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GLEN AUDEN RESOURCES
Report on Reverse Circulation
Overburden Drilling
in
Tweed Township, Ontario

March 1986

Rob Abernethy

P.O. Box 1637
Timmins, Ontario

R.S. Middleton Exploration Services Inc.

136 Cedar Street South
P4N 7W8

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MINING LANDS SECTION



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ABSTRACT

A reverse circulation overburden drill program was conducted on the Glen Auden property in Tweed Township, Larder Lake Mining Division. Although the glacial sediment was thick, basal tills were found in only 14 of 31 drill holes. Anomalous gold concentrations were found in several samples. Among these, the highest value was 5500 ppb and 4 samples contained gold concentrations greater than 1000 ppb. In summary, three areas where anomalous gold values were encountered in local tills proximal to geophysical targets are recommended for follow-up diamond drilling.

INTRODUCTION

Thirty-one reverse circulation overburden drill holes were drilled on the Glen Auden Tweed Township property between February 7, 1985 and February 25, 1985. The work was performed on the 161 claim contiguous block consisting of claims:

780702-780706	-	5
783054	-	1
790352-790359	-	8
796405-796430	-	26
796443-796444	-	2
796515-796518	-	4
797281-797320	-	40
798627-798652	-	26
798661-798686	-	26

798726-798730 - 5
842592-842599 - 8

Heath and Sherwood Drilling of Kirkland Lake, Ontario was contracted to drill the holes using a timberjack mounted acker reverse circulation overburden drill rig. Cumulative footage for the 31 holes was 3,649 feet. The maximum depth drilled was 180 feet; the minimum 38 feet and the average depth per hole was 118 feet. The program objectives were to determine if anomalous gold, arsenic, zinc or copper concentrations exist in glacial tills derived from bedrock near known geophysical anomalies and to ascertain bedrock lithologies on the property. Drill hole locations were selected based on results of airborne geophysical surveys flown by Dighem Surveys and Processing Inc., and a horizontal loop EM (Max-Min II) survey done by R.S. Middleton Exploration Services Inc.

LOCATION AND ACCESS

The property is located in the south-east corner of Tweed Township, in the Burntbush River area of northeastern Ontario, 48 air miles northeast of Cochrane, Ontario (Figure 1). Access to the property is via the Detour Lake Mine road that passes through the northwest corner of the property. The town of Cochrane is 63 road miles from the property. A network of winter roads was made on the property connecting drill holes.

Relief on the property varied from low, flat, swampy, clay

plains and high rolling esker ridges centered between Two Island Lake and Four Island Lake. Hummocky moraines provide considerable relief in the south-east corner of the property. Vegetation is also extremely variable as hardwood, birch, poplar and jack pine predominate in the sandy eskers while black spruce is the main constituent of flatter clay plains. Abundant lakes, rivers and creeks provide ample water for drilling. Summer drilling may be difficult in the more swampy portions of the property.

PREVIOUS WORK

No Bedrock exposure has been found on the property which has restricted prospecting on the property in the past. The earliest work recorded in the area is drilling by Texas Gulf Sulphur carried out in 1967 one to two miles west and southwest of the property. Five holes were drilled to test conductors. Metasediments and rhyolite tuffs were reported from these holes and the conductors were described as pyrrhotite-pyrite with quartz rich rocks (quartzite or cherts) often with specs of chalcopyrite. These units could now be interpreted as exhalitive horizons which would be a favourable setting for gold mineralization. No assays were reported, nor was there any record of the core being split. Since the project was a base metal exploration program, it could be assumed that gold analysis was not done.

In 1967-1968 ground magnetometer (Sharpe MF-1 (fluxgate)) and electromagnetic (EM 16) surveys were carried out on an area on the northern part of the property for Movado Mining Company Limited, Sullivan, D.W. (1968) and Duff, D. (1967). Two holes approximately 500 feet were drilled to test one conductor on the north edge of the property and two sulphide horizons were intersected in each hole. Ten samples from these holes were assayed and values of .1 - .2% copper were reported.

These intersections are interpreted by R. P. Bowen as sulphide facies iron formation which would be favourable host for stratabound gold deposits. A large amplitude magnetic anomaly on the central part of the property (see figure 6 at the back of this report), illustrates the presence of an oxide facies iron formation which is time equivalent to the oxide facies iron formation associated with the Inco-Casa Berardi discovery. The sulphide facies of the northern most iron formation horizon within the Casa Berardi discovery contains significant gold values besides the ankerite-quartz vein systems in the metasediments adjacent to the iron formations. Therefore the Tweed suite of rocks is likely identical to Casa Berardi.

In 1974 vertical loop EM and magnetic (fluxgate) surveys were done by Noranda Exploration Company on 8 claims (Group 2-73) on the central part of the property (west of Floodwood Lake) using a McPhar vertical loop system (VLEM) operating at 1000 and

5000 cps and a McPhar M700 fluxgate magnetometer, Fraser, R.J. (1975). Three parallel conductors with strike lengths up to a mile were outlined. These conductors have not been drilled. Also in 1974, Noranda surveyed 6 claims 1/2 mile north of the Bragg - Tweed boundary (grid 1-73) and a weak conductor on the south side of a small pond was outlined, Graham, W.F. (1974). These conductors are interpreted by R. P. Bowen to be sulphide horizons at the base of the oxide iron formation.

Hudson Bay Exploration and Development Company Limited, R.O. MacTavish (1977), surveyed 3 grids within the area of the property (Grids H, J and K) using a Ronka EM 17 horizontal loop EM unit with a 100 meter coil operating at 1600 Hz. Several conductors were outlined in the central part of the property on Grid J which may be in part an extension of the conductors outlined by the Noranda Survey on Grid 2-73. Grid H which extended across the Blakelock Township boundary on the east west property showed one weak conductor 3/4 of a mile north of Floodwood Lake. Group K contained the northwest extension of a series of conductors that extended in a southeast direction into Bragg Township.

Utah Mines Ltd. carried out electromagnetic and magnetic surveys on a 5 claim block in the central part of the property which reported work on the northeast corner of the Hudson Bay Exploration, Grid J using a Max Min II EM (400 foot cable) and

proton precession total field magnetometer. Three conductors were outlined, Mitchell, W.S. (1982). These zones are interpreted to be sulphide and graphitic zones adjacent to the oxide facies iron formation.

DRILL PROGRAM

The drill program was designed to test airborne and ground geophysical anomalies. A long, continuous, east-west trending non-magnetic conductor extends along most of the southern boundary of the property. This conductor was tested with 11 holes spaced generally 100 to 250 meters east-west, and 25 to 125 meters south of the conductor. Another conductor, with a magnetic expression, trending southeast crosses the southwest corner of the property. It was tested with two drill holes spaced 675 meters east-west and 25 to 125 meters south of the conductor. An isolated, small weakly magnetic conductor was detected also in the southwest corner. It was tested with one hole drilled 75 meters south of the airborne Dighem anomaly. A set of parallel, weakly magnetic, east-west trending weak conductors were detected in the south-central portion of the property. These were tested with 2 holes spaced 275 meters east-west and 50 to 100 meters south of the conductor. A long, continuous, non-magnetic, northeast trending conductor bisecting Two Island Lake and Four Island Lake was tested by four holes drilled on the shores of the lake and 50 to 100 meters south of

the conductors. The remaining 9 holes were drilled into a group of parallel, short, east-west trending, weakly magnetic conductors located west of Floodwood Lake. East-west spacing was 100 to 400 meters and "down ice" distance from the conductors was 25 to 100 meters.

It is hoped that the Glen Auden property has similar characteristics to the Golden Pond property. An orientation survey performed by Inco (J.A. Sanerbrei, 1985) over the Golden Pond deposit shows that the gold-arsenic dispersion train resulting from the Golden Pond mineralization is characterized by having a minimum width of 200 meters measured perpendicular to the direction of ice advance, and can be detected up to 400 meters down-ice with delicate grains detected 100 meters down-ice. Initial spacing for testing targets were intervals either 300 meters or 400 meters along strike and 25 meters to 100 meters down-ice.

In each hole, the continuous return was logged and monitored throughout the section. Glacial till was sampled at 5 foot intervals or when changes in glacial lithology were suspected. Three to five feet of bedrock was drilled and sampled at the base of each hole. A grab sample of bedrock was saved to be examined at a later date to confirm bedrock lithology and to be examined closely for mineralization and alteration.

PLEISTOCENE GEOLOGY

Property

The overburden encountered on the Glen Auden property was relatively complex. A ubiquitous, thin clay till was found in the first 5 to 20 feet in all but one hole. This till was matrix supported with 10 to 25% sand to pebble sized clasts. Clasts were subangular to subrounded, unsorted and were composed of predominantly durable lithologies such as granitoids, quartz grains, mafic intrusive rocks, Paleozoic limestones, etc. Local lithologies such as metavolcanics or metasediments usually constituted no more than 10 to 20%. Matrix material was a compact, hard, brown clay. This till is interpreted as a lodgement till, deposited at the base of the latest glacial advance. The low local clast fraction and the stratigraphic position of this till (above lacustrine clays) nullifies this till as a good sampling medium. This hard, brown, gritty clay is probably the local extension of the Cochrane till, a local till caused by a local readvancemnt lobe from the retreating Laurentide Ice Sheet. Evidence for this interpretation includes the stratigraphic position of the till, the clayey composition of the till and the low erosional power shown by the inability of the readvancement lobe to erode eskers and other high relief features.

Glacifluvial sediments were found in the area centered

between Two Island Lake and Four Island Lake and constituted the main component of holes GAO-01, 02, 03, 04, 05, and 06. Glaciofluvial sediments ranged from very fine grained silt with interbedded clay facies through sandy facies to a coarse gravel facies found in holes GAO-02, 03, and 04. Glaciofluvial sediments exhibited good sorting and well rounded clasts, a general lack of any matrix clay component, an abundance of quartz sand and durable clast lithologies such as granitoids, Paleozoic limestones and mafic intrusives and often exhibited graded bedding. Glaciofluvial sediments were not sampled as their transportation mechanisms are complex and provenance is difficult to determine without detailed lithological studies.

Glaciolacustrine clays were observed in most holes except in holes GAO-01, 02, 04, and 05 where the esker ridge protruded above the lake water elevation. The clay was a homogeneous soft grey clay with occasional dropstones of exotic lithologies, generally between 10 and 70 feet thick. These clays were deposited in the slow water regime of glacial Lake Ojibway, a proglacial lake that abuted against the toe of the retreating ice sheet during the deglaciation of the James Bay drainage basin (Vincent and Hardy, 1979). These clays were not sampled as their transportation mechanisms are very complex.

At least one till sheet was found in most holes. As shown above, a complex range and distribution of sediments result from

glaciation, and each different sediment varies with respect to its value as a sampling media. Several different varieties of till were recognized. Flowed tills were recognized in GAO-08, 12, 13, 14, 18, 21, 24, 25, 26, 28, 29, 30, and 31. Flowed tills are formed as supraglacial material at the glacier toe "flows" into glacial troughs or off the toe into the periglacial environment. Flowed tills were recognized on the drill rig by recognizing limited sorting of till like material, limited stratification and low order consolidation. Flowed tills are derived from supraglacial material and have limited uses as sampling media as most material is distal. Flowed till samples were discarded where excessively thick.

Ablation tills or water-laid tills were recognized in holes GAO-03, 09, 10, 11, 13, 14, 18, 20, 21, 23, 24, 25, 26, 27, 28, 29, 30, and 31. The occurrence of proglacial Lake Ojibway probably played a major role in the deposition process of ablation tills. Ablation tills were recognized by their lack of sorting, mostly distal lithological composition, lack of consolidation and absence or low percentage of a clay fraction. Where limited sorting was observed water-laid tills were suspected. Ablation tills also have a limited value as a sampling media.

Basal Tills were observed in holes GAO-03, 04, 09, 14, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31. Basal tills were either

basal melt-out tills or lodgement tills and took on a variety of forms. A hard, grey to green compacted, local gritty clay (rock four) was observed in most holes. Basal tills are the most significant sampling medium as material has been locally derived, travelled at the glacier base, and deposited subglacially having little or no post glacial redistribution.

BEDROCK GEOLOGY

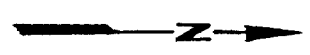
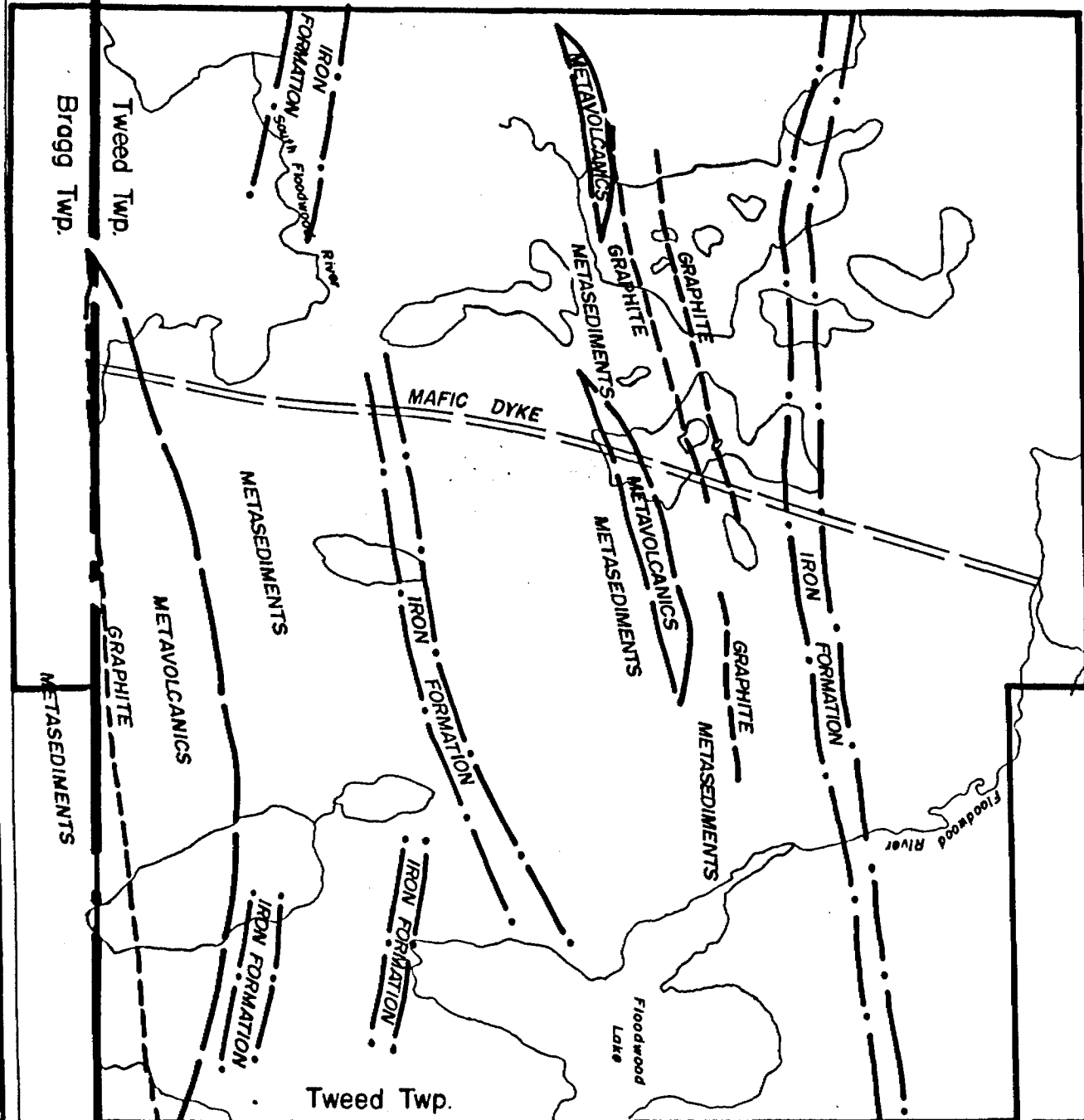
The bedrock encountered in all drill holes was supracrustal metasediments or metavolcanics. The metasediments encountered include argillites, graphitic argillite, amphibolites and micaceous sandstones. Argillite or graphitic argillite was found in holes GAO-01, 13, and 30. The argillitic rocks were very dark grey to black, aphanitic, smooth or greasy, moderately soft with fine laminations and microfolding discernable even at rock chip scale in GAO-01 and 30 and more massive in GAO-13. In all cases fine grained, euhedral pyrite constituted 1 to 3% of the rock. Graphitic argillites were found where holes were drilled closest to bedrock conductors.

Amphibolites were distinguishable in GAO-06, 07, 08, 09, 10, 12, and 18. The amphibolites were mostly dark grey/black to green depending on quartz or chlorite composition, massive or subtly schistose, gritty, moderately hard with minor pyrite composition. Fine grained euhedral amphibole constituted 50 to 90% of the rock with quartz, biotite, feldspar, chlorite,

sulphides and occasionally garnet (GAO-10) comprising the remainder of the rock. Amphibolite and the garnet occurrence may suggest local higher temperature, low-grade metamorphism which may be related to local fold structures (B.C. Wilson, 1979).

Micaceous sandstone was recognized in holes GAO-04, 11, 19, 20, 25, 26, 27, 28, 29, and 31. These rocks showed highly variable composition and texture as quartz would alternately vary between 10 and 75% of the rock. Other minerals would naturally vary antipathetically with quartz with biotite comprising 20 to 60%, feldsars up to 10% with occasional garnet, pyrite and chlorite in minor proportions. Grain size, roundness and sorting also varied but grains usually were between .1 to 2 mm, with moderate sorting and subrounded grain boundaries. Differences in size, roundness and sorting were occasionally observed over 5 feet suggesting graded bedding or some small scale stratification. Mafic to intermediate metavolcnics were observed in holes GAO-03, 06, 15, 16, and 21. The metavolcanics were dark grey to green, aphanitic massive to shistose, with minor to 2% (GAO-06) pyrite. Composition of the metavolcanics was estimated from hardness, colour and texture of the rock.

Correlation between holes is difficult due to variable lithologies and large gaps between drill fences. A Preliminary geological map is shown in Figure 3. The interhole and intrahole variance suggests an unstable volcanic depositional environment



REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.	
	for	GLEN AUDEN RESOURCES LTD.
	Title	Preliminary Geology Map
		Fig. 3
	Date: March 1986	Scale: 1" = 1/2 mile N.T.S.:
	Drawn: C.G.	Approved: File: M - 63

with metasediments probably representing greywackes derived from eroding volcanics.

RESULTS

The results of heavy mineral concentration performed by Overburden Exploration Services Ltd, and Neutron activation analysis performed by X-Ray Assay Laboratories Limited are shown in appendix E. Gold and arsenic results are placed alongside corresponding drill holes on the cross sections. Bedrock assays from returned bedrock chips are shown in appendix E.

DISCUSSION OF RESULTS

No visible gold was detected in the nonmagnetic heavy mineral concentrates (HMC) on the basis of a 'quick look' on the superpanner. This suggests that:

1. No gold was present in any samples,
2. Very fine gold was present and was undetectable by visible searches,
3. Visible gold grains were present but not detected by the detection method.

The gold analysis shows generally low gold concentrations with occasional high 'spikes'. This leads to the conclusion that background fine gold was present with an occasional sporadic grain as occurs in many tills overlying the Abitibi belt.

