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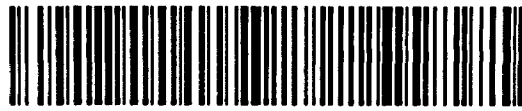
Part 1 of 3

PROGRESS REPORT
JUNE - SEPTEMBER 30, 1987
TYRANITE PROPERTY
KNIGHT & TYRRELL TOWNSHIPS
ONTARIO
FOR
GUNNAR GOLD / MILL CITY INC.

Norwin Resources Limited
October 23, 1987

DM87-6-L-238

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1. INTRODUCTION

The Tyranite Gold property is located in Knight and Tyrrell townships in the District of Temiskaming approximately 12 miles northwest of Gowganda and 100 miles north of Sudbury, Ontario. The property consists of the former Tyranite Gold Mine which produced 223,810 tons of ore with a recovered grade of 0.147 oz of gold/ton between 1939 and 1942. The property has been held by Dalhousie Oil Company Ltd. for a number of years and it was recently optioned to Tyranex Gold Inc. In turn, Tyranex Gold Inc. has entered into an agreement with Gunnar Gold/Mill City Inc. whereby the latter two (2) companies can earn a 50% interest in the Tyranite property.

An exploration programme was started on the property in June of 1987 with the objective of outlining sufficient mineralization of an economic grade that would permit the property to again be placed in production. The following report outlines work completed on the Tyranite claim group to September 30, 1987.

2. PROPERTY LOCATION AND ACCESS

The property consists of 12 leased and 1 staked, contiguous claims as shown on the plans of Tyrrell and Knight townships issued by the Surveys and Mapping Branch of the Ontario Ministry of Natural Resources (Figure 2). The claims are as follows:

<u>Claim Number</u>	<u>Number of Claims</u>
Patented Claims	
GG 5800-05 inclusive	6
GG 5815-17 inclusive	3
GG 6649-51 inclusive	<u>3</u>
Sub-Total	12
Staked Claim	
L 511273	<u>1</u>
Total	13

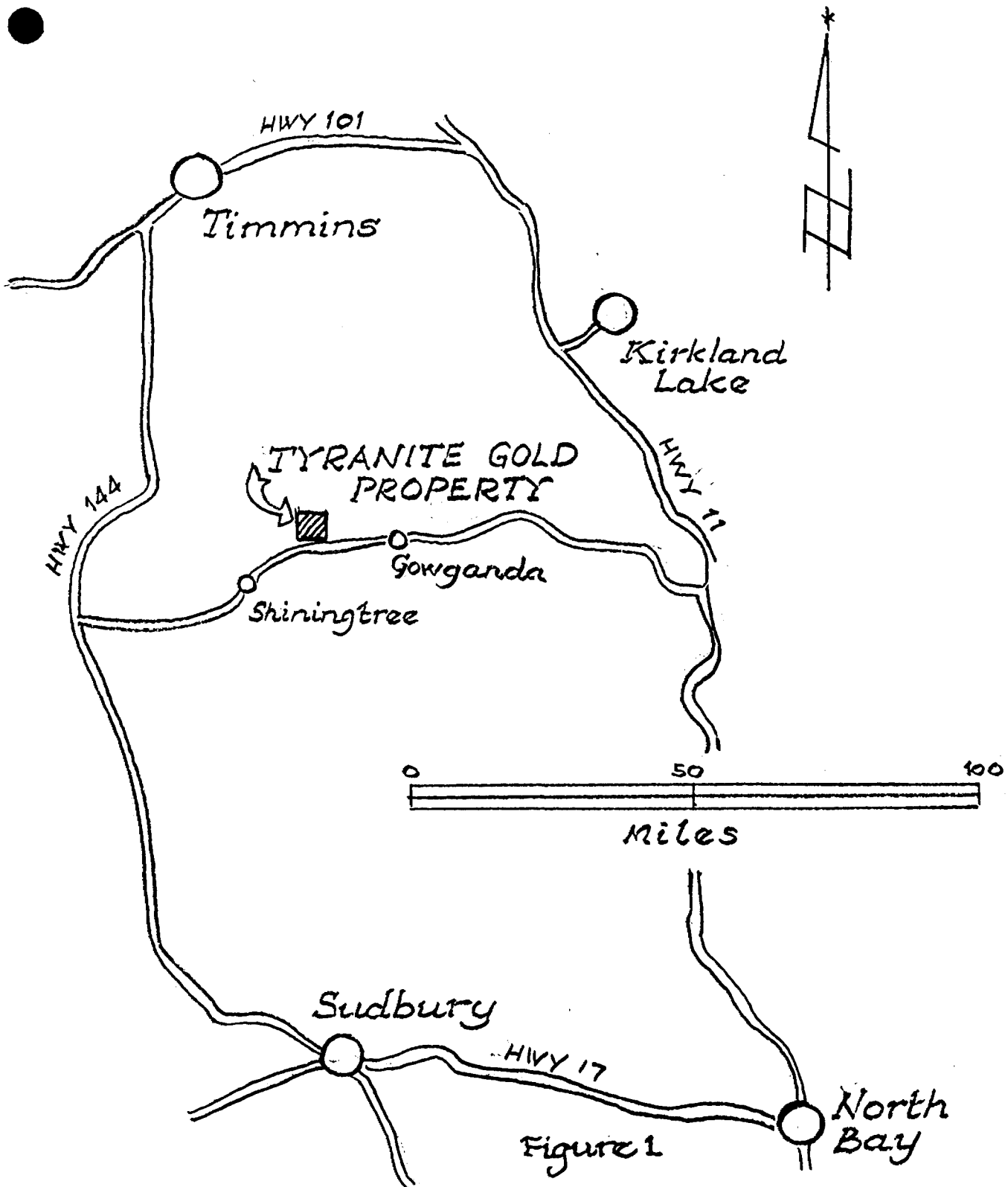


Figure 1
 Location Map
 Tyranite Gold Property
 Knight & Tyrrell Exps. ~ Ontario
 23 Oct. 1987

The property is located on the common boundary between Knight and Tyrrell townships, District of Timiskaming, Ontario at 47° 40 N latitude, 81° 00 W longitude; approximately 12 miles northwest of the town of Gowganda, Ontario. Access to the property is via a gravel bush road for 1 1/2 miles north from highway 560. This bush road leaves highway 560 approximately 12 miles west of Gowganda.

