176.7	1.0
3466	185.0	186.0	1.0
3467	215.0	216.0	1.0
3468	255.0	256.2	1.2
3469	270.1	271.1	1.0
3470	274.8	275.8	1.0
3471	303.9	305.0	1.1
3472	337.6	338.6	1.0
3473	385.0	386.0	1.0
3477	408.2	409.2	1.0
3474	416.1	417.1	1.0
3475	447.0	448.0	1.0
3476	481.2	482.2	1.0
3478	518.0	519.0	1.0
3479	525.0	526.1	1.1
3490	560.0	560.9	0.9
3491	597.0	598.0	1.0
3492	617.0	618.1	1.1
3493	657.0	657.9	0.9
3801	633.9	634.8	0.9
3802	714.8	715.8	1.0
3803	750.1	751.2	1.1
3804	787.4	788.4	1.0
3805	831.6	832.5	0.9

HOLE NO: SG-81-12

W. G. TIMMINS EXP & DEV LTD.

SAMPLE LISTING - BY HOLE

APR 24/81

SAMPLE	DEPTH FROM	DEPTH TO	LENGTH
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3480	133.0	134.0	1.0
3481	170.0	170.7	0.7
3482	188.9	189.8	0.9
3811	205.8	206.6	0.8
3483	215.9	216.9	1.0
3484	232.0	232.9	0.9
3485	251.3	252.2	0.9
3486	274.8	276.0	1.2
3487	295.0	296.0	1.0
3488	317.0	318.0	1.0
3489	334.7	335.7	1.0
3494	357.0	357.8	0.8
3495	389.1	390.1	1.0
3496	417.0	417.8	0.8
3497	433.0	433.8	0.8
3498	447.0	448.0	1.0
3499	488.0	489.0	1.0
3500	505.0	506.1	1.1
3806	524.0	524.9	0.9
3307	542.0	548.0	6.0
3807	550.0	551.2	1.2
3808	554.5	559.5	1.0
3809	580.0	580.9	0.9
3810	634.5	635.5	1.0

HOLE NO: SG-81-13

W. G. TIMMINS EXP & DEV LTD.
SAMPLE LISTING - BY HOLE

APR 24/81

SAMPLE	DEPTH FROM	DEPTH TO	LENGTH
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3812	66.0	67.0	1.0
3813	97.0	98.0	1.0
3814	117.0	118.0	1.0
3815	157.0	157.9	0.9
3816	189.0	190.0	1.0
3817	217.0	218.0	1.0
3308	218.0	223.0	5.0
3309	240.0	243.0	3.0
3818	247.6	248.7	1.1
3310	248.7	250.9	2.2
3819	267.0	268.0	1.0
3820	303.0	304.1	1.1
3821	322.1	323.1	1.0
3822	339.8	340.8	1.0
3823	356.0	357.0	1.0
3824	376.0	377.0	1.0
3825	393.9	395.0	1.1
3311	395.0	405.0	10.0
3826	405.0	406.0	1.0
3827	437.0	438.0	1.0
3828	475.0	475.9	0.9
3829	507.0	508.0	1.0
3830	537.0	538.0	1.0
3831	566.1	567.0	0.9
3832	581.6	582.6	1.0
3833	595.1	596.3	1.2
3834	628.4	629.3	0.9
3835	645.8	647.0	1.2
3836	667.0	668.0	1.0
3837	687.0	688.0	1.0
3838	701.0	702.1	1.1
3839	714.9	715.9	1.0
3840	720.8	721.8	1.0
3841	761.9	762.7	0.8
3842	777.0	778.0	1.0
3843	795.1	797.0	0.9
3844	815.8	817.0	1.2
3845	855.1	856.2	1.1

HOLE NO: SG-81-14

W. G. TIMMINS EXP & DEV LTD.
SAMPLE LISTING - BY HOLE

APR 24/81

SAMPLE	DEPTH FROM	DEPTH TO	LENGTH
3846	41.0	42.0	1.0
3847	65.9	67.0	1.1
3848	87.0	88.0	1.0
3849	94.3	95.2	0.9
3850	108.8	109.7	0.9
3851	119.0	119.9	0.9
3852	122.3	123.0	0.7
3853	147.0	148.1	1.1
3854	174.0	175.0	1.0
3855	186.7	187.7	1.0
3313	205.0	208.0	3.0
3856	208.0	208.9	0.9
3314	209.0	213.0	4.0
3315	213.0	223.0	10.0
3857	235.0	236.0	1.0
3858	267.0	268.1	1.1
3859	307.0	308.0	1.0
3860	336.0	337.0	1.0
3861	357.0	358.1	1.1
3862	360.5	361.6	1.0
3863	387.0	388.0	1.0
3864	416.0	417.0	1.0
3865	457.0	458.0	1.0
3866	500.0	501.1	1.1
3867	511.6	512.7	1.1
3868	547.0	547.8	0.8
3869	575.0	577.0	1.0
3870	606.0	607.0	1.0
3871	627.0	628.0	1.0
3872	653.5	654.4	0.9
3316	654.4	658.5	4.1
3873	668.4	669.4	1.0
3874	705.9	707.0	1.1
3875	727.0	728.0	1.0
3876	757.0	757.9	0.9
3877	784.1	785.0	0.9
3878	807.0	808.0	1.0
3317	808.0	815.0	7.0
3318	815.0	822.4	7.4
3879	822.4	823.4	1.0
3880	843.5	844.5	1.0



TERRAMIN RESEARCH LABS LTD.

Client No.	SiO ₂ %	Al ₂ O ₃ %	CaO %	MgO %	Na ₂ O %	K ₂ O %	Fe ₂ O ₃ %	MnO %		Cu ppm	Zn ppm	Pb ppm	Au ppb	Ag ppb
1 3111	45.3	19.3	0.891	7.13	0.377	1.57	12.8	0.161		1050	460	1	8	960
2 3112 (1)	75.1	11.7	0.297	2.25	0.404	2.13	3.09	0.044		15	870	7	2	180
3 3112 (2)	79.0	11.3	0.122	1.59	0.404	2.23	2.65	0.037		33	820	6	2	300
4 3113	76.9	11.1	0.107	2.88	0.229	2.11	3.05	0.066		25	131	14	< 2	80
5 3114	75.5	10.9	0.107	2.88	0.229	2.11	3.15	0.065		17	148	< 1	< 2	10
6 3115	78.6	9.09	0.038	2.77	0.162	1.54	3.00	0.034		2800	410	3	< 2	1510
7 3116	76.5	10.1	0.089	1.82	0.162	2.17	4.49	0.079		8600	470	14	30	6230
8 3117	68.8	9.48	0.229	2.92	0.135	1.70	6.88	0.236		4200	440	9	50	2230
9 3118	73.5	9.71	0.106	2.07	0.148	1.84	5.59	0.116		7500	630	27	70	11700
0 3119	74.9	8.59	0.071	2.12	0.108	1.47	5.43	0.077		4700	415	2	14	1540
1 3120	68.6	11.3	0.380	2.11	0.337	1.90	5.29	0.056		12300	1830	34	78	13500
2 3121	67.2	14.0	3.53	1.34	1.08	2.98	2.72	0.101		30	44	2	< 2	10
3 3122	59.3	14.3	4.92	3.50	0.517	0.807	6.46	0.181		9	268	< 1	< 2	30
4 3123	48.7	13.1	6.54	4.81	0.162	1.18	10.8	0.177		30	188	< 1	2	260
5 3124	51.0	12.9	5.94	4.87	0.162	1.19	11.4	0.172		33	217	< 1	< 2	180
6 3125	78.4	10.2	1.22	1.92	0.377	1.78	2.97	0.090		16	111	6	< 2	100
7 3126	78.6	11.1	0.677	2.12	0.189	2.48	3.89	0.066		118	230	< 1	< 2	140
8 3128	74.9	7.65	0.132	0.812	0.135	1.88	5.08	0.040		25600	9800	25	452	22700
9 3127	N.S.													
0 3112 average	77.1	11.5	0.210	1.92	0.404	2.18	2.87	0.041		24	845	6	2	240

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TERRAMIN P-SEARCH LABS LTD.

		(1)	(2)	(3)	(4)	(5)							
	Client No. Drill Core	Cu ppm	Pb ppm	Zn ppm	Au ppb	Ag ppb							
1	3166	81	10	136	2	230							
2	3167	56	12	136	2	550							
3	3168	66	2	175	2	140							
4	3169	4100	22	340	2	2630							
5	3170	7200	23	630	24	5130							
6	3171	4000	118	12100	84	26800							
7	3172	4100	15	600	2	3730							
8	3173	1560	5	1050	2	1680							
9	3174	96	2	87	2	90							
0	3175	29	1	159	2	40							
1	3176	133	1	76	2	90							
2	3177	310	2	180	2	240							
3	3178	22	4	240	2	100							
4	3179	610	19	2200	2	1520							
5	3180	7	3	175	2	90							
6	3181	135	3	1980	6	1200							
7	3182	3000	10	1420	2	3230							
8	3183	176	1	610	2	260							
9	3184	850	2	370	2	620							
J													

3185 - 3195 missing



TERRAMIN RESEARCH LABS LTD.

3272 → 3427

JOB # 81-27

(1) (3)

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	Client No.	SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	Fe ₂ O ₃	MnO		Cu ppm	Zn ppm			
1	3292	55.9	13.4	4.07	4.64	1.69	0.916	7.08	0.164		54	205			
2	3293	58.5	13.4	3.29	4.36	1.27	0.747	6.68	0.225		5	360			
3	3294	58.5	14.9	0.588	5.50	0.755	1.25	9.92	0.159		2200	540			
4	3295	62.5	14.5	0.546	5.32	0.458	2.04	6.89	0.134		76	360			
5	3296	63.5	13.2	2.88	4.39	1.42	1.14	6.35	0.192		36	355			
6	3297	49.1	15.3	7.13	5.70	6.34	0.988	6.58	0.129		60	85			
7	3298	49.9	13.6	8.39	6.83	3.90	0.518	7.87	0.170		9	116			
8	3299	65.3	15.5	2.34	1.26	6.61	2.13	3.85	0.043		27	47			
9	3300	64.9	15.5	1.93	1.66	8.09	0.349	3.68	0.040		22	63			
0	3401	61.1	14.9	4.99	1.39	3.68	3.04	3.69	0.049		145	48			
1	3402	46.2	14.0	7.27	8.46	3.95	0.711	7.79	0.136		3	120			
2	3403	62.5	14.7	3.54	2.14	4.61	2.29	3.42	0.067		9	46			
3	3404	52.9	14.4	4.24	4.59	4.81	0.458	8.94	0.120		29	105			
4	3405	51.9	15.3	2.67	5.70	3.92	0.446	10.2	0.096		42	154			
5	3406	49.3	14.9	4.97	4.94	1.15	0.928	10.7	0.155		38	158			
6	3407	62.9	15.1	4.62	2.60	1.69	1.63	3.83	0.085		3	32			
7	3408	52.3	13.6	5.64	4.18	0.216	0.217	12.0	0.223		46	161			
8	3409	51.5	12.1	3.71	5.22	0.054	0.108	17.7	0.230		31	261			
9	3410	73.4	10.8	2.24	2.25	0.256	1.75	3.98	0.088		5	92			
0	3411	65.7	11.3	0.574	1.82	0.324	2.05	2.97	0.046		50	107			



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 81-27

W.G. Timmins Expl. & Dev't.

Date Apr.8,1981

Client Project Sturgeon Lake

Page 3/3

Sample No.	(1)	(2)	(3)	(4)	(5)
	Cu ppm	Pb ppm	Zn ppm	Au ppb	Ag ppb
3185	4900	2	1510	80	4600
3186	4700	2	2080	14	1960
3187	210	3	385	10	190
3188	1520	6	850	12	1000
3189	680	6	780	12	550
3190	640	3	590	2	440
3191	1380	1	1110	8	880
3192	980	2	1360	12	340
3193	5700	7	1930	24	8700
3194	320	2	265	18	260
3195	700	1	405	10	460



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT W.G. Timmins

Job # 81-36

Date Apr. 28, 1981

Client Project Sturgeon Lake

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Sample No. Drill Core	Cu ppm	Pb ppm	Zn ppm	Au ppb	Ag ppb
3196	10200	2	860	158	8700
3197	1080	19	1380	8	3300
3198	192	2	8700	4	410
3199	153	1	1390	2	220
3200	230	< 1	480	2	300
3301	154	1	1050	< 2	170
3302	43	2	940	< 2	100
3303	240	360	1620	2	960
3304	1100	4	520	2	630
3305	490	4	303	< 2	360
3306	21	3	246	< 2	30



TERRAMIN RESEARCH LABS LTD.

	Client No.	SiO ₂ %	Al ₂ O ₃ %	CaO %	MgO %	Na ₂ O %	K ₂ O %	Fe ₂ O ₃ %	MnO %		Cu ppm	Zn ppm			
1	3464	69.8	14.5	3.60	1.49	4.42	1.22	7.45	0.036		29	60			
2	3465	70.0	14.1	4.35	1.71	3.60	1.60	6.33	0.048		4	81			
3	3466	70.0	15.1	3.61	1.66	4.41	1.55	5.78	0.041		14	115			
4	3467	70.0	15.2	3.05	1.87	3.48	2.21	5.33	0.040		61	93			
5	3468	68.2	14.5	4.24	1.72	3.45	2.06	4.90	0.052		21	121			
6	3469	50.6	14.1	8.14	5.99	2.32	0.289	12.1	0.134		82	182			
7	3470	69.8	14.7	3.20	1.74	5.38	1.25	4.40	0.040		19	102			
8	3471	70.2	15.1	3.46	1.69	5.28	1.21	4.55	0.045		21	122			
9	3472	69.8	14.9	3.53	1.62	4.19	1.65	4.19	0.043		23	91			
0	3473	68.2	14.7	3.13	1.66	4.66	1.53	4.39	0.041		5	131			
1	3474	57.8	13.2	3.34	1.16	4.19	1.54	3.83	0.039		2	59			
2	3475	66.2	14.5	4.24	1.46	2.91	2.17	3.96	0.053		8	74			
3	3476	61.6	13.8	3.29	1.13	3.19	1.93	3.53	0.046		12	64			
4	3477	72.6	13.8	3.43	1.54	4.00	1.58	3.42	0.043		5	59			
5	3478	73.6	14.0	2.63	1.39	3.64	2.18	3.27	0.036		48	32			
6	3479	49.8	14.7	8.03	7.00	4.12	0.566	6.76	0.076		40	127			
7	3480	80.3	9.79	1.76	1.01	0.580	2.46	2.59	0.025		3	46			
8	3481	62.0	14.3	5.34	2.04	1.47	2.40	8.65	0.083		69	67			
9															
0															



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 81-40

Date Mar. 30, 1981

Client Project Seagull - Additional assays done on all samples greater than 0.05% Cu and 0.1% Zn

Page 1/1

Sample No.	Au ppb	Ag ppb
from 81-18-B 3018	12	800
3021	< 2	690
3022	< 2	810
3023	< 2	310
3025	< 2	120
3030	< 2	130
from 81-20-B 3091	4	210
3092	2	320
3093	< 2	90
3215	4	360
from 81-21-B 3270	< 2	440
3272	2	590
3273	2	60
3276	2	200
3284	2	250
3286	< 2	70



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 81-55

W.G. Timmins

Date May 13, 1981

Client Project Seagull - Sturgeon Lake

Page 1/6

Sample No.	Cu ppm	Pb ppm	Zn ppm	Au ppb	Ag ppb
3307	33	5	108	2	310
3308	1060	15	9800	4	1740
3309	108	18	330	2	830
3310	54	10	20400	2	740
3311	1600	1	530	2	840
3312	60	1	1240	2	50
3313	28	1	238	2	100
3314	2	1	240	2	10
3315	47	1	300	2	60
3316	330	1	320	2	210
3317	10	1	260	2	10
3318	760	1	260	2	380



TERRAMIN RESEARCH LABS LTD.

	Client No. Drill Core	SiO ₂ %	Al ₂ O ₃ %	CaO %	MgO %	Na ₂ O %	K ₂ O %	Fe ₂ O ₃ %	MnO %		Cu ppm		Zn ppm		
1	3801	70.6	12.2	3.72	1.54	0.658	2.54	4.92	0.065		38		73		
2	3802	66.6	14.4	4.07	1.99	1.47	2.34	4.40	0.057		4		48		
3	3803	58.0	14.1	5.46	3.95	1.21	1.47	7.64	0.120		12		138		
4	3804	54.6	15.2	8.37	4.16	1.95	1.17	7.15	0.077		84		63		
5	3805	66.2	15.2	5.33	2.65	1.86	1.43	5.42	0.052		42		51		
6	3806	78.5	10.5	1.43	1.19	0.290	2.17	5.72	0.099		30		170		
7	3807	77.9	11.2	0.727	1.21	0.299	2.52	5.30	0.037		35		107		
8	3808	52.1	12.2	6.70	7.86	2.56	0.592	6.16	0.096		2		200		
9	3809	80.2	10.6	0.881	0.879	0.294	2.83	2.63	0.030		7		78		
0	3810	58.6	13.9	3.02	2.45	0.998	2.28	10.4	0.133		50		122		
1	3811	62.6	14.8	4.99	1.38	1.82	2.12	7.04	0.086		25		17		
2	3812	55.7	16.2	4.94	3.88	0.437	1.57	11.1	0.123		132		188		
3	3813	56.1	13.6	3.72	3.56	0.270	1.42	10.1	0.102		240		209		
4	3814	50.2	12.5	6.53	4.19	0.213	0.686	10.9	0.159		32		206		
5	3815	56.7	14.4	1.57	3.25	0.344	2.10	12.2	0.099		33		420		
6	3816	70.7	12.5	0.741	2.64	0.243	2.23	4.78	0.062		19		330		
7	3817	70.7	11.3	0.042	3.75	0.175	1.64	6.51	0.053		27		3300		
8	3818	70.1	11.3	0.028	1.56	0.268	2.35	6.98	0.021		18		540		
9	3819	55.9	17.0	1.15	5.01	0.257	2.42	9.88	0.274		30		2900		
0	3820	41.1	13.2	9.16	6.80	0.280	2.33	8.51	0.269		4		260		



TERRAMIN RESEARCH LABS LTD.

JOB # 81-55

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	Client No.	SiO ₂ %	Al ₂ O ₃ %	CaO %	MgO %	Na ₂ O %	K ₂ O %	Fe ₂ O ₃ %	MnO %		Cu ppm		Zn ppm		
1	3821	57.5	16.3	1.57	4.97	0.216	2.70	9.48	0.077		25		460		
2	3822	44.1	13.0	7.34	7.39	2.16	1.08	8.64	0.156		20		400		
3	3823	70.3	12.3	0.308	2.64	0.275	2.12	9.08	0.108		11		370		
4	3824	73.3	10.6	0.014	2.50	0.109	1.67	8.32	0.085		350		780		
5	3825	74.3	11.4	0.098	3.30	0.164	2.41	5.90	0.103		10		620		
6	3826	79.6	11.2	0.153	2.06	0.170	2.33	6.74	0.125		72		230		
7	3827	68.9	11.8	2.43	2.40	0.218	2.60	6.04	0.165		42		890		
8	3828	74.8	13.5	0.266	1.62	0.241	2.66	6.76	0.037		69		1870		
9	3829	64.7	13.5	4.60	2.93	0.264	1.96	7.00	0.169		34		2100		
0	3830	58.8	14.3	4.36	3.07	0.326	2.39	8.45	0.192		19		300		
1	3831	58.6	14.3	4.64	3.56	0.239	1.80	9.47	0.187		1100		290		
2	3832	50.2	13.5	7.15	4.94	0.243	1.21	9.10	0.243		410		230		
3	3833	65.9	11.0	0.392	3.33	0.094	1.10	10.7	0.105		4800		640		
4	3834	66.4	12.4	0.434	4.00	0.139	1.16	10.9	0.075		19		690		
5	3835	65.5	12.2	0.364	3.17	0.226	1.92	8.11	0.089		4		320		
6	3836	59.4	12.4	1.29	4.46	0.173	1.42	10.4	0.083		5		480		
7	3837	65.7	12.2	0.224	3.40	0.197	1.81	8.84	0.088		6		340		
8	3838	50.4	14.1	0.965	6.33	0.009	1.24	20.9	0.186		39		870		
9	3839	57.8	14.1	5.75	3.45	0.434	2.95	5.35	0.160		9		135		
0	3840	60.7	13.3	3.57	4.06	0.299	1.99	8.30	0.151		5		420		



TERRAMIN RESEARCH LABS LTD.