Anomalous pyrite concentrations were observed in three samples; 91740, 91745 and 91746. These anomalies are significant as they are from basal till samples and correlate to observations made on the drill. Sample 91740 contains 10% subhedral pyrite in the HMC. Local sediments (quartz biotite schists) constituted 70% of this sample and were observed to contain unusually high (3%) pyrite concentrations. Samples 91745 and 91746 contain 5% and 2% pyrite respectively in the HMC. These samples were from lodgement till and contained up to 90% local clasts of chlorite schist and graphitic argillites. The graphitic argillites were pyritiferous with up to 2% pyrite. Analysis of these samples were disappointing with gold being at background values and only slight elevations in some other elements.

Geochemical analysis of the HMC were generally unimpressive. Subtle indications of mineralization may be present, however, the relatively high gold values were sporadic and located high in the quaternary sections where till origins are complicated and material provenance is difficult to interpret. The highest gold value was 5.500 ppm found in sample 91782. This high value is probably due to the nugget effect as the analysis was performed on an extremely small sample (9.34 grams compared to a 50-70 gram average mass). In addition, samples above and below 91782 show no enrichment and other indicator elements show no enrichment. Interesting values are discussed, hole by hole, below.

GAO-06 Sample 91663 taken immediately above bedrock returned 230 ppb Au in the HMC and is slightly enriched in As, Co, and Mo. The sample was taken from the bottom of a thick glaciofluvial sequence in a thin till unit with mostly distal clasts and thus has low probability of being local.

GAO-09 Samples 91685 and 91686 returned 680 ppb Au and 3300 ppb Au respectively, and are slightly elevated in Cr and Zn. The samples were taken close to bedrock in a till interpreted as being water lain ablation till. The coincidence of two highly anomolous values is significant.

GAO-17 Sample 91749 returned 220 ppb Au and 72 ppm As and is slightly enriched in Co, Ag, Ba, La, Lu, W and Th. This sample is significant as it was taken from immediately above bedrock in a till unit interpreted as basal till or weathered bedrock. In addition, the elevation in concentration of a host of Au indicator elements is significant.

GAO-28 Samples 91895, 91896, 91898 and 91901 returned 140, 1400, 250, and 420 ppb Au respectively and are enriched in As and Ba. The samples were taken from the middle of section in a unit interpreted as ablation, possibly water lain, till. The

clustering of these high gold values is significant.

GAO-29 Sample 91921 returned 260 ppb Au and is enriched in W. The sample was taken from the base of the section, immediately above bedrock in a unit interpreted as basal till. The elevated gold value immediately above bedrock is significant.

GAO-30 Sample 91936, 91937, 91941 and 91942 returned 150, 170, 150 and 110 ppb Au respectively and is enriched in Cr, Co, As, Mo, W and Th. Samples 91936 and 91937 were taken from mid section in a unit interpreted as ablation, possibly water lain, till. Sample 91941 was taken from five feet above bedrock at the base of the ablation till unit. Sample 91942 was taken from immediately above bedrock in a unit interpreted as basal till. The clustering gold values, the strong association of indicator elements and the high gold value in basal till are significant.

CONCLUSIONS

Although no outstanding Au values were found, significant, subtly anomolous values may indicate the presence of mineralization. The absence of local tills in many holes prohibits drawing any conclusions regarding mineral potential in those holes. In addition, the reconnaissance nature of the drilling does not extensively test the known geophysical

anomalies.

From the discussion of results, three areas require follow-up based on overburden results.

Area 1 Drill hole GAO-17 returned significant values as discussed above. The geophysical target was a highly conductive, slightly magnetic linear feature bordering the southern boundary.

Area 2 Drill hole GAO-28 and GAO-29 returned anomolous gold values, the highest being 1400 ppb as discussed above. The geophysical target was a long linear, continuous conductor along the southern boundary which probably represents a graphite bed

Area 3 Drill hole GAO-09 returned two samples with anomolous gold values. This hole was drilled to test three parallel conductors. Interpreted as being sulphide horizons at the base of Iron Formations.

RECOMMENDATIONS

The three areas indicated above should be diamond drilled to test for the source of the anomalous gold in tills. The exact locations should be spotted using the HLFM data. Drill targets should be picked from geophysical data where overburden drilling was not useful.

Respectfully submitted,

Rob Abernethy

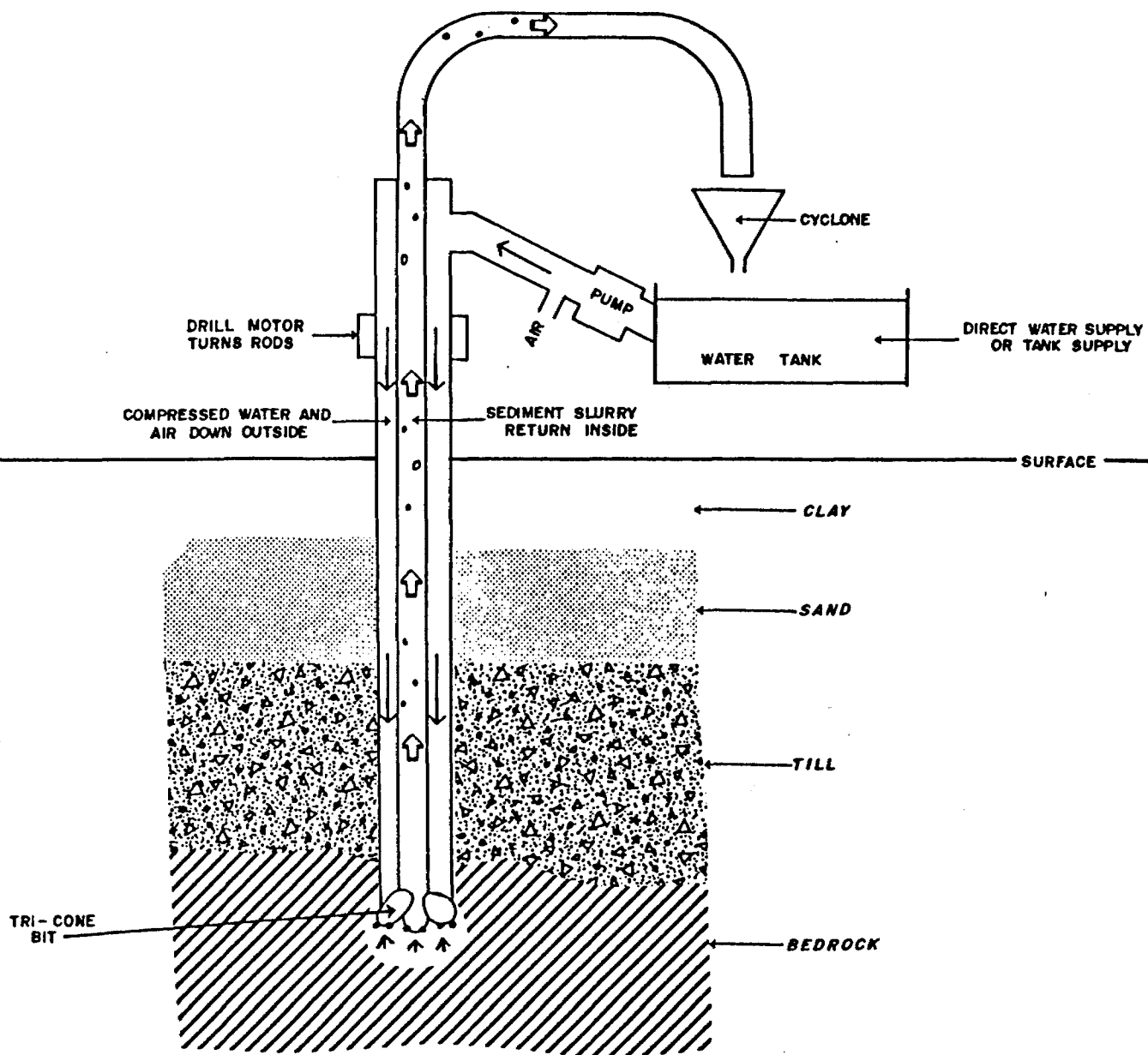
Robert K. Abernethy, B.A.Sc.

A P P E N D I X

DRILLING METHODS

Heath and Sherwood's reverse circulation system employs a hydraulic drill on a nodwell mounted, fully enclosed platform. A GF 1000 also carried a 500 gallon water tank to supply the drill with water. Winter roads were cut between some holes.

Reverse circulation drilling employs a mixture of compressed air and water as the drilling fluid to ensure that the sample returns to the surface instantly. The air-water mixture is forced down the outer rod to the bit face where it aids the tri-cone bit in disaggregating sediment. The new slurry is, in turn, forced up the inner tube between the bit cones and returns to the surface. Ten foot rods with 2.75 inch diameters were employed, with a 2.94 inch tri-cone bit and "sub" adapter.



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	Title		
	The Reverse Circulation Overburden Drill System		
	Fig. 4		
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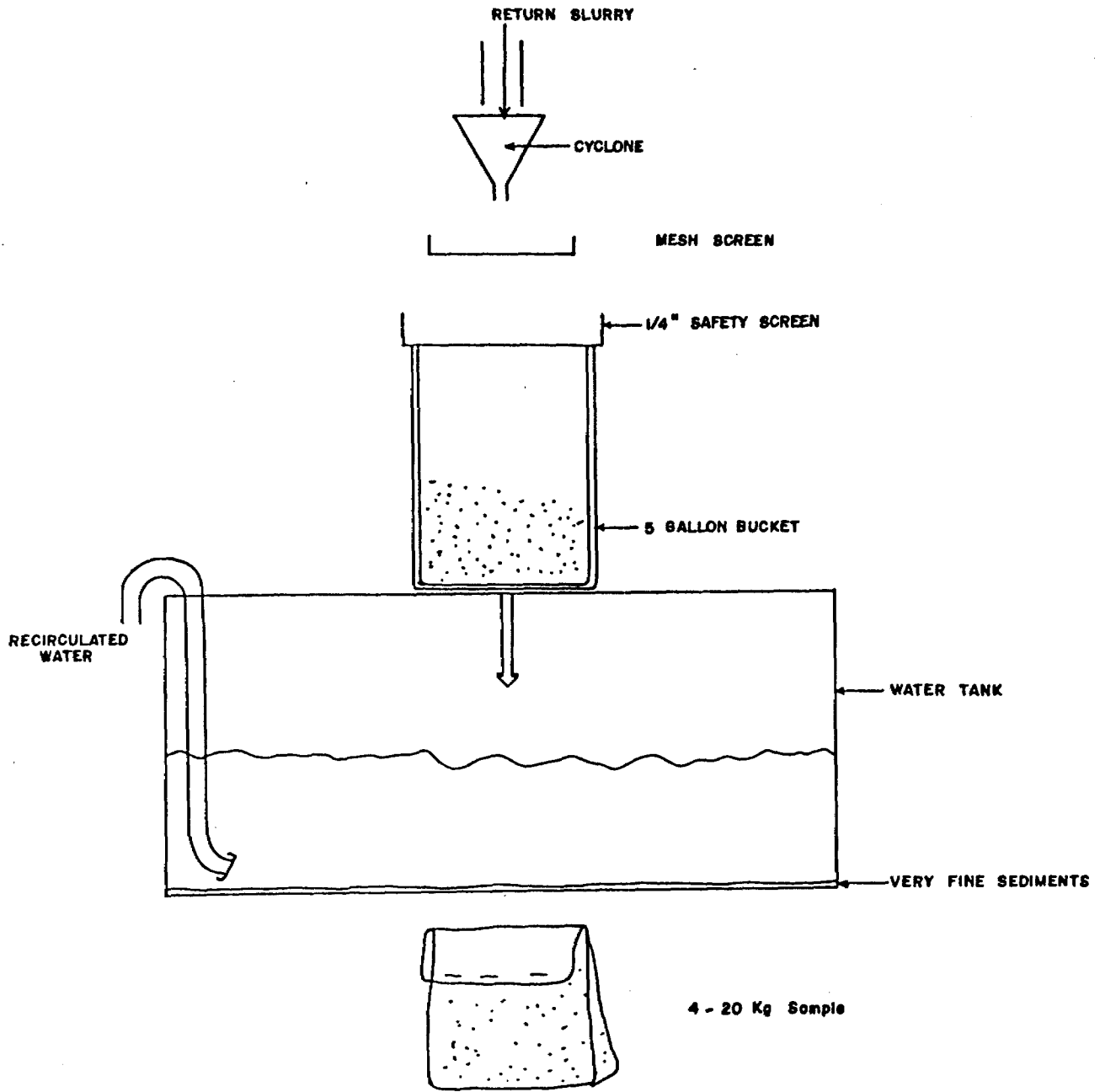
SAMPLE COLLECTION

A continuous return slurry must be logged and sampled where appropriate (Figure 3). The high pressure return slurry is fed into a cyclone above the sampling table in order to reduce hydraulic head so that it falls gently onto the sampling tray. A five gallon bucket is placed below the cyclone to retain solids. When sampling, a 10 mesh screen was used to separate + 10 mesh material (usually rock chips) from the finer silt. A large plastic sample bag was placed inside the 5 gallon bucket when sampling. Most solids settle to the bottom of the bag, except for very fine or light material. Water overflows the bucket and is recaptured in the settling tank where almost all fines are removed. The water may be recirculated if water is scarce.

Most of the + 10 mesh chips are discarded as they are multimineraleic and are an unsuitable medium from which to prepare heavy mineral concentrates (Averill and Thompson, 1981). The - 10 mesh fines are sampled in tills or in disputable glaciofluvial units. Sampling begins as soon as till is recognized and samples taken at 5 foot intervals, or when changes in stratigraphy are recognized, or when the sample bag becomes full. Between 4 and 20 kilograms of sample are taken with the average mass being about 10 kilograms.

The drill holes extended 2 to 10 feet into the underlying bedrock. The bedrock did not exhibit any changes in lithology

over 2 to 10 feet so a single sample of bedrock was taken. Contrary to overburden samples the + 10 mesh was saved for analysis. This was done because bedrock samples undergo different methods of analysis and also to eliminate extraneous fines that either seep into the bedrock hole at the base or are already in the circulatory system. These fines would contaminate the sample. A small bedrock split was retained for binocular examination.



4 - 20 Kg Sample

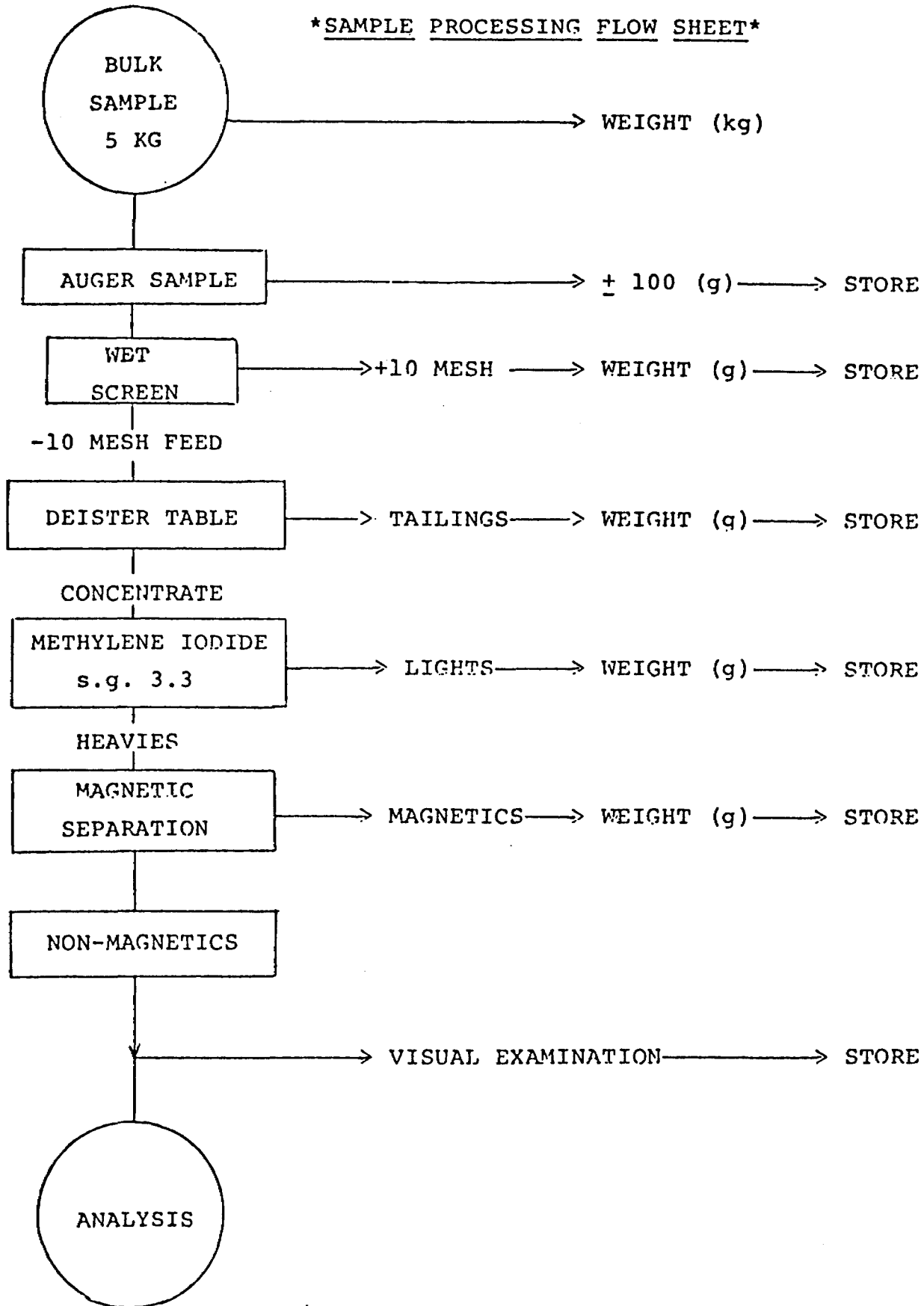
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		for	
		Title	
		SAMPLE COLLECTION	
		Fig. 5	
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SAMPLE PROCESSING

All overburden samples were sent to Assayers (Ontario) Limited for analysis. A summary flowsheet of the sampling process is shown in Figure 6. Upon receiving the samples, they are weighed as received and run over a 10 mesh stainless steel screen. The + 10 mesh is weighed and saved. The - 10 mesh fraction is taken to the table feed (Deister table). A normal table feed for the Deister table is approximately five (5) kilograms. Waterflow, slant and dip are controlled and kept constant for the same type of samples. Two runs are made. In the first run, a large "cut" is taken to ensure that all minerals are collected. This "cut" then rerun, and any material, hornblende and heavier, is collected as concentrate. The Tailings are collected, weighed and saved.

The concentrate is dried, weighed and treated with Methylene Iodide (M.I.) S.S. 3.3, to separate the light silicates. Both heavy and light fractions are dried, weighed, and saved. The heavy concentrates then undergo magnetic separation. The non-magnetics are separated from the heavy concentrate. Both magnetics and non-magnetics are weighed and saved. The non-magnetic heavy concentrate undergoes microscopic examination and gold grains are picked out, described and sized. The remaining non-magnetic heavy concentrate is treated with Aqua Regia and analyzed for Au and As by ICP.