3. EXPLORATION PROGRAMME: 1987

3.1 WORK DONE

The exploration programme commenced with line-cutting on the property with an east-west grid being established with lines at 200 foot spacing (24.25 line miles). The grid was subsequently surveyed with a magnetometer (22.12 miles), a VLF-EM survey (22.12 miles), and an IP survey on the eastern half of the property east of tie-line 26+00W. (Figure 2).

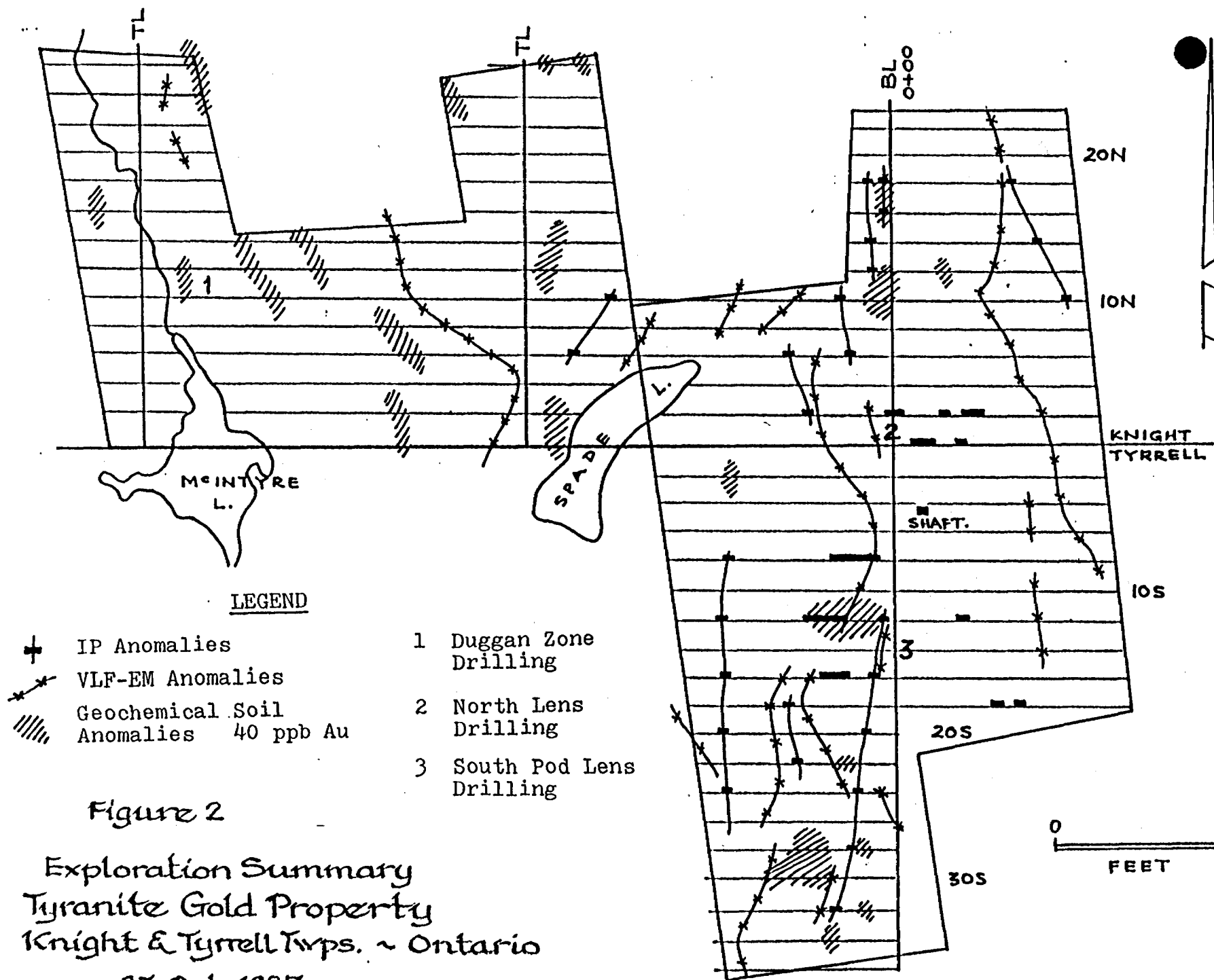
The claim boundary has been redefined and flagged for the total perimeter of the property.

The property has been geologically mapped.

Eight hundred and fifty-nine (859) B-Horizon soil samples were collected from the property and have been analyzed for gold, copper and arsenic.

A power stripping programme commenced on the Duggan Zone in late August and continued at various points on the property through September.

A programme of diamond drilling was initiated on the claim group in mid-August and to the end of September, 1987, twenty-two (22) drill holes for a total of 8,048 feet have been completed on the property. Table 1.