	Client No.	SiO ₂ %	Al ₂ O ₃ %	CaO %	MgO %	Na ₂ O %	K ₂ O %	Fe ₂ O ₃ %	MnO %		Cu ppm		Zn ppm		
1	3841	60.7	14.3	2.64	3.60	0.398	2.10	7.84	0.145		156		600		
2	3842	55.0	13.5	4.98	4.00	0.608	1.88	7.54	0.133		27		300		
3	3843	53.6	14.6	5.34	3.33	0.427	1.27	8.66	0.132		8		202		
4	3844	60.5	12.2	4.83	3.10	0.418	1.23	6.65	0.108		1		152		
5	3845	56.5	12.7	5.72	3.40	1.02	1.28	7.07	0.136		33		190		
6	3846	50.9	13.5	5.19	3.98	0.249	1.16	10.7	0.128		48		124		
7	3847	58.2	9.88	6.74	4.21	0.212	1.19	8.69	0.194		2		108		
8	3848	59.9	14.4	4.46	3.91	0.369	1.21	9.62	0.107		43		132		
9	3849	64.3	14.6	3.34	3.73	0.465	1.40	9.35	0.076		130		150		
0	3850	69.9	10.6	2.06	2.93	0.360	1.21	7.70	0.052		7		154		
1	3851	60.1	14.1	4.32	3.30	0.491	2.60	7.66	0.103		1		170		
2	3852	71.0	14.1	3.62	1.21	1.37	2.52	3.84	0.071		1		24		
3	3853	58.6	16.0	4.69	2.88	0.466	2.40	8.00	0.107		22		98		
4	3854	64.7	10.9	3.15	2.42	0.411	1.98	8.17	0.084		4		110		
5	3855	58.2	14.6	5.19	3.53	0.479	1.83	8.47	0.116		35		138		
6	3856	66.6	14.1	2.07	4.64	0.249	2.34	7.22	0.065		2		220		
7	3857	79.4	12.4	0.755	2.47	0.263	2.41	4.11	0.059		1		179		
8	3858	77.7	12.4	1.89	2.24	0.256	2.82	3.66	0.046		1		134		
9	3859	51.2	9.82	11.5	6.07	0.187	1.81	8.32	0.470		260		156		
0	3860	76.9	12.5	2.73	2.01	0.328	2.65	4.89	0.103		24		210		



TERRAMIN RESEARCH LABS LTD.

	Client No.	SiO ₂ %	Al ₂ O ₃ %	CaO %	MgO %	Na ₂ O %	K ₂ O %	Fe ₂ O ₃ %	MnO %		Cu ppm		Zn ppm		
1	3861	71.8	12.0	3.79	2.07	0.201	1.95	5.26	0.103		35		105		
2	3862	57.3	13.3	7.29	3.63	0.372	2.89	5.50	0.136		25		101		
3	3863	74.1	13.1	1.78	1.28	0.189	2.00	5.53	0.062		690		109		
4	3864	60.1	11.0	2.46	1.71	0.128	1.48	5.50	0.081		19		174		
5	3865	69.7	13.1	5.44	2.67	0.174	1.89	6.62	0.112		29		180		
6	3866	67.2	13.3	3.47	2.93	0.155	1.52	7.00	0.114		50		146		
7	3867	65.9	13.7	4.43	3.05	0.174	1.60	7.36	0.101		75		158		
8	3868	75.6	13.3	2.83	2.11	0.224	1.42	5.74	0.066		10		143		
9	3869	65.1	12.5	4.55	2.74	0.156	1.35	6.73	0.115		22		142		
0	3870	69.5	13.5	3.93	2.77	0.208	1.15	7.00	0.114		65		193		
1	3871	63.0	14.1	2.14	3.13	0.170	1.08	6.82	0.076		118		170		
2	3872	66.8	13.1	3.23	3.78	0.182	1.34	6.80	0.101		67		215		
3	3873	51.0	14.4	7.30	4.94	0.663	1.71	7.19	0.129		7		124		
4	3874	67.8	13.5	2.73	3.61	0.218	1.74	6.10	0.110		10		230		
5	3875	66.2	13.3	3.53	3.68	0.206	1.61	6.46	0.114		2		172		
6	3876	62.6	12.4	4.76	4.54	0.251	2.28	6.04	0.159		30		198		
7	3877	62.4	14.6	3.44	4.61	0.279	2.33	7.63	0.130		14		220		
8	3878	62.3	13.3	3.06	5.54	0.224	1.35	8.75	0.132		68		270		
9	3879	59.9	13.1	5.22	5.21	0.272	1.77	7.57	0.185		370		210		
0	3880	60.9	11.6	4.76	4.38	0.276	1.17	5.84	0.139		26		160		



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 81-56

W.G. Timmins

Date May 13, 1981

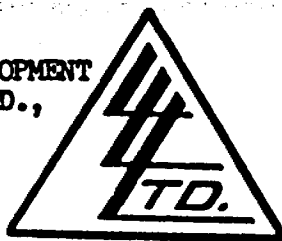
Client Project Seagull - Sturgeon Lake

Page 1/1

Sample No.	Cu ppm	Pb ppm	Zn ppm	Au ppb	Ag ppb
3319	202	1	470	2	410
3320	38	1	460	2	50
3321	11	1	193	3	10
3322	30	1	600	2	30
3323	860	1	650	4	1550
3324	186	1	1580	2	240
3325	115	1	1000	2	170
3326	1650	1	750	108	630
3327	10	1	202	2	20
3328	7	1	44	2	10

To: W.G. TIMMINS EXPLORATION & DEVELOPMENT
502, 900 - 6th Avenue S.W.
Calgary, Alberta T2P 3K2

LTD.,



File No. 21344
 Date April 8, 1981
 Samples Crushed Reject

ATTN: W.G. Timmins

Certificate of
ASSAY OF
LORING LABORATORIES LTD.

Page # 2

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Cu	% Zn
3159	Trace	.12	.13	.19
3160	Trace	.06	.11	.27
3161	Trace	.02	.04	.15
3162	Trace	Trace	.08	2.40
3163	.010	.30	2.49	45.46
3164	Trace	.04	.08	1.25
3165	Trace	.02	.02	.05

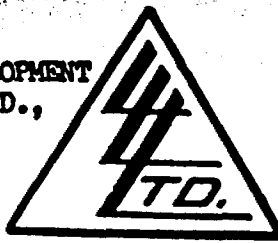
**I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . .**

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements
 made in advance.

D. Enders

Assayer

To: W.G. TIMMINS EXPLORATION & DEVELOPMENT LTD.,
502, 900 - 6th Avenue S.W.,
Calgary, Alberta T2P 3K2



File No. ...21344-1
Date April 9, 1981
Samples ... Pulp.

ATTN: W.G. Timmins

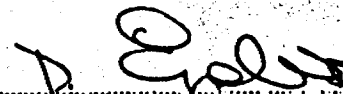
Certificate of
ASSAY of
LORING LABORATORIES LTD.

Page # 2

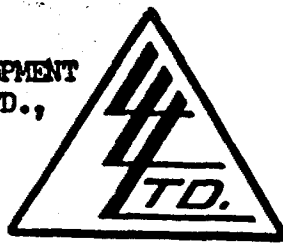
SAMPLE No.	% Cu	% Zn
3159	.19	.26
3160	.13	.24
3161	.05	.20
3162	.07	2.20
3163	2.05	41.90
3164	.10	1.60
3165	.02	.07

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . .

Rejects Retained one month.
Pulps Retained one month
unless specific arrangements
made in advance.


Assayer

To: W.G. TIMMINS EXPLORATION & DEVELOPMENT LTD.,
 502, 900 - 6th Avenue S.W.,
 Calgary, Alberta T2P 3K2



File No. 21344-1
 Date April 9, 1981
 Samples Pulp

ATTN: W.G. Timmins

Certificate of
 ASSAY of
 LORING LABORATORIES LTD.

Page # 1

SAMPLE No.	% Cu	% Zn
<u>"Pulp Samples"</u>		
3102	.05	.16
3103	.01	.94
3104	.04	.13
3105	.12	.78
3106	.98	.81
3107	.02	.03
3109	.13	.04
3115	.33	.04
3116	1.10	.06
3117	.52	.05
3118	.88	.06
3119	.54	.04
3120	1.55 *	.18
3128	3.05	1.03
3129	.06	.02
3130	.09	.05
3131	1.03	.13
3132	.35	.18
3133	.05	.14

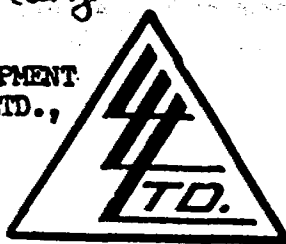
I Herby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

*Copper Double Checked

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements
 made in advance.

Assayer

To: W.G. TIMMINS EXPLORATION & DEVELOPMENT LTD.,
 502, 900 - 6th Avenue S.W.,
 Calgary, Alberta T2P 3K2



File No. 21344
 Date April 8, 1981
 Samples Crushed Reject

ATTN: W.G. Timmins

**Certificate of
 ASSAY OF
 LORING LABORATORIES LTD.**

Page # 1

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Cu	% Zn
<u>"Crushed Rejects"</u>				
3102	.005	.14	.05	.14
3103	Trace	.04	.01	.74
3104	Trace	.02	.05	.23
3105	Trace	.10	.12	1.01
3106	Trace	1.08	.95	.74
3107	Trace	.10	.02	.03
3109	Trace	.08	.14	.04
3115	Trace	.06	.24	.03
3116	.005	.16	1.15	.06
3117	Trace	.10	.36	.04
3118	.005	.20	.65	.05
3119	Trace	.02	.60	.04
3120	.020	.36	.81	.14
3128	.010	.50	2.20	.68
3129	Trace	.04	.06	.02
3130	Trace	.02	.12	.05
3131	.010	.68	1.05	.17
3132	.020	.26	.40	.38
3133	.010	.12	.06	.09

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements
 made in advance.

D. Jones

Assayer

PROPERTY Seagull Sturgeon Lake CLAIM _____
 LATITUDE 18 + 50N STARTED February 13, 1981
 DEPARTURE 112 + 00E FINISHED February 18, 1981
 ELEVATION _____ TOTAL LENGTH 597

DEPTH	DIP	AZI.
COLLAR	65	180
57	63	
157	61	
257	59	
357	50	
457	46	

DEPTH	DIP	AZI.
557	42	

HOLE NO. SG 81-1
 LOGGED BY Doug Hunter
 CORE SIZE BQ
 SECTION 112E
 LEVEL _____

D.D.Co. _____

Page 1 of 2

CORE FOOTAGE		DESCRIPTION	SAMPLE NO	FROM	TO	LENGTH	Cu ppm	Zn ppm	Ag ppb	Au ppb
FROM	TO									
0	55	Casing in overburden								
55	70	Light pink-grey lapilli-tuff. Chlorite in siliceous fragments and throughout ground mass. Generally massive with hints of bedding only. Strong foliation c.a. = 45°.								
70		Green, chloritic lapilli-tuff with white siliceous fragments, local lenses, generally massive. Becomes massive, grey tuff-lapilli tuff at approximately 100'. Well foliated chloritic tuff and lapilli								
	154	tuff near end of section. Foliation c.a. = 38°. Quartz-carbonate-tourmaline vein at 154-159'.	3101			191.0 192.0	100	86		
154		Very well bedded fine grained tuff and argillaceous tuff. Very distinct thin beds and laminations, some chloritic, others very siliceous. Bedding locally folded, with foliation appearing axialplanar to folds.	3101			191.0 192.0	100	86		
	355	Local pyrite-rich band sampled for assay. Extremely siliceous section 283-330', this carries pyrite 'lenses' from 297-310'. Bedding and cleavage essentially parallel, c.a. = 44°.	3102			298.0 299.0	320	1570		
355	407	Grey-green, massive tuff, lapilli tuff with bedding distinct from place to place, although beds thicker than previous section. At 391.5 a 2cm. bed carrying 15% CPy disseminated. At 315 foliation c.a. = 44°.	3103			429.0 430.0	42	9800		
407		Grey, massive lapilli tuff distinguished by wispy and lensy mafic fragments throughout. Bedding present, but not so pronounced as in previous sections. Extremely siliceous sections in tuff-breccia with minute iridescent milky blue quartz eyes. Sulphides conspicuous at 448'. 'Heaviest' over 472-487' where pyrite and CPy occur disseminated (2-5%) and in chlorite stringers and quartz-carbonate	3104			471.1	380	1410		
			3105			477.1	1290	8900	1960	10
			3106			482.1	7700	7700	19000	68
			3107			482.1 487.1 487.1				
						489.1				

PROPERTY Seagull Sturgeon CLAIM
 ATITUDE 18 + 50N STARTED Feb 17, 1981
 DEPARTURE 116E FINISHED Feb 21, 1981
 ELEVATION _____ TOTAL LENGTH 847

DEPTH	DIP	AZI	DEPTH	DIP	AZI
collar	65	180			
157	62				
300	57				
467	52				
600	53				
757	52				
837	50.5				

HOLE NO. AG 61-2
 LOGGED BY D. Hunter
 CORE SIZE BQ
 SECTION 116E
 LEVEL Page 1 of 2

ORE FOOTAGE		DESCRIPTION	Sample No.	from	to	Length	Cu ppm	Zn ppm	Ag ppb	Au ppt
from	to									
0	53	Casing in overburden								
53	79	Green chloritic tuff, lapilli tuff with narrow pinkish sericitic tuff beds up to 1.0'.	3111	69.0	71.5	1.5	1050	460	960	8
79	138	Fine Grained yellow-grey tuff-bedded tuff with uniform 2% disseminated pyrite and pyrite stringers, patchy stringers, patchy carbonate. Foliation at 42° to c.a.	3112	78.0	98.0	20.0	24	845	180	2
138	165	Abrupt contact with darker grey lapilli tuff-tuff, bedding locally distinct. Local carbonate-hematitic patches and stringers.								
165	299	Uniform medium grey tuff with distinct bedding throughout, contorted. Siliceous sections, e.g. at 215'. Pyrite tr-1% sometimes vuggy carbonate-quartz veins with 20% pyrite over 1 cm. Oxidized limonite-carbonate zone 192-196' (fracture zone?)	3113 3114	219.5 256.0	221.5 257.5	2.0 1.5	25 17	131 148		
299	317	Well foliated lt-green-grey rock (tuff or dike?), locally pink hematitic.								
317	487	Well-bedded grey-cream coloured very fine-grained tuff, darker chloritic layers define bedding here whereas at 79-138' the tuff is uniform with very little chlorite, thus bedding is indistinct. Grey 'speckled' tuff and lapilli tuff with less distinct bedding from 365', local 0.5' section laminated tuff. Chalcopyrite-pyrite stringers from 331-352', up to 2 cm across, but averaging 3mm. These occur in a very distinct thin bedded-laminated cream-grey coloured tuff.	3115 3116 3117 3118 3119	331.5 336.5 341.5 345.0 350.0 352.0	336.5 341.5 345.0 350.0 352.0	5.0 5.0 3.5 5.0 2.0	2800 8600 4200 7500 4700	410 470 440 630 115	1510 6230 2230 11700 1540	2 30 50 70 14

PROPERTY Seagull Sturgeon Lake CLAIM _____
 LATITUDE 18 + 50N STARTED Feb 19, 1981
 DEPARTURE 114 + 00E FINISHED Feb 22, 1981
 ELEVATION _____ TOTAL LENGTH 697

DEPTH	DIP	AZI	DEPTH	DIP	AZI
collar	65	180			
57	63				
237	59				
337	57				
357	55				
597	35				
697	30				

HOLE NO. SG 81-3
 LOGGED BY D. Hunter
 CORE SIZE BQ
 SECTION 114E
 LEVEL _____
 Page 1 of 2

CORE FOOTAGE		DESCRIPTION	Sample No.	from	to	Length	Cu ppm	Zn ppm	Ag ppb	Au ppt
from	to									
0	48.5	Casing in lake and overburden								
48.5	145	Massive green-grey lapilli tuff. Some chloritic sections over 5' e.g. 107-112 and siliceous sections, e.g. at 140-143'. Hints of very siliceous contorted beds at 142'. Narrow, 1-2 ft. sections with 3% disseminated pyrite (assayed).	3122	127.0	128.0	1.0	30	188		
			3123	130.0	131.8	1.8	33	217		
145	158	Light grey siliceous lapilli tuff with pink, hematitic stringers throughout. This unit may be carbonate-rich locally. Seems to grade into a distinctive tuff. This lapilli tuff occurs at 138-165' in SG 81-2.								
158	200	Very fine grained yellow grey pyritic tuff, bedding present but is not distinct until about 175', where the tuff is thin-bedded to laminated. Disseminated and lensey pyrite conspicuous to about 195'. From 158-172', 3-5% disseminated pyrite. <u>Same</u> unit occurs at 75-138' in SG 81-2.	3124	160.2	165.2	5.0	33	217		
200	338	From 200 - light green thin bedded-laminated tuff, siliceous-sericitic layers alternate with chloritic ones. Siliceous section 239.5-242.5 contains conspicuous chalcopyrite. Matches rock in SG 81-1 between 154-355 (check?) Chalcopyrite beds and stringers from 326-333', 1 band 1" wide, also, disseminations, blebs and fine stringers.	3125	240.3	242.7	2.4	16	111		
			3126	316.3	321.5	5.2	118	230		
			3127	325.8	327.7	1.9				
			3304							
			3128	327.7	332.7	5.0	2560	9800	22700	4

PROPERTY Seagull Sturgeon Lake CLAIM _____
 LATITUDE _____ STARTED _____
 DEPARTURE _____ FINISHED _____
 ELEVATION _____ TOTAL LENGTH _____

DEPTH	DIP	AZI	DEPTH	DIP	AZI

HOLE NO. SG 81-3
 LOGGED BY _____
 CORE SIZE _____
 SECTION 114 E
 LEVEL _____
 Page 2 of 2

CORE FOOTAGE		DESCRIPTION	Sample No.	from	to	Length	Cu ppm	Zn ppm	Ag ppb	Au ppt
from	to									
338	575	More massive grey tuff, lapilli-tuff with indistinct bedding and patchy siliceous nature, as towards bottom of other 2 (previous) holes. Local well-bedded horizons throughout. After 575' massive lapilli-tuff (good FwBx). Local blebs and stringers of chalcopyrite, perhaps some honey sphalerite in one 0.5' section (to be assayed)	3305	332.7	337.0	4.3				
			3129	387.0	390.5	3.5	410	191		
			3130	408.4	410.1	1.7	810	520		
			3131	524.3	526.2	1.9	8700	1370	1800	42
575	end of hole	Log incomplete: essentially the same as SG 81-2 637-847.5". Richmond	3132	534.9	535.6	0.7	3100	1760	6030	74
			3133	539.8	540.7	0.9	400	1380	4930	2

PROPERTY Seagull Sturgeon Lake CLAIM _____

ALTITUDE _____ STARTED _____

DEPARTURE _____ FINISHED _____

ELEVATION _____ TOTAL LENGTH _____

DEPTH	DIP	AZI.