SAMPLE PROCESSING FLOW SHEET



DATE Feb 2/9, 1986 HOLE No. GAO-01 GEOLOGIST RA, PW DRILLER Marcel Lajoie

HOLE LOCATION 16+00 E 3+50 N

BIT No. CB67331 FOOTAGE ON BIT 0

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

Start: 8:40

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES						
0	NR									
7	✕		7' sand - well sorted, well rounded quartz sand pure - no clay clean water return medium grained							
15			15' Clay - hard, brown-grey, gritty 5-10% sand							
20			20' very hard clay - clay balls, cylinders							
32			32' Sand, - well sorted, well rounded - quartz sand.							
40			graded - fine grained to medium grained sand - biotite flakes in sand							
78			78' Very coarse sand → small pebbles - well sorted, well rounded - mostly quartz and granitic rock fragments.							
80-90			80-90 extremely well sorted pebbles - well rounded - clean water (no clay)							
95			95' fine grained sand.							

DATE Feb 14, 1986 HOLE No. GAO-08 GEOLOGIST RA RJ DRILLER ML

HOLE LOCATION 35 + 00 E 5N

BIT No. old FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

START: 7:55

STOP: 11:15

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES					
0			4' Clay - hard, brown, gritty						
10			Very fine silt						
20			34' <u>Gravel Till</u>						
30			45' clay bed						
35		91667	40-50' pebbles increase to 40-50%						
40		91668	Slight increase in local greenstones → 30-40%						
45		91669	50-60' locals still 30-40%						
50		91670	66' size decreases						
55		91671	- chlorite schists (mafic vol) sediments.						
60		91672	- pebbles increase to 40%, sand 40%, cobbles > 5%						
65		91673	- Flow till → limited sorting, still well rounded						
70		91674	94' <u>Bedrock - Biotite, Quartz, amphibole schist</u>						
75		91675	or Biotite, quartz amphibolite						
80		91676	- Similar to GAO-07 except for more biotite						
85		91677	- black, fine grained euhedral amphibole and biotite, granular quartz and silica matrix						
90		91678	- massive or subtle schistosity						
95		91679A	- hard (5.5), gritty, minor chlorite → green patches						
100			- no pyrite, no quartz veining, no carbonatization						

DATE Feb 14, 1986 HOLE No. GAO-12 GEOLOGIST RA - Pw DRILLER ML

HOLE LOCATION 28+00 E 1+75 N

No. CB 67334 FOOTAGE ON BIT 0

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

START: 10:00

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES					
0			4' beige, hard, gritty clay						
10			14' <u>Silt</u>						
20			6" <u>Clay bed</u>						
30			37' Fine grained <u>sand</u>						
45'		91701	45' - <u>Gravel Till</u>						
50'		91702	- moderately well sorted, moderately well rounded						
		91703	- 40% cobbles, 40% pebbles, 20% sand, silt, clay						
60'			- mostly (70%) distal granitoids						
			- 10-20% local volcanics, sediments						
60'			50' - limited sorting						
			- still seeing rounded cists						
			- no increase in locals observed above bedrock						
70'			54.5' <u>Bedrock - Quartz biotite amphibolite</u>						
			- dark grey/black, massive or subtle schistosity						
			- fine grained - euhedral amphibole prisms, biotite flakes give "sparkling" lustre.						
			- aphanitic matrix → silica or quartz grains						
			- minor quartz veining						
			- trace sulphides (pyrite)						
			- moderately hard (w 4.5)						
			- minor chlorite → green patches.						

DATE Feb 14, 1986 HOLE No. GAO-13 GEOLOGIST RA/PW DRILLER ML

HOLE LOCATION 31 + 50E 7+25N

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

START 12:10


DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES				
10			- Clay. brown, hard, gritty					
17			17' - <u>Cobble Till</u>					
20		91704	- moderate sorting, moderately rounded					
		91705	- 60% cobbles, 20% pebbles, 20% sand, silt, clay.					
30		91706	- mostly distal, granitoids, paleozoic diabase, exotic vol					
		91707	- 10% local sediments					
40		91708	21.5' - armoured clay balls					
		91709	- still mostly granitic, 90% exotic					
		91710	- still limited sorting					
50		91711	47' - Clay balls. 40% local greenstones					
		91712	- locals decrease					
60		91713	60' - Locals increase to 40% (dark grey amphibolite)					
70		91714	69' - <u>Pebble Till</u>					
		91715	- general size decrease					
80		91716	75' - 40% local					
		91717	80' - <u>Pebble Clay Till</u>					
		91718	- 30% pebbles, sand, silt					
90		91719	89' - 40% local pebbles					
			- increased angularity					
100			89' - <u>Cobble Till</u>					
			- 40% locals,					
			- 50% cobbles.					

DATE _____ HOLE No. GAC-13 / 2 GEOLOGIST _____ DRILLER _____

HOLE LOCATION _____

TEST No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES				
100			<p>100' - <u>Bedrock - 1. Quartz Biotite Schist (metasediment)</u></p> <ul style="list-style-type: none"> - fine grained, dark grey, silica matrix - massive or subtle schistosity, minor pyrite 					
110			<p>102' - <u>2. Alteration Zone - Quartz vein</u></p> <ul style="list-style-type: none"> - 2-3" Quartz vein - bleached rock 6" on either side - pale green, ± sericite or muscovite - 1% pyrite 					
			<p>103' - <u>3. Graphitic Argillite (?)</u></p> <ul style="list-style-type: none"> - dark grey / black, soft, ephanitic, massive - 2-5% pyrite 					

DATE Feb 15, 1986 HOLE No. GAO-15 GEOLOGIST RA PJ DRILLER M1

HOLE LOCATION 22 + 50 E 23 + 75 S

TEST No. L00046 FOOTAGE ON BIT 0

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

START 2:10

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES					
100			Silt with interbedded clay						
110									
120		91742 91743 91744	116' - <u>Regolith or lodgement fill</u> - 90% chlorite schist, 10% distal material - also clay balls. may be bedrock						
130			120' - <u>Bedrock (?) Chlorite Schist (Intermediate Volcanic)</u> - dark green, good cleavage, laminated, hard (vs) - fine grained tuff fragments, aphanitic matrix - recrystallized and stretched, bedded -> laminated - lapilli sized fragments observed - minor pyrite - very minor quartz veining - still 5% fill material in sample						
140									
150									
160									
170									
180									
190									
200									

121' EOH.

DATE Feb 17, 1986 HOLE No. GA0-21 GEOLOGIST RA PW DRILLER ML

HOLE LOCATION L26E 22+00 S

T No. SAME FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

START 5:50

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES						
0										
10	*									
13	CLAY		13' Clay - hard, brown, gritty							
20	CLAY									
30	CLAY		30' Clay - soft, grey							
40	CLAY									
50	CLAY									
60	CLAY									
70	SILT		Silt with interbedded clay							
80	SILT									
89.5	PEBBLE TILL		89.5 <u>Pebble Till</u>							
91.774	PEBBLE TILL	91774	- subangular, limited sorting (Flow till)							
91.775	PEBBLE TILL	91775	- 30-40% local dark grey aphanitic schist							
91.776	PEBBLE TILL	91776	- 10% cobbles, 60% pebbles, 30% sand silt → no clay							
100	PEBBLE TILL		- alternating bands of quartz sand and pebbles to gravel till							

DATE Feb 18, 1986 HOLE No. GA0-21 GEOLOGIST RA PW DRILLER ML

HOLE LOCATION L26E 22+00 S

No. SAME FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

START 6:50



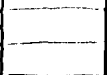

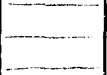
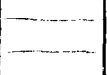

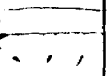

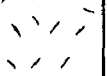
DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES				
100		91777	100-110 - Gravel Till to Sandy Till					
		91778	mostly distal material					
		91779	20-40% local probably Flow till					
110		91780	Sandy Till causes sample bags to fill rapidly. Subangular to subrounded.					
		91781	No clay					
		91782	Clear water - similar to glaciofluvial					
120		91783	116 Well sorted, well rounded					
		91784						
		91785						
130		91785						
		91786	134 - Regolith or Lodgement till					
		91787A	- extremely high percentage of locals (90%)					
140			138' Bedrock - Chlorite amphibole schist (mafic volcanic)					
		- dark grey/black to dark green						
		- Very fine grained amphibole						
		- chloritic patches cause green patches						
		- subtle schistosity						
		- trace pyrite						
		- hardness (~4.5)						
150		- no quartz veining						

DATE Feb 18, 1966 HOLE No. GAO-22 GEOLOGIST RA PO DRILLER ML

HOLE LOCATION 24+75S 28+25E 24+75E 16+25S

No. 1000447 FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES				
10			10' Clay - hard, brown, gritty					
20			20' Clay - soft, grey, pure.					
30								
40								
50								
60								
70			Silt; with interbedded clay.					
80								
90								
100								

DATE Feb 18, 1986 HOLE No. GRD. 24 GEOLOGIST RA - PW DRILLER ML

HOLE LOCATION L 28+25E 24+65 S

No. SAME FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES					
100		91823	99' - <u>Gravel Till</u> - 20% cobbles, 30% pebbles, 30% sand, 20% silt and clay. - 40% local clasts. (black, ophanitic schist)						
		91824	- subangular, unsorted						
110		91825	111' - <u>Granitic boulder</u>						
		NO SAMPLE							
		91826	116' - <u>Clay</u> - pure grey clay - returns as clay balls - 5-10% sand and silt - hard, fissile clay "chips" at 121'						
120		91827	122' <u>Gravel Till</u>						
130		91828	- 20% cobbles, 40% pebbles, 30% sand, 10% silt and clay. - unsorted, angular						
		91829	- 60% local clasts, mafic to intermediate volcanics and metasediment.						
140		91830	149' - <u>Bedrock (?) Highly altered weathered Gossen</u>						
		91831	- pale green (chloritic) <u>clay</u> with small (1-3mm) chips of highly altered schistose rock						
150		91832A	- quartz veining - no sulphides observed.						

DATE Feb 21, 1981 HOLE No. GAD-28 GEOLOGIST RA PW DRILLER ML

HOLE LOCATION 42+30E 24+25S

BIT No. SAME FOOTAGE ON BIT 23'

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES					
10			12' - <u>Clay</u> - hard, brown, gritty						
20			17' - <u>Clay</u> : soft, grey, pure.						
30									
40									
50									
60			59.5' - <u>Rubble Till</u> - 60% pebbles, 40% sand, silt - mostly subrounded, moderately sorted, distal, durable clasts						
70		91816							
80		91898	30% locals						
85		91899	80' - <u>Gravel Till</u> - 40-50% local volcanics, 5-10% local sediments.						
88		91900							
90		91901							
92		91902	93' - <u>Clay bed</u> - 20-30% pebbles, sand						
95		91903							
100			97' - <u>Gravel Till</u> - high local contents. (70% volcanics)						

DATE Feb 24, 1986 HOLE No. G90-30 GEOLOGIST RA RW DRILLER ML

HOLE LOCATION _____

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES					
100		91833	<u>Pebble Till</u> 50% pebbles, 50% sand, silt						
		91834	107' - <u>Sandy Till</u> 80% sand silt						
110		91835	115' - <u>Pebble Till</u> well sorted, well rounded						
		91836							
		91837							
		91838							
		41839							
130		91840							
		91841		- local volcanics increase to 30%					
140		91842	143 -	- Black/grey water - basal clay.					
		91843A		- Graphitic rock chips.					
150			145' -	<u>Bedrock - Graphitic Argillite</u> - black, well laminated (fine laminations) - aphanitic - 1-3% disseminated, very fine grained, euhedral pyrite - no quartz veining - soft (3.5) but not as soft as graphite.					

***** OVERBURDEN EXPLORATION SERVICES LTD. *****

L A B O R A T O R Y R E P O R T

Notes

- 1) Bulk, +10 Mesh, and Table Feed weights are reported in kg (wet).
- 2) Mag, Non Mag and M.I. weights are reported in grams (dry).
- 3) Panning results (see separate sheet), as prepared by R. Maass, are percentage estimates of the table concentrates.



Sample No.	Bulk	+10 Mesh	Table Feed	Table Conc	Mags	NonMags	M.I.Heav	M.I.Lites	V.G.Table	V.G.Pan	Other Remarks
91653	15.33	.83	14.50	24.69	9.52	15.17	9.98	5.19			
91654	11	.59	10.41	131.29	8.29	123	14.51	108.49			
91655	8	.47	7.53	25.38	7.90	17.48	12.05	5.43			
91657	17.61	.03	17.58	55.60	16.57	39.03	31.49	7.54			
91658	6.95	.30	6.65	22.57	5.98	16.59	12.01	4.58			
91659	12.49	.12	12.37	45.67	11.97	33.70	17.60	16.10			
91662	10.22	.17	10.05	30.25	12.57	17.68	11.55	6.13			
91663	5.15	.21	4.94	43.99	11.72	32.27	11.86	20.41			
91665	8.82	.02	8.80	35.22	10.19	25.03	8.10	16.93			
91667	14.30	.03	14.27	32.39	13.98	18.41	12.25	6.16			
91668	14.34	.31	14.03	42.65	15.31	27.34	17.75	9.59			
91669	16.67	.06	16.61	45.14	15.79	29.35	15.11	14.24			
91670	15.58	.05	15.53	41.39	13.19	28.20	18.46	9.74			
91671	16.03	.05	15.98	44.18	17.18	27	19.94	7.06			
91672	18.47	.13	18.34	42.72	12.08	30.64	17.59	13.05			
91673	16.80	.17	16.63	64.06	17.71	46.35	28.81	17.54			
91674	14.73	.02	14.71	75.53	19.40	56.13	23.69	32.44			
91675	10.10	.04	10.06	68.47	25.54	42.93	15.43	27.50			
91676	7.18	.02	7.16	30.56	8.44	22.12	10.10	12.02			
91677	4.25	.06	4.19	21.81	3.50	18.31	10.11	8.20			
91678	7.19	.06	7.13	36.56	7.82	28.74	15.85	12.89			
91681	7.46	.03	7.43	53.99	9.84	44.15	28.22	15.93			
91682	16.28	.07	16.21	93.28	24.68	68.60	34.64	33.96			
91683	16.39	.11	16.28	158.71	19.09	139.62	59.81	79.81			
91684	10	.46	9.54	77.60	10.41	67.19	29.04	38.15			
91685	11.87	.35	11.52	122.85	14.55	108.30	43.01	65.29			
91686	10.09	.10	9.99	71.50	12.26	59.24	27.08	32.16			
91687	19.37	.15	19.22	58.96	10.96	48	19.12	28.88			
91691	10.52	.06	10.46	113.09	11.64	101.45	31.78	69.67			
91692	9.19	.29	8.90	80.59	10.14	70.45	22.48	47.97			
91693	11.61	.18	11.43	60.77	15.99	44.78	21.50	23.28			
91694	7.94	.12	7.82	80.67	10.36	70.31	24.65	45.66			
91701	11.12	.11	11.01	91.28	30.26	61.02	33.62	27.40			
91702	15.48	.10	15.38	116.66	35.91	80.75	34.30	46.45			
91710	5.30	.05	5.25	73.89	6.70	67.19	16.39	50.80			
91711	4.82	.06	4.76	32.81	2.94	29.87	9.65	20.22			
91712	14.47	.21	14.26	82.53	37.93	44.60	21.59	23.01			
91713	7.87	.02	7.85	40.96	5.96	35	13.50	21.50			
91714	12.69	.05	12.64	49.54	16.18	33.36	17.56	15.80			
91715	9.74	.08	9.66	57.60	20.48	37.12	19.41	17.71			
91716	15.18	.33	14.85	126	48.90	77.10	34.71	42.39			
91717	16.21	.13	16.08	67.75	21.72	46.03	27.32	18.71			
91718	9.35	.07	9.28	29.53	9.53	20	10.76	9.24			
91719	17.09	.07	17.02	72.90	13.97	58.93	17.81	41.12			
91720	15.95	.03	15.92	160.36	25.91	134.45	45.88	88.57			
91721	5.07	.03	5.04	176.92	28.49	148.43	50.14	98.29			
91730	4.50	.05	4.45	106.38	6.32	100.06	19.80	80.26			
91731	6.68	.03	6.65	103.93	11.79	92.14	35.48	56.66			
91732	5.98	.03	5.95	49.59	12.40	37.19	28.32	8.87			
91733	6.25	.03	6.22	43.96	9.36	34.60	23.28	11.32			
91734	8.62	.10	8.52	73.39	15.10	58.29	40.88	17.41			
91735	14.96	.08	14.88	114.27	37.37	76.90	58.19	18.71			

Sample No.	Bulk	+10Mesh	TableFeed	TableConc	Mags	NonMags	M.I.Heav	M.I.Lites	V.G.Table	V.G.Fan	Other Remarks
91736	7.25	.01	7.24	66.81	12.58	54.23	34.24	19.99			
91737	10.55	.02	10.53	96.72	22.63	74.09	55.61	18.48			
91738	15.42	.05	15.37	161.48	16.75	144.73	65.09	79.64			
91739	4.03	.05	3.98	56.44	2.36	54.08	15.36	38.72			
91740	5.68	.14	5.54	101.42	28.62	72.80	48	24.80			
91742	21.10	.24	20.86	103.82	20.74	83.08	61.70	21.38			
91743	17.85	.05	17.80	68.02	17.10	50.92	32.61	18.31			
91745	17.25	.31	16.94	154.49	22.34	132.15	96.02	36.13			
91746	16.94	.10	16.84	202.27	25.54	176.73	96.10	80.63			
91748	16.90	.22	16.68	97.82	31.04	66.78	52.90	13.88			
91749	19.53	.11	19.42	132.39	43.73	88.66	62.11	26.55			
91756	9.55	.04	9.51	70.02	6.62	63.40	36.29	27.11			
91757	15.93	0	15.93	127.33	11.50	115.83	73.59	42.24			
91758	16.82	.01	16.81	176.23	18.80	157.43	83.93	73.50			
91759	17.29	.02	17.27	108.46	15.56	92.90	74.74	18.16			
91760	14.46	.02	14.44	179.21	12.01	167.20	59.31	107.89			
91761	12.05	.02	12.03	165.24	13.49	151.75	58.07	93.68			
91762	14.23	.15	14.08	210.78	9.12	201.66	61.59	140.07			
91763	16.75	.15	16.60	251.96	15.26	236.70	80.41	156.29			
91764	7.85	.09	7.76	75.18	5.23	69.95	30.72	39.23			
91766	15.57	.13	15.44	88.67	22.79	65.88	34.38	31.50			
91768	14.11	.06	14.05	130.64	15.81	114.83	43.98	70.85			
91769	17.13	.07	17.06	347.38	28.86	318.52	71.21	247.31			
91770	16.29	.13	16.16	73.49	20.66	52.83	36.69	16.14			
91771	5.05	.03	5.02	93.42	7.23	86.19	17.29	68.90			
91773	4.20	.04	4.16	71.04	4.94	66.10	15.92	50.18			
91779	18.07	.15	17.92	215.12	36.41	178.71	84.82	93.89			
91780	15.72	.04	15.68	185.05	36.36	148.69	63.05	85.64			
91781	9.54	.05	9.49	117.24	19.29	97.95	35.12	62.83			
91782	5.36	.17	5.19	37.62	2.46	35.16	9.08	26.08			
91783	9.17	.43	8.74	86	4.78	81.22	20.30	60.92			
91784	16.85	.48	16.37	113.63	17.98	95.65	51.93	43.72			
91785	15.62	.62	15	159.04	31.38	127.66	59.15	68.51			
91786	15.88	.14	15.74	107.68	13.59	94.09	34.23	59.86			
91787	18.03	.02	18.01	121.16	14.16	107	45.29	61.71			
91788	10.73	.02	10.71	75.13	9.47	65.66	29.39	36.27			
91790	18.18	.11	18.07	179.75	18.66	161.09	43.98	117.11			
91791	12.94	.06	12.88	133.77	15.18	118.59	41.93	76.66			
91792	12.87	.03	12.84	196.56	23.51	173.05	50.98	122.07			
91793	11.47	.04	11.43	147.72	16.43	131.29	57.97	73.32			
91794	15.30	.02	15.28	230.62	22.18	208.44	70.43	138.01			
91795	12.43	.21	12.22	160.81	14.42	146.39	41.23	105.16			
91796	14.33	.06	14.27	177.12	25.43	151.69	51.27	100.42			
91798	10.30	.11	10.19	185.77	17.76	168.01	78.69	89.32			
91799	15.70	.19	15.51	225.63	25.53	200.10	91.03	109.07			
91800	14.46	.80	13.66	147.75	24.23	123.52	62.95	60.57			
91801	14.32	.15	14.17	119.05	20.95	98.10	62.75	35.35			
91802	12.51	.03	12.48	144.91	18.06	126.85	74.85	52			
91803	9.87	.03	9.84	113.21	12.86	100.35	51.61	48.74			
91804	11.27	.03	11.24	101.17	14.79	86.38	46.39	39.99			
91805	13.09	.11	12.98	161.46	18.31	143.15	71.07	72.08			
91806	10.20	.06	10.14	108.83	13.06	95.77	59.69	36.08			