LEGEND

- | | | | |
|---|--------------------------------------|---|-------------------------|
| + | IP Anomalies | 1 | Duggan Zone Drilling |
| * | VLF-EM Anomalies | 2 | North Lens Drilling |
| | Geochemical Soil Anomalies 40 ppb Au | 3 | South Pod Lens Drilling |

Figure 2

Exploration Summary
 Tyrannite Gold Property
 Knight & Tyrrell Twp. ~ Ontario

23 Oct. 1987

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 FEET

Table 1
Diamond Drill Holes - Tyranite Property
August - September 30, 1987

<u>HOLE</u>	<u>LOCATION</u>		<u>DIP</u>	<u>LENGTH (FT)</u>
	<u>LINE</u>	<u>STATION</u>		
<u>DUGGAN ZONE</u>				
2001-01	12N	49W	-50°W	300
2001-02	11N	49W	-50°W	300
2001-03	13N	49W	-50°W	300
2001-04	14N	49W	-50°W	354
2001-05	15N	49W	-50°W	300
2001-06	16N	49W	-50°W	300
2001-07	14+50N	49W	-50°W	300
2001-08	13+50N	49W	-50°W	303
2001-09	12+50N	49W	-50°W	300
2001-10	11+50N	49W	-50°W	300
2001-11	10+50N	49W	-50W	300
<u>NORTH LENS</u>				
2001-12	3N	2+75W	-50°E	500
2001-13	2N	2+75W	-50°E	500
2001-14	1N	2+75W	-50°E	500
2001-15	0+00	2+75W	-50°E	500
2001-16	1S	2+75W	-50°E	591
<u>QUARTZ SHEAR ZONE</u>				
2001-17	0+00		-50°E	350

SOUTH POD LENS

2001-18	14S	3+50W	-50°E	350
2001-19	15S	3+50W	-50°E	350
2001-20	16S	3+50W	-50°E	350
2001-21	17S	3+50W	-50°E	350
2001-22	20S	3+50W	-50°E	<u>350</u>
			TOTAL	8,048 ft.

All of the property has been geologically mapped along the lines at 200 foot spacing and the results are plotted in Plate 1. Additional geological mapping is continuing of the stripped areas and this data will be added to the geological map upon completion of all of the mapping.

The magnetometer survey was carried out along the east-west lines using an EDA Omni magnetometer. Readings were taken at 50 foot intervals and at 25 foot intervals when required with corrections being applied from recorded base station readings. The results are shown in Plate 2.

The VLF-EM survey was carried out along east-west lines with using Annapolis, Maryland transmitter at 17.6 KHz. The receiver was a Geonix EM16 unit with in-phase and quadrature readings being taken at 100 foot intervals or 50 foot intervals where required. The results are presented in Plate 3.

An IP survey on the eastern part of the property east of Tie-line 26+00 W was carried out by Exsics Exploration Ltd. of Timmins. A copy of the Exsics IP report is appended to this report.

A geochemical B-Horizon soil sampling programme was carried out along the east-west lines with samples being taken at 100 foot intervals where soil conditions permitted. Samples were bagged and dried and analysed by Assayers Limited, Toronto for gold, copper and arsenic. The values obtained are presented in Plates 4, 5 and 6.

A power stripping programme began on the Duggan zone with a 690 backhoe. In addition, a smaller backhoe mounted on a Bombardier tractor was used to trench some of the smaller areas on a reconnaissance basis. The Duggan Zone, the mineralized northern end of the main Tyranite structure north of the shaft area, an area of high IP resistivity just north of the Tyranite shaft, the Quartz Shear zone, and areas south of the South Pod Lens were stripped. These areas are currently being geologically mapped.

An 11,000 foot diamond drilling programme commenced in mid-August with drilling starting on the Duggan Zone. Eleven (11) holes have been drilled at 50 foot centres along the strike of the Duggan Zone to intersect the mineralization at a depth of approximately 150 feet below surface. Five (5) holes were drilled on the North Lens along the strike of the main Tyranite structure north of the Tyranite shaft. One (1) hole was drilled to initially intersect the Quartz Shear Zone approximately 400 feet northeast of the Tyranite shaft and five (5) holes have been drilled along the strike of the South Pod Lens approximately 1,000 feet south of the Tyranite shaft. Drilling is continuing with two (2) machines; one (1) on the Duggan Zone and one (1) in the area of the South Pod Lens. The machine currently drilling on the Duggan Zone will be moved to evaluate the IP anomalies.

3.2 EXPENDITURES TO DATE

The exploration expenditures on the Tyranite property to September 30, 1987 are \$367,258. These expenditures do not include work being done on shaft rehabilitation and site preparation in anticipation of head-frame erection and dewatering.

4. RESULTS

4.1 GEOLOGY, GEOPHYSICS, GEOCHEMISTRY

The results of the geological mapping, the geophysical surveys and the geochemical soil sampling are presented in the accompanying maps, Plates 1 to 6 inclusive. The geophysical and geochemical results are summarized in Figure 2 and the reader is referred to Plates 1 to 6 for the detailed information. In addition, the reader is referred to the appended Exsics Exploration Ltd. IP report for the area east of tie-line 26+00 W.