DEPTH	DIP	AZI.

D.D.Co. _____

HOLE NO. SG 81-11

LOGGED BY _____

CORE SIZE _____

SECTION 120E

LEVEL _____

Page 3 of 4

CORE FOOTAGE		DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH			
FROM	TO								
320	328	Andesite flow? Dark green highly chloritic, many irregular wisps of carbonate that may be deformed amygdales. Foliation moderate about 50°-60°. Very minor disseminated pyrite & magnetite.							
328	355	Gabbro sill or massive andesite flow. Weakly foliated, more equigranular texture with grain size about 0.5mm. Little or no noticeable structure. A few carbonate and quartz carbonate veins, at odd angles to core axis, but general sub-parallel to foliation. At 337 a patch of fine grained epidote containing chloritized crystals of amphibole? Rock contains little magnetite or pyrite.							
355	360	Andesite flow? - same as 320-328 - both these units may be sheared contacts of gabbro sill.							
360	445	Intermediate tuffs, possibly some small flows. Generally distinctly bedded, may be some argillic sediments and greywacke. Probably all of volcanic origin. Inter-fingers to some extent with lower unit. Foliation quite strong at 45° to c.a., with locally some jointing at about 50° to core axis, facing the other way (i.e. rotated about core axis about 140°). Some hematite staining.							
445	500	"Poker chip" siliceous and sericitic to moderately chloritic quartz-eye bedded tuff. Chloritic sections a little more competent, all intensely foliated, with kink banding common, hematite stain common throughout sub-parallel to core axis. Traces of fine grained disseminated pyrite, quartz eyes small and scarce in chloritic zones, larger and abundant in sil-sericitic. Foliation intense at about 50° - lower contact arbitrary							

PROPERTY Seagull Sturgeon Lake CLAIM _____

ALTITUDE _____ STARTED _____

DEPARTURE _____ FINISHED _____

ELEVATION _____ TOTAL LENGTH _____

DEPTH	DIP	AZI.

D.D.Co. _____

DEPTH	DIP	AZI.

HOLE NO. SG 81-13

LOGGED BY _____

CORE SIZE _____

SECTION 115 E

LEVEL _____

Page 5 of 6

CORE FOOTAGE		DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH			
FROM	TO								
678.5	680.5	Intrusion as in 668-672 - probably a sill. Chilled contacts, some possible bleaching of wall rock. Intrusion contains very minor disseminated pyrite. Contacts very irregular (fracture).							
680.5	698.0	Chloritic massive to vague lapilli tuff. Much as 672-678.5. Foliation-controlled: qz-carb veins are about 40° to c.a.							
698.0	703.0	Fine grained amygdaloidal (in places) mafic flows. Very fine grained highly chloritic rock, a few possible amygdaloids of carbonate. A few blebs and grains of chalcopryrite and pyrite especially in contacts. Contacts within this zone appear to run at 35°-45° to c.a. while foliation is weak at 60°. Relationship would indicate an easterly plunge of ~15°.							
703.0	709.0	Chloritic fragmental. Foliation weak about 50°?							
709.0	718.8	Pale green fine grained, slightly porphyritic dike. Would appear to be at least as acid as andesite. Dacite? Upper contact (w.r.t.hole) is chilled, with 1" bleached wall rock, lower contact obscured by qz-carbonate vein along it. Contacts are both about 35° to c.a. Foliation within dike is weak at about 60°-65°. There appears to be another fabric at about 35° marked by pale bands, possibly old joints? Suite specimen is characteristic (714.9-715.9).							
718.8	743.0	Chloritic vague fragmental massive - no distinct lapilli - appears to be made up of mostly chlorite and carbonate. Not too dissimilar to fragmentals above. Foliation is weak at 50°-60°. No significant sulfides.							

PROPERTY Seagull Sturgeon Lake CLAIM
 LATITUDE 16 + 50N STARTED Mar 31, 1981
 DEPARTURE 119E FINISHED Apr 4, 1981
 ELEVATION TOTAL LENGTH 847

DEPTH	DIP	AZI.
collar	80	180
97	77	
200	74	
300	70	
407	66	

DEPTH	DIP	AZI.
507	61	
600	59	
700	55	

HOLE NO. SC 81-14
 LOGGED BY G. Richmond
 CORE SIZE BO
 SECTION 119E
 LEVEL

D.D.Co.

Page 1 of 5

CORE FOOTAGE		DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH			
FROM	TO								
0	37	Casing in overburden							
37	52	Moderately siliceous grey lapilli tuff. Foliation fairly weak & varies 35°-45° to core axis. A few small quartz & qz-carb veins, one of which, at 46' has a small stringer of chalcopyrite. There are also some large blebs of pyrite, which appears to fragments. Lower contact not distinct.							
52	75	Vague lapilli to indistinctly bedded cherty tuff. Mottled appearance varies from green to grey to yellowish white, some iron staining. Foliation continues to be fairly weak at 40°. Still a few quartz carbonate veins; should be fairly siliceous. Both contacts of this unit are rather arbitrary based on lapilli and colour.							
75	92	Grey lapill tuff. Pale lapilli in a grey matrix. Foliation weak to moderate at about 45° to c.a. Trace disseminated pyrite, and a few grey cherty layers- ?exhalites?							
92	106	Bedded to massive tuff. Upper contact quite sharp, lower also. Fine grained, grey, bedding distinct to vague, a few zones possible lapilli. Bedding and foliation essentially = at 45°.							

PROPERTY Seagull Sturgeon Lake CLAIM _____

ALTITUDE _____ STARTED _____

DEPARTURE _____ FINISHED _____

ELEVATION _____ TOTAL LENGTH _____

DEPTH	DIP	AZI.

DEPTH	DIP	AZI.

HOLE NO. SG 81 -14

LOGGED BY _____

CORE SIZE _____

SECTION 119 E

LEVEL _____

Page 4 of 5

D.D.Co. _____

CORE FOOTAGE		DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
FROM	TO									
	487	Pale coloured lapilli become fairly distinct locally below 400', and there are a few stringers? of chlorite with associated sulfides but on the whole sulfides are next to nil. At 461 there is a highly contorted qz-carb chlorite vein with minor pyrite & chalcopryrite. The quartz is exceptionally glassy and transparent. The lower contact of this unit is gradational & arbitrary.								
487	542	Chloritoid Zone. The same rock essentially as above, but with conspicuous to abundant chloritoid, giving a definitely speckled appearance. There appears to be no preferred orientation, as is the case with wisps of chlorite. A few lapilli visible in lower part of section. Lower contact fairly sharp.								
542	560	Sudden absence of chloritoid. Grey massive - structureless tuff as in 363.4-487. Still quite highly siliceous. Weakly foliated at about 50°. Lower contact fairly sharp (over about 1').								
560	580	Chloritoid bearing lapilli tuff as in 487-542, lower contact indistinct and gradational.								
580	666.1	Grey massive tuff, the only structures commonly seen being quartz carbonate veins along foliation, and occasional clusters & stringers of chloritoid grains. Chloritoid much reduced from previous section, but visible because of bland backgrounds. A zone from 554-558.8 appears to be lapilli tuff, and has some blebs and minute stringers of chalcopryrite 558.3 - 559.5 is massive, very fine grained rhyolite - may be a dike or sill, as contacts appear slightly chilled.	3316	554.4	558.5					

DDH Section 112E

SG 01-1
-65° at collar, brg. 180, lat. 18+50N

NEWINSO
N77-3 collar proj. 50'E.
onto section. -55° at collar, brg. 160, lat. 13+5N

24+00N
20+00N
16+00N

N
S

LEGEND

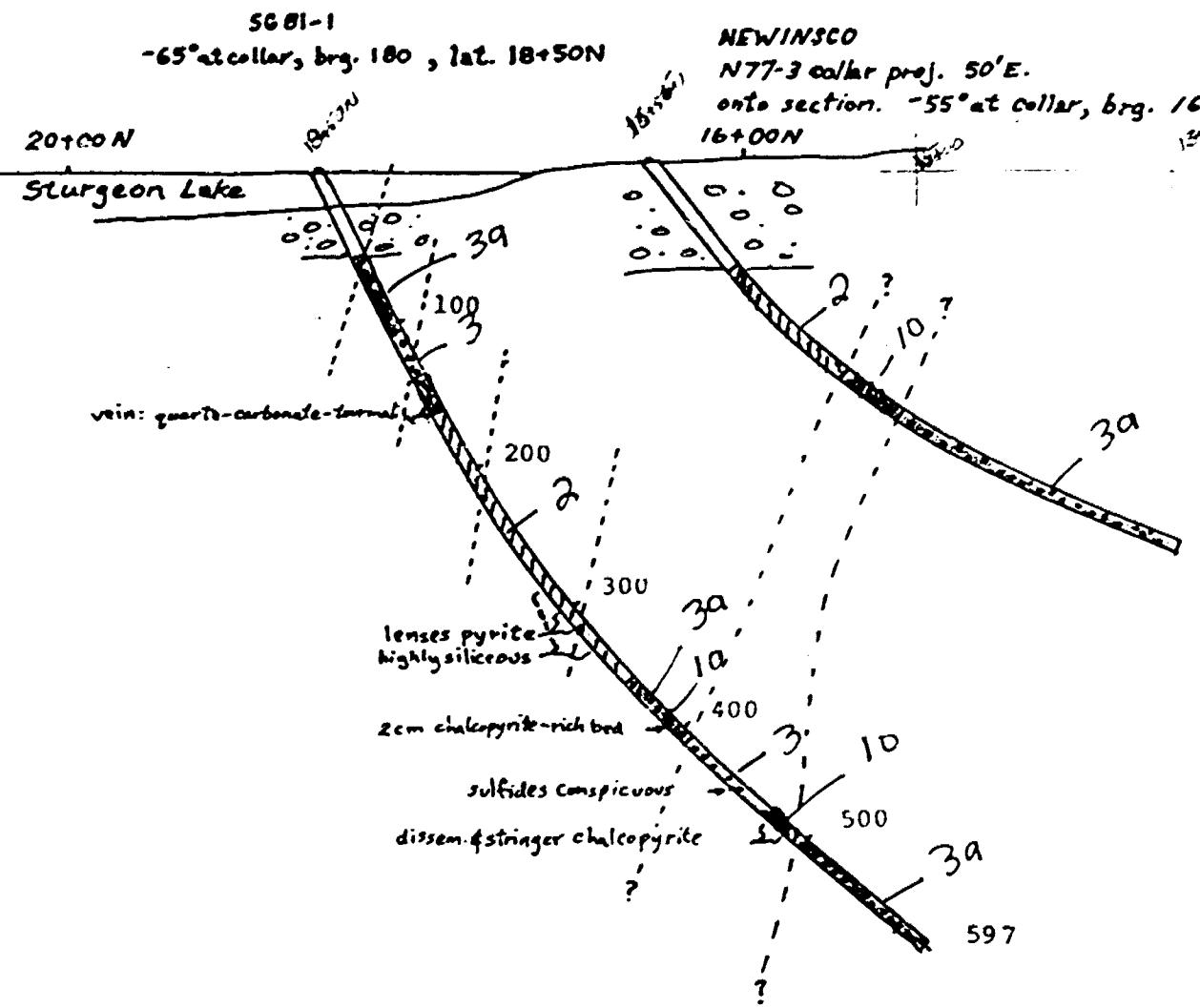
Tuffs
Acidic Intermediate

- 1 Massive 1a
- 2 Bedded 2a
- 3 Lapilli 3a
- 4 Crystal-Rich 4a
- 5 Intermediate flows
- 6 Felsic intrusive
- 7 Intermediate intrusive
- 8 Granitic intrusive
- 9 Basic intrusive
- 10 Mineralized section

Trace of foliation, or other structure if so marked.

Horizontal and vertical scale:
1" = 100' (1:1200)

scale
100'



N

24+00N

20+00N

SB 81-3
65° at collar, brg. 180

18+50N

NEWINSO N77-4 projected
30' W. onto section (at collar) brg. = 160

16+00N















DDH Section 114E

Surgeon Lake

LEGEND

Tuffs

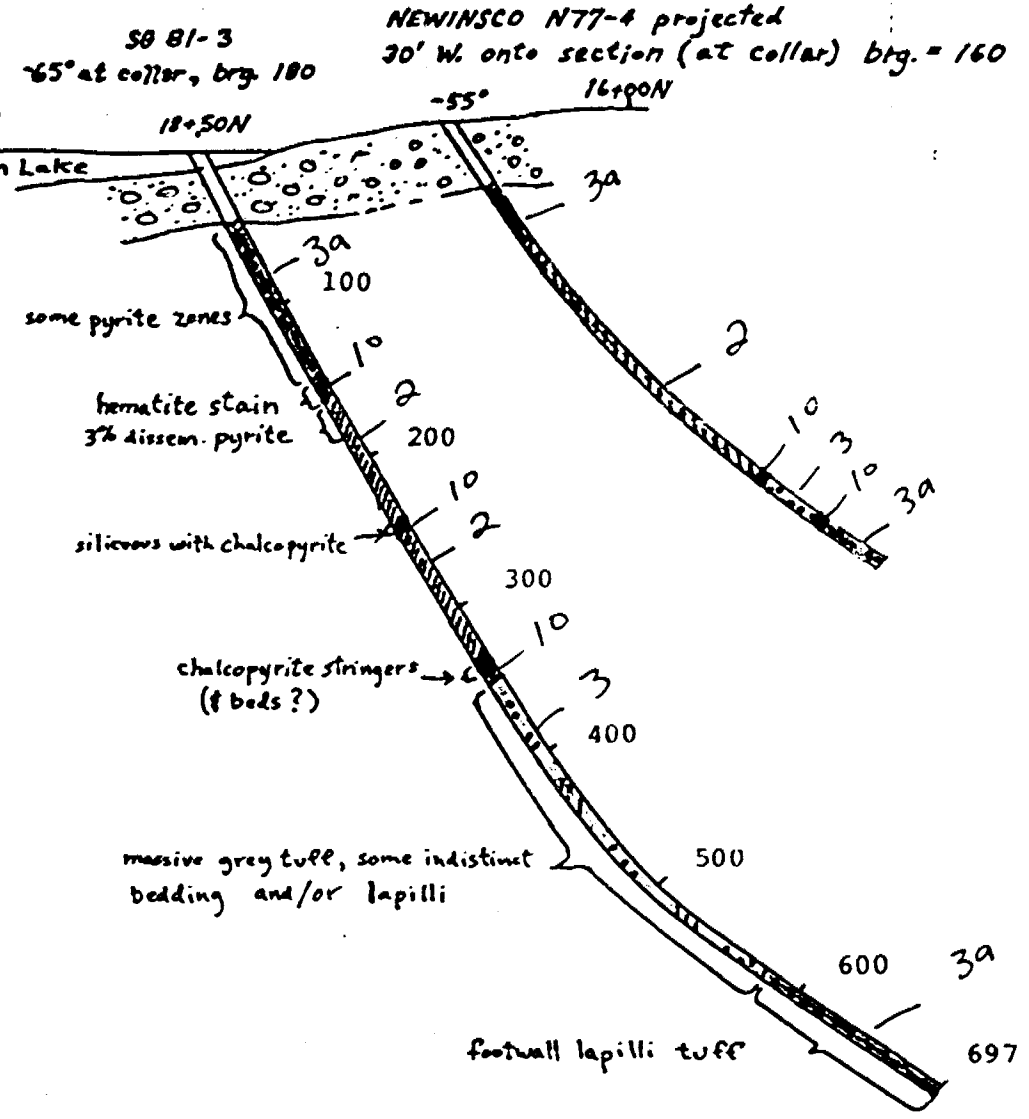
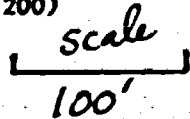
Acidic Intermediate

- 1  Massive  1a
- 2  Bedded  2a
- 3  Lapilli  3a
- 4  Crystal-Rich  4a
- 5  Intermediate flows
- 6  Felsic intrusive
- 7  Intermediate intrusive
- 8  Granitic intrusive
- 9  Basic intrusive
- 10  Mineralized section

Trace of foliation, or other structure if so marked.

Horizontal and vertical scale:

1" = 100' (1:1200)



DDH Section 116E

N

S

SG 81-8 -55° at collar, brg. 180
 SG 81-4 -55° at collar, brg. 180
 SG 81-2 -55° at collar, brg. 180

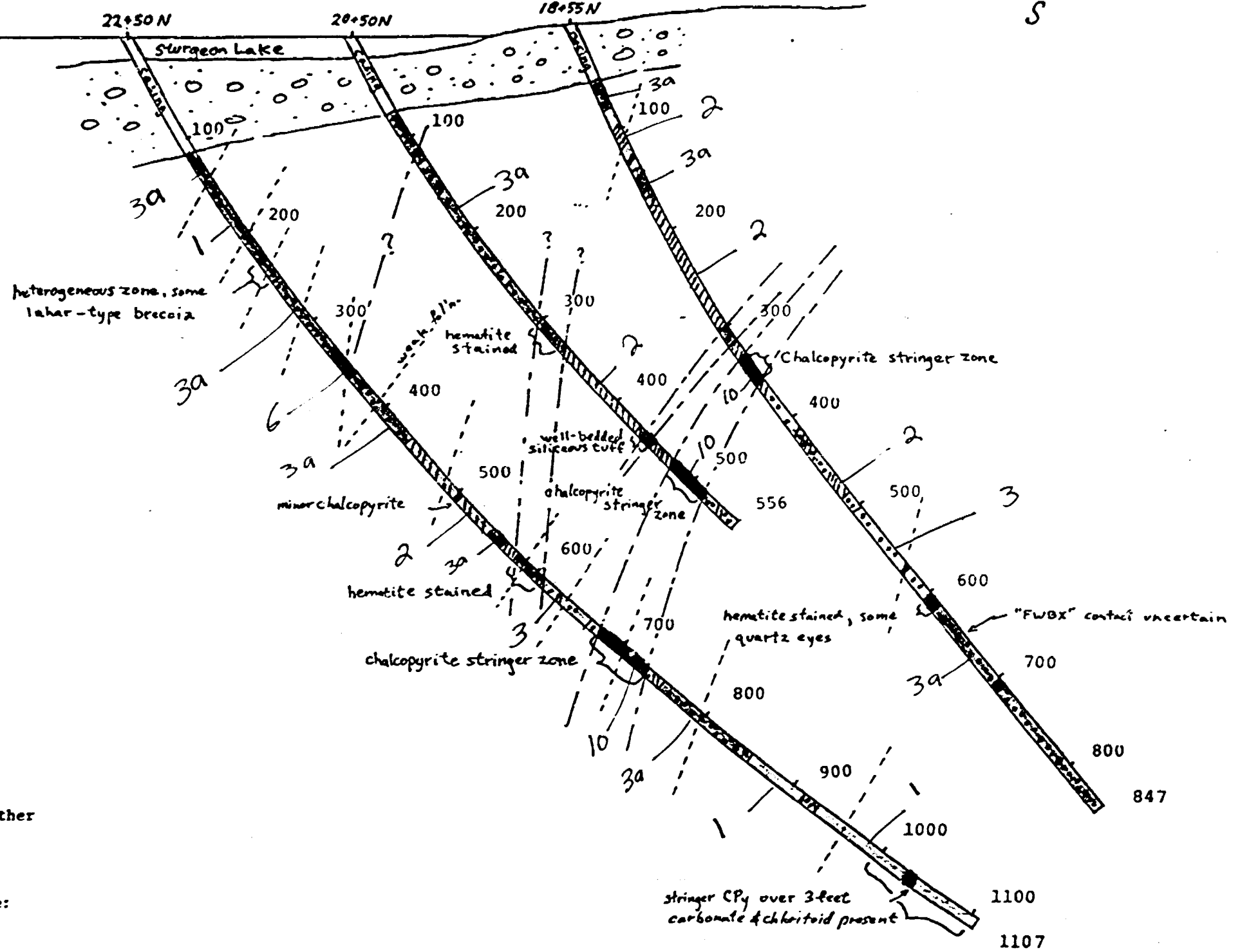
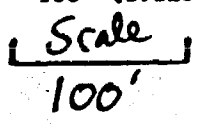
22+50 N 20+50 N 18+55 N

- LEGEND**
- Tuffs**
- | | |
|-----------------------------------|--------------|
| Acidic | Intermediate |
| 1 [Symbol] Massive | 19 [Symbol] |
| 2 [Symbol] Bedded | 2a [Symbol] |
| 3 [Symbol] Lapilli | 3a [Symbol] |
| 4 [Symbol] Crystal-Rich | 4a [Symbol] |
| 5 [Symbol] Intermediate flows | |
| 6 [Symbol] Felsic intrusive | |
| 7 [Symbol] Intermediate intrusive | |
| 8 [Symbol] Granitic intrusive | |
| 9 [Symbol] Basic intrusive | |
| 10 [Symbol] Mineralized section | |

Trace of foliation, or other structure if so marked.