Sample No.	Bulk	+10Mesh	TableFeed	TableCon	Mags	NonMags	M.I.Heav	M.I.Lites	V.G.Table	V.G.Pan	Other Remarks
91807	9.82	.02	9.80	122.72	13.40	109.32	66.28	43.04			
91808	4.86	.04	4.82	60.65	4.54	56.11	25.43	30.68			
91809	10.63	.08	10.55	143.49	13.02	130.47	73.86	56.61			
91821	11.67	.06	11.61	137.98	17.55	120.43	76.51	43.92			
91822	12.35	.01	12.34	133.69	20.30	113.39	64.68	48.71			
91833	13	.15	12.85	91.42	17.20	74.22	51.82	22.40			
91838	6.84	.01	6.83	48.53	6.13	42.40	28.71	13.69			
91839	7.31	.01	7.30	110.32	10.03	100.29	27.19	73.10			
91840	7.78	.03	7.75	67.25	7.94	59.31	38.08	21.23			
91841	11.80	.04	11.76	150.04	22.59	127.45	45.44	82.01			
91842	14.84	.09	14.75	84.79	10.77	74.02	47.17	26.85			
91843	8.99	.20	8.79	71.74	10.58	61.16	29.92	31.24			
91844	13.81	.03	13.78	125.47	20.63	104.84	53.51	51.33			
91845	12.71	.03	12.68	209.41	24.39	185.02	92.23	92.79			
91846	13.30	.12	13.18	130.67	21.97	108.70	80.34	28.36			
91847	14.11	.06	14.05	207.08	33.29	173.79	92.16	81.63			
91850	1.88	.01	1.87	65.87	5.08	60.79	16.92	43.87			
91851	1.97	.01	1.96	39.02	12.49	26.53	10.50	16.03			
91864	9.98	.02	9.96	145.41	15.04	130.37	66.84	63.53			
91865	9.43	.02	9.41	193.02	34	159.02	105.43	53.59			
91866	10.05	.03	10.02	133.16	15.46	117.70	53.74	63.96			
97867	15.15	.10	15.05	98.11	26.06	72.05	51.22	20.83			
91868	12.92	.16	12.76	96.10	18.07	78.03	56.69	21.34			
91869	14.91	.03	14.88	140.47	22.09	118.38	82.72	35.66			
91870	15.64	.03	15.61	106.57	22.57	84	62.47	21.53			
91871	11.54	.04	11.50	56.72	16.12	40.60	23.91	16.69			
91872	13.33	.16	13.17	193.09	17.30	175.79	97.83	77.96			
91873	12.72	.07	12.65	170.15	16.30	153.85	46.50	107.35			
91874	11.17	.03	11.14	91.27	18.38	72.89	44.90	27.99			
91882	13.90	.04	13.86	91.46	19.77	71.69	44.79	26.90			
91883	13.05	.03	13.02	165.18	14.47	150.71	53.96	96.75			
91884	12.48	.02	12.46	167.48	18.86	148.62	77.17	71.45			
91885	11.24	.11	11.13	104.80	11.27	93.53	47.29	46.24			
91886	10.62	.05	10.57	75.25	8.81	66.44	25.60	40.84			
91887	14.23	.04	14.19	186.56	25.93	160.63	67.57	93.06			
91888	12.97	.04	12.93	198.32	20.08	178.24	55.50	122.74			
91889	13.61	.02	13.59	131.33	34.98	96.35	44.40	51.95			
91890	6.31	.02	6.29	103.26	8.46	94.80	38.65	56.15			
91891	14.37	.02	14.35	203.61	21.16	182.45	79.57	102.88			
91893	12.10	.06	12.04	194.50	17.07	177.43	58.44	118.99			
91894	13.97	.07	13.90	187.87	22.84	165.03	65.11	99.92			
91895	6.71	.08	6.63	122.53	9.69	112.84	33.59	79.25			
91896	15.13	.25	14.88	159.05	23.79	135.26	54.45	80.81			
91898	12.63	.11	12.52	84.54	24.45	60.09	40.16	19.93			
91899	15.48	.15	15.33	163.34	29.08	134.26	75.24	59.02			
91900	14.08	.30	13.78	147.54	16.04	131.50	117.73	13.77			
91901	10.83	.19	10.64	152	32.24	119.76	105.13	14.63			
91902	11.24	.35	10.89	106.04	26.91	79.13	69.02	10.11			
91903	10.34	.07	10.27	104.76	14.17	90.59	70.07	20.52			
91910	13.62	.09	13.53	118.82	19.76	99.06	85.37	13.69			
91911	11.68	.08	11.60	135.55	23.12	112.43	90.91	21.52			
91912	14.47	.01	14.46	209.79	25.99	183.80	64.72	119.08			

Sample No.	Bulk	+10Mesh	TableFeed	TableConc	Mags	NonMags	M.I.Heav	M.I.Lites	V.G.Table	V.G.Pan	Other Remarks
91913	10.37	.03	10.34	112.52	23.80	88.72	35.71	53.01			
91914	8.74	.09	8.65	87.18	12.29	74.89	35.95	38.94			
91915	10.01	.21	9.80	50.68	9.79	40.89	29.33	11.56			
91916	12.88	.11	12.77	170.27	17.39	152.88	77.08	75.80			
91917	12.81	.05	12.76	173.91	15.03	158.88	55.29	103.59			
91918	13.49	.03	13.46	184.96	16.60	168.36	58.56	109.80			
91919	11.44	.06	11.38	183.92	16.60	167.32	63.29	104.03			
91920	11.14	.18	10.96	78.80	17.87	60.93	46.27	14.66			
91921	11.03	.02	11.01	134.50	16.13	118.37	55.01	63.36			
91923	8.62	.04	8.58	117.54	11.92	105.62	51.86	53.76			
91924	13.66	.06	13.60	206.86	19.97	186.89	83.19	103.70			
91925	14.85	.16	14.69	300.83	21.76	279.07	85.23	193.84			
91926	12.57	.03	12.54	187.45	17.81	169.64	68.14	101.50			
91927	12.49	.06	12.43	232.03	19.43	212.60	34.40	178.20			
91928	14.14	.05	14.09	184.11	22.48	161.63	71.17	90.46			
91929	12.46	.31	12.15	237.92	16.76	221.16	73.76	147.40			
91930	11.49	.07	11.42	204.26	15.06	189.20	95.77	93.43			
91931	14.23	.09	14.14	277.70	19.51	258.19	108.88	149.31			
91932	13.84	.02	13.82	192.41	15.87	176.54	73.69	102.85			
91933	14.11	.10	14.01	223.18	18.62	204.56	91.10	113.46			
91934	11.59	.07	11.52	195.28	15.31	179.97	77.31	102.66			
91935	13.17	.03	13.14	221.93	16.13	205.80	95.30	110.50			
91936	12	.18	11.82	91.20	15.12	76.08	43.17	32.91			
91937	11.61	.02	11.59	172.09	16.27	155.82	72.64	83.18			
91938	9.54	.15	9.39	139.79	13.75	126.04	64.32	61.72			
91939	14.33	.15	14.18	175.46	24.27	151.19	82.24	68.95			
91940	14	.05	13.95	150.08	21.16	128.92	78.48	50.44			
91941	12.11	.13	11.98	135.40	15.72	119.68	72.93	46.75			
91942	15.48	.51	14.97	195.95	14.15	181.80	106.95	74.85			
91944	9.59	.10	9.49	124.34	15.35	108.99	46.38	62.61			
91945	13.08	.05	13.03	166.67	20.82	145.85	80.73	65.12			
91946	11.48	.18	11.30	158.05	17.50	140.55	69.42	71.13			
91947	11.58	.02	11.56	110.04	8.53	101.51	46.82	54.69			
91948	12.15	.01	12.14	157.36	10.76	146.60	63.79	82.81			
91949	12.38	.05	12.33	107.14	11.02	96.12	65.64	30.48			
91950	11.72	.01	11.71	108.88	14.22	94.66	79.02	15.64			
91951	14.98	.05	14.93	209.16	20.05	189.11	116.95	72.16			
91952	14.07	.07	14	173.13	19.85	153.28	80.68	72.60			
91953	15.14	.15	14.99	182.60	19.81	162.79	98.43	64.36			
91954	12.81	.06	12.75	162.16	13.56	148.60	70.75	77.85			

OVERBURDEN EXPLORATION SERVICES LTD.

P.O. BOX 1044

33 IROQUOIS ROAD

TIMMINS, ONTARIO

GOLD GRAINS OBSERVED ON SHAKER TABLE AND SUPERFANNER

Sample Number	No. of Gold Grains	Sulphides Observed	+10 Mesh Lithology Estimate
91653	NO V.G.	< 1% SUBHED. PY.	
54	"	"	
55	"	"	
57	"	"	
58	"	"	
59	"	"	
62	"	"	
63	"	"	
64	"	"	
67	"	"	
68	"	"	
69	"	"	
70	"	"	
71	"	"	
72	"	"	
73	"	"	
74	"	"	
75	"	"	
76	"	"	
77	"	"	
78	"	"	
81	"	"	
82	"	"	
83	"	< 1% SUBHED. PY. AND CUBIC PY.	
84	"	< 1% SUBHED. PY.	
85	"	"	
86	"	"	
87	"	"	

GOLD GRAINS OBSERVED ON SHAKER TABLE AND SUPERFANNER

Sample Number	No. of Gold Grains	Sulphides Observed	+10 Mesh Lithology Estimate
91691	NO U.G.	< 1% Sphered. Py.	
92	"	"	
93	"	"	
94	"	"	
91701	"	"	
02	"	"	
10	"	"	
11	"	"	
12	"	"	
13	"	"	
14	"	"	
15	"	"	
16	"	"	
17	"	"	
18	"	"	
19	"	"	
20	"	"	
21	"	"	
30	"	"	
31	"	"	
32	"	"	
33	"	"	
34	"	"	
35	"	"	
36	"	"	
37	"	"	
38	"	"	
24	"	"	

GOLD GRAINS OBSERVED ON SHAKER TABLE AND SUPERFANNER

Sample Number	No. of Gold Grains	Sulphides Observed	#10 Mesh Lithology Estimate
91785	NO U.G.	< 1% Py.	
86	"	< 1% Py.	
87	"	< 1% Py.	
88	"	< 1% Py.	
90	"	< 1% Py.	
91	"	< 1% Py.	
92	"	< 1% Py.	
93	"	< 1% Py.	
94	"	< 1% Py.	
95	"	< 1% Py.	
96	"	< 1% Py.	
98	"	< 1% Py.	
99	"	< 1% Py.	
800	"	< 1% Py.	
01	"	< 1% Py.	
02	"	< 1% Py.	
03	"	< 1% Py.	
04	"	< 1% Py.	
05	"	< 1% Py.	
06	"	< 1% Py.	
07	"	< 1% Py.	
08	"	< 1% Py.	
09	"	< 1% Py.	
21	"	< 1% Py.	
22	"	< 1% Py.	
33	"	< 1% Py.	
38	"	< 1% Py.	
20	"	< 1% Py.	

GOLD GRAINS OBSERVED ON SHAKER TABLE AND SUPERPANNER

Sample Number	No. of Gold Grains	Sulphides Observed	+10 Mesh Lithology Estimate
91840	NO V.G.	< 1% Py.	
41			
42			
43			
44			
45			
46			
47			
50			
51			
64			
65			
66			
67			
68			
69			
70			
71			
72			
73			
74			
82			
83			
84			
85			
86			
87			
88			

GOLD GRAINS OBSERVED ON SHAKER TABLE AND SUPERFANNER

Sample Number	No. of Gold Grains	Sulphides Observed	+10 Mesh Lithology Estimate
91889	NO U.G.	< 1% Py.	
90	"	"	
91	"	"	
93	"	"	
94	"	"	
95	"	"	
96	"	"	
98	"	"	
99	"	"	
91900	"	"	
01	"	"	
02	"	"	
03	"	"	
10	"	"	
11	"	"	
12	"	"	
13	"	"	
14	"	"	
15	"	"	
16	"	"	
17	"	"	
18	"	"	
19	"	"	
20	"	"	
21	"	"	
23	"	"	
24	"	"	
25	"	"	

GOLD GRAINS OBSERVED ON SHAKER TABLE AND SUPERFANNER

Sample Number	No. of Gold Grains	Sulphides Observed	+10 Mesh Lithology Estimate
91926	NO V.G.	< 1% Py.	
27	"	"	
28	"	"	
29	"	"	
30	"	"	
31	"	"	
32	"	"	
33	"	"	
34	"	"	
35	"	"	
36	"	"	
37	"	"	
38	"	"	
39	"	"	
40	"	"	
41	"	"	
42	"	1-2% Py.	
44	"	< 1% Py.	
45	"	"	
46	"	"	
47	"	"	
48	"	"	
49	"	"	
50	"	"	
51	"	"	
52	"	"	
53	"	"	
54	"	"	

CERTIFICATE OF ANALYSIS

TO: GLEN AUDEN RESOURCES
ATTN: ROBERT K. ABERNETHY
P.O. BOX 1637
TIMMINS, ONTARIO
P4N 7W8

CUSTOMER NO. 1281

DATE SUBMITTED
22-MAY-86

REPORT 28177

REF. FILE 23565-D2

196 HEAVY MINERALS

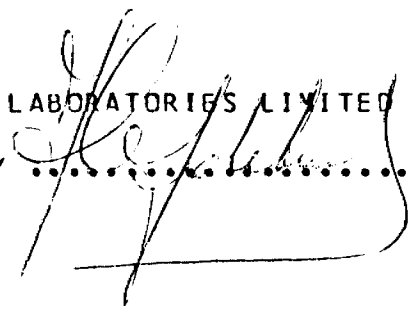
WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	NA	5.000
NA %	NA	0.050
CA %	NA	1.000
SC PPM	NA	0.100
CR PPM	NA	10.000
FE %	NA	0.020
CO PPM	NA	5.000
NI PPM	NA	200.000
ZN PPM	NA	50.000
AS PPM	NA	2.000
SE PPM	NA	5.000
MO PPM	NA	5.000
AG PPM	NA	5.000
SB PPM	NA	0.200
BA PPM	NA	100.000
LA PPM	NA	1.000
LU PPM	NA	0.100
HF PPM	NA	1.000
TA PPM	NA	1.000
W PPM	NA	4.000
TH PPM	NA	0.500
U PPM	NA	0.500
WEIGHT GM		0.010

X-RAY ASSAY LABORATORIES LIMITED

DATE 26-JUN-86

CERTIFIED BY



NOTE: DETECTION LIMITS ARE VARIABLE DUE TO THE
NATURE OF THE SAMPLE.

SAMPLE	AU PPB	NA %	CA %	SC PPM	CR PPM	FE %
91653	40	1.00	11	93.9	670	21.9
91654	<16	0.57	6	56.3	360	11.9
91655	<22	0.17	3	73.0	480	22.1
91657	<33	0.64	9	83.6	610	22.2
91658	<25	0.20	<3	84.9	630	21.0
91659	<29	0.93	10	87.7	570	21.1
91662	<28	0.10	5	89.0	750	23.4
91663	230	0.23	<3	67.6	440	21.1
91665	<38	0.17	<6	88.6	840	22.9
91667	<46	0.12	<7	98.8	840	26.5
91668	20	0.74	<9	101.	730	24.7
91669	1500	0.17	9	92.3	720	22.3
91670	<46	1.00	<5	95.9	700	23.0
91671	<50	0.63	<6	96.7	810	25.6
91672	41	0.23	<5	87.3	600	19.4
91673	22	0.99	<6	92.9	630	19.8
91674	<40	0.94	10	93.0	650	19.2
91675	<35	0.30	9	82.3	580	18.7
91676	<25	0.25	5	77.9	530	17.1
91677	<23	0.29	7	83.2	560	17.4
91678	6	0.28	4	72.7	440	15.0
91681	310	1.50	12	80.2	500	17.1
91682	<5	1.10	6	87.1	520	18.3
91683	90	1.00	9	61.8	440	15.7
91684	25	1.10	12	81.4	510	16.8
91685	680	0.48	10	90.7	500	18.3
91686	3300	0.42	9	108.	710	23.3
91687	49	0.32	7	107.	620	24.4
91691	<26	0.49	15	87.3	600	18.9
91692	<20	0.49	7	87.6	620	19.0
91693	<21	0.42	<5	98.0	620	20.4
91694	<18	0.54	8	86.1	490	17.2
91701	18	0.34	<7	103.	690	22.0
91702	200	0.39	10	104.	570	20.5
91710	100	0.61	11	84.1	530	17.0
91711	76	0.32	4	73.5	440	14.6
91712	<19	0.38	7	98.5	540	19.2
91713	<20	0.28	<3	78.6	430	15.6
91714	<21	0.48	9	101.	590	19.9
91715	77	0.41	5	104.	600	20.2
91716	94	0.43	11	105.	590	20.7
91717	<36	0.52	<9	99.7	550	19.9
91718	<21	0.27	<1	78.4	480	16.5
91719	160	0.55	5	91.7	540	18.1
91720	<21	0.52	10	92.0	550	18.4
91721	<20	0.54	8	86.1	500	16.8
91730	14	0.69	12	77.4	490	15.4
91731	290	0.69	10	83.9	520	17.5
91732	6	0.47	7	77.7	420	14.2
91733	<18	0.55	13	77.3	450	14.2