4.2 DIAMOND DRILLING RESULTS

4.2.1 DUGGAN ZONE DRILLING

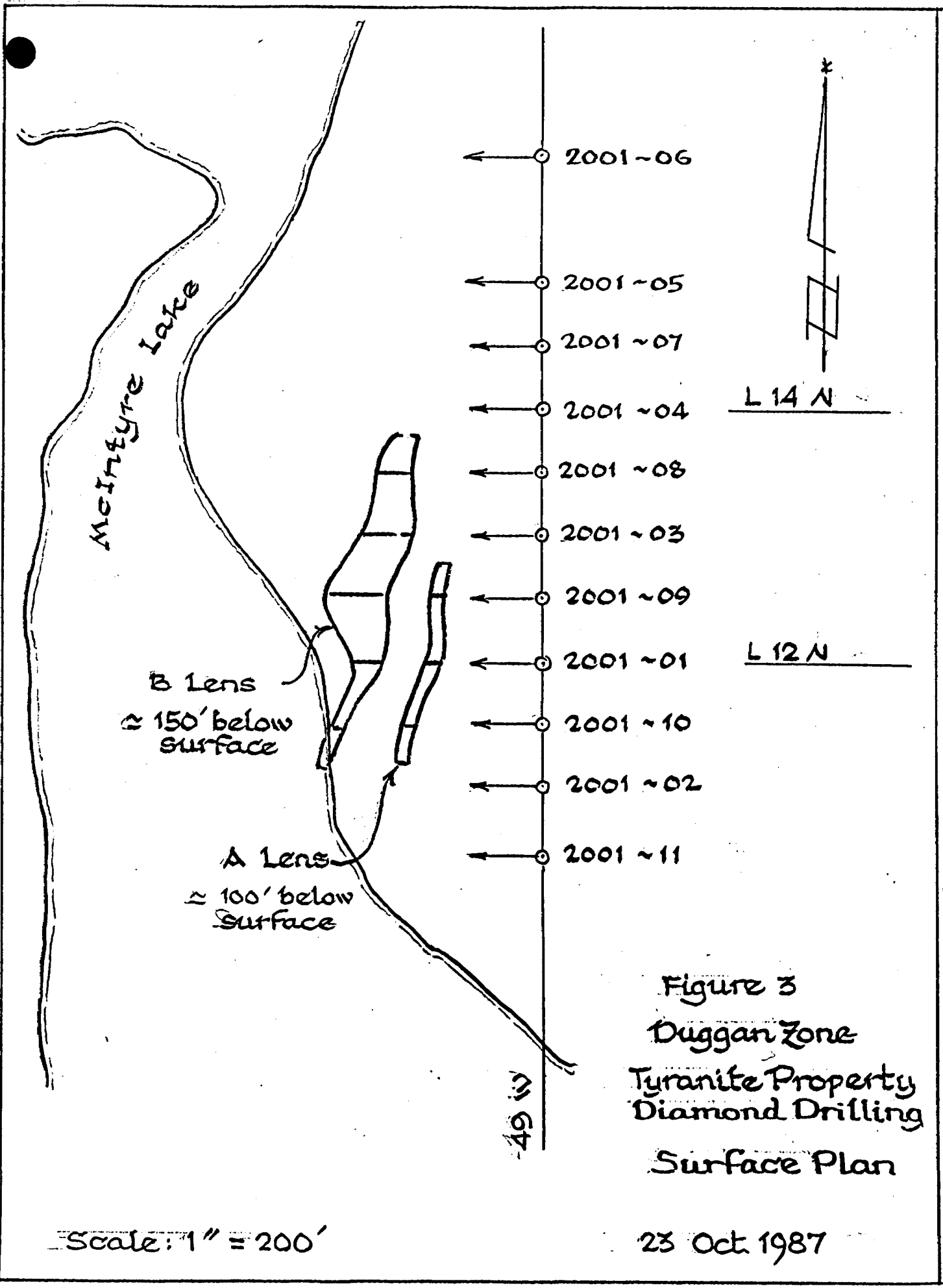
Eleven (11) holes have been completed on the Duggan Zone and these holes have identified two (2) mineralized gold-bearing lenses as summarized below. (Figure 3).

A Lens

The A Lens was intersected in Holes 2001-01, -09 and -10. It is a north-south striking and west-dipping zone (75°) with an estimated length of 150 feet, an average true width of 5 feet and an average grade of 0.144 oz of gold/ton at approximately 100 feet below surface. The length of this lens is closed-off by holes 2001-03 to the north and 2001-02 to the south.

B Lens

The B Lens was intersected in Holes 2001-01, -03, -08, -09 and -10. It is also a north-south striking lens lying approximately 35 feet west of the A Lens with a westerly dip (75°), an estimated strike length of 250 feet, an average true width of 20 feet and an average grade of 0.0956 oz of gold/ton at approximately 150 feet below surface. The zone appears to be



Scale: 1" = 200'

Figure 3
 Duggan Zone
 Tyrinite Property
 Diamond Drilling
 Surface Plan

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closed off to the north by Hole 2001-04 and to the south by Hole 2001-02. It is considered that the B Lens is the Duggan Zone as defined by earlier drilling. On this basis, the A Lens represents a parallel zone lying in the footwall of the main Duggan Zone.

Intersections in Holes 2001-04, -07 and 2001-06 indicate additional mineralization northwest of zones A and B but there is insufficient data to outline actual zones of mineralization at this time. Further work after freeze-up in this area will assist in further defining this situation.

Preliminary drill logs and cross sections showing all of the holes drilled in the Duggan Zone are appended to this report.