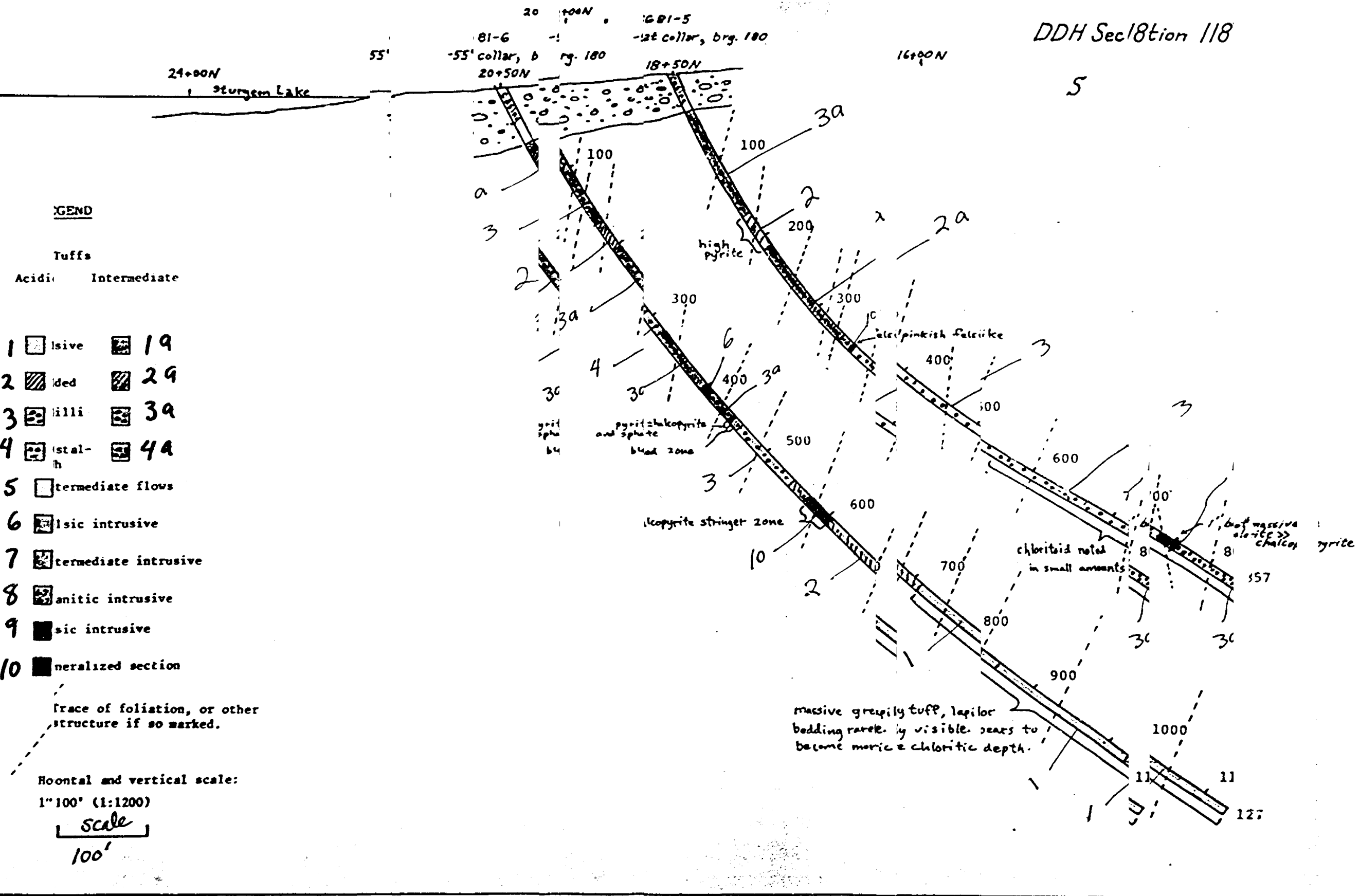
Horizontal and vertical scale:

1" = 100' (1:1200)



DDH Section 118

N



LEGEND

- Tuffs**
- Acidic Intermediate
- 1 [Symbol] lsive [Symbol] 1a
 - 2 [Symbol] ded [Symbol] 2a
 - 3 [Symbol] illi [Symbol] 3a
 - 4 [Symbol] stal- [Symbol] 4a
 - 5 [Symbol] [Symbol] intermediate flows
 - 6 [Symbol] [Symbol] lsic intrusive
 - 7 [Symbol] [Symbol] intermediate intrusive
 - 8 [Symbol] [Symbol] anitic intrusive
 - 9 [Symbol] [Symbol] sic intrusive
 - 10 [Symbol] [Symbol] neralized section

Trace of foliation, or other structure if so marked.

Horizontal and vertical scale:

1" = 100' (1:1200)

scale

100'

DDH Section 128 E

SG 01-7
 "65° at collar, brg. 180 22+50N

LEGEND

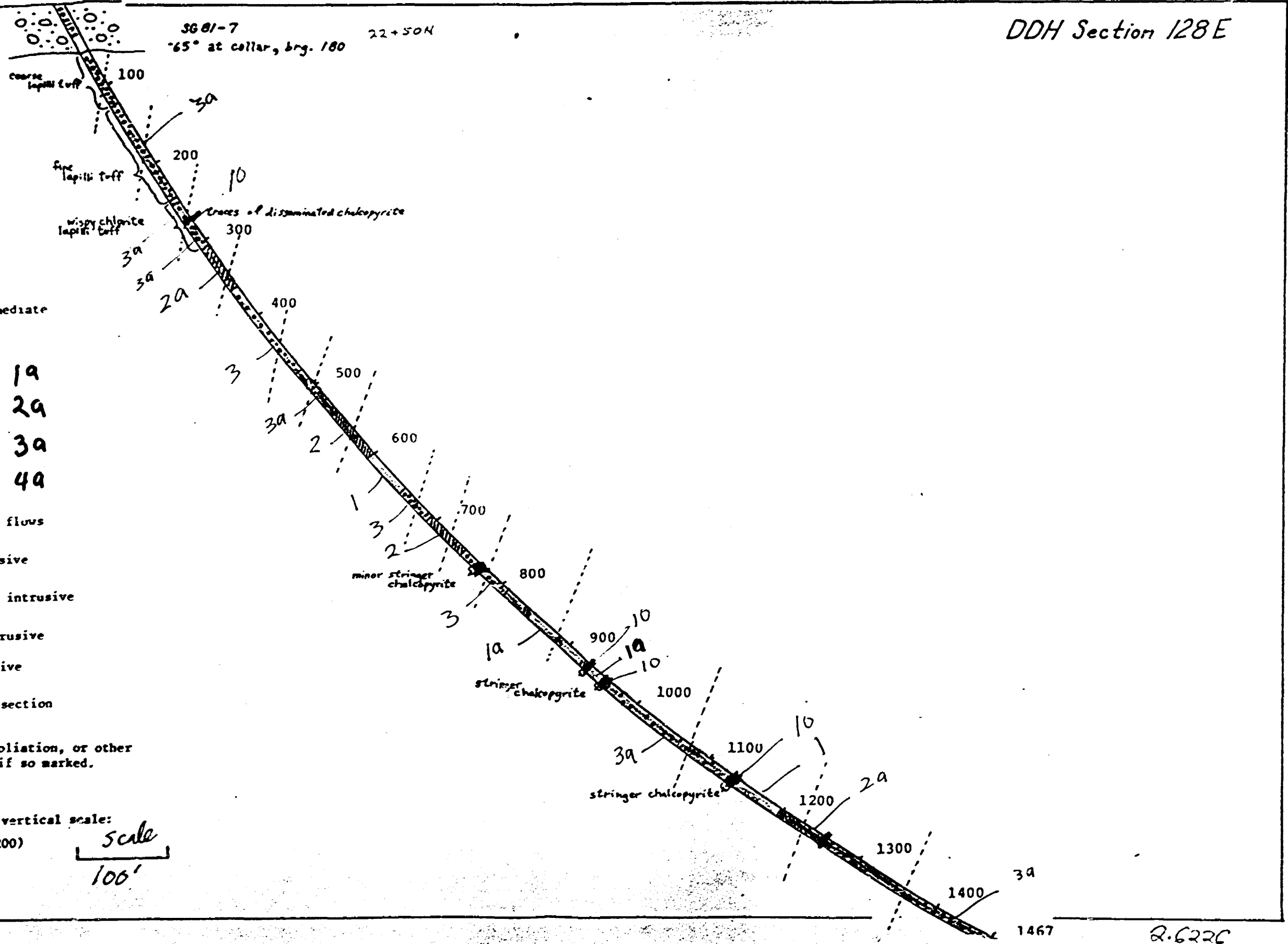
Tuffs
 Acidic Intermediate

- 1 Massive 1a
- 2 Bedded 2a
- 3 Lapilli 3a
- 4 Crystal-Rich 4a
- 5 Intermediate flows
- 6 Felsic intrusive
- 7 Intermediate intrusive
- 8 Granitic intrusive
- 9 Basic intrusive
- 10 Mineralized section

Trace of foliation, or other structure if so marked.

Horizontal and vertical scale:

1" = 100' (1:1200)



2.622C

N

4+005

SB 81-9
8+005
-65° at collar, bry. 180, lat. 6+005

12+005

S

Sturgeon Lake

Lake bottom

LEGEND

Tuffs

Acidic Intermediate

- | | | |
|----|------------------------|----|
| 1 | Massive | 19 |
| 2 | Bedded | 29 |
| 3 | Lapilli | 39 |
| 4 | Crystal-Rich | 49 |
| 5 | Intermediate flows | |
| 6 | Felsic intrusive | |
| 7 | Intermediate intrusive | |
| 8 | Granitic intrusive | |
| 9 | Basic intrusive | |
| 10 | Mineralized section | |

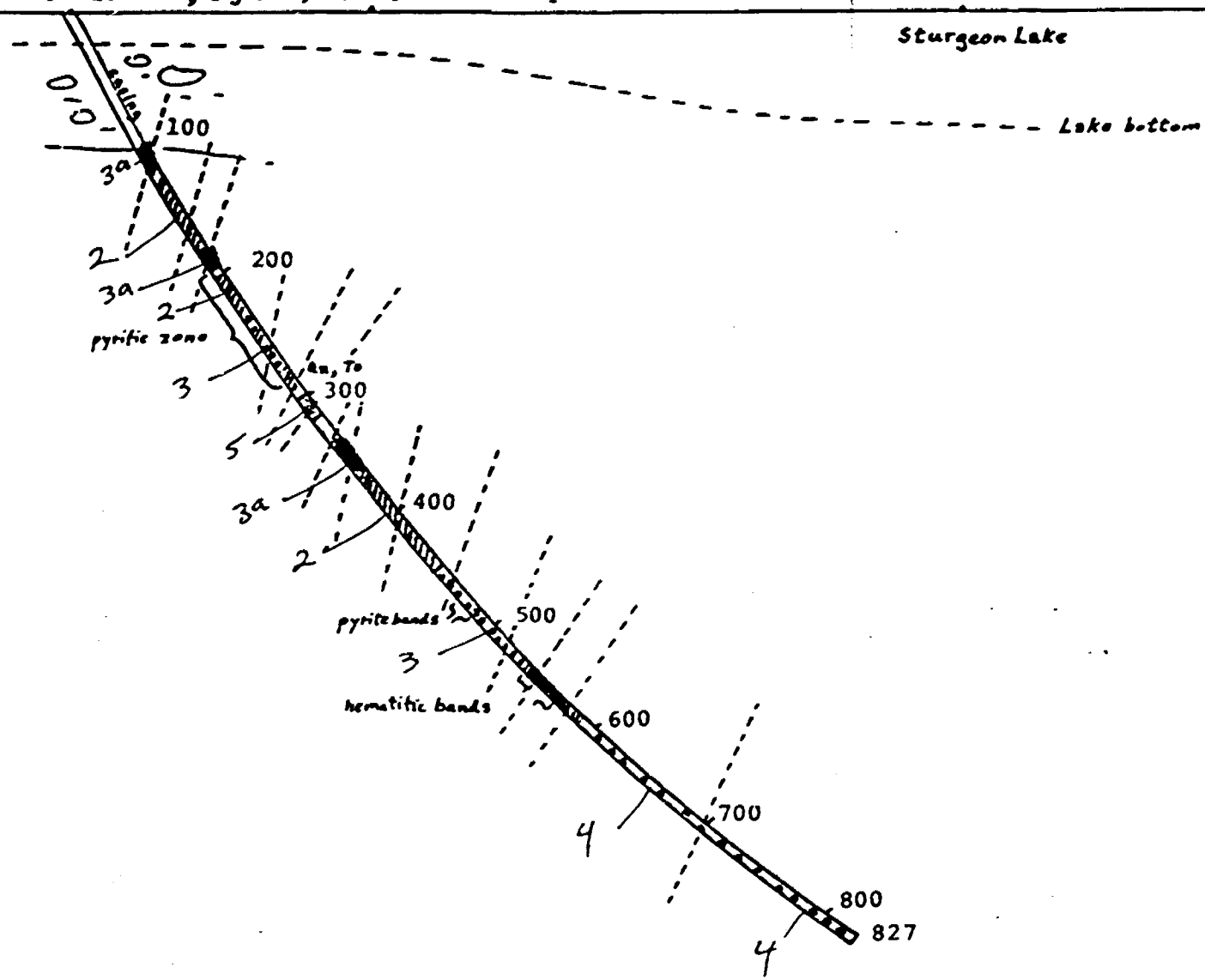
Trace of foliation, or other structure if so marked.

Horizontal and vertical scale:

1" = 100' (1:1200)

Scale

100'



DDH Section 40E

N

4+00S

SG 01-11
-65° at collar, bry. 180, lat. 7+00 S
8+00S

12+00S

S

Sturgeon Lake

bottom

100

bedrock

2a

200

8

hematite stain

2a

300

8

400

500

Amphibolite int. - acid flows

quartz-eye tuff

Heterogeneous zone

600

3

2a

2

3

700

hematite stain

vague bedded to vague lapilli

800

3

quartz-eye tuff

835

LEGEND

Tuffs

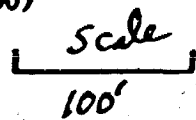
Acidic

Intermediate

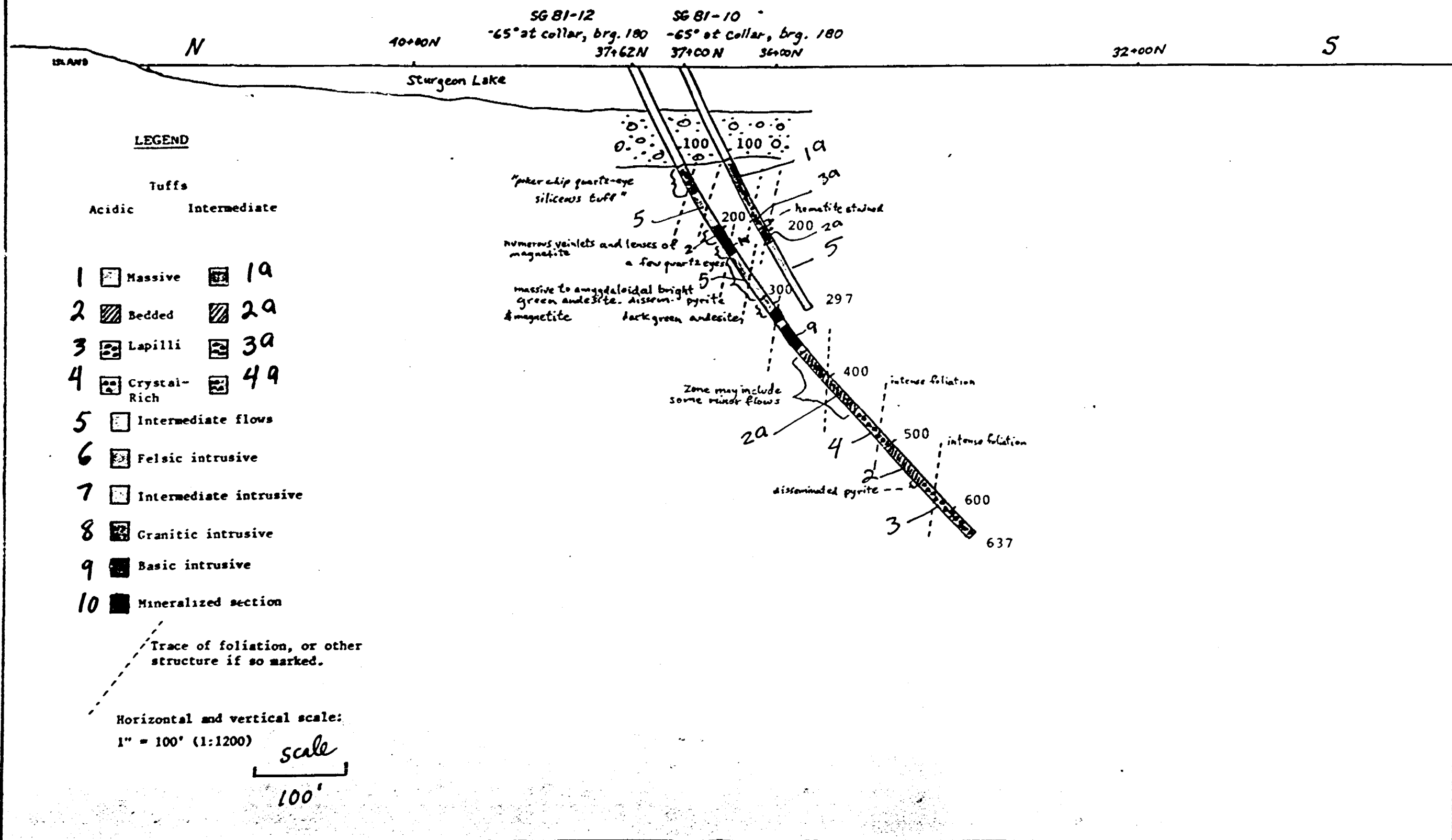
- | | | |
|----|------------------------|----|
| 1 | Massive | 1a |
| 2 | Bedded | 2a |
| 3 | Lapilli | 3a |
| 4 | Crystal-Rich | 4a |
| 5 | Intermediate flows | |
| 6 | Felsic intrusive | |
| 7 | Intermediate intrusive | |
| 8 | Granitic intrusive | |
| 9 | Basic intrusive | |
| 10 | Mineralized section | |

Trace of foliation, or other structure if so marked.