SAMPLE	AU PPB	NA %	CA %	SC PPM	CR PPM	FE %
91734	<19	0.48	9	72.1	430	13.6
91735	<18	0.42	9	67.6	380	13.1
91736	34	0.47	5	76.5	390	14.3
91737	280	0.43	9	75.2	430	14.3
91738	<14	0.70	9	35.6	510	16.3
91739	<16	0.42	5	59.2	370	11.4
91740	<18	0.38	7	53.2	290	23.3
91742	<26	0.32	9	65.0	360	12.5
91743	<25	0.39	<1	85.8	540	17.0
91745	<28	0.27	5	52.6	280	19.2
91746	<86	0.40	<1	55.4	360	15.0
91748	16	0.24	<5	69.3	400	14.9
91749	220	0.24	<5	73.2	450	15.3
91756	29	0.46	8	80.0	430	14.5
91757	<32	0.42	<5	67.4	360	11.9
91758	<20	0.46	7	77.1	460	13.5
91759	40	0.41	7	71.0	360	12.4
91760	<24	0.52	11	56.1	360	10.2
91761	<25	0.53	8	60.8	380	11.5
91762	<25	0.59	9	57.1	290	11.3
91763	22	0.67	8	68.4	350	14.2
91764	<22	0.69	8	84.8	420	15.2
91766	180	0.37	<7	71.1	530	17.0
91768	11	0.44	5	82.8	520	16.6
91769	<29	0.40	10	65.1	370	15.0
91770	8	0.34	<5	95.7	580	18.9
91771	200	0.54	<7	79.6	430	18.3
91773	<18	0.36	5	64.7	410	15.0
91779	27	0.35	<4	77.0	450	15.2
91780	49	0.24	<5	63.8	430	14.8
91781	33	0.37	8	92.7	590	19.8
91782	5500	0.41	5	71.9	460	14.2
91783	<28	0.56	10	101.	640	18.4
91784	<18	0.44	7	81.3	490	15.7
91785	270	0.35	7	68.1	450	15.3
91786	12	0.57	<5	83.2	480	16.5
91787	19	0.51	9	79.0	470	14.6
91788	<23	0.53	7	84.0	500	16.2
91790	13	0.43	8	84.1	500	16.7
91791	25	0.44	<4	82.8	470	16.1
91792	64	0.36	7	72.1	460	14.3
91793	<24	0.31	6	61.1	350	11.0
91794	<28	0.39	12	68.4	420	12.3
91795	5	0.45	6	81.9	500	15.9
91796	77	0.35	10	69.1	350	15.7
91798	<18	0.57	7	77.1	410	14.1
91799	12	0.48	6	76.4	430	14.4
91800	18	0.40	6	62.0	340	12.2
91801	16	0.39	<4	60.7	350	11.6
91802	10	0.37	7	56.4	320	10.4

SAMPLE	AU PPB	NA %	CA %	SC PPM	CR PPM	FE %
91803	72	0.36	4	55.2	330	10.9
91804	74	0.38	<4	57.1	340	11.6
91805	40	0.44	<4	59.9	380	12.2
91806	<14	0.51	8	67.0	420	12.5
91807	10	0.43	7	57.7	310	10.8
91808	<15	0.47	7	72.7	400	12.7
91809	<14	0.51	4	66.1	330	11.6
91821	5	0.41	6	63.1	330	11.5
91822	<22	0.36	5	63.1	360	11.9
91833	<18	0.37	5	77.3	440	14.6
91838	<5	0.41	9	70.2	380	12.6
91839	<16	0.42	12	70.8	430	12.8
91840	<14	0.46	8	70.5	380	14.6
91841	<21	0.50	8	77.2	430	16.1
91842	150	0.50	6	81.7	410	14.8
91843	30	0.45	15	92.1	590	18.0
91844	<5	0.53	5	73.3	400	14.1
91845	170	0.48	<3	71.1	410	14.0
91846	<19	0.42	6	84.5	440	16.5
91847	<19	0.50	9	80.5	450	16.2
91850	4900	0.64	10	100.	660	19.4
91851	<5	0.39	5	65.5	410	12.4
91864	<19	0.58	9	72.8	400	13.1
91865	8	0.44	6	76.7	410	14.7
91866	8	0.56	7	73.4	420	14.1
91867	<19	0.45	8	83.0	400	16.7
91868	<18	0.39	9	74.2	390	14.3
91869	<5	0.51	<4	88.0	490	16.6
91870	<18	0.38	6	74.5	420	14.9
91871	<16	0.47	11	78.5	430	15.3
91872	16	0.53	9	69.8	390	13.5
91873	20	0.44	7	77.9	460	15.9
91874	18	0.38	<4	84.1	470	16.4
91882	<20	0.39	6	82.5	490	16.7
91883	180	0.33	<5	61.4	380	15.5
91884	<24	0.42	<4	63.8	360	12.3
91885	12	0.45	7	71.3	420	13.4
91886	<15	0.40	5	69.9	410	13.6
91887	21	0.39	7	75.2	450	14.8
91888	44	0.40	7	75.2	440	14.7
91889	22	0.31	4	85.1	470	16.6
91890	79	0.52	8	78.0	430	13.9
91891	<18	0.43	<3	67.2	410	12.5
91893	15	0.40	8	63.8	400	12.5
91894	<16	0.37	7	67.7	370	13.4
91895	140	0.52	10	78.7	450	15.0
91896	1400	0.43	<3	69.9	470	15.2
91898	250	0.30	10	86.8	560	18.5
91899	62	0.42	7	74.1	440	14.8
91900	66	1.10	7	58.9	360	11.9

SAMPLE	AU PPB	NA %	CA %	SC PPM	CR PPM	FE %
91901	420	0.95	7	65.9	410	13.7
91902	<23	0.67	5	72.6	470	15.4
91903	<22	1.00	5	55.8	310	10.3
91910	<31	0.85	7	61.1	360	11.9
91911	<26	1.30	6	59.5	360	12.0
91912	80	0.47	5	66.4	380	12.7
91913	30	0.45	<4	82.9	480	15.4
91914	55	0.55	8	82.0	490	14.7
91915	21	0.48	8	88.1	480	15.9
91916	<5	0.56	4	70.9	390	13.5
91917	<21	0.51	6	73.9	470	14.0
91918	<21	0.47	6	74.1	450	13.8
91919	<21	0.42	6	70.9	400	13.1
91920	36	0.38	8	79.3	460	15.2
91921	260	0.48	6	67.2	410	12.7
91923	8	0.47	5	64.8	390	12.3
91924	120	0.61	10	79.2	470	15.1
91925	86	0.62	7	80.0	490	15.4
91926	<25	0.58	8	78.8	470	14.9
91927	88	0.70	6	86.3	540	16.9
91928	39	0.53	9	77.7	470	14.8
91929	13	0.74	8	71.3	430	13.5
91930	<26	0.63	8	71.6	420	13.2
91931	18	0.69	11	68.0	420	13.2
91932	19	0.51	12	71.6	440	13.5
91933	16	0.71	9	74.2	480	14.2
91934	35	0.54	9	73.8	440	13.9
91935	30	0.71	9	76.8	460	14.1
91936	150	0.49	8	82.6	520	16.6
91937	170	0.62	8	72.7	420	14.0
91938	43	0.57	9	71.0	420	13.5
91939	25	0.55	11	70.9	410	13.6
91940	<22	0.52	9	66.9	360	12.8
91941	150	0.47	7	69.7	390	13.2
91942	110	0.54	7	56.0	320	18.7
91944	390	0.46	9	79.8	490	15.9
91945	<24	0.49	7	66.1	380	12.5
91946	320	0.55	7	75.0	460	14.4
91947	9	0.58	7	67.9	410	12.0
91948	6	0.54	7	74.5	440	13.3
91949	<22	0.46	10	72.7	410	12.8
91950	<21	0.43	5	68.3	380	12.9
91951	12	0.97	8	50.9	310	9.88
91952	<25	0.45	<3	69.6	410	13.8
91953	<24	0.51	9	76.8	420	14.3
91954	9	0.46	11	71.2	400	13.7

SAMPLE	CO PPM	NI PPM	ZN PPM	AS PPM	SE PPM	MO PPM
91653	63	<800	340	13	19	<26
91654	47	<500	290	9	<8	<7
91655	110	<600	250	30	7	<5
91657	190	<600	340	44	<27	26
91658	97	<700	400	23	<5	<5
91659	89	<500	230	26	<12	<5
91662	67	<800	280	36	<28	<5
91663	110	600	270	30	<8	6
91665	37	<200	220	<3	<40	<5
91667	69	<1200	650	14	<5	13
91668	62	<900	440	31	<27	16
91669	62	1900	240	23	<5	<5
91670	61	<500	270	<9	<12	<5
91671	64	<600	230	32	<15	<5
91672	49	<500	310	8	14	<5
91673	52	<700	500	18	<18	<19
91674	53	800	400	16	13	21
91675	53	<900	430	10	12	<19
91676	49	<700	370	12	<23	17
91677	44	<700	210	4	<14	<12
91678	49	700	540	6	11	6
91681	56	<400	290	12	<6	7
91682	56	<600	330	8	<14	<5
91683	72	<400	310	13	<8	<5
91684	46	1000	180	<5	7	8
91685	53	<300	380	4	<22	<5
91686	61	<500	380	8	<35	<5
91687	81	1100	250	11	<15	<5
91691	72	1300	320	<2	11	<14
91692	64	<600	280	2	<16	<5
91693	67	<600	220	12	<14	<5
91694	62	<600	300	4	14	<5
91701	50	<800	340	5	18	<5
91702	44	1800	430	5	<5	<5
91710	46	<500	310	2	5	<5
91711	30	<500	250	<2	<11	6
91712	47	<600	170	<2	5	<5
91713	29	<500	340	<2	<5	<5
91714	48	1000	430	<2	13	14
91715	58	1200	390	11	<10	<5
91716	45	<800	410	8	<28	<14
91717	58	<1100	390	9	42	<22
91718	50	<600	260	7	<12	6
91719	170	<300	360	8	<5	12
91720	49	<600	260	5	17	<12
91721	51	<600	430	5	<14	<10
91730	54	<500	520	4	41	<5
91731	63	<600	240	8	<14	<10
91732	46	<400	200	3	10	<5
91733	49	600	200	5	<14	<5

SAMPLE	CO PPM	NI PPM	ZN PPM	AS PPM	SE PPM	MO PPM
91734	46	<500	260	14	16	8
91735	42	<500	180	5	<6	<9
91736	42	400	290	3	<5	<5
91737	44	800	250	7	<14	<5
91738	56	<300	200	2	<6	<5
91739	38	<400	230	3	12	<5
91740	460	<500	250	21	27	6
91742	39	<700	260	9	<23	<14
91743	49	<500	390	21	<12	<5
91745	130	<700	450	200	<18	5
91746	100	<900	410	110	<29	<36
91748	45	<700	430	7	<20	<18
91749	79	<600	330	72	<5	<5
91756	36	<600	310	4	<15	<5
91757	34	<700	290	<3	16	<14
91758	37	<500	180	3	<18	<9
91759	34	<700	240	<2	22	<14
91760	31	1300	210	<2	31	<11
91761	36	<700	290	<2	<19	<14
91762	32	<700	260	4	39	<12
91763	37	<500	310	<2	<5	<9
91764	63	<700	390	<2	<5	10
91766	76	<1200	550	48	<33	<5
91768	46	<600	380	6	10	<5
91769	37	<500	200	7	60	<15
91770	58	1000	360	16	<5	<5
91771	120	2100	470	15	<12	<21
91773	69	<500	270	19	<11	<7
91779	45	<500	210	7	11	<5
91780	43	<700	310	11	<24	<14
91781	54	<200	440	15	<20	<5
91782	49	<600	210	7	<14	<5
91783	58	<900	280	4	<15	<14
91784	52	<500	240	22	<15	<5
91785	49	<700	290	14	16	<15
91786	66	<600	330	11	<23	<11
91787	54	<500	340	4	7	<5
91788	51	<700	390	5	10	<5
91790	49	800	140	9	11	7
91791	47	1000	290	4	<5	8
91792	38	<400	220	9	<12	<5
91793	29	<600	210	6	<26	<14
91794	37	<700	290	<2	<22	<14
91795	46	<600	250	4	<5	9
91796	45	<400	310	4	<9	<15
91798	41	<500	210	<2	<5	<5
91799	41	<400	370	4	<5	<5
91800	36	<600	210	3	<20	<12
91801	36	<600	190	5	<16	<11
91802	33	<500	260	3	11	<5

SAMPLE	CO PPM	NI PPM	ZN PPM	AS PPM	SE PPM	MO PPM
91803	30	<300	220	3	5	<10
91804	34	<400	290	5	6	<12
91805	36	<600	170	4	<9	<12
91806	38	<400	210	2	11	<8
91807	34	<500	260	3	<5	<11
91808	38	<400	260	3	<29	<5
91809	47	<400	180	16	<5	<5
91821	36	<400	180	3	<10	<7
91822	36	<300	70	3	10	<12
91833	39	<500	320	6	<8	<5
91838	37	<400	<50	6	<16	<5
91839	44	<400	180	16	<5	<5
91840	41	<400	290	3	38	<5
91841	50	<400	420	4	<19	<5
91842	45	<200	230	<2	<8	10
91843	52	900	590	11	<5	<5
91844	50	<300	270	6	<10	<5
91845	44	<500	330	8	<15	<5
91846	58	<500	370	15	15	<5
91847	63	<500	300	9	<10	<5
91850	55	<200	360	11	<11	<5
91851	34	300	310	<2	<5	<5
91864	40	<500	190	3	<14	<7
91865	39	<500	290	6	<5	<5
91866	50	700	310	3	<12	<5
91867	73	<500	<50	16	<9	<5
91868	50	<500	260	11	<5	<9
91869	52	<400	310	8	<5	<5
91870	47	600	230	10	<16	<5
91871	55	<400	280	8	<11	<5
91872	46	<400	360	9	<6	<10
91873	53	<500	290	11	<15	<5
91874	51	<500	250	5	<7	<5
91882	61	<500	450	6	<15	<5
91883	140	<700	310	3700	<12	<19
91884	38	<600	240	5	<21	<14
91885	42	<500	210	4	<5	<12
91886	38	<400	140	3	<12	<9
91887	41	400	370	6	<11	<5
91888	41	<400	330	6	<10	<5
91889	45	600	370	5	<12	<5
91890	40	<500	350	6	<11	6
91891	38	<400	240	3	<10	<5
91893	37	<400	240	3	<9	<5
91894	37	<400	340	6	<11	<9
91895	46	600	260	4	<12	<5
91896	45	<400	280	4	6	<5
91898	50	<600	360	9	<21	<5
91899	46	<300	320	11	<6	9
91900	37	<400	250	8	<5	<11

SAMPLE	CO PPM	NI PPM	ZN PPM	AS PPM	SE PPM	MO PPM
91901	40	1000	250	<3	<5	<12
91902	49	<400	220	9	<20	<5
91903	31	<400	360	<3	<5	<12
91910	35	600	320	<4	6	<15
91911	33	<400	260	<4	16	<15
91912	39	<400	270	6	<9	<5
91913	47	<600	270	9	<14	13
91914	44	<300	380	<4	<6	13
91915	41	800	280	<5	<16	6
91916	34	<400	200	<3	<10	<10
91917	33	<400	250	<3	<11	<12
91918	37	<400	370	<3	<7	<5
91919	30	<400	430	<3	<8	<5
91920	37	<500	230	<4	<7	<12
91921	38	<200	350	<3	<6	<5
91923	39	<400	370	6	<12	<10
91924	47	<400	320	10	<6	28
91925	49	<400	410	13	<14	<5
91926	47	<400	420	10	<12	5
91927	54	<500	350	<6	<20	11
91928	45	<400	360	8	<11	<5
91929	40	<400	360	<5	<16	<5
91930	44	<400	340	<5	<12	<5
91931	40	<400	210	<5	<10	<5
91932	40	<400	360	14	<11	10
91933	35	<400	250	<5	<14	<14
91934	40	<400	410	<5	<12	22
91935	41	<500	330	<5	<12	<5
91936	47	<500	330	<6	<11	15
91937	42	<400	300	<5	<6	5
91938	44	<400	330	8	<10	<11
91939	48	<400	360	12	<11	9
91940	41	<400	260	<4	<10	13
91941	42	<400	250	<4	<9	<11
91942	100	<300	390	68	<10	<5
91944	49	<500	450	16	<12	8
91945	40	<400	180	7	<8	<5
91946	43	<400	420	<4	<8	<5
91947	32	<500	290	9	<14	<14
91948	39	500	340	<4	<9	<5
91949	36	<400	290	8	<9	<5
91950	39	<400	420	7	<7	7
91951	32	<300	230	10	<8	<10
91952	45	<200	350	17	<16	<14
91953	47	<300	300	<5	<8	18
91954	44	<400	260	12	<14	<5

SAMPLE	AG PPM	SB PPM	BA PPM	LA PPM	LU PPM	HF PPM
91653	<5	<1.0	<800	977	6.0	220
91654	<5	<0.3	<300	117	1.2	13
91655	<5	<0.5	600	381	3.6	140
91657	<5	<0.7	700	720	5.5	220
91658	<5	<0.5	300	422	4.5	130
91659	<5	<0.6	600	669	5.1	200
91662	<5	<0.5	600	659	5.7	250
91663	<5	0.7	400	322	3.5	120
91665	<5	<0.7	300	943	6.7	440
91667	<5	<0.9	700	835	7.0	320
91668	<5	1.6	<600	1090	6.7	270
91669	<5	1.0	1400	762	5.7	300
91670	<5	1.6	<400	991	5.7	220
91671	<5	1.1	<500	1220	7.3	280
91672	<5	<0.7	400	595	4.6	260
91673	<5	<0.8	800	736	5.2	140
91674	<5	<0.8	600	784	5.2	190
91675	<5	<0.7	400	474	4.3	180
91676	<5	<0.5	700	358	3.9	120
91677	<5	<0.5	300	295	3.4	98
91678	<5	<0.3	<400	275	3.0	90
91681	<5	<0.7	500	503	4.2	130
91682	<5	<0.6	<100	604	4.4	130
91683	<5	0.5	300	394	2.8	88
91684	<5	1.5	100	514	4.0	100
91685	<5	<0.5	<600	355	3.7	94
91686	<5	0.7	<800	456	5.1	140
91687	12	0.5	<400	492	5.4	140
91691	<5	0.7	600	394	3.7	110
91692	<5	<0.4	<500	466	4.3	130
91693	<5	<0.5	<300	479	4.6	130
91694	<5	<0.4	<300	294	3.3	82
91701	<5	0.6	300	597	4.7	140
91702	<5	0.7	200	550	4.8	150
91710	<5	<0.3	<300	339	3.5	73
91711	<5	<0.4	<100	223	2.7	52
91712	<5	<0.4	<500	388	4.2	84
91713	<5	<0.4	<300	270	3.3	61
91714	<5	0.8	<100	428	4.2	110
91715	<5	0.7	600	426	4.9	110
91716	<5	0.9	200	451	4.9	110
91717	<5	<0.8	1300	1040	4.7	95
91718	<5	<0.4	400	335	3.2	85
91719	<5	0.5	600	315	3.5	85
91720	<5	<0.5	500	380	4.2	120
91721	<5	<0.4	200	346	3.3	79
91730	<5	0.4	500	239	2.9	45
91731	<5	<0.5	400	248	2.5	52
91732	<5	<0.3	<300	226	2.8	55
91733	<5	<0.4	400	242	2.5	45