Table 2
Duggan Zone Drill Results - Tyrinite Property

<u>August - September 30, 1987</u>				
<u>HOLE</u>	<u>FROM (ft)</u>	<u>TO (ft)</u>	<u>CORE LENGTH (ft)</u>	<u>ASSAY (oz/t Au)</u>
2001-01	120	130	10	0.149
	including			
	122.5	127.5	5	0.243
	182	215	33	0.044
2001-02	no significant intersections			
2001-03	150	159	9	0.053
	170	210	40	0.068
2001-04	287	306	19	0.05
2001-05	no results available as yet.			
2001-06	259	267	8	0.190
2001-07	155	159	4	0.297
2001-08	132.3	134	1.7	0.060
	147	195	48	0.087
	including			
	147	150.5	3.5	0.165
	165	168	3.0	0.157
	177	180	3.0	0.165

	189	192	3.0	0.146
	213	285	72	0.068
	including			
	213	216	3.0	0.177
	240	245	5.0	0.118
	270	275	5.0	0.156
2001-09	116	129	13	0.05
	180	256	76	0.097
	including			
	180	195	15	0.27
	200	206	6	0.117
	212	232.5	20.5	0.086
	244	256	12	0.101
2001-10	145.0	154.2	9.2	0.271
	229.5	240.0	10.5	3.000
	this includes 3.6 ft at 8.62 oz/ton			
	when this assay is cut to 1 oz/ton the results is			
	229.5	240.0	10.5	0.392
2001-11	no significant intersections			

4.2.2 NORTH LENS DRILLING

Five (5) holes were drilled to intersect the North Lens and its northern extension north of the main Tyrinite shaft. These holes were designed to intersect the structure at approximately 275 to 300 feet below surface. The location of the holes is shown in Figure 4 and preliminary drill logs and cross sections of the holes are appended to the report.

All holes have intersected sulphide mineralization, and alteration which is considered to be the main North Lens structure. Assay results at the time of writing are incomplete.

4.2.3 QUARTZ SHEAR ZONE DRILLING

One (1) hole was drilled on the Quartz Shear Zone following stripping of this structure. In outcrop, a shear zone

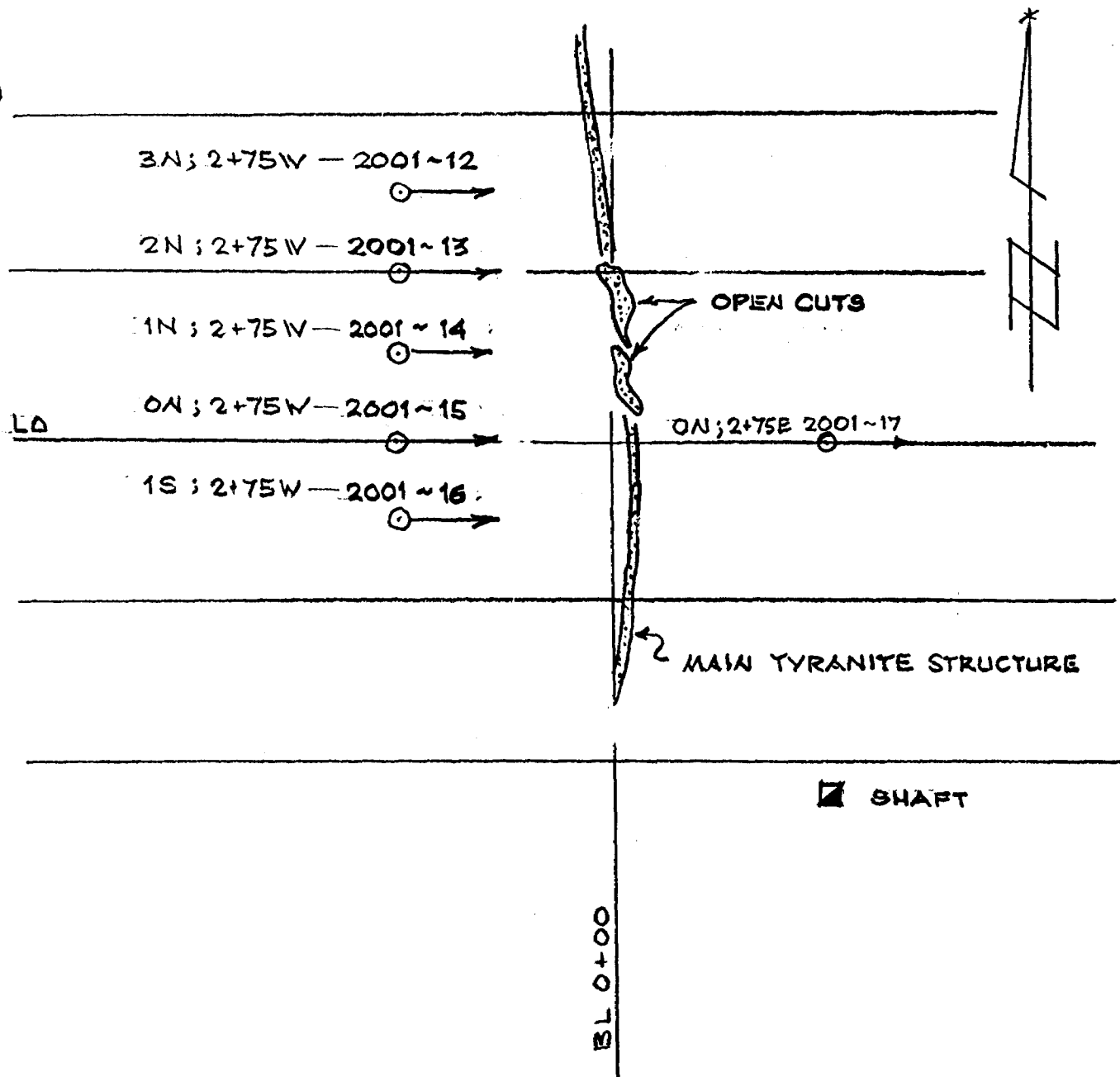


Figure 4
 Tyrinite Drilling
 North Lens - Main Structure
 Surface Plan

Scale: 1" = 200'

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carrying a narrow quartz vein is exposed and a similar zone was intersected in drill hole 2001-17. No assay results have been received from this work as yet. The hole location is shown in Figure 4.