Horizontal and vertical scale:
1" = 100' (1:1200)



DDH Section 120 E



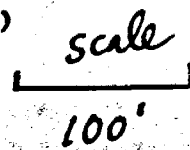
LEGEND

Tuffs
Acidic Intermediate

- 1 Massive 1a
- 2 Bedded 2a
- 3 Lapilli 3a
- 4 Crystal-Rich 4a
- 5 Intermediate flows
- 6 Felsic intrusive
- 7 Intermediate intrusive
- 8 Granitic intrusive
- 9 Basic intrusive
- 10 Mineralized section

Trace of foliation, or other structure if so marked.

Horizontal and vertical scale:
1" = 100' (1:1200)



DDH Section 119E

27°00N

SB01-14
-80° at collar 16+50N brg. 180

12°00N

LEGEND

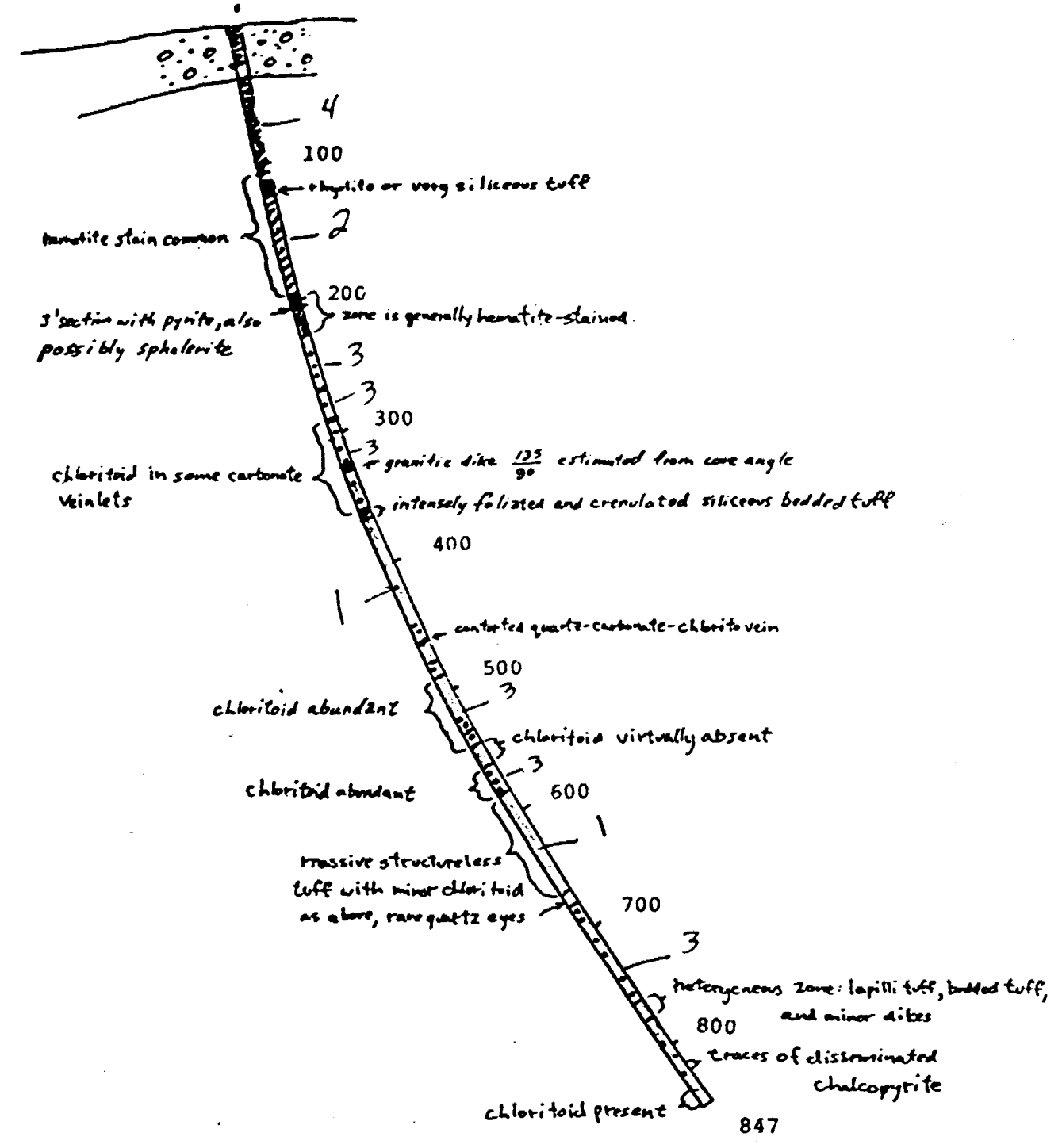
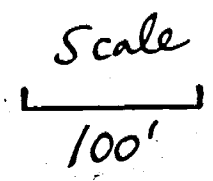
Tuffs

Acidic Intermediate

- 1 Massive 19
- 2 Bedded 29
- 3 Lapilli 39
- 4 Crystal-Rich 49
- 5 Intermediate flows
- 6 Felsic intrusive
- 7 Intermediate intrusive
- 8 Granitic intrusive
- 9 Basic intrusive
- 10 Mineralized section

Trace of foliation, or other structure if so marked.

Horizontal and vertical scale:
1" = 100' (1:1200)

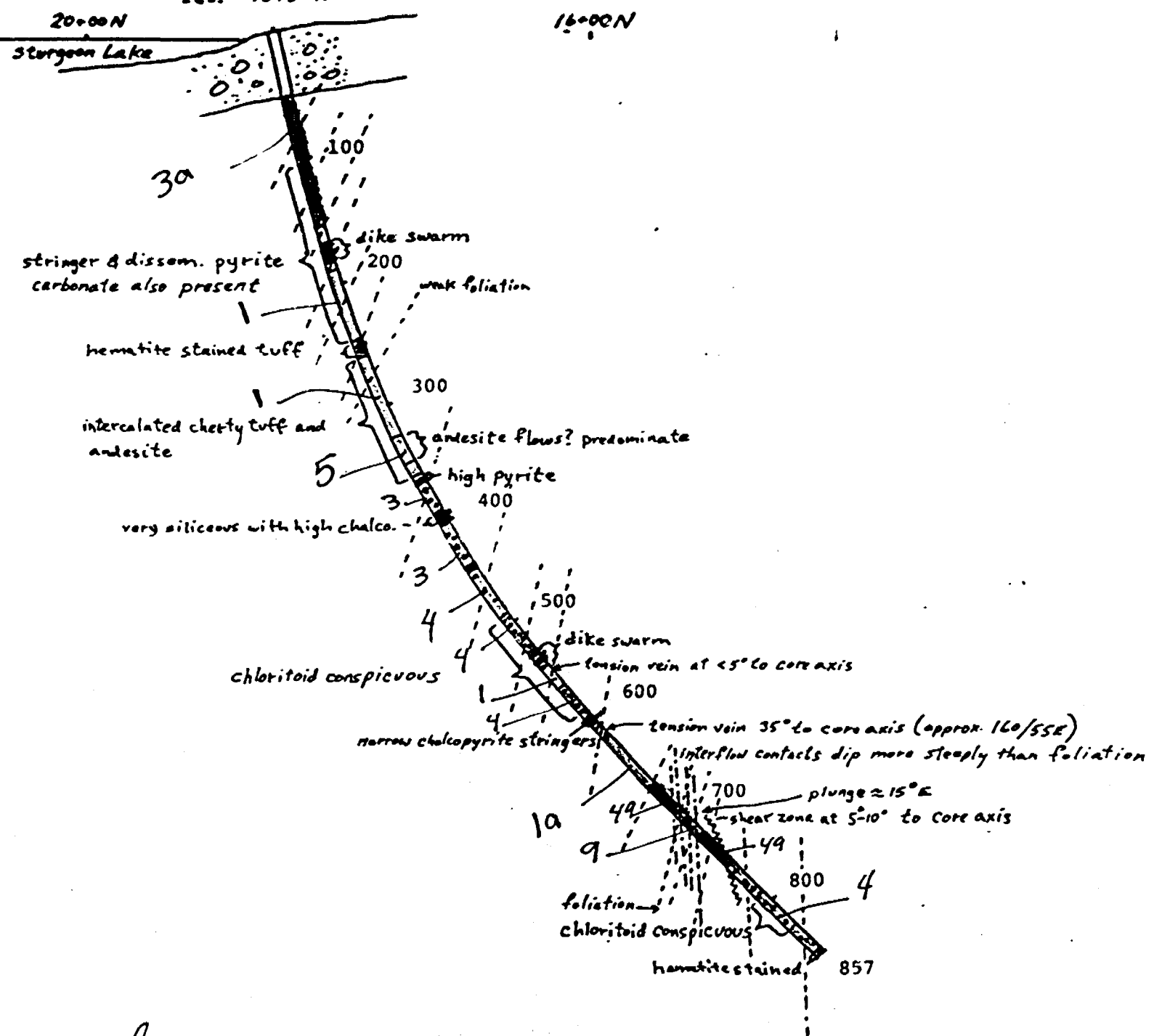


2.6226

DDH Section 115E
S

N

SG 81-19
-80° at collar, brg. 180
242. = 18+50 N

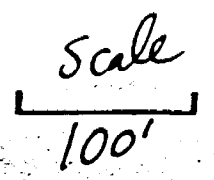


LEGEND

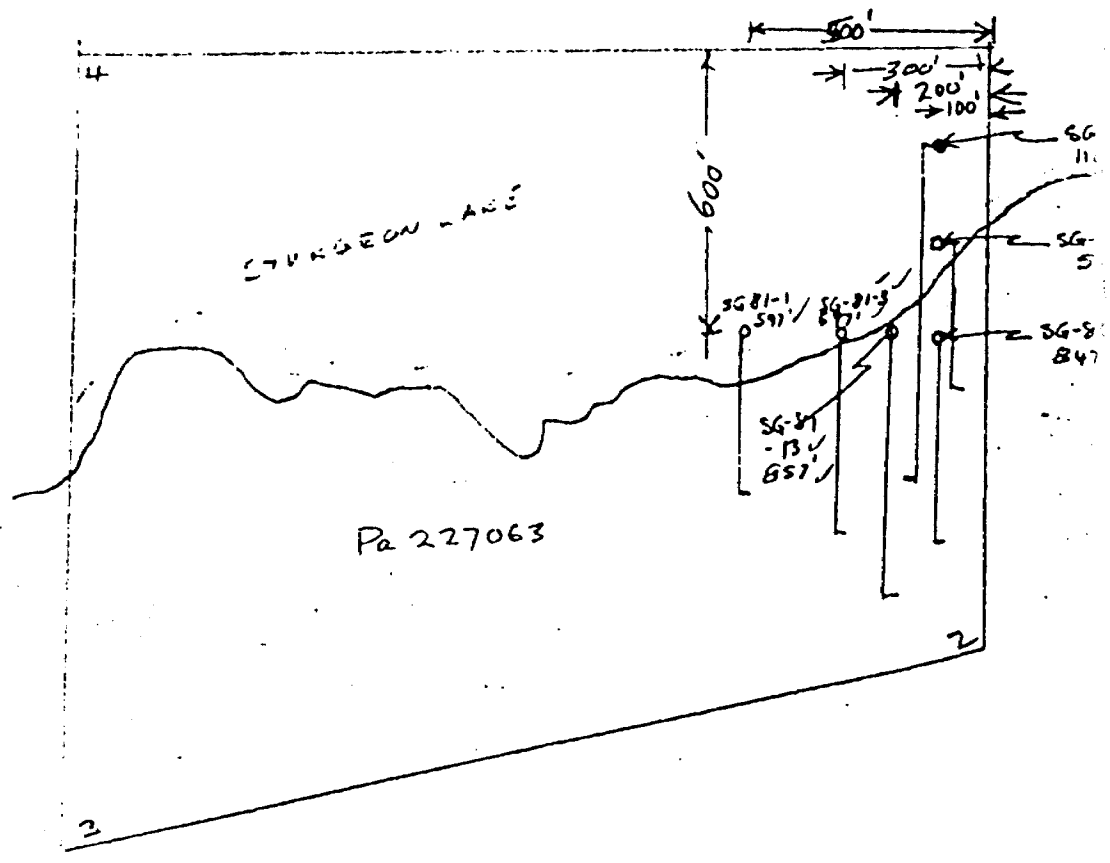
- Tuffs
- | | |
|----------------------------|-------------------|
| Acidic | Intermediate |
| 1 [Massive] | 19 [Massive] |
| 2 [Bedded] | 29 [Bedded] |
| 3 [Lapilli] | 39 [Lapilli] |
| 4 [Crystal-Rich] | 49 [Crystal-Rich] |
| 5 [Intermediate flows] | |
| 6 [Felsic intrusive] | |
| 7 [Intermediate intrusive] | |
| 8 [Granitic intrusive] | |
| 9 [Basic intrusive] | |
| 10 [Mineralized section] | |

Trace of foliation, or other structure if so marked.

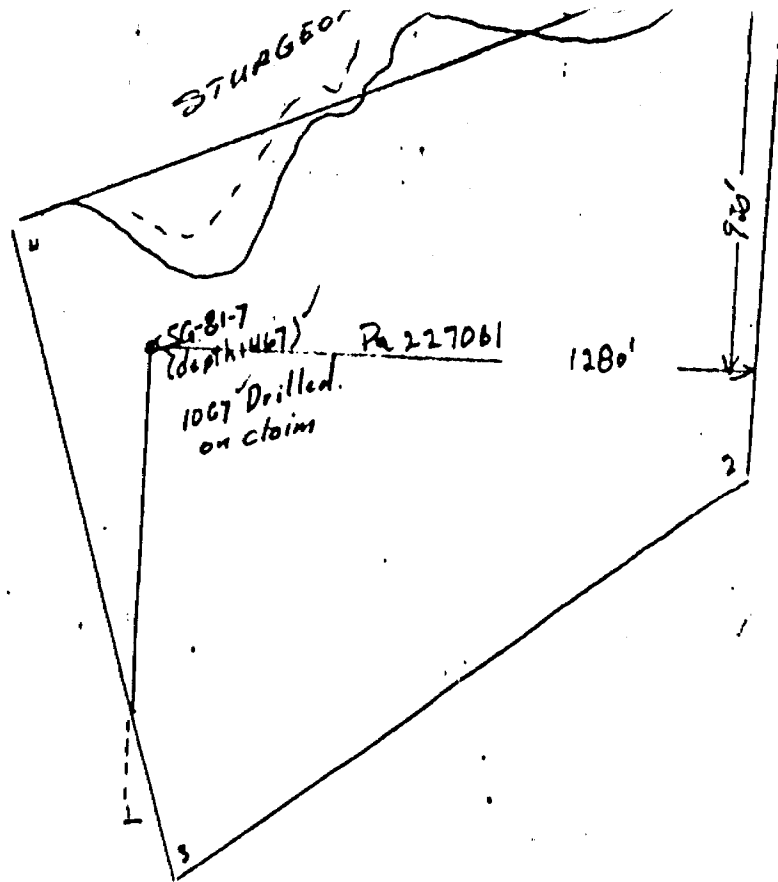
Horizontal and vertical scale:
1" = 100' (1:1200)



52
6/14 SE (100)
2.6226



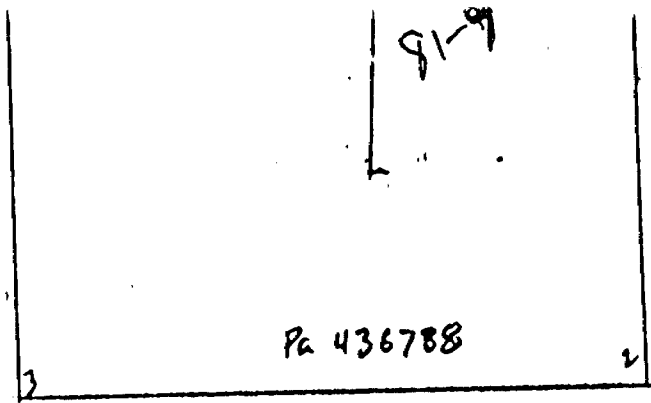
SECRET



Scale
400'

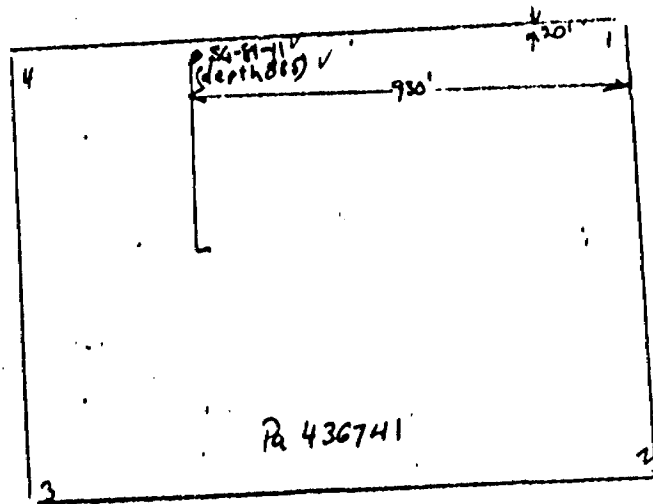
Scale
1" = 400'

7-6-2016

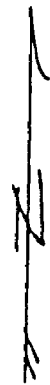
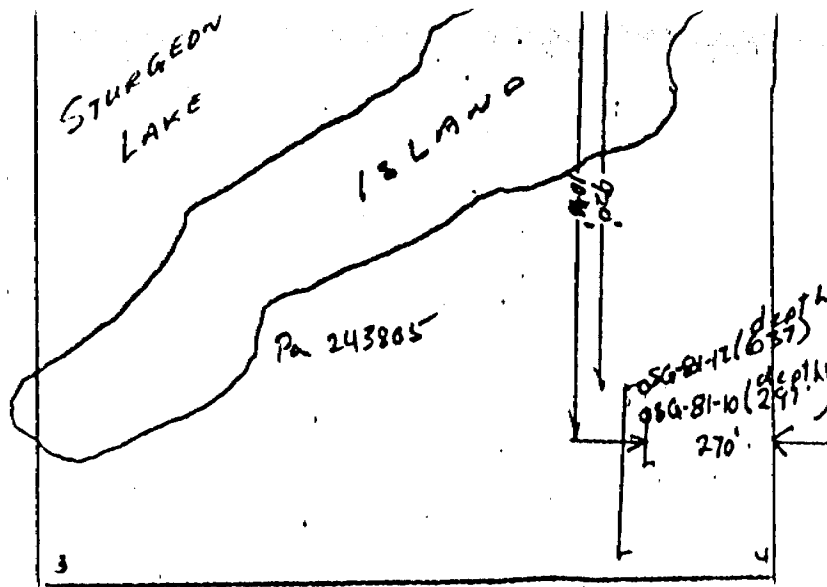