SAMPLE	AG PPM	SB PPM	BA PPM	LA PPM	LU PPM	HF PPM
91734	<5	<0.4	100	211	2.3	49
91735	<5	<0.3	300	223	2.5	52
91736	<5	<0.3	400	192	2.3	44
91737	<5	<0.4	<100	251	2.6	63
91738	<5	0.4	<300	100	1.1	51
91739	<5	<0.3	<300	159	1.7	41
91740	<5	<0.4	<300	144	1.5	34
91742	<5	<0.5	<700	311	3.2	160
91743	<5	<0.2	400	425	4.3	220
91745	<21	<0.2	<700	164	2.1	54
91746	<5	<1.7	<1200	202	2.3	72
91748	<5	<0.6	<800	339	3.5	110
91749	8	<0.6	300	356	3.5	120
91756	<5	<0.5	300	321	3.0	130
91757	<5	<0.7	<100	189	2.1	64
91758	<5	0.5	700	261	3.0	100
91759	<5	<0.6	<700	174	2.2	33
91760	<5	1.0	800	192	1.9	55
91761	<5	<0.5	200	180	2.0	47
91762	<5	<0.5	<600	135	1.9	30
91763	<5	<0.4	400	176	2.0	52
91764	<5	<0.5	<400	161	1.9	45
91766	14	<1.1	<800	279	3.5	110
91768	<5	<0.5	<400	359	3.6	110
91769	<5	<0.6	<500	274	2.8	80
91770	<5	0.6	300	421	4.5	110
91771	<5	<1.1	200	293	3.1	110
91773	<5	<0.3	<100	198	2.1	76
91779	<5	<0.4	400	327	3.3	81
91780	<5	<0.5	400	324	3.0	100
91781	<5	<0.5	<100	478	4.2	140
91782	<5	<0.4	500	233	2.6	41
91783	<5	<0.6	300	296	3.5	49
91784	<5	<0.4	<300	298	2.9	50
91785	<5	<0.5	<300	334	2.7	77
91786	<5	<0.5	<500	316	2.9	64
91787	<5	<0.4	100	245	2.5	39
91788	<5	<0.5	200	241	2.8	38
91790	<5	<0.4	<300	358	3.3	70
91791	<5	<0.4	<500	353	3.6	120
91792	<5	<0.4	500	382	3.7	140
91793	<5	<0.5	<100	241	2.4	93
91794	<5	<0.6	400	238	2.4	84
91795	<5	<0.4	400	346	3.7	130
91796	<5	<0.6	200	278	2.9	100
91798	<5	<0.4	400	229	2.5	59
91799	<5	0.4	100	281	2.8	93
91800	<5	0.6	500	220	2.4	68
91801	<5	<0.2	<600	212	2.3	57
91802	<5	0.6	<300	179	2.1	57

SAMPLE	AG PPM	SB PPM	BA PPM	LA PPM	LU PPM	HF PPM
91803	<5	<0.4	300	180	2.1	53
91804	<5	<0.5	<100	210	2.1	55
91805	<5	<0.5	<300	204	2.0	44
91806	<5	<0.3	200	207	2.1	50
91807	<5	<0.4	500	179	2.1	57
91808	<5	<0.3	300	238	2.8	100
91809	<5	<0.3	100	195	2.1	66
91821	<5	0.5	300	222	2.3	74
91822	<5	<0.4	100	220	2.3	86
91833	<5	<0.3	300	294	3.0	82
91838	<5	0.5	<100	258	3.0	110
91839	<5	<0.3	300	304	2.6	66
91840	<5	<0.3	200	205	2.5	60
91841	<5	<0.4	<300	296	2.9	100
91842	<5	0.6	300	239	2.6	50
91843	<5	<0.6	800	485	4.3	120
91844	<5	<0.4	400	247	2.4	67
91845	<5	<0.4	<100	255	2.7	75
91846	<5	0.5	<500	304	2.7	70
91847	<5	<0.4	<300	324	3.0	83
91850	<5	0.7	<300	362	4.0	94
91851	<5	<0.3	<100	184	2.1	36
91864	<5	<0.4	600	217	2.5	60
91865	<5	<0.2	400	276	2.8	76
91866	<5	<0.4	500	233	2.6	64
91867	<5	0.4	<100	290	3.0	62
91868	<5	<0.4	900	258	3.0	62
91869	<5	<0.5	300	270	3.3	66
91870	8	<0.3	400	319	3.2	100
91871	<5	<0.4	<300	295	3.2	83
91872	<5	<0.2	100	252	2.8	90
91873	<5	0.4	<300	334	3.4	98
91874	<5	<0.4	<100	332	3.8	81
91882	<5	<0.5	400	331	3.6	79
91883	81	0.4	<500	245	2.6	90
91884	<5	<0.5	200	222	2.0	66
91885	<5	<0.4	400	236	2.6	70
91886	<5	<0.3	400	297	3.1	100
91887	<5	<0.4	200	314	3.0	91
91888	<5	<0.4	<400	313	3.0	93
91889	<5	0.5	800	374	3.7	120
91890	<5	0.4	<400	247	2.7	75
91891	<5	<0.4	600	244	2.4	76
91893	<5	<0.3	200	238	2.4	74
91894	<5	<0.3	<200	283	2.9	97
91895	<5	<0.5	400	281	2.9	92
91896	<5	<0.4	400	331	3.0	94
91898	<5	<0.5	300	450	4.2	110
91899	<5	<0.5	200	317	3.0	93
91900	<5	<0.4	500	224	2.2	58

SAMPLE	AG PPM	SB PPM	BA PPM	LA PPM	LU PPM	HF PPM
91901	<5	<0.5	400	286	2.7	79
91902	<5	<0.5	400	304	2.9	71
91903	<5	<0.5	400	183	2.1	65
91910	<5	<0.6	400	241	2.5	83
91911	<5	0.8	<400	238	2.4	67
91912	<5	<0.4	<200	256	2.5	88
91913	<5	<0.6	400	326	3.4	100
91914	<5	<0.6	<200	249	2.7	88
91915	<5	<0.7	300	316	3.3	120
91916	<5	<0.4	700	248	2.5	83
91917	<5	<0.5	<300	296	2.7	95
91918	<5	0.6	1100	286	2.7	87
91919	<5	0.5	600	251	2.5	67
91920	<5	0.9	300	329	3.2	97
91921	<5	<0.5	<200	270	2.5	89
91923	<5	<0.5	<300	230	2.4	70
91924	<5	<0.6	500	302	2.7	110
91925	<5	1.0	<100	308	3.0	110
91926	<5	<0.5	<100	285	2.7	85
91927	<5	<0.7	500	366	3.5	110
91928	<5	0.8	200	304	2.9	100
91929	<5	<0.5	<300	279	2.7	100
91930	<5	<0.2	300	238	2.3	88
91931	<5	<0.5	300	251	2.4	100
91932	<5	0.7	500	295	2.8	120
91933	<5	<0.6	<300	337	3.0	160
91934	<5	<0.2	600	293	2.9	130
91935	<5	<0.6	300	256	2.6	98
91936	<5	<0.6	<100	308	2.6	53
91937	<5	<0.5	<300	266	2.4	84
91938	<5	<0.2	<300	247	2.6	82
91939	<5	0.8	100	259	2.5	73
91940	<5	<0.5	200	230	2.3	75
91941	<5	<0.5	<300	218	2.3	54
91942	<5	1.9	<200	213	1.8	39
91944	<5	<0.6	300	311	3.1	84
91945	<5	<0.5	100	246	2.3	79
91946	<5	<0.5	<200	245	2.7	58
91947	<5	<0.6	<400	258	2.7	110
91948	<5	<0.5	400	220	2.3	65
91949	<5	<0.5	<200	217	2.1	67
91950	<5	<0.4	<300	227	2.2	79
91951	<5	<0.4	<300	203	1.9	75
91952	<5	<0.5	<100	300	2.9	110
91953	<5	<0.5	<100	261	2.7	94
91954	<5	<0.5	300	256	2.6	110

S	LE	TA PPM	W PPM	TH PPM	U PPM	WEIGHT GM
91653		21	29	300.	34.9	9.96
91654		<2	7	34.0	4.6	14.6
91655		9	<6	170.	15.8	12.4
91657		7	31	200.	25.4	31.3
91658		8	9	200.	20.5	11.9
91659		13	<16	190.	23.5	17.4
91662		21	18	330.	32.5	11.6
91663		11	<6	140.	24.9	12.2
91665		21	23	480.	48.6	8.17
91667		25	24	420.	36.4	12.5
91668		27	68	340.	38.3	17.8
91669		23	21	370.	33.6	15.4
91670		19	<74	300.	38.8	18.5
91671		19	40	380.	36.2	19.9
91672		12	16	270.	29.9	17.8
91673		13	<22	210.	30.5	28.7
91674		15	<24	220.	21.5	23.8
91675		14	16	220.	23.4	15.6
91676		11	12	160.	15.4	10.4
91677		12	10	130.	13.9	10.0
91678		5	12	120.	13.3	16.2
91681		9	26	130.	22.5	28.3
91682		14	21	170.	25.7	34.7
91683		8	15	99.0	14.0	59.9
91684		10	<19	130.	23.0	29.1
91685		14	8	130.	15.2	43.0
91686		9	17	190.	20.5	26.9
91687		20	13	210.	19.0	19.2
91691		14	<7	140.	15.8	31.9
91692		12	<5	200.	14.6	22.3
91693		15	12	200.	19.0	21.5
91694		7	6	110.	11.2	24.7
91701		19	54	260.	26.8	33.5
91702		14	18	200.	21.0	34.2
91710		11	<4	110.	12.0	16.5
91711		9	12	87.0	13.5	9.98
91712		13	9	160.	16.1	21.5
91713		10	8	110.	14.2	13.6
91714		20	17	180.	18.0	17.4
91715		15	29	180.	20.6	19.4
91716		18	8	180.	18.0	34.8
91717		14	12	480.	26.7	27.2
91718		13	<6	150.	13.2	10.9
91719		8	730	120.	13.6	18.0
91720		13	12	150.	14.7	46.1
91721		10	28	130.	13.9	50.0
91730		14	13	78.0	14.5	19.8
91731		13	<6	83.0	8.5	35.6
91732		8	8	79.0	18.1	28.3
91733		12	9	79.0	10.9	23.3

SAMPLE	TA PPM	W PPM	TH PPM	U PPM	WEIGHT GM
91734	7	10	73.0	8.8	40.5
91735	8	5	83.0	9.8	58.3
91736	7	4	62.0	7.0	34.3
91737	8	<4	100.	12.2	55.5
91738	4	<4	34.0	3.7	68.1
91739	4	<5	77.0	7.9	15.7
91740	5	<4	50.0	7.2	48.1
91742	11	11	110.	16.3	61.7
91743	9	<6	170.	24.0	32.7
91745	<4	<6	58.0	8.3	95.7
91746	<5	<33	78.0	<7.9	96.1
91748	11	12	140.	10.5	52.9
91749	8	250	150.	13.7	62.1
91756	6	<6	110.	13.9	36.2
91757	6	<7	59.0	5.2	73.5
91758	8	8	98.0	13.3	83.7
91759	<4	<7	51.0	5.2	75.1
91760	<4	9	58.0	7.7	59.5
91761	6	<6	63.0	4.6	58.2
91762	6	<5	51.0	5.4	61.8
91763	6	6	63.0	5.0	80.5
91764	<4	8	54.0	6.6	30.7
91766	10	21	110.	8.5	34.7
91768	12	7	140.	12.2	44.0
91769	8	11	100.	7.3	71.8
91770	14	15	170.	18.1	36.9
91771	8	<9	120.	14.7	17.5
91773	5	8	72.0	9.6	16.0
91779	11	8	130.	14.0	85.1
91780	10	11	140.	14.4	64.1
91781	11	7	200.	18.5	35.2
91782	6	<7	85.0	10.3	9.34
91783	9	<8	100.	10.0	20.3
91784	8	11	110.	12.8	52.2
91785	10	18	130.	9.2	59.2
91786	8	15	110.	10.6	34.4
91787	10	6	83.0	9.2	45.5
91788	7	9	77.0	9.5	29.5
91790	7	11	130.	12.8	44.1
91791	7	<5	130.	14.3	41.9
91792	8	16	150.	16.2	50.9
91793	7	<6	88.0	9.5	58.1
91794	9	8	88.0	9.6	71.0
91795	13	9	130.	16.3	41.4
91796	13	16	130.	11.3	51.5
91798	9	8	77.0	10.2	79.2
91799	12	18	100.	12.4	91.5
91800	8	31	81.0	11.3	63.2
91801	5	30	73.0	10.1	63.0
91802	6	8	65.0	8.0	75.0

SAMPLE	TA PPM	W PPM	TH PPM	U PPM	WEIGHT GM
91803	12	<5	69.0	9.1	59.8
91804	10	11	80.0	12.6	54.4
91805	7	9	73.0	7.3	71.8
91806	6	7	76.0	7.9	59.6
91807	4	8	60.0	7.6	66.3
91808	6	13	85.0	12.3	25.4
91809	7	14	64.0	8.4	74.6
91821	4	7	82.0	9.6	77.0
91822	6	11	84.0	9.8	64.9
91833	13	8	110.	13.4	52.0
91838	9	12	94.0	12.5	28.6
91839	8	16	140.	12.6	27.1
91840	8	10	74.0	9.8	38.1
91841	11	18	120.	15.1	45.2
91842	7	17	84.0	6.9	47.1
91843	13	14	200.	21.4	29.9
91844	7	8	83.0	8.3	53.5
91845	6	8	96.0	8.4	92.2
91846	10	10	100.	10.9	80.2
91847	11	17	120.	11.6	92.1
91850	11	160	140.	17.6	16.9
91851	5	22	75.0	11.5	10.5
91864	8	12	75.0	9.2	66.6
91865	14	<6	100.	13.4	10.5
91866	12	10	87.0	9.5	53.9
91867	8	15	120.	9.6	51.4
91868	10	9	100.	11.2	56.7
91869	9	<7	110.	12.1	82.8
91870	11	17	130.	12.7	62.6
91871	18	13	120.	12.4	23.9
91872	9	<6	93.0	11.4	97.8
91873	11	11	130.	14.4	46.5
91874	9	30	140.	15.9	45.1
91882	13	78	140.	14.1	45.0
91883	6	<9	87.0	9.2	54.0
91884	8	10	82.0	9.0	77.8
91885	10	<6	89.0	11.1	47.2
91886	10	6	120.	15.9	25.8
91887	8	<6	120.	12.9	68.0
91888	11	11	120.	12.5	55.7
91889	12	15	150.	17.1	44.7
91890	11	<7	89.0	10.3	38.7
91891	8	<6	91.0	9.8	80.0
91893	10	<5	86.0	8.2	58.4
91894	11	7	100.	11.2	65.1
91895	11	<8	100.	10.3	33.6
91896	8	<6	130.	15.7	54.5
91898	14	16	190.	14.9	40.4
91899	14	10	130.	15.7	75.8
91900	5	11	83.0	9.4	117.

SAMPLE	TA PPM	W PPM	TH PPM	U PPM	WEIGHT GM
91901	11	15	110.	12.5	105.
91902	8	17	120.	13.8	69.4
91903	8	<11	65.0	7.7	20.6
91910	6	<14	92.0	4.6	85.0
91911	11	17	98.0	8.8	91.1
91912	8	<10	98.0	13.1	65.0
91913	12	<16	120.	14.6	36.0
91914	9	<15	89.0	10.8	36.2
91915	11	<18	110.	15.6	29.5
91916	7	15	94.0	11.4	77.5
91917	9	21	110.	11.3	55.1
91918	8	12	110.	13.9	58.8
91919	8	<11	97.0	12.2	63.2
91920	10	29	140.	13.4	46.5
91921	9	37	100.	10.7	55.1
91923	8	13	79.0	9.4	52.1
91924	9	<19	110.	13.2	83.2
91925	11	<20	110.	19.0	85.8
91926	10	<19	100.	13.3	68.5
91927	13	<25	140.	16.5	34.5
91928	10	<19	110.	14.7	41.5
91929	9	<18	97.0	13.7	74.3
91930	11	<19	81.0	9.3	95.7
91931	7	27	88.0	11.5	109.
91932	7	<18	100.	11.7	73.9
91933	10	20	120.	14.5	91.2
91934	7	<20	100.	11.8	64.5
91935	8	<21	85.0	10.2	95.5
91936	11	<22	120.	9.6	43.3
91937	8	32	95.0	9.3	73.1
91938	7	<19	88.0	12.2	64.5
91939	7	<18	95.0	11.4	82.4
91940	8	<15	80.0	8.3	79.2
91941	7	<16	74.0	7.8	73.1
91942	4	<16	55.0	5.2	107.
91944	9	25	120.	12.7	46.6
91945	11	<16	87.0	12.5	81.0
91946	10	<18	91.0	9.3	70.2
91947	7	27	93.0	15.1	46.9
91948	8	23	70.0	7.2	63.8
91949	6	<16	76.0	6.3	65.7
91950	7	<14	81.0	10.0	79.5
91951	4	21	78.0	10.3	117.
91952	8	23	120.	14.0	81.1
91953	8	<18	100.	11.1	98.8
91954	7	26	95.0	12.4	71.2


BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187,

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. 1039

DATE: July 21, 1986

SAMPLE(S) OF: Rock (32)

RECEIVED: July 1986

SAMPLE(S) FROM: Mr. Rob Abernethy, R. S. Middleton Exploration Services Inc.

<u>Samp.No.</u>	<u>Au ppb</u>	<u>Cu ppm</u>	<u>Zn ppm</u>	<u>As ppm</u>
13412		56	65	ND
91651	10	48	86	ND
91652	11	52	85	ND
91656	6	78	21	ND
91660	7	32	38	ND
91661	15	126	69	ND
91664	7	34	153	ND
91666	8	102	60	ND
91679	6	78	78	ND
91688	11	102	105	ND
91689	7	76	145	25
91695	8	76	258	ND
91703	3	40	69	ND
91722	4	42	146	ND
91741	4	40	103	34
91744	34	48	110	ND
91747	7	54	91	15
91750	8	42	115	ND
91765	66	52	87	ND
91767	6	42	89	5
91774	56	28	78	5
91789	63	34	73	ND
91797	8	64	46	ND
91810	21			
91832	7	14	41	ND
91848	6	38	122	5
91875	6	32	162	75
91892	12	42	90	ND
91905	8	8	89	ND
91922	6	26	124	ND
91943	22	40	514	30
91955	6	10	85	ND

NOTE: ND denotes not detected.

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.



PER _____



900

Type of Survey: Reverse Circulation Corehole Drilling

Claim Holder(s): Glen Aiken Resources Limited BRAGG, STUWEEDE TWP

Prospector's Licence No.: T1915

Address: 136 Cedar Street South P.O. Box 1637 Timmins Ontario P4N 7L5

Survey Company: R.S. Middleton Exploration Services

Date of Survey (from & to): 06 02 86 25 02 86 Total Miles of line Cut

Name and Address of Author of Geo-Technical report: Rob Abernethy 1021 Eglinton Ave W Apt 106 Toronto M6G 2E1

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

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

Mining Claim		Expend. Days Cr.
Prefix	Number	
	780702	35
	780703	35
	780704	35
	780705	35
	780706	35
	783054	35
	790352	35
	790353	35
	790354	35
	790355	35
	790356	35
	790357	35
	790358	35
	790359	35
	796405	35
	796406	35
	796407	35
	796408	35
	796409	35
	796410	35
	796411	35
	796412	35
	796413	35

Mining Claim		Expend. Days Cr.
Prefix	Number	
	796414	35
	796415	35
	796416	35
	796417	35
	796418	35
	796419	35
	796420	35
	796421	35
	796422	35
	796423	35
	796424	35
	796425	35
	796426	35
	796427	35
	796428	35
	796429	35
	796430	35
	796443	35
	796444	35
	796515	35
	796516	35
	796517	35
	796518	35

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

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

Expenditures (excludes power stripping)

Type of Work Performed: Overburden Drilling; Sec 22-19

Performed on Claim(s): See List A

Calculation of Expenditure Days Credits

Total Expenditures: 593 630.69 ÷ Total Days Credits: 15 = 6245

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.