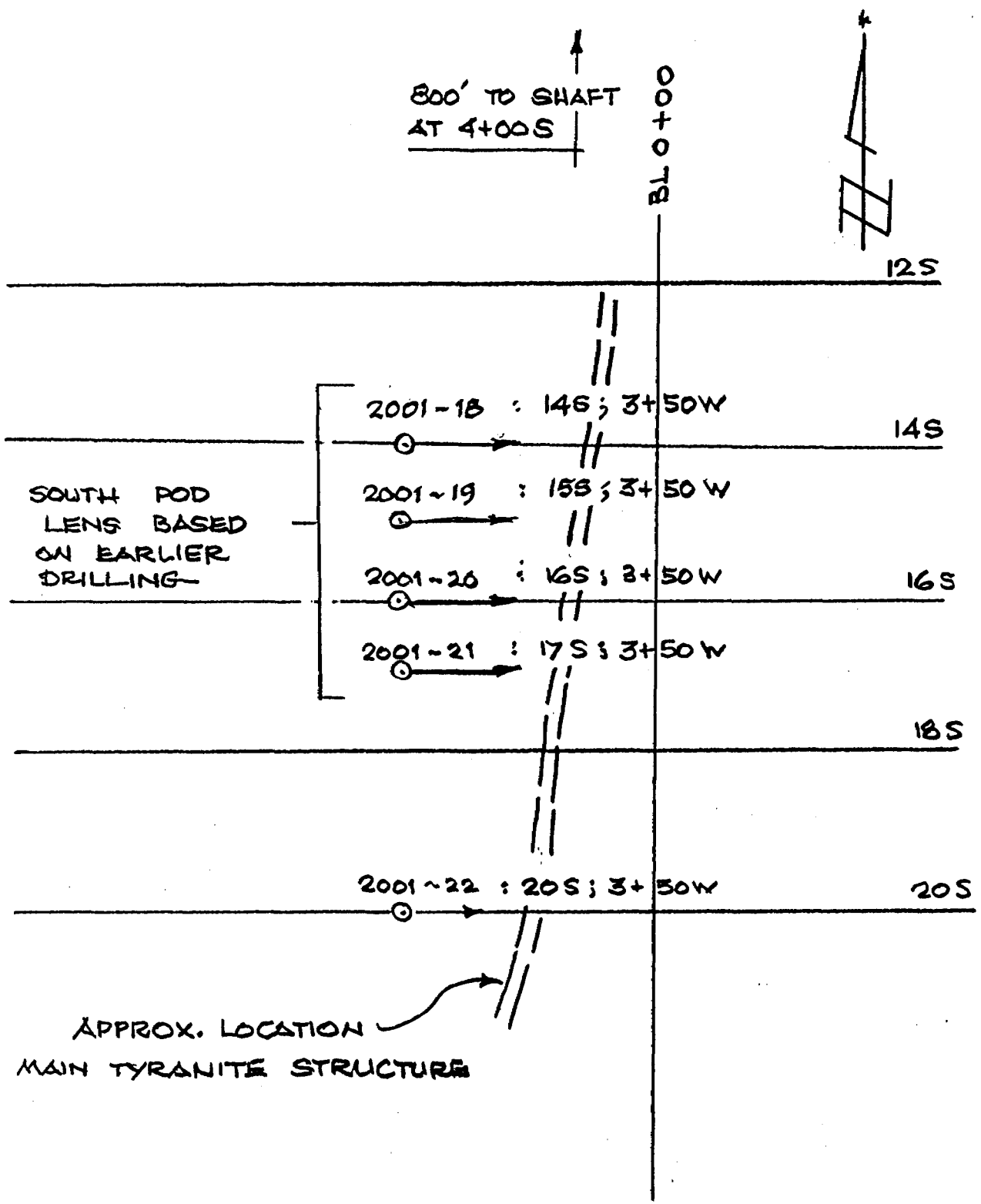
4.2.4 SOUTH POD LENS DRILLING

Five (5) holes, #18 to 22 inclusive, have been completed as a preliminary programme on the South Pod Lens. The location of the holes was based on drill results obtained by Tyrinite Gold Mines during the 1930's and early 1940's as well as the recently completed IP survey. The location of the holes are shown in Figure 5 and preliminary drill logs and drill sections are appended to the report. Sulphide mineralization with associated carbonatization and silicification have been intersected in all holes although the distribution of this material is spotty. In addition, a diabase dyke occupies a section of the main structure. The assay results are incomplete for these holes but all available assays are reported in the preliminary drill logs.

5. SURFACE EXPLORATION PROGRAMME - 4TH QUARTER, 1987

The diamond drilling programme is continuing on the property with the following areas to be drilled.

1. Follow-up drilling on the Duggan Zone after freeze-up so that access is available to MacIntyre Lake lying to the west or hanging wall of the mineralized zone. The Duggan Zone will also be tested both north and south along strike from its presently known location.
2. Follow-up drilling of results from the North Lens, South Pod Lens, and Quartz Shear Zone areas as assay results dictate.
3. Evaluation of presently known IP anomalies and in particular where associated with a geochemical response or additional



APPROX. LOCATION
MAIN TYRANITE STRUCTURE

Figure 5

Tyrannite Drilling
South Rod Lens
Main Structure
Surface Plan

1" = 200'
23 October 1987

geological and/or geophysical information.