Scale
400'

1" = 400'



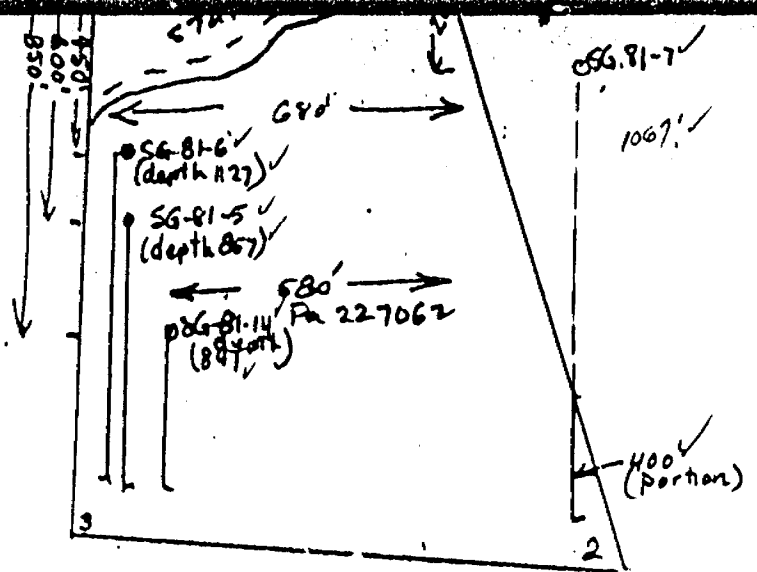
2.6226



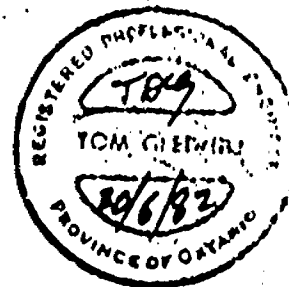
Scale
400'

2.6226

11-11-11



Scale
400'



2.6226

Tom Green 1" = 400'

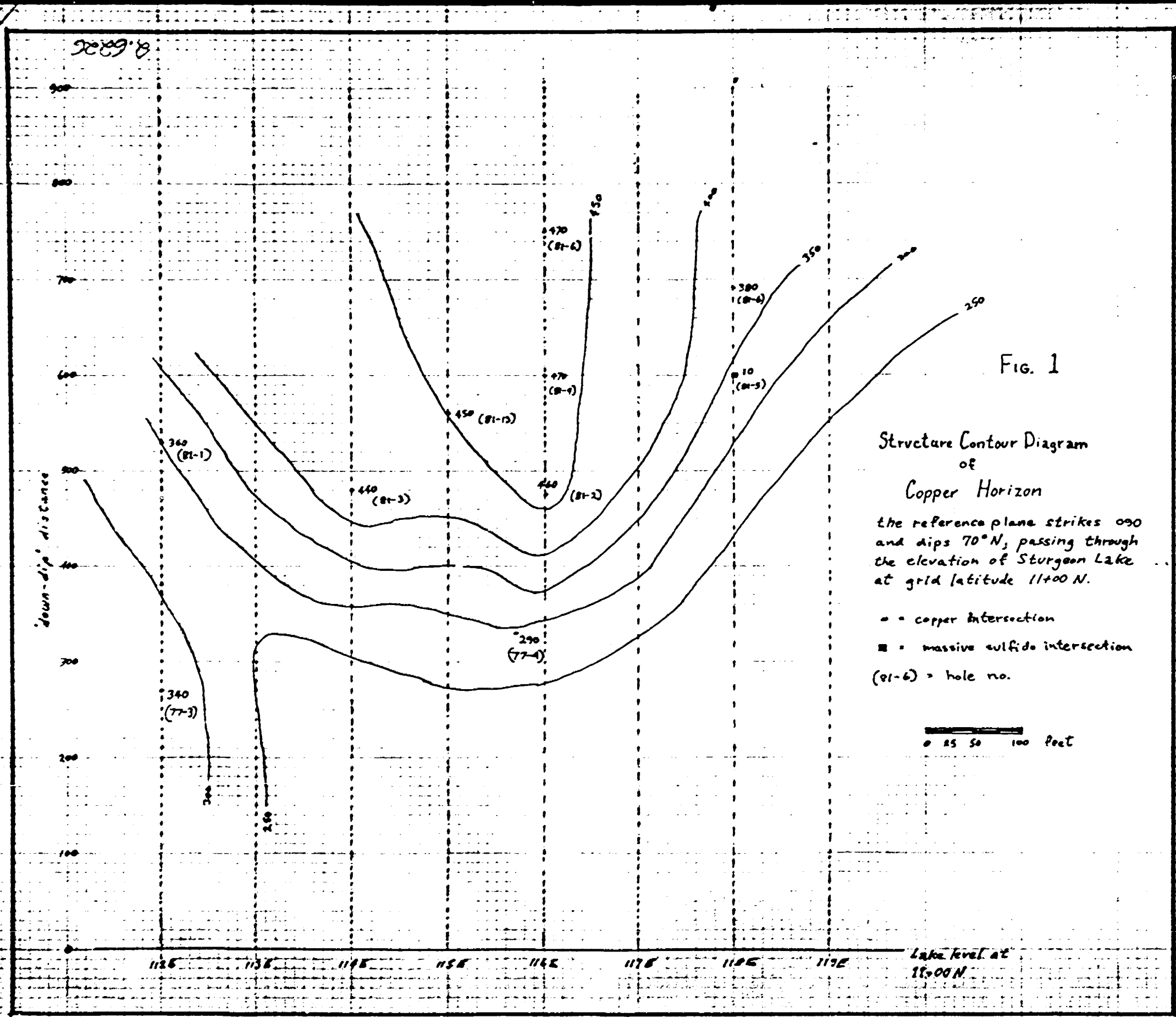


FIG. 1

Structure Contour Diagram
of
Copper Horizon

the reference plane strikes 090
and dips 70° N, passing through
the elevation of Sturgeon Lake
at grid latitude 11+00 N.

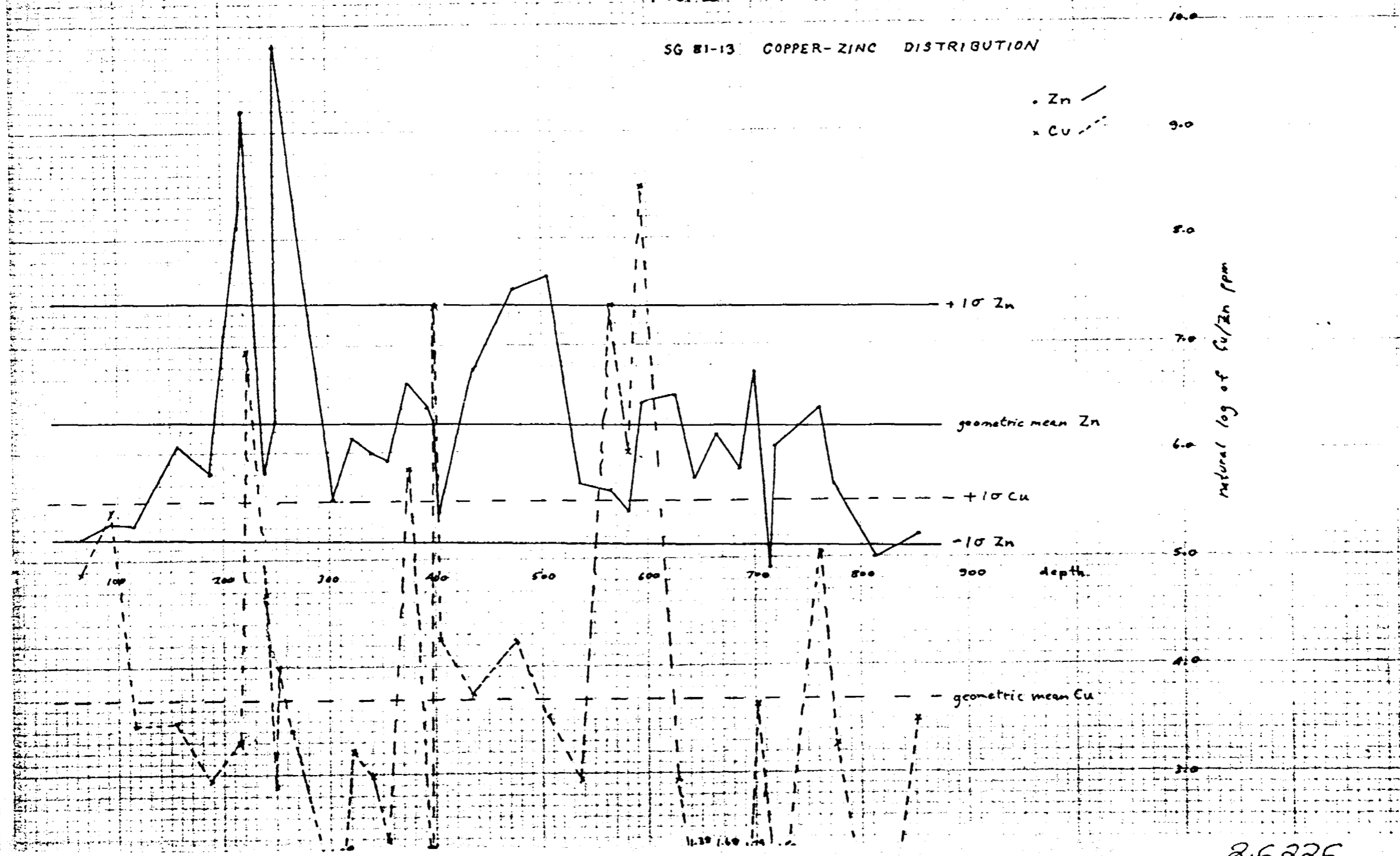
- = copper intersection
- = massive sulfide intersection
- (81-6) = hole no.

0 25 50 100 feet

Lake level at
1100 N

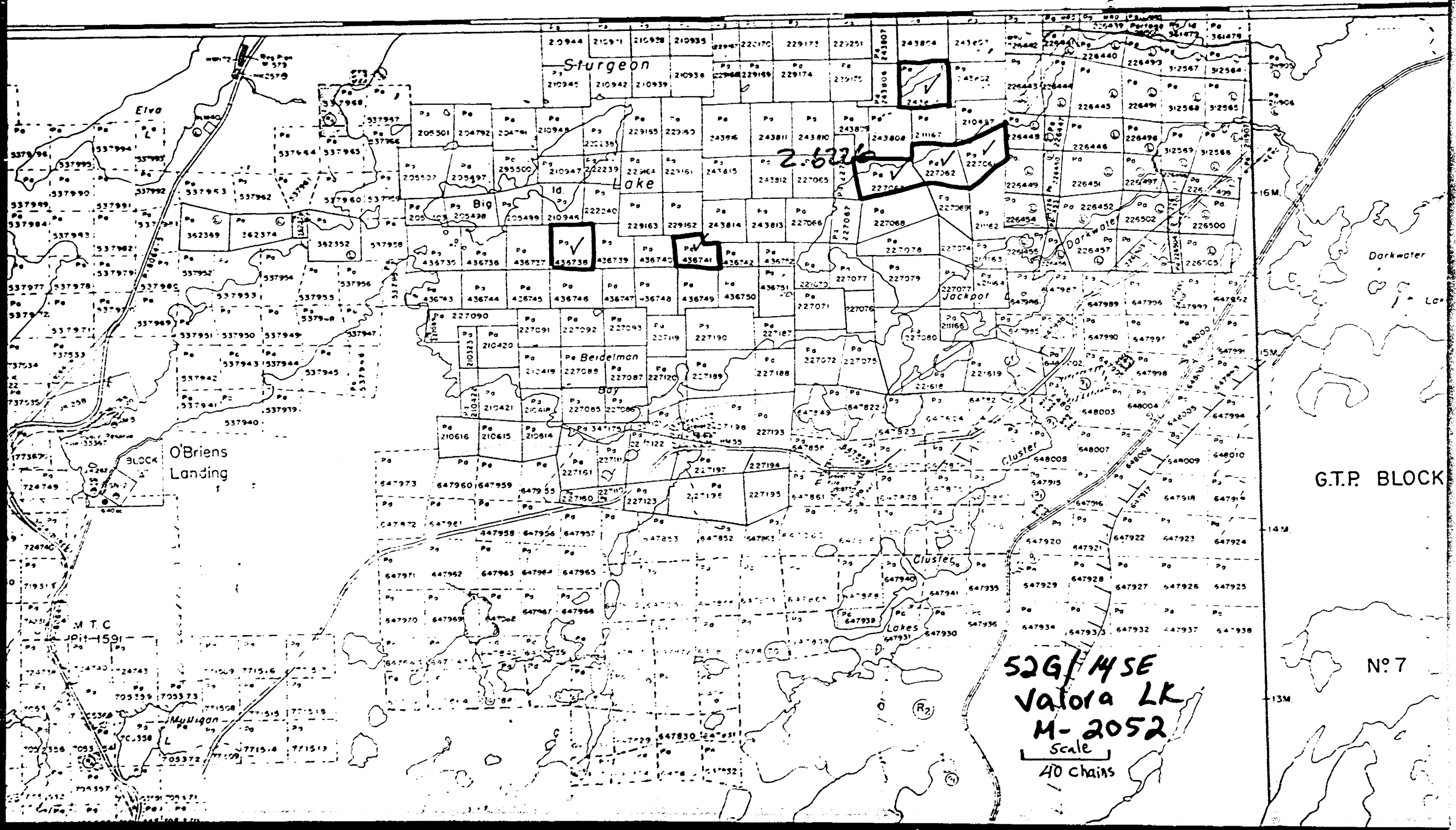
FIG. 2

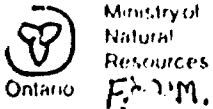
SG 81-13 COPPER-ZINC DISTRIBUTION



2.6226

PENASSI LAKE M.2257





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

Amended March 5 1984
Report delivered to
Jno. J. Whatney
Blenk
The Mining Act 23/12/83

Instructions: Please type or print.
If number of mining claims traversed exceeds space on this form, attach a separate sheet.
Note: Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
Do not use shaded areas below.

Mineral Lands # 84-1

900

Expenditure 2,622.6
D township or Area Valora L. M 2052
Seagull Resources Ltd.
% Gledhill Consultant Inc.
21 Sandalwood Place
Date of Survey (from & to) 1 12 80 to 1 12 83
Day Mo. Yr. Day Mo. Yr. Total Miles of line Cut N/A
Author (of Geo-Technical report) DON MILLS, Ontario M3B1L5



52G14SE9168 2.6226 VALORA LAKE

Type of Survey	Geophysical	Days per Claim	Days	
			1	2
Electromagnetic	Electromagnetic			
	Magnetometer			
	Radiometric			
Other	Other			
	Geological			
Geochemical				

Mining Claims Traversed (List in numerical sequence)			Mining Claims Traversed (List in numerical sequence)		
Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
Pa	436735	7	Pa	544433	7
	436736	7		544434	7
	436737	7		544435	7
	436738	7		544438	7
	436739	7		537939	7
	436740	7		537940	7
	436741	7		537941	7
	436742	7		537942	7
	436743	7		537943	7
	436744	7		537944	7
	436745	7		537945	7
	436746	7		537946	7
	436747	7		537947	7
	436748	7		537948	7
	436749	7		537949	7
	436750	7		537950	7
	436751	7		537951	7
	436752	7		537952	7
	537930	7		537953	7
	537936	7		537954	7
	537937	7		537955	7
	537931	7		537956	7
	537938	7		537957	7

PATRICIA MINING DIV.
RECEIVED
JAN - 3 1984
A.M. 7:0, 9:10, 11:12, 1:2, 3:4, 4:10
P.M. 7:0, 8:10, 11:12, 1:2, 3:4, 4:10

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

Expenditures (excludes power stripping)
Type of Work Performed *Geochemical Sect. 77-19*
Performed on Claim(s) *Pa 227061, 436738, 436741, 243805, 227062, 1 227063*
Calculation of Expenditure Days Credits
Total Expenditures 640 + Total Days Credits 15 = **950**
\$ **9592.72**

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

Date *Dec 15, 1983* Recorded Holder or Agent (Signature) *Tom Gledhill*

Pa. 436735 (623) Total number of mining claims covered by this report of work. *See sheet 2*

For Office Use Only
Total Days Cr. Recorded *640* Date Recorded *Jan. 3, 1984* Mining Recorder *[Signature]*
Date Approved as Recorded *84.4.25* District Director *[Signature]*

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

Name and Postal Address of Person Certifying *Tom Gledhill 21 Sandalwood Place, Don Mills Ont M3B1L5*
Date Certified *Dec 15/83* Certified by (Signature) *Tom Gledhill*



Ministry of Natural Resources

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

Amended #84-1 cont'd

Sheet # 2

Instructions: - Please type or print. - If number of mining claims traversed exceeds space on this form, attach a list. Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." column. - Do not use shaded areas below.

The Mining Act

Form header containing: Type of Survey(s), Township or Area (Valora Lake M-2052), Claim Holder(s) (Seagull Resources Ltd.), Address, Survey Company, Date of Survey (from & to), Total Miles of line Cut, Name and Address of Author (of Geo-Technical report).

Table for 'Credits Requested per Each Claim in Columns at right'. Columns include Special Provisions, Man Days, and Airborne. Rows list Geophysical (Electromagnetic, Magnetometer, Radiometric, Other), Geological, and Geochemical methods.

Table for 'Mining Claims Traversed (List in numerical sequence)'. Columns include Mining Claim Prefix, Mining Claim Number, and Expend. Days Cr. Lists claims 537958 through 537980 with 7 days credit each, plus a total of 538000.

Form for 'Expenditures (excludes power stripping)'. Includes 'Type of Work Performed', 'Performed on Claim(s)' (All page #1), and 'Calculation of Expenditure Days Credits' showing \$9592.72 + 15 = 108.

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

Date: Dec 15, 1983. Recorded Holder or Agent (Signature): Tom Gledhill.

For Office Use Only. Total Days Cr. Recorded: 108. Date Recorded: Dec 15/83. Mining Recorder: [Signature]. Branch Director: [Signature]. Total number of mining claims covered by this report of work: 89.

Certification Verifying Report of Work. I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true. Name and Postal Address of Person Certifying: Tom Gledhill, 21 Soudanwood Place, Don Mills, Ont M3B1L5. Date Certified: Dec 15/83. Certified by (Signature): Tom Gledhill.