Total number of mining claims covered by this report of work: 159

For Office Use Only

Total Days Cr. Recorded: 5805 Date Recorded: OCT 1 - 1986 Mining Recorder: [Signature]

Date Approved as Recorded: [Signature] Branch Director: [Signature]

Date: Aug 15 1986 Recorded Hooper or Agent (Signature): Rob Abernethy

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: Rob Abernethy P.O. 1637 Timmins Ont. P4N 7L5

Date Certified: Aug 15, 1986 Certified by (Signature): Rob Abernethy

The Mining Act

Type of Survey: _____ Township or Area: _____

Claim Holder(s): Glen Auden Resources Page 2 Prospector's Licence No. _____

Address: _____

Survey Company: _____ Date of Survey (from & to): _____ Total Miles of line Cut: _____

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	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	- Electromagnetic	
	- Magnetometer	
	- Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
	797281	35		797304	35
	797282	35		797305	35
	797283	35		797306	35
	797284	35		797307	35
	797285	35		797308	35
	797286	35		797309	35
	797287	35		797310	35
	797288	35		797311	35
	797289	35		797312	35
	797290	35		797313	35
	797291	35		797314	35
	797292	35		797315	35
	797293	35		797316	35
	797294	35		797317	35
	797295	35		797318	35
	797296	35		797319	35
	797297	35		797320	35
	797298	35		798627	35
	797299	35		798628	35
	797300	35		798629	35
	797301	35		798630	35
	797302	35		798631	35
	797303	35		798632	35

Expenditures (excludes power stripping)

Type of Work Performed: _____

Performed on Claim(s): _____

Calculation of Expenditure Days Credits

Total Expenditures: \$ _____ ÷ 15 = Total Days Credits: _____

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

Date: _____ Recorded Holder or Agent (Signature): _____

For Office Use Only

Total Days Cr. Date Recorded: OCT 1 1986 Mining Recorder: _____

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: _____

Date Certified: _____ Certified by (Signature): _____



The Mining Act

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

Form header section containing: Type of Survey, Township or Area, Claim Holder(s) (Glen Anderson Resources Ltd.), Prospector's Licence No., Address, Survey Company, Date of Survey (from & to), Total Miles of line Cut, Name and Address of Author (of Geo-Technical report).

Credits Requested per Each Claim in Columns at right

Table for requesting credits, categorized by Special Provisions, Man Days, and Airborne Credits. Includes sub-sections for Geophysical (Electromagnetic, Magnetometer, Radiometric, Other) and Geological/Geochemical.

Mining Claims Traversed (List in numerical sequence)

Main table listing mining claims with columns for Mining Claim (Prefix, Number) and Expend. Days Cr. (35). Lists claims 798633 through 798686.

Expenditures (excludes power stripping)

Form for recording expenditures and calculating days credits. Includes fields for Type of Work Performed, Performed on Claim(s), and a calculation: Total Expenditures / 15 = Total Days Credits.

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

For Office Use Only section containing: Total Days Cr. Recorded (30), Date Recorded (OCT 1 1986), Mining Recorder signature, Date Approved as Recorded, Branch Director signature.

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 and Recorded Holder or Agent (Signature) fields.

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, Date Certified, and Certified by (Signature) fields.



- 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

Form header section including: Type of Survey, Township or Area, Claim Holder(s) (Glen Ardlen Resources Limited), Prospector's Licence No., Survey Company, Date of Survey, Total Miles of line Cut, Name and Address of Author.

Credits Requested per Each Claim in Columns at right

Table with columns for Special Provisions, Man Days, Airborne Credits, and various survey types (Geophysical, Geological, Geochemical) with sub-categories like Electromagnetic, Magnetometer, Radiometric, and Other.

Mining Claims Traversed (List in numerical sequence)

Table with columns for Mining Claim Prefix, Mining Claim Number, and Expend. Days Cr. containing a list of claim numbers and their corresponding expenditure days.

Handwritten note: Credits calculated on reverse side attached as 10/25/86

Form section for Expenditures (excludes power stripping), Calculation of Expenditure Days Credits (Total Expenditures / 15 = Total Days Credits), and Instructions.

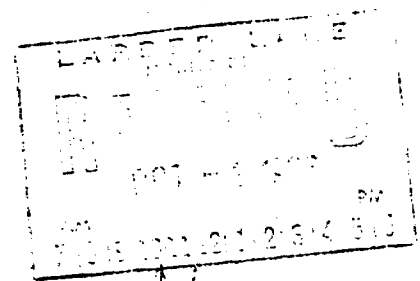
Form section for Office Use Only, including Total Days Cr. Recorded (OCT 1 1986), Date Approved as Recorded, and Mining Recorder signature.

Certification Verifying Report of Work section, including a statement of knowledge and fields for Name and Postal Address of Person Certifying, Date Certified, and Certified by (Signature).

Flan Auden Resources Limited

List of claims on which work was performed.

GAO-01	-	796414	GAO-28	-	842598
GAO-02	-	796411	GAO-29	-	842598
GAO-03	-	796407	GAO-30	-	842597
GAO-04	-	796427			
GAO-05	-	780702			
GAO-06	-	780704			
GAO-07	-	780704			
GAO-08	-	790357			
GAO-09	-	798640			
GAO-10	-	798640			
GAO-11	-	798640			
GAO-12	-	783054			
GAO-13	-	790353			
GAO-14	-	790353			
GAO-15	-	835795			
GAO-16	-	835794			
GAO-17	-	835793			
GAO-18	-	797317			
GAO-19	-	835778			
GAO-20	-	835791			
GAO-21	-	835796			
GAO-22	-	797289			
GAO-23	-	797292			
GAO-24	-	835797			
GAO-25	-	835797			
GAO-26	-	797303			
GAO-27	-	798645			



November 10, 1986

Your File: 416/86
Our File: 2.9444

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

Dear Madam:

RE: Assaying submitted under Section 77(19)
of the Mining Act R.S.O. 1980 on Mining
Claims L 780704, et al, in Tweed Township

The enclosed statement of assessment work credits for
assaying expenditures has been approved as of the above
date.

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

Yours sincerely,

J.C. Smith, Supervisor
Mining Lands Section

Whitney Block, 6th Floor
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

SH/mc

cc: Glen Auden Resources Limited
136 Cedar Street South
P.O. Box 1637
Timmins, Ontario
P4N 7W8

Rob Abernethy
P.O. Box 1637
Timmins, Ontario
P4N 7W8

Resident Geologist
Kirkland Lake, Ontario

Encl.



Recorded Holder
GLEN AUDEN RESOURCES LIMITED

Township or Area
TWEED TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	<p>\$93,680.69 SPENT ON OVERBURDEN DRILLING AND ASSAYING SAMPLES TAKEN FROM MINING CLAIMS:</p> <p>L 780704-05 783054</p> <p>790352-57 796407-11-14-27 797289-92 797303-04-17 798640</p> <p>835778-91-92-94-96-97 842597-98</p> <p>6245 DAYS CREDIT ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT R.S.O 1980.</p>
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
<input type="checkbox"/> Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

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

No credits have been allowed for the following mining claims

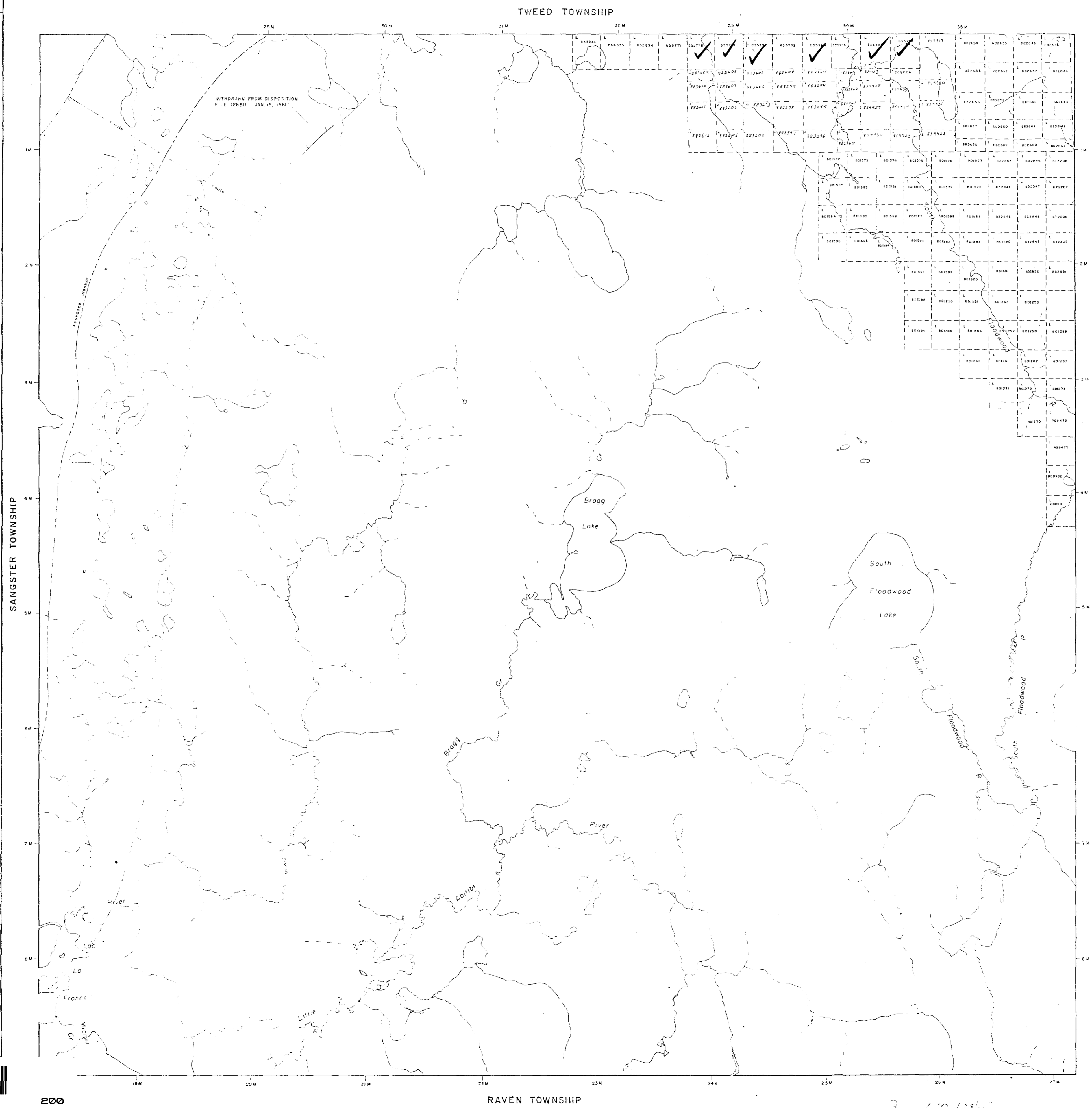
not sufficiently covered by the survey sufficient technical data filed

The Mining Recorder may reduce the above credits, necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 30; Geological - 40; Geochemical - 40; Section 77 (19) - 30.

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY
 S.R.O. - SURFACE RIGHTS ONLY
 M+S - MINING AND SURFACE RIGHTS

Description Order No. Date Disposition File



LEGEND

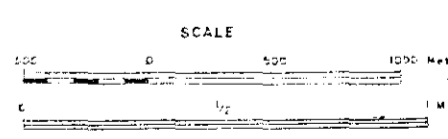
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIP'S BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCELS BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERMANENT STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION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

DISPOSITION OF CROWN LANDS

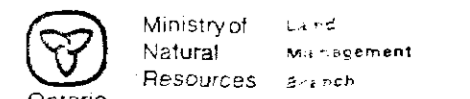
TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LEASE SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LICENSE OF OCCUPATION	
ORDER IN COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1912 ARE NOT IN ORIGINAL PATENTS BY THE PUBLIC LANDS ACT R.S.O. 1910 CHAP. 90, SEC. 43, SUBSEC. 1

OCT 31 1986



TOWNSHIP
BRAGG
 M. N. R. ADMINISTRATIVE DISTRICT
COCHRANE
 MINING DIVISION
LARDER LAKE
 LAND TITLES / REGISTRY DIVISION
COCHRANE



DATE: OCTOBER 1986
 NUMBER: **G-3480**



Revised 10/28/86

TWEED

LARDER LAKE MINING DIVISION

DISTRICT OF COCHRANE

Scale: 40 Chains = 1 Inch

M. 608
ONTARIO

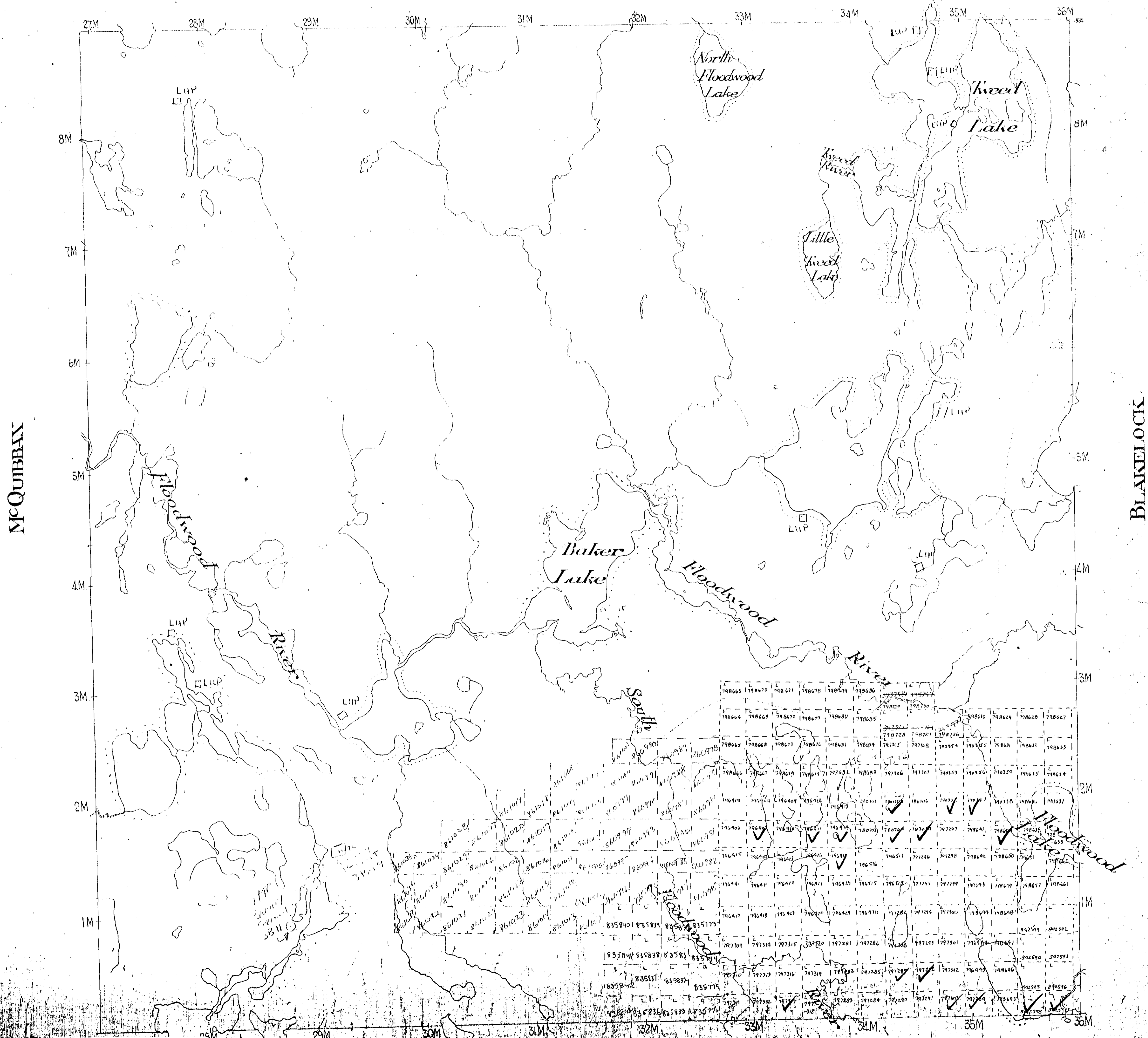
MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH

FEB 5 1946

NOTE

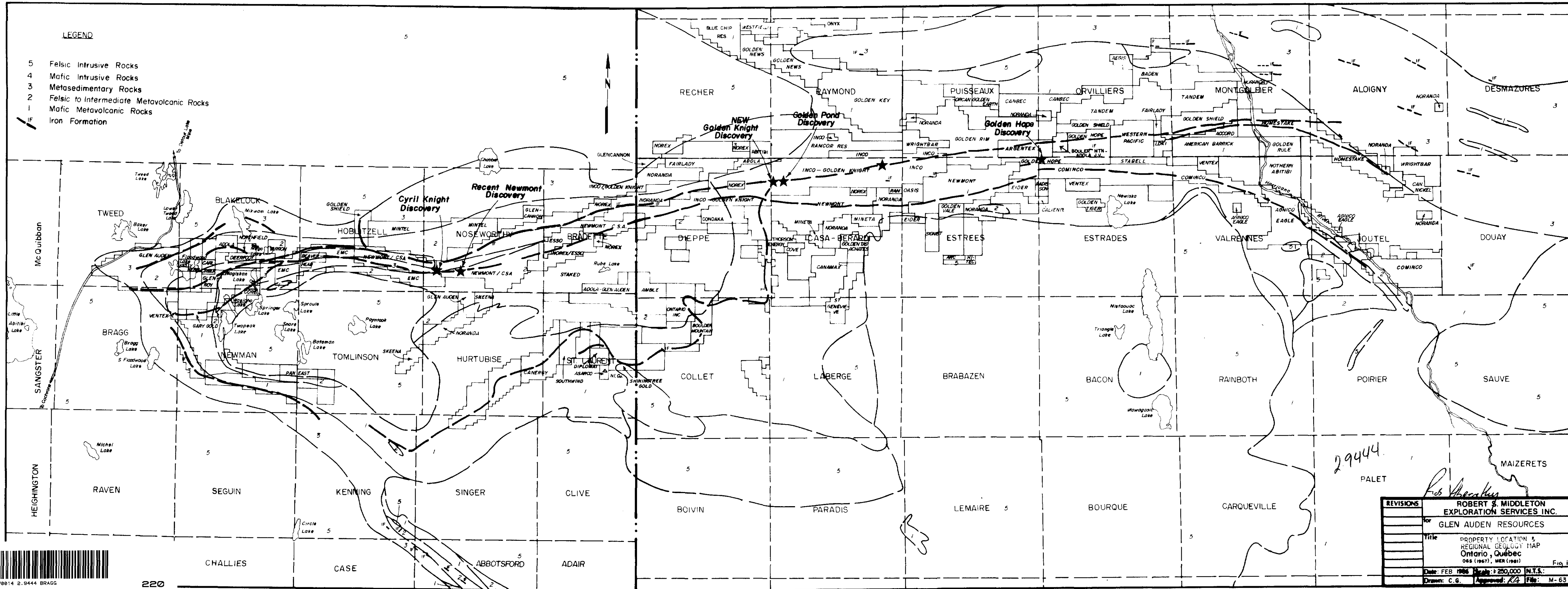
400' Surface Rights Reservation
around all Lakes and Rivers.