4. Completion of the IP survey on the western part of the property west of the tie-line 26+00 W. This will cover the area of the Duggan Zone and its extension to the north and south. This work will be completed following freeze-up so that the ice of McIntyre Lake can be utilized for survey purposes.
5. Geological mapping of the stripped areas is in progress and it is intended to complete this work before the area is covered by snow.

6. SUMMARY AND CONCLUSIONS

It is considered that the results of the geophysical and geochemical programmes in conjunction with the geological mapping have identified a number of potential targets. That will be evaluated by diamond drilling.

The drilling on the Duggan Zone to date has outlined two (2) parallel mineralized zones and other intersections are present within the immediate area and require further evaluation. It is considered that additional work is required to evaluate these intersections as well as the down-dip projection of the presently known A and B Lenses in the Duggan Zone. Following completion of the IP work in the Duggan Zone area, additional drilling will be considered to evaluate the Duggan Zone north and south of its presently known location.

Drilling on both the North Lens and the South Pod Lens have intersected sulphide mineralization in association with silicification and carbonatization. The assay results are incomplete on the drilling from both of these zones at present.

Additional drilling in the area of the Quartz Shear Zone will be considered following receipt of assay results.

In general, it is considered that the programme is progressing favourably and that the programme should be successfully completed by February 29, 1988 and within the estimated budget.

Respectively submitted,

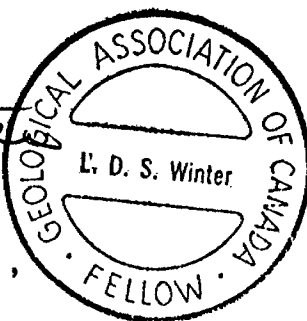
L.D.S. Winter

L.D.S. Winter

B.A.Sc., M.Sc., F.G.A.C.

For Norwin Resources Ltd.,

October 23, 1987





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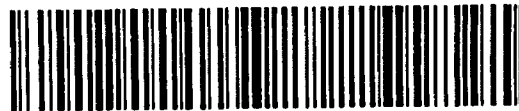
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GEOPHYSICAL REPORT
on the
TYRANITE PROPERTY
FOR
GUNNAR/MILL CITY GOLD INC.

Prepared by:

R.J. Meikle

0M87-6-L-238



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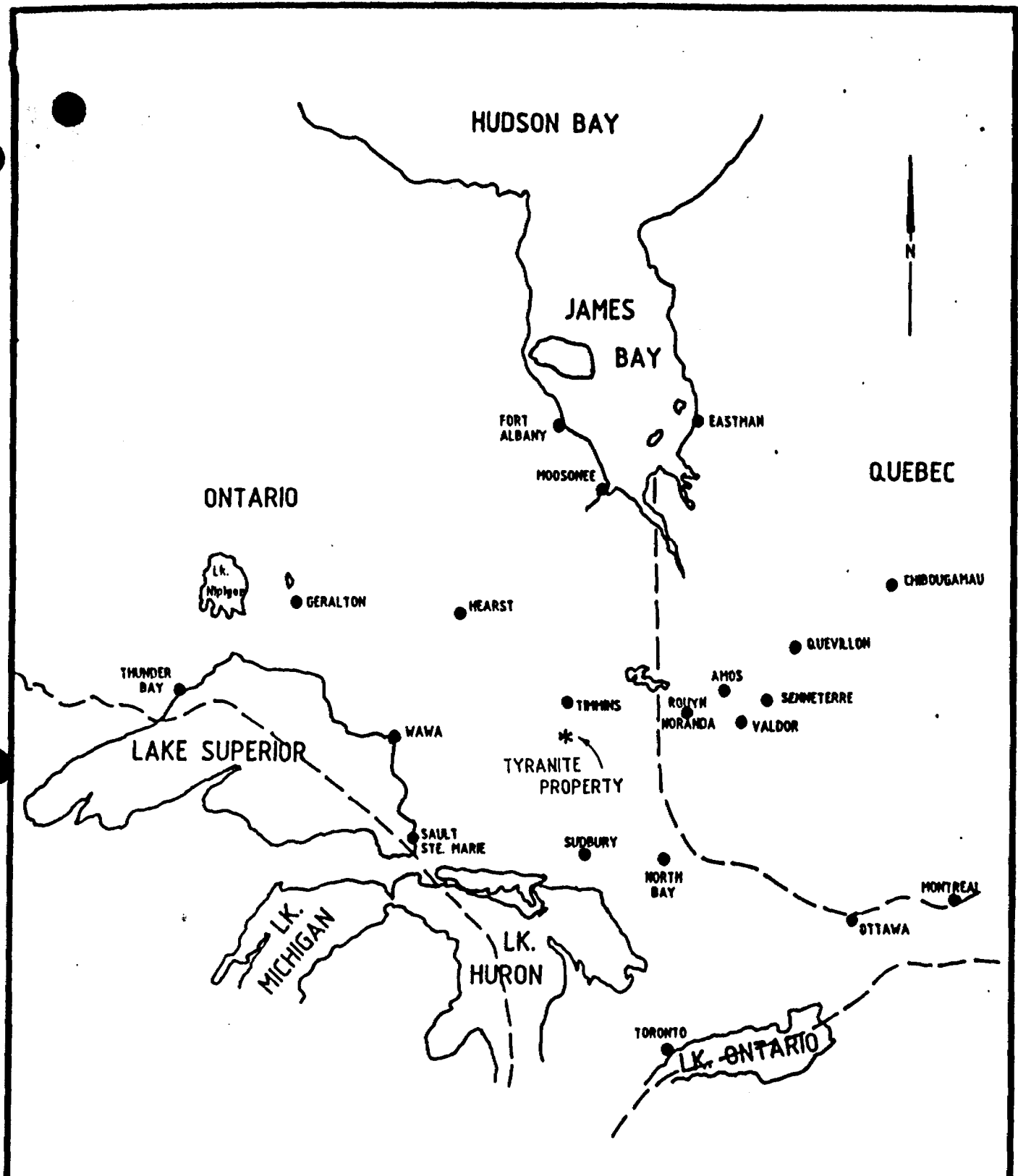
INTRODUCTION