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

Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

The Mining Act

Type of Survey(s) <i>Expenditures</i>	Township or Area <i>Valour L. M 2052</i>
Claim Holder(s) <i>Seagull Resources Ltd.</i>	Prospector's Licence No. <i>T-927</i>
Address <i>76 Gladhill Consultant Inc</i>	
Survey Company <i>21 Sandalwood Place</i>	Date of Survey (from & to) Day Mo. Yr. Day Mo. Yr. <i>1 12 80 1 12 83</i>
Name and Address of Author (of Geo-Technical report) <i>DON MILLS, Ontario M3B1L5</i>	
Total Miles of line Cut <i>N/A</i>	

Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim	Mining Claim			Mining Claim			
			Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.	
For first survey: Enter 40 days. (This includes line cutting)	Electromagnetic		<i>Pa</i>	<i>436735</i>	<i>7</i>	<i>Pa</i>	<i>544433</i>	<i>7</i>	
	Magnetometer			<i>436736</i>	<i>7</i>		<i>544434</i>	<i>7</i>	
	Radiometric			<i>436737</i>	<i>7</i>		<i>644435</i>	<i>7</i>	
For each additional survey: using the same grid: Enter 20 days (for each)	Other			<i>436738</i>	<i>7</i>		<i>544438</i>	<i>7</i>	
	Geological			<i>436739</i>	<i>7</i>		<i>537939</i>	<i>7</i>	
	Geochemical			<i>436740</i>	<i>7</i>		<i>537940</i>	<i>7</i>	
Man Days Complete reverse side and enter total(s) here	Electromagnetic			<i>436741</i>	<i>7</i>		<i>537941</i>	<i>7</i>	
	Magnetometer			<i>436742</i>	<i>7</i>		<i>537942</i>	<i>7</i>	
	Radiometric			<i>436743</i>	<i>7</i>		<i>537943</i>	<i>7</i>	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Other			<i>436744</i>	<i>7</i>		<i>537944</i>	<i>7</i>	
	Geological			<i>436745</i>	<i>7</i>		<i>537945</i>	<i>7</i>	
	Geochemical			<i>436746</i>	<i>7</i>		<i>537946</i>	<i>7</i>	
COPIES MEX	Electromagnetic			<i>436747</i>	<i>7</i>		<i>537947</i>	<i>7</i>	
	Magnetometer			<i>436748</i>	<i>7</i>		<i>537948</i>	<i>7</i>	
	Radiometric			<i>436749</i>	<i>7</i>		<i>537949</i>	<i>7</i>	
					<i>436750</i>	<i>7</i>		<i>537950</i>	<i>7</i>
					<i>436751</i>	<i>7</i>		<i>537951</i>	<i>7</i>
					<i>436752</i>	<i>7</i>		<i>537952</i>	<i>7</i>
					<i>537930</i>	<i>7</i>		<i>537953</i>	<i>7</i>
					<i>537936</i>	<i>7</i>		<i>537954</i>	<i>7</i>
					<i>537987</i>	<i>7</i>		<i>537955</i>	<i>7</i>
					<i>537931</i>	<i>7</i>		<i>537956</i>	<i>7</i>
				<i>537938</i>	<i>7</i>		<i>537957</i>	<i>7</i>	

Expenditures (excludes power stripping)

Type of Work Performed <i>Geochemical</i>
Performed on Claim(s) <i>Pa 227061, 436738, 436741, 243805, 227062, 1 227063</i>
Calculation of Expenditure Days Credits Total Expenditures \$ <i>9592.72</i> + 15 = <i>108</i> Total Days Credits

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

Date <i>Dec 15, 1983</i>	Recorded Holder or Agent (Signature) <i>Tom Gladhill</i>
-----------------------------	---

For Office Use Only		Mining Recorder
Total Days Cr. Recorded	Date Recorded	
Date Approved as Recorded		Branch Director

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying
Tom Gladhill 21 Sandalwood Place, Don Mills Ont M3B1L5

Date Certified
Dec 15/83

Certified by (Signature)
Tom Gladhill



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

Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

Sheet # 2

The Mining Act

Type of Survey(s)		Township or Area <i>Victoria Lake</i>	
Claim Holder(s) <i>Seagull Resources Ltd.</i>		Prospector's Licence No.	
Address			
Survey Company	Date of Survey (from & to)	Total Miles of line Cut	
	Day Mo. Yr. Day Mo. Yr.		
Name and Address of Author (of Geo-Technical report)			

Credits Requested per Each Claim in Columns at right

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
<i>Pa</i>	<i>537958</i>	<i>7</i>		<i>537981</i>	<i>7</i>
	<i>537959</i>	<i>7</i>		<i>537982</i>	<i>7</i>
	<i>537960</i>	<i>7</i>		<i>537983</i>	<i>7</i>
	<i>537961</i>	<i>7</i>		<i>537984</i>	<i>7</i>
	<i>537962</i>	<i>7</i>		<i>537985</i>	<i>7</i>
	<i>537963</i>	<i>7</i>		<i>537986</i>	<i>7</i>
	<i>537964</i>	<i>7</i>		<i>537987</i>	<i>7</i>
	<i>537965</i>	<i>7</i>		<i>537988</i>	<i>7</i>
	<i>537966</i>	<i>7</i>		<i>537989</i>	<i>7</i>
	<i>537967</i>	<i>7</i>		<i>537990</i>	<i>7</i>
	<i>537968</i>	<i>7</i>		<i>537991</i>	<i>7</i>
	<i>537969</i>	<i>7</i>		<i>537992</i>	<i>7</i>
	<i>537970</i>	<i>7</i>		<i>537993</i>	<i>7</i>
	<i>537971</i>	<i>7</i>		<i>537994</i>	<i>7</i>
	<i>537972</i>	<i>7</i>		<i>537995</i>	<i>7</i>
	<i>537973</i>	<i>7</i>		<i>537996</i>	<i>7</i>
	<i>537974</i>	<i>7</i>		<i>537997</i>	<i>7</i>
	<i>537975</i>	<i>7</i>		<i>537998</i>	<i>7</i>
	<i>537976</i>	<i>7</i>		<i>537999</i>	<i>7</i>
	<i>537977</i>	<i>7</i>		<i>538000</i>	<i>7</i>
	<i>537978</i>	<i>7</i>			
	<i>537979</i>	<i>7</i>			
	<i>537980</i>	<i>7</i>			

Expenditures (excludes power stripping)

Type of Work Performed
Performed on Claim(s) <i>All page #1</i>
Calculation of Expenditure Days Credits
Total Expenditures $\$ 9592.72$ + 15 = Total Days Credits 108

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

89

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

For Office Use Only		
Total Days Cr. Recorded	Date Recorded	Mining Recorder
	Date Approved as Recorded	Branch Director

Date <i>Dec 15, 1983</i>	Recorded Holder or Agent (Signature) <i>Tom Gladhill</i>
-----------------------------	---

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying <i>Tom Gladhill 21 Sandalwood Place, Don Mills, Ont M3B1L5</i>	Date Certified <i>Dec 15/83</i>	Certified by (Signature) <i>Tom Gladhill</i>
--	------------------------------------	---

Initial Check

Jan 16, 87 M. Anderson

2

Assessed

Approved Reports of Work
sent out

Notice of Intent filed

Approval after Notice of Intent
sent out

Duplicate sent to Resident
Geologist

Duplicate sent to A.F.R.O.



Mining Lands Comments

No duplicate - duplicates now here

To: Geophysics

Comments

Approved Wish to see again with corrections Date Signature

To: Geology - Expenditures *Mr. C Kustra*

Comments

Approved Wish to see again with corrections Date *Jan 20/84* Signature *C Kustra*

To: Geochemistry

Comments

L.D.

Approved Wish to see again with corrections Date Signature

To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

52 G/14 SE (100)

Nov. 30, 1983

Seagull Resources Ltd.

Sturgeon Lake Property

Valora Lake Area, Ontario

2.6326

Summary

The writer is in the process of summarizing the work to date on the above property.

The company has the desire to file the work on geochemical analysis.

The company has chosen at this time to file only \$9592.72 of work made up of geochem assays and computer ~~assays~~ ^{analysis}. There are other charges, engineering time, assays, drifting induced polarization surveys and gravity surveys which have not been included. These results will be in the summary report.

Respectfully submitted

1 copy of report available now,
2nd copy available in January/84.

Tom Glidwell P.Eng.

Invoiced -

Terramini Research Lab. htd.

543.75

2316.40

4812.45

Levalin Centre - data processing

1920.12

\$ 9592.72

Tom Sedmill P. Eng.

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 Calgary, Alberta
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W. Timmins

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DATE	SHIPPED VIA	FED LICENCE NO.	PROV. LICENCE NO.	YOUR ORDER NO.	OUR ORDER NO.	TERMS	SALESMAN
Apr. 9, 1981	courier				81-30	30 days	
BACK ORDERED	QUAN ORDERED	DESCRIPTION			QUAN SHIPPED	UNIT PRICE	AMOUNT
		Sediment sample preparation and Cu, Zn, Ag analysis Re: Sturgeon Lake Project			33	3.75	123 75
<small>BACK ORDERED ITEMS WILL BE SHIPPED AS SOON AS AVAILABLE UNLESS WE ARE OTHERWISE ADVISED IN A ITEMS ARE NOT AVAILABLE AND HAVE NOT BEEN BACK ORDERED</small>					<small>DATE SHIPPED</small> Apr. 8, 1981	<small>LOT/AM</small>	<small>TOTO</small>

INVOICE

MOORE BUSINESS FORMS 78015E FORM

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DATE	SHIPPED VIA	FED LICENCE NO	PROV LICENCE NO	YOUR ORDER NO	OUR ORDER NO	TERMS	SALESMAN
Apr. 9, 1981	courier				81-36-A	30 days	
QTY ORDERED	QTY ORDERED	DESCRIPTION			QTY SHIPPED	UNIT PRICE	AMOUNT
		Sediment sample preparation and Cu, Zn, Ag analysis			28	3.75	\$ 105 00
Re: Sturgeon Lake Project - Seagull							
BACK ORDERED ITEMS WILL BE SHIPPED AS SOON AS AVAILABLE UNLESS OTHERWISE ADVISED N/A ITEMS ARE NOT AVAILABLE AND HAVE NOT BEEN BACK ORDERED				DATE SHIPPED	B/O FROM	B/O TO	
				Apr. 9, 1981			

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Sturgeon

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DATE	SHIPPED VIA	FED LICENCE NO	PROV LICENCE NO	YOUR ORDER NO	OUR ORDER NO	TERMS	SALESMAN
Apr. 8, 1981	courier				81-27	30 days	
QUAN ORDERED	QUAN ORDERED	DESCRIPTION			QUAN SHIPPED	UNIT PRICE	AMOUNT
		Drill Core sample preparation and Si, Al, Ca, Mg, Na, K, Fe, Mn, Cu, Zn			36	12.00	432 00
		Drill Core sample preparation and Cu, Pb, Zn			11	5.75	63 25
		Au, Ag (fire assay/AA)			11	6.50	71 50
							466 75
		Greyhound Express - sample shipment					32 65
		Re: Sturgeon Lake Project - Seagull					\$ 599 40
E & O E				DATE SHIPPED	B/O T/R/O W		B/O T/O

BACK ORDERED ITEMS WILL BE SHIPPED AS SOON AS AVAILABLE
 UNLESS WE ARE OTHERWISE ADVISED
 N/A ITEMS ARE NOT AVAILABLE AND HAVE NOT BEEN BACK ORDERED

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DATE	SHIPPED VIA	FED LICENCE NO.	PROV LICENCE NO.	YOUR ORDER NO.	OUR ORDER NO.	TERMS	SALESMAN
Mar. 26, 1981	courier				81-20-B	30 days	
QUAN ORDERED	QUAN ORDERED	DESCRIPTION			QUAN SHIPPED	UNIT PRICE	AMOUNT
		Core sample preparation plus: Si, Al, Ca, Mg, Na, K, Fe, Mn, Cu, Zn			59	12.00	708 00
		Core sample preparation plus Si, Al, Ca, Mg, Na, K, Fe, Mn, Cu, Zn, Pb			25	12.00	300 00
		Gold & Silver (FA/AA)			25	6.50	162 50
		Greyhound Express - sample shipment					1170 50
							37 45
							\$1207 95
<small>BACK ORDERED ITEMS WILL BE SHIPPED AS SOON AS AVAILABLE UNLESS WE ARE OTHERWISE ADVISED. IF ITEMS ARE NOT AVAILABLE AND HAVE NOT BEEN BACK ORDERED</small>				<small>DATE SHIPPED</small> Mar. 26, 1981	<small>ESTIM</small>	<small>B/O TO</small>	

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DATE	SHIPPED VIA	FED LICENCE NO	PROV LICENCE NO	YOUR ORDER NO	OUR ORDER NO	TERMS	SALESMAN
Mar.23,1981	courier				81-18-B	30 days	
QUAN ORDERED	QUAN ORDERED	DESCRIPTION			QUAN SHIPPED	UNIT PRICE	AMOUNT
		Re: Sturgeon Lake Proj. - Seagull Resources					
		Core sample preparation and Si, Al, Ca, Mg, Na, K, Fe, Mn, Cu, Zn, Pb			40	12.00	480 00
		Au, Ag (Fire assay/AA)			40	6.50	260 00
		Core sample preparation and Si, Al, Ca, Mg, Na, K, Fe, Mn, Cu, Zn			80	12.00	960 00
		Greyhound Express: sample bag shipment to Ignace, Ontario Feb.9					21 40
		sample shipment from Ignace, Ontario Mar.3					58 55
							\$ 1779 95
BACK ORDERED ITEMS WILL BE SHIPPED AS SOON AS AVAILABLE UNLESS WE ARE OTHERWISE ADVISED IF A ITEMS ARE NOT AVAILABLE AND HAVE NOT BEEN BACK ORDERED				E & O E	DATE SHIPPED	B/O FROM	B/O TO
					Mar. 23,1981		

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DATE	SHIPPED VIA	FED LICENCE NO	PROV. LICENCE NO	YOUR ORDER NO	OUR ORDER NO	TERMS	SALESMAN
Mar. 30. 1981	courier				81-21-B	30 days	
QUAN ORDERED	QUAN ORDERED	DESCRIPTION			QUAN SHIPPED	UNIT PRICE	AMOUNT
		Re: Seagull Project					
		Drill Core sample preparation plus					
		Si, Al, Ca, Mg, Na, K, Fe, Mn, Cu, Zn			52	12.00	624 00
		Drill Core sample preparation, Cu, Pb, Zn			19	5.75	109 25
		Au, Ag (fire assay/AA)			19	6.50	123 50
							856 75
		Greyhound Express - sample shipment					35 65
							\$ 892 40
E & O E				DATE SHIPPED	B.O FROM	B/O TO	
				Mar. 30, 1981			

BACK ORDERED ITEMS WILL BE SHIPPED AS SOON AS AVAILABLE
 UNLESS WE ARE OTHERWISE ADVISED
 N/A ITEMS ARE NOT AVAILABLE AND HAVE NOT BEEN BACK ORDERED

TerraMin Research Labs Ltd.
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DATE	SHIPPED VIA	FED LICENCE NO	PROV LICENCE NO	YOUR ORDER NO	OUR ORDER NO	TERMS	SALESMAN
Mar. 30, 1981	courier				81-40	30 days	
QUAN ORDERED	QUAN ORDERED	DESCRIPTION			QUAN SHIPPED	UNIT PRICE	AMOUNT
		Additional work done on samples with greater than 0.05% Cu and/or 0.1% Zn as requested by telephone.					
		Gold, silver analysis (Fire assay/AA)			16	6.50	104 00
				# 35/5/5			
BACK ORDERED ITEMS WILL BE SHIPPED AS SOON AS AVAILABLE UNLESS WE ARE OTHERWISE ADVISED.				DATE SHIPPED	B/O FROM	B/O TO	
				Mar. 30, 1981			
N/A ITEMS ARE NOT AVAILABLE AND HAVE NOT BEEN BACK ORDERED							

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 14 - 2235 30th Ave. N.E.
 Calgary, Alberta
 T2E 7C7

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W.G. Timmins

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 Calgary, Alberta

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DATE	SHIPPED VIA	FED LICENCE NO	PROV LICENCE NO	YOUR ORDER NO	OUR ORDER NO	TERMS	SALESMAN
Mar. 13, 1981	courier				81-21-A	30 days	
QTY ORDERED	QTY ORDERED	DESCRIPTION			QTY SHIPPED	UNIT PRICE	AMOUNT
		Sediment sample preparation			40	3.75	\$ 150 00
<p>Re: Seagull Proj.</p> <p style="text-align: center;"><i>#336</i> <i>3/4/81</i></p>							
<small>BACK ORDERED ITEMS WILL BE SHIPPED AS SOON AS AVAILABLE UNLESS WE ARE OTHERWISE ADVISED N/A ITEMS ARE NOT AVAILABLE AND HAVE NOT BEEN BACK ORDERED</small>				<small>E & O E</small>	<small>DATE SHIPPED</small> Mar. 16, 1981	<small>E & O T R O U</small>	<small>S. O T O</small>

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 Calgary, Alberta
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502 - 900 6th Ave. S.W.

Calgary, Alberta

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DATE	SHIPPED VIA	FED LICENCE NO	PROV LICENCE NO	YOUR ORDER NO	OUR ORDER NO	TERMS	SALESMAN
Mar.13,1981	courier				81-20-A	30 days	
BACK ORDERED	QUAN ORDERED	DESCRIPTION			QUAN SHIPPED	UNIT PRICE	AMOUNT
		Sediment sample preparation Cu, Zn, Ag analysis			45	3.75	\$ 168 75
					#326 3/4/81		
BACK ORDERED ITEMS WILL BE SHIPPED AS SOON AS AVAILABLE UNLESS WE ARE OTHERWISE ADVISED N/A ITEMS ARE NOT AVAILABLE AND HAVE NOT BEEN BACK ORDERED					E & C	DATE SHIPPED	B.OTROW
						Mar.13,1981	B.OTO

TerraMin Research Labs Ltd.
14 - 2235 30th Ave. N.E.
Calgary, Alberta
T2E 7C7

1 TEL 1234567

13744

SOLD TO W.G. Timmins Expl. & Dev't. Ltd.

502 - 900 6th Ave. S.W.

Calgary, Alberta

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DATE	SHIPPED VIA	FED LICENCE NO.	PROV LICENCE NO.	YOUR ORDER NO.	OUR ORDER NO.	TERMS	SALESMAN
Mar.13,1981	courier				81-18-A	30 days	
QUAN ORDERED	QUAN ORDERED	DESCRIPTION			QUAN SHIPPED	UNIT PRICE	AMOUNT
		Sediment sample preparation Cu, Zn, Ag analysis			60	3.75	\$ 225 00
		<i>#336. 3/4/81</i>					
BACK ORDERED ITEMS WILL BE SHIPPED AS SOON AS AVAILABLE UNLESS WE ARE OTHERWISE ADVISED N/A ITEMS ARE NOT AVAILABLE AND HAVE NOT BEEN BACK ORDERED				E & O	DATE SHIPPED	B. FROM	B. TO
					Mar.13,1981		

TerraMin Research Labs Ltd.
 14 - 2235 30th Ave. N.E.
 Calgary, Alberta
 T2E 7C7

13687

SOLE TO

W.G. Timmins Exploration & Dev't. Ltd.

SHIP TO SAME

502 - 900 6th Ave. S.W.