42H88NW814 2.9444 BRAGC

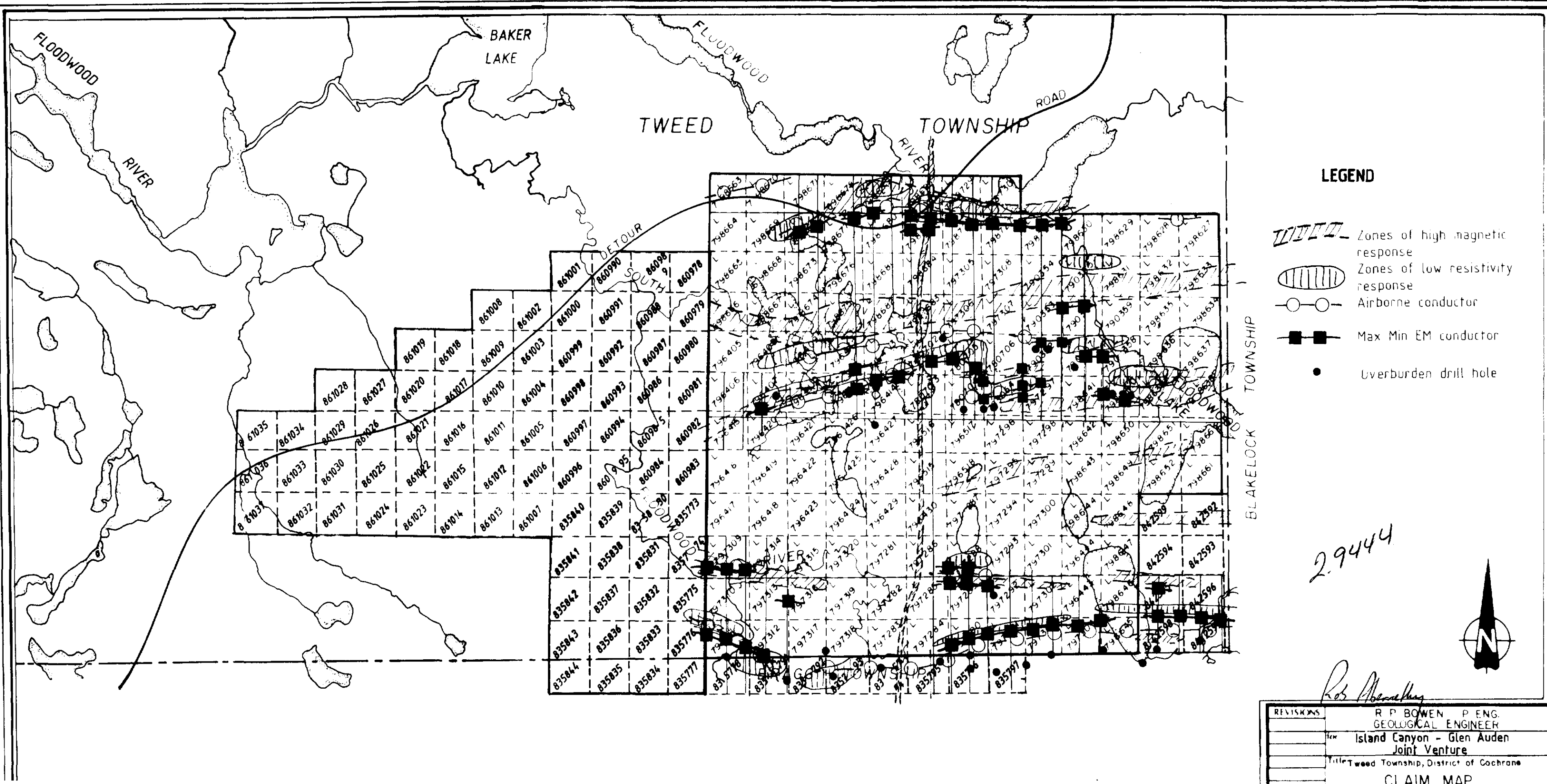
LEGEND

- 5 Felsic Intrusive Rocks
- 4 Mafic Intrusive Rocks
- 3 Metasedimentary Rocks
- 2 Felsic to Intermediate Metavolcanic Rocks
- 1 Mafic Metavolcanic Rocks
- IF Iron Formation



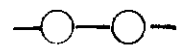




REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.
FOR	GLEN AUDEN SERVICES
Title	PROPERTY LOCATION & REGIONAL GEOLOGY MAP Ontario, Quebec
Date	FEB 1986 Scale: 1:250,000 N.T.S.
Drawn	C.G. Approved: <i>[Signature]</i> File: M-63

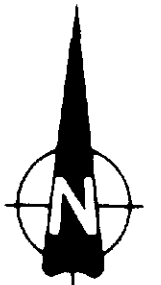




LEGEND

-  Zones of high magnetic response
-  Zones of low resistivity response
-  Airborne conductor
-  Max Min EM conductor
-  Overburden drill hole

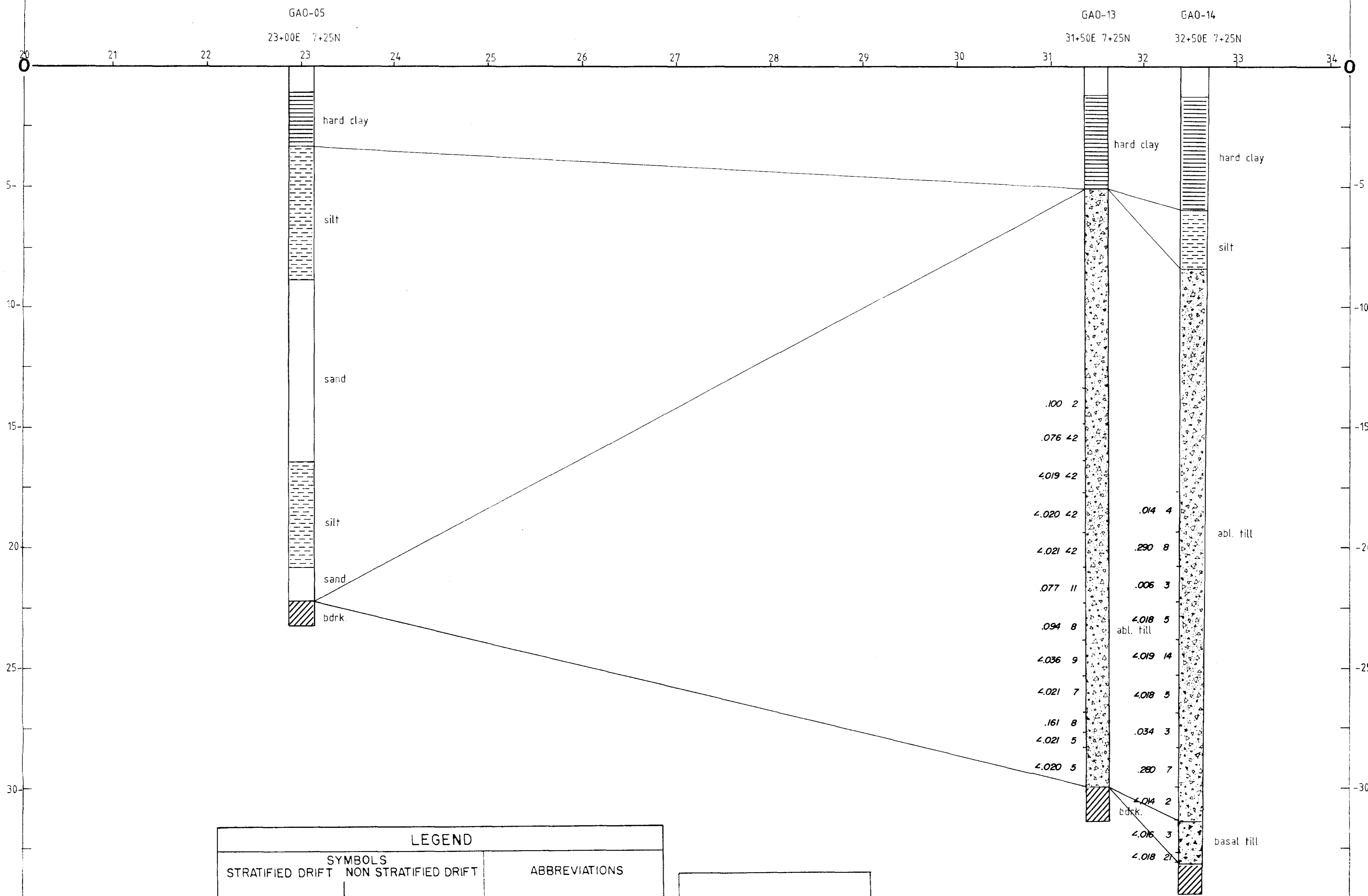
2.9444



Rob Abernethy

REVISIONS	R P BOWEN P. ENG. GEOLOGICAL ENGINEER
	Island Canyon - Glen Auden Joint Venture
	Tweed Township, District of Cochrane
	CLAIM MAP
	Larder Lake Mining Division, Ontario Fig. 2
	Date: April 88 Scale: 1" = 1/2 mi N.T.S.
	Drawn: K.B. Approved: R.A. File





SYMBOLS		ABBREVIATIONS	
STRATIFIED DRIFT	NON STRATIFIED DRIFT		
LACUSTRINE		gl - grit	UT - Upper Till
soft		cl - clay	LT - Lower Till
clay		st - silt	abnl - abundant
with interspersed gravel sized fragments		sd - sand	qt - quartz
silty		gr - gravel	calc - calcite
sandy		cb - cobble	py - pyrite
gravelly		bid - boulder	ps - pyrrhotite
hard		vfg - very fine grained	aspy - arsenopyrite
		fg - fine grained	
		mg - medium grained	
		cg - coarse grained	
		HMC - heavy mineral concentrate	
FLUVIAL			
silt			
sand			
gravel			
cobbles			
boulders			
TILL			
Ablation			
Basal			
Lodgement			
OTHER			
Weathered Bedrock			
Bedrock			
Pleistocene Disconformity			

GEOCHEMICAL INFORMATION	
Au ppm	As ppm
0.27	25
Assay on HMC from drift	
sample interval	sd
0.22	117
2 gold grain count	
1.53	300
Assay on HMC from bedrock fines	
0.25	61
Assay on bedrock chips	

Rob Abernethy

**ROBERT S. MIDDLETON
EXPLORATION SERVICES INC.**

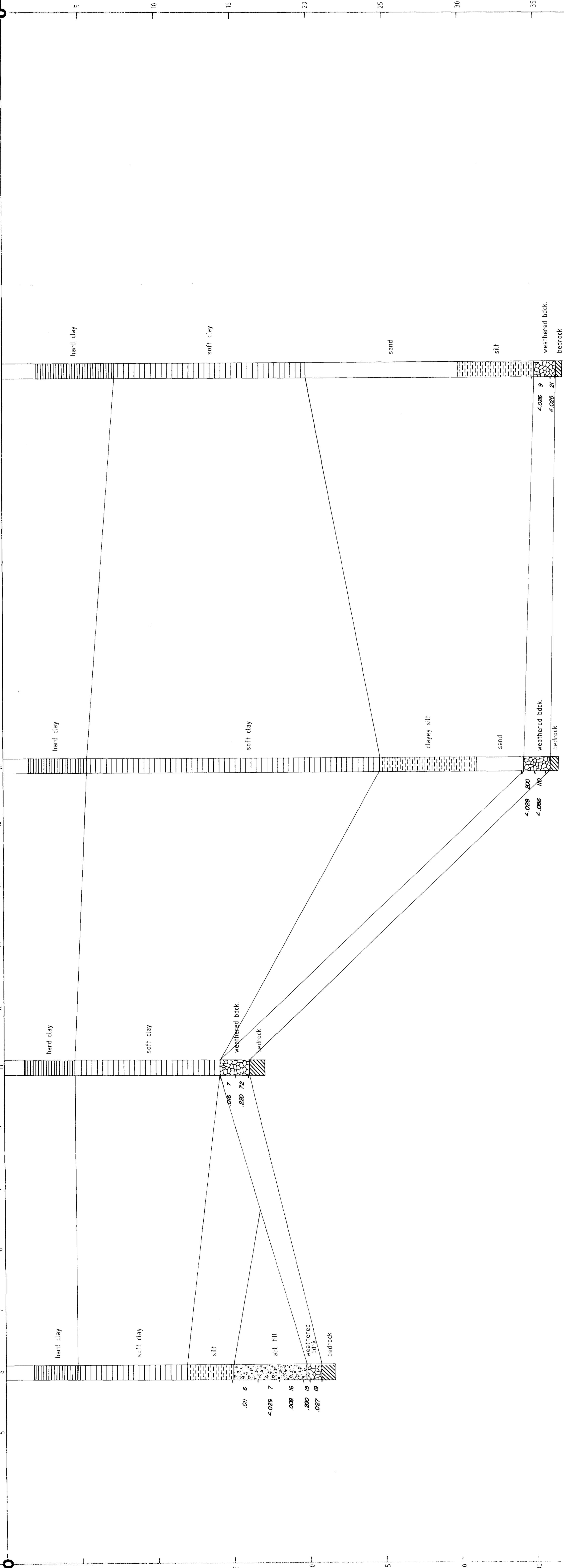
CLIENT: GLEN AUDEN RESOURCES

DRILL HOLE SECTIONS 29444
GAO-05 - GAO-14

DATE	SCALE	N.T.S.
DRAWN	APPROVED <i>RA</i>	FILE: M-63



GAO-20 1.6E 25-60S 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 30 35 40 45 50



LEGEND

SYMBOLS		ABBREVIATIONS	
STRATIFIED DRIFT / NON STRATIFIED DRIFT		TILL	
	LACUSTRINE		UT - Upper Till
	clay		LT - Lower Till
	with interstratified gravel sized fragments		SI - silt
	silt		SA - sand
	sandy clay		GR - gravel
	gravelly sand		CO - cobble
	hard sand		BU - boulder
	FLUVIAL		clg - very fine grained clay - wavy pattern
	sand		fg - fine grained clay - medium grained
	gravel		MC - heavy mineral concentrate
	cobble		SD - stratified detrital base 1:2
	boulders		SD - stratified detrital base 1:4
			BR - bedrock
			FR - fractured bedrock

GEOCHEMICAL INFORMATION

027 25	Assay on IHC from drill
0.22 117	sample analyzed
1.53 300	Assay on IHC from bedrock
0.25 61	Assay on bedrock (bore)

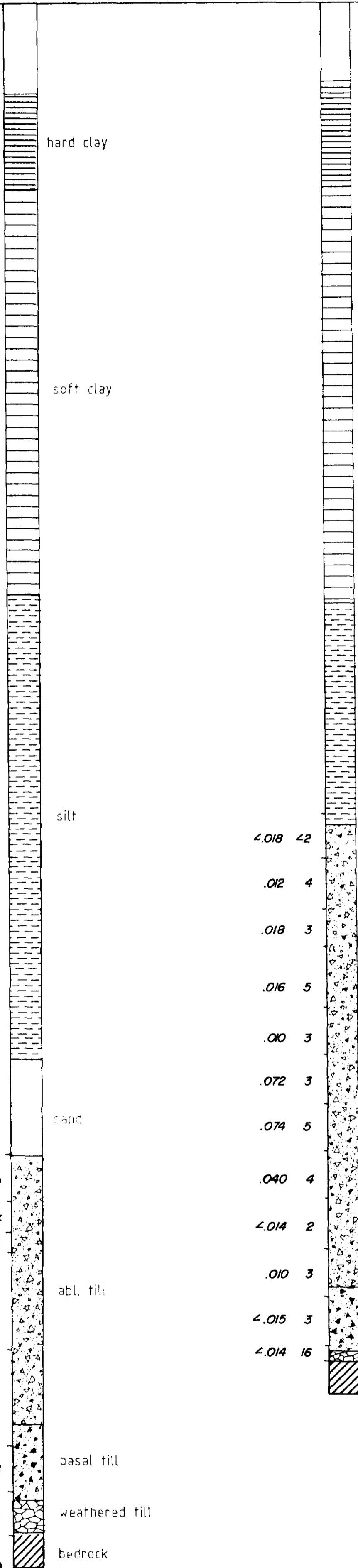
REVISIONS	
for	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.
Title	GLEN AUDEN RESOURCES
	DRILL HOLE SECTIONS 29444
	GAO-20 - GAO-15
Date: March 86	Scale: N.T.S.
Drawn: P.G.	Approved: <i>[Signature]</i>

GAC-22

GAC-23

20 21 22 23 24 25 26 27 28 29 30

5
10
15
20
25
30
35
40
45
50
55



LEGEND

SYMBOLS STRATIFIED DRIFT NON STRATIFIED DRIFT

ABBREVIATIONS

LACUSTRINE

- soft
- clay
- with interspersed gravel sized fragments
- silty
- sandy
- gravelly
- hard

FLUVIAL

- silt
- sand
- gravel
- cobbles
- boulders

TILL

- Ablation
- Basal
- Lodgement

OTHER

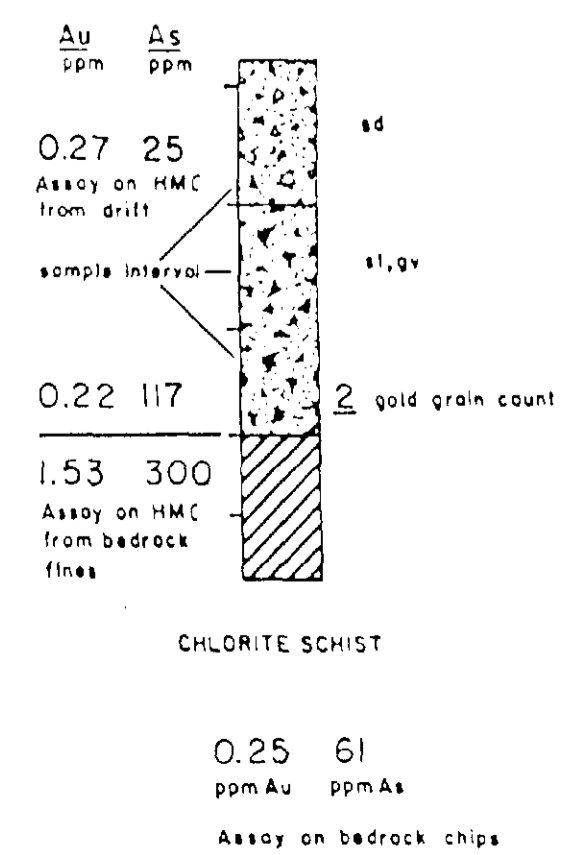
- Weathered Bedrock
- Bedrock
- Pleistocene Disconformity

- gty - grit
- cl - clay
- st - silt
- sd - sand
- gr - gravel
- cb - cobble
- bid - boulder
- vfg - very fine grained
- fg - fine grained
- mg - medium grained
- cg - coarse grained
- HMC - heavy mineral concentrate
- UT - Upper Till
- LT - Lower Till
- abnt - abundant
- calc - calcite
- py - pyrite
- pp - pyrrhotite
- aspy - arsenopyrite

- Abbreviated descriptors beside till symbols indicate constituents in order of abundance.

- Basal fluvial symbols indicate subsidiary components.

GEOCHEMICAL INFORMATION



42H88NW8814 2.944 BRAGG

Rob Abernethy

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for	GLEN AUDEN RESOURCES	
	Title	DRILL HOLE SECTIONS <i>29444</i>	
		GAC-22 - GAC-23	
	Date: March 86	Scale:	N.T.S.:
	Drawn: P.G.	Approved: <i>KA</i>	File: M-63