Calgary, Alberta T2P 3K2

DATE	SHIPPED VIA	FED LICENCE NO	PROV LICENCE NO	YOUR ORDER NO	OUR ORDER NO.	TERMS	SALESMAN
May 13, 1981	post				81-55	30 days	
BACK ORDERED	QUAN ORDERED	DESCRIPTION			QUAN SHIPPED	UNIT PRICE	AMOUNT
		Rock sample preparation plus Si, Al, Ca, Mg, Na, K, Fe, Mn, Cu, Zn			91	12.00	1092 00
		Rock sample preparation plus Cu, Pb, Zn			12	2.50	30 00
		Au, Ag (FA/AA)			12	2.25	27 00
					12	6.50	78 00
		Greyhound - waybill # D-136212 shipment					1227 00
							44 25
							\$1271 25
BACK ORDERED ITEMS WILL BE SHIPPED AS SOON AS AVAILABLE UNLESS WE ARE OTHERWISE ADVISED.				E & O E	DATE SHIPPED	B/O/ROM	S/O TO
					May 13, 1981		
N/A ITEMS ARE NOT AVAILABLE AND HAVE NOT BEEN BACK ORDERED							

Terra Min Research Labs Ltd.
 14 - 2235 30th Ave. N.E.
 Calgary, Alberta
 T2E 7C7

13688

SOLD TO

W.G. Timmins Expl. & Dev't. Ltd.

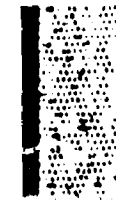
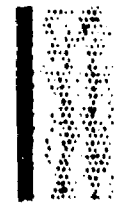
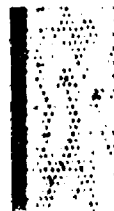
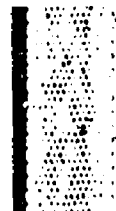
S A M E

502 - 900 6th Ave. S.W.

Calgary, Alberta

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DATE	SHIPPED VIA	FED LICENCE NO	PROV LICENCE NO	YOUR ORDER NO	OUR ORDER NO	TERMS	SALESMAN
May 13, 1981	post				81-56	30 days	
BACK ORDERED	QUAN ORDERED	DESCRIPTION			QUAN SHIPPED	UNIT PRICE	AMOUNT
		Rock sample preparation			10	2.50	25 00
		Cu, Pb, Zn			10	2.25	22 50
		Au, Ag (FA/AA)			10	6.50	65 00
		Greyhound Express Waybill # D-136213					112 50
							19 65
							\$ 132 15
<small>BACK ORDERED ITEMS WILL BE SHIPPED AS SOON AS AVAILABLE UNLESS WE ARE OTHERWISE ADVISED *A ITEMS ARE NOT AVAILABLE AND HAVE NOT BEEN BACK ORDERED</small>				E & O E	DATE SHIPPED May 13, 1981	LOT FROM	W/O TO



TerraMin Research Labs Ltd.
 14 - 2235 30th Ave. N.E.
 Calgary, Alberta
 T2E 7C7

13672

Sturgeon

SOLD TO

W.G. Timmins Expl. & Dev't. Ltd.

502 - 900 6th Ave. S.W.

Calgary, Alberta

**S H I P
T O**

S A M E

DATE	SHIPPED VIA	FED LICENCE NO	PROV LICENCE NO	YOUR ORDER NO	OUR ORDER NO	TERMS	SALESMAN
Apr. 28, 1981	courier				81-36-B	30 days	
QUAN ORDERED	QUAN ORDERED	DESCRIPTION			QUAN SHIPPED	UNIT PRICE	AMOUNT
		Core sample preparation plus					
		Si, Al, Ca, Mg, Na, K, Fe, Mn, Cu, Zn			62	12.00	744 00
		Au, Ag (FA/AA)			11	6.50	71 50
		Cu, Pb, Zn			11	5.75	63 25
							\$ 878 75
		Sample shipment via Greyhound Express					34 25
							\$ 913 00
		Re: Seagull - Sturgeon Lake Project					
<small>BACK ORDERED ITEMS WILL BE SHIPPED AS SOON AS AVAILABLE UNLESS WE ARE OTHERWISE ADVISED IF ITEMS ARE NOT AVAILABLE AND HAVE NOT BEEN BACK ORDERED</small>				DATE SHIPPED	BY/TROW	BY/TO	
				Apr. 28, 1981			

LAVALIN CENTRE
201 909 - 5TH AVENUE SW
CALGARY ALBERTA T2P 3G5

I. G. TIMMINS EXP & DEV LTD.

INVOICE NO: 81-05-027
INVOICE DATE: MAY 31/81

DATA PROCESSING SERVICES FOR THE MONTH OF MAY 1981

COMPUTER/TERMINAL USAGE			665.23
1 MAGNETIC TAPE			20.00
PAPER USAGE			41.14
DATA ENTRY		7.50 HRS @ 20.00/HR	150.00
OPERATING	T STEEVES	20.50 HRS @ 30.00/HR	615.00
PROGRAMMING	T STEEVES	11.25 HRS @ 35.00/HR	393.75
SYSTEM DESIGN	T STEEVES	1.00 HRS @ 35.00/HR	35.00
		TOTAL INVOICE	1,929.12 •

#450
1981

W. G. TIMMINS EXPLORATION & DEVELOPMENT LTD.

No 336

901-909-5TH AVENUE S.W.

CALGARY, ALBERTA

PHONE 264-1415

502 900 6th Ave S.W.

April 6, 1918

PAY TO THE ORDER OF

TerraMin Lads Ltd

\$ 543.75

Five Hundred & Forty Three . 75

100 DOLLARS

THE ROYAL BANK OF CANADA

5TH AVENUE & 8TH STREET
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CALGARY, ALBERTA T2P 3G5

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CALGARY, ALBERTA

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909 - 5TH AVENUE S.W.
CALGARY, ALBERTA T2P 3G5

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12172

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5TH AVENUE & 8TH STREET

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PHONE 264-1415

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THE ROYAL BANK OF CANADA

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THE ROYAL BANK OF CANADA

5TH AVENUE & 8TH STREET
909 - 5TH AVENUE S.W.
CALGARY, ALBERTA T2P 3G5

W. G. TIMMINS EXPLORATION & DEVELOPMENT LTD.

W. G. Timmins

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TERRAMIN RESEARCH LABS LTD.
14, 2235 - 30th AVENUE N.E.
CALGARY, ALBERTA T2E 7C7
(403) 278-8668

ROYAL BANK
ALBERTA OFFICE
MAY 29 1981

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CALGARY, ALBERTA T2E 7C7
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ALBERTA OFFICE
MAY 29 1981

PROVINCE OF ALBERTA TRULAS. BR.
112-16 AVE. N.E.
CALGARY, ALTA.
MAY 29 81
CANADIAN IMP. BN. OF COMMERCE
LASPER AVE. & 100 ST. EDM. ALTA.
00059 010

FOR DEPOSIT ONLY

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14, 2235 - 30th AVENUE N.E.
CALGARY, ALBERTA T2E 7C7
(403) 278-8668

ROYAL BANK
ALBERTA OFFICE
MAY 29 1981

Your File: 83-118(TB)

Our File: 2.6226

January 5, 1984

Seagull Resources Ltd
c/o Gledhill Consultants Inc
21 Sandalwood Place
Don Mills, Ontario
M3B 1L5

Dear Sirs:

We have received data for Assaying submitted under Section 77(19) of the Mining Act R.S.O. for Mining Claims TB 436735 to 52 inclusive and PA 436735 et al in the Area of Valora Lake.

However, we have not received a duplicate. Please submit another copy to this office.

Upon receipt of the above information a statement of assessment work credits will be issued.

Yours very truly,

J.R. Horton
Acting Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-1380

D. Kinvig:mc

cc: Mining Recorder
Sioux Lookout, Ontario

cc: Mining Recorder
Thunder Bay, Ontario

1984 01 10

Your File: 83-118

Our File: 2.6226

Mrs. Audrey Hayes
Mining Recorder
Ministry of Natural Resources
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

We have received data for Assaying submitted under Section 77(19) of the Mining Act, R.S.O. 1980 for Mining Claims TB 436735 to 52 inclusive in the Area of Valora Lake.

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

Yours very truly,

J.R. Morton
Acting Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-1380

A. Barr:mc

cc: Seagull Resources Ltd
c/o Gledhill Consultants Inc
21 Sandalwood Place
Don Mills, Ontario
M3B 1L5

1984 01 10

Our File: 2.6226

Mr. Albert Hanson
Mining Recorder
Ministry of Natural Resources
P.O. Box 669
Sioux Lookout, Ontario
POV 2T0

Dear Sir:

We have received data for Assaying submitted under Section 77(19) of the Mining Act R.S.O. 1980 for Mining Claims PA 436735 et al in the Area of Valora Lake.

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

We do not have a copy of the report of work which is normally filed by you prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours very truly,

J.R. Morton
Acting Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-1380

D. Kinviq:mc

cc: Seagull Resources Ltd
c/o Gledhill Consultants Inc
21 Sandwood Place
Don Mills, Ontario
M3B 1L5

April 5, 1984

Our File: 2.6226

Seagull Resources Ltd
c/o Gledhill Consultants Inc
21 Saddlewood Place
Don Mills, Ontario
M3B 1L5

Dear Sirs:

RE: Data for Assaying submitted on Mining Claims
TB 436735 et al in the Area of Valora Lake

We have not received receipts or cancelled cheques required in order to assess work performed on Mining Claims listed above. Please provide receipts verifying payment of the expenditure of \$22,500.00 and \$9592.72 for Geochemical Analysis as soon as possible.

For further information, please contact Mr. F.W. Matthews at (416)965-8918.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

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

M.E. Anderson:mc

cc: Mining Recorder
Sioux Lookout, Ontario

April 13, 1984

Our File: 2.6226

Seagull Resources Ltd
c/o Gledhill Consultants Inc
21 Sandalwood Place
Don Mills, Ontario
M3B 1L5

Dear Sirs:

RE: Data for Assaying submitted on Mining Claims
T~~2~~ 436735 et al in the Area of Valora Lake

Enclosed are the plans in duplicate for the above-mentioned survey. Please show all claim lines and numbers, and have the author of the report sign each map.

Also, we have received verification for expenses totalling \$9592.72, but have not yet received receipts or cancelled cheques for the \$22,500.00 expenditure claimed. This information is required (in duplicate) in order to assess the work performed.

When submitting this information, please quote file 2.6226.

For further information, please contact Mr. F.W. Matthews at (416)965-6918.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

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

S. Hurst:mc

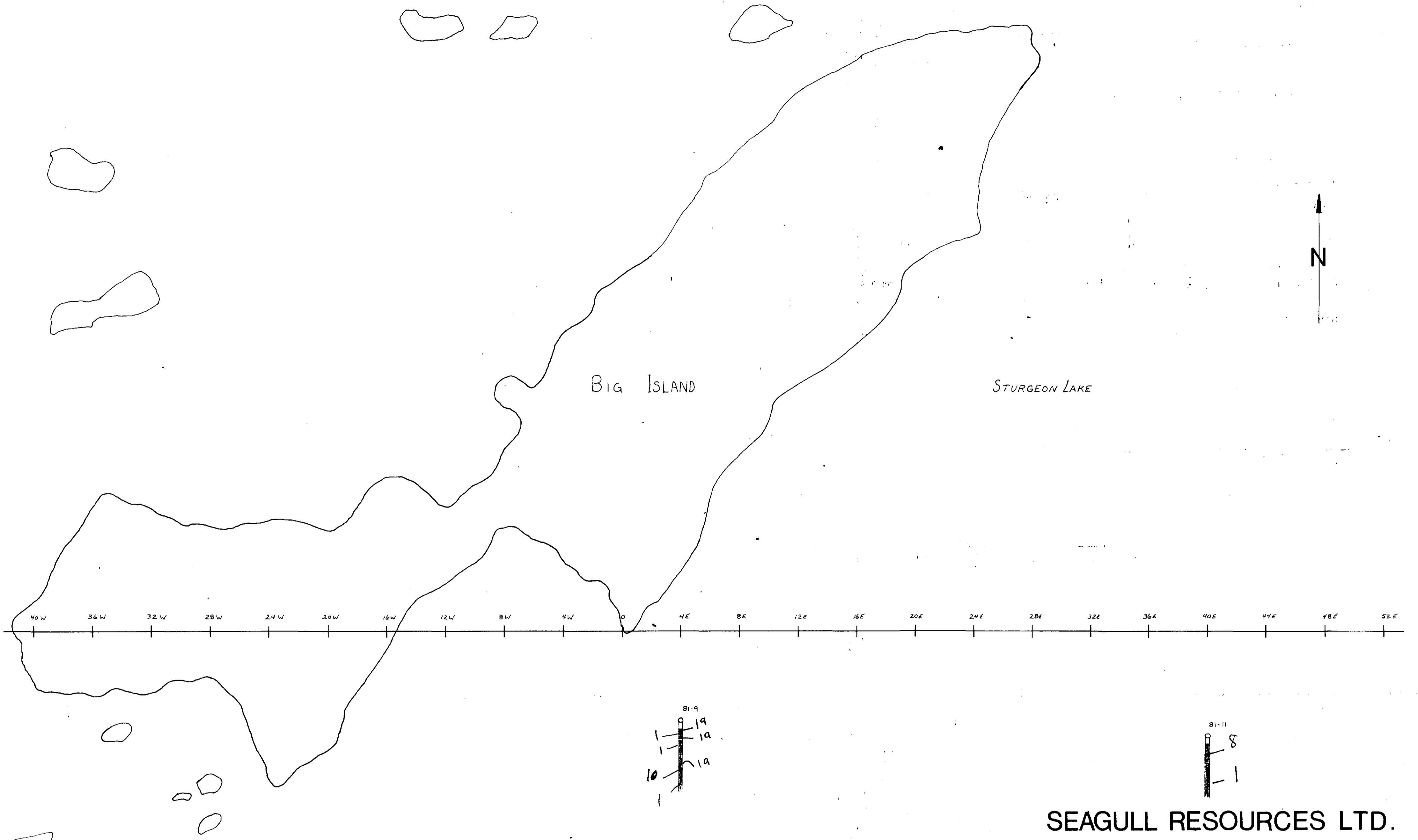
Encl.

FOR ADDITIONAL

INFORMATION

SEE MAPS:

52G/14SE-0063 # 1-2



SEAGULL RESOURCES LTD.
 DIAMOND DRILL PLAN
 STURGEON LAKE BASE METAL PROPERTY
 W.G. Timmins Exploration and Development Ltd.

1" = 100'
 LEGEND

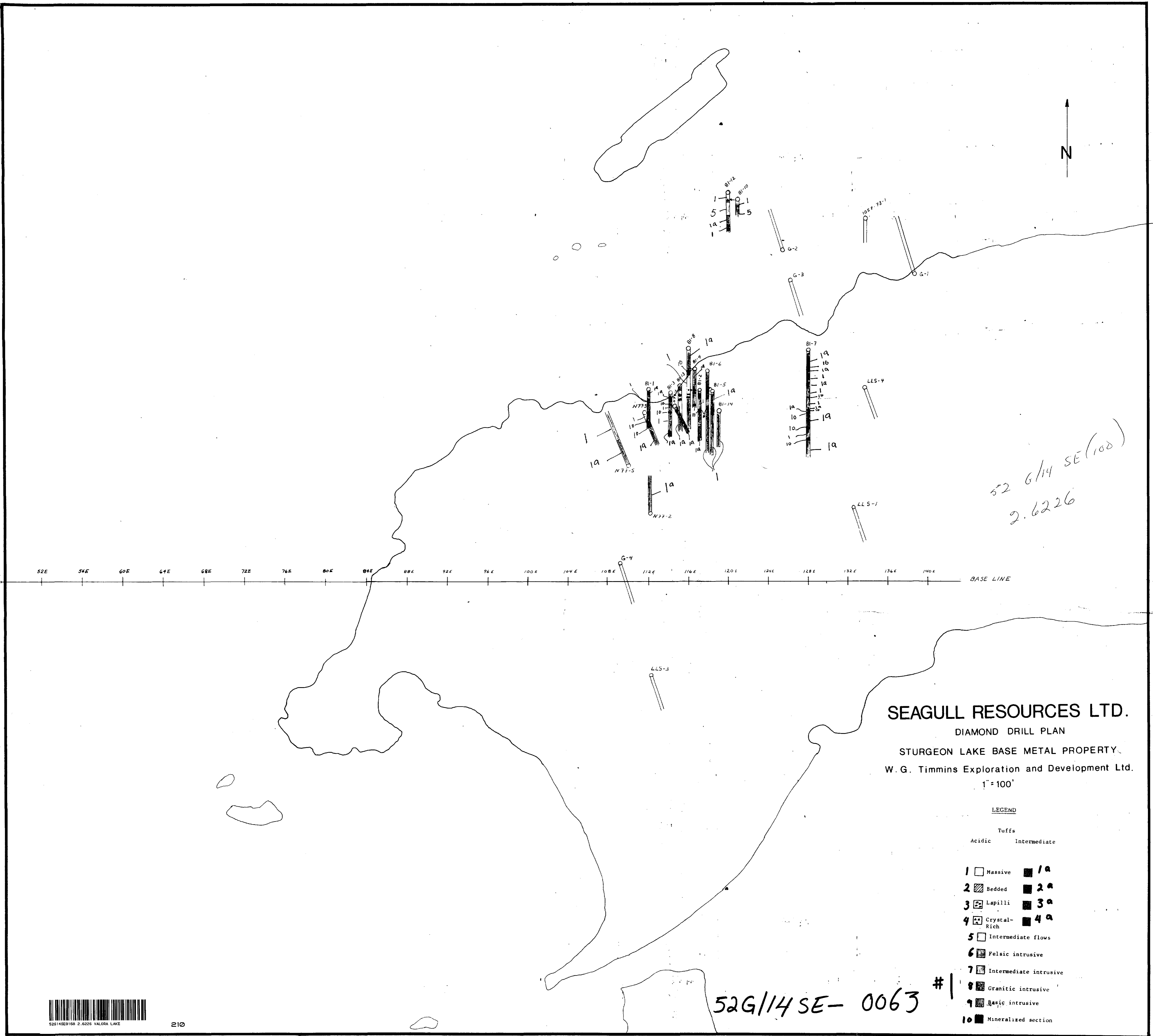
Tuffs
 Acidic Intermediate

- | | | | | |
|----|---|------------------------|---|----|
| 1 | □ | Massive | ■ | 1a |
| 2 | ▨ | Bedded | ■ | 2a |
| 3 | ▩ | Lapilli | ■ | 3a |
| 4 | ▧ | Crystal-Rich | ■ | 4a |
| 5 | □ | Intermediate flows | | |
| 6 | ▨ | Felsic intrusive | | |
| 7 | ▩ | Intermediate intrusive | | |
| 8 | ▧ | Granitic intrusive | | |
| 9 | ▩ | Basic intrusive | | |
| 10 | ■ | Mineralized section | | |

52G/14SE-0063 #2



200



52 G/14 SE (100)
2.6226

SEAGULL RESOURCES LTD.
DIAMOND DRILL PLAN
STURGEON LAKE BASE METAL PROPERTY
W. G. Timmins Exploration and Development Ltd.
1" = 100'

- LEGEND**
- | | |
|---------------------------|--------------|
| Tuffs | |
| Acidic | Intermediate |
| 1 Massive | 1a 1a |
| 2 Bedded | 2a 2a |
| 3 Lapilli | 3a 3a |
| 4 Crystal-Rich | 4a 4a |
| 5 Intermediate flows | |
| 6 Felsic intrusive | |
| 7 Intermediate intrusive | |
| 8 Granitic intrusive | |
| 9 Basic intrusive | |
| 10 Mineralized section | |

52G/14 SE-0063 #1