An Induced Polarization survey was carried out on the Tyranite Property for Gunner/Mill City Gold Inc. in October, 1987. The survey covered the western portion of the property not covered by the August, 1987 survey described in a report "Geophysical Report on the Tyranite Property for Tyranex Gold Inc. by R.J. Meikle, August 27, 1987". This report deals with the survey parameters and results and is intended to be added to the above mentioned previous report.

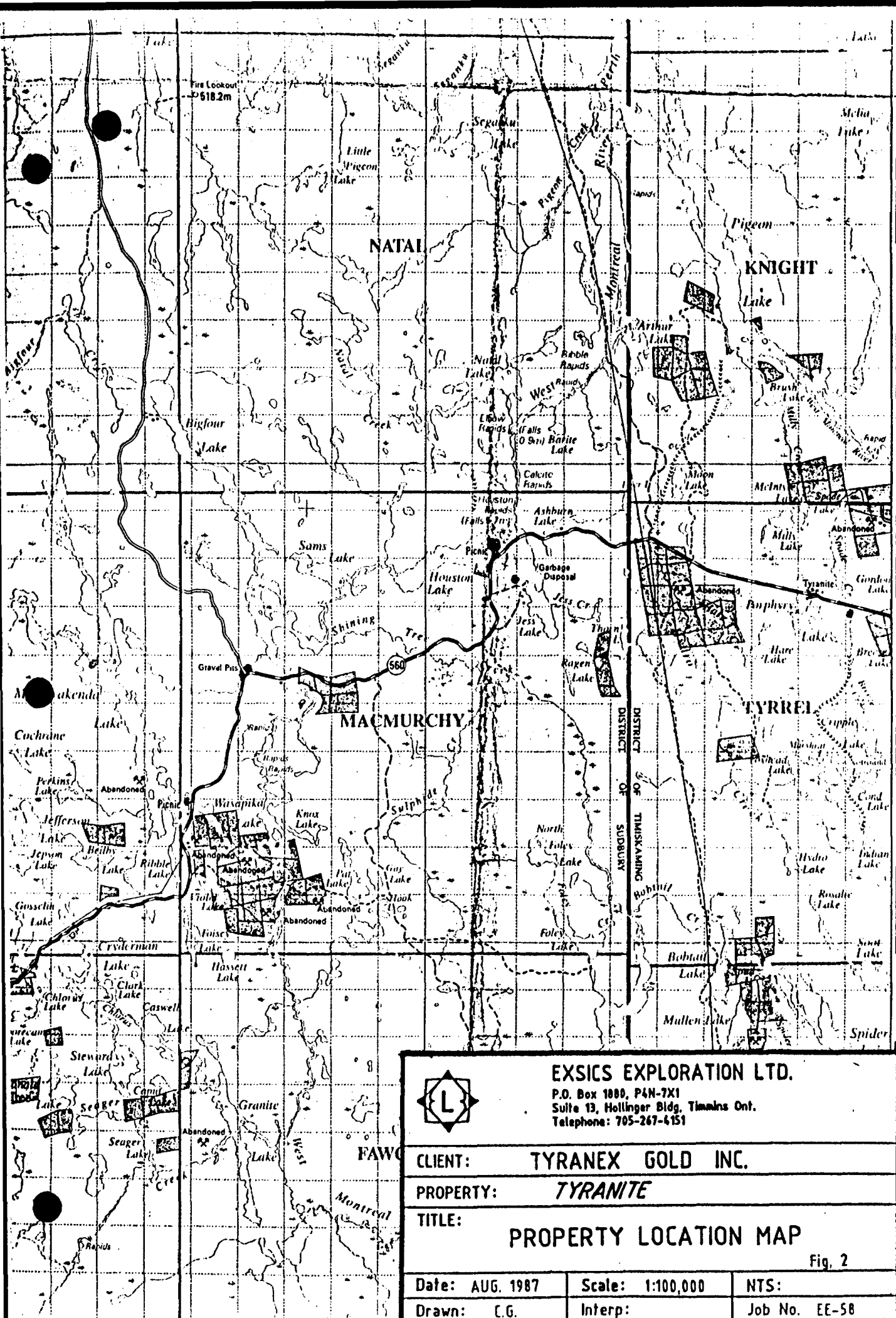
LOCATION AND ACCESS


The property is located approximately 28 km NE of the town of Shining Tree, Ontario. It consists of a group of patented claims straddling the boundary between Tyrrel Township and Knight Township in the Larder Lake Mining Division, Ontario.

Access to the property is via Highway 560 east from Shining Tree or west from Gowganda to Breeze Lake and north on a good road in to the former minesite (Fig. 1&2).



	EXSICS EXPLORATION LTD. P.O. Box 989, P4M-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 795-267-4151	
	CLIENT: TYRANEX GOLD INC.	
PROPERTY: TYRANITE		
TITLE: <div style="text-align: center; font-size: 1.2em;">LOCATION MAP</div>		
Fig. 1		
Date: AUG. 1987	Scale: 1" = 125miles	NTS:
Drawn: C.G.	Interp:	Job No. EE-58



	EXSICS EXPLORATION LTD.	
	P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151	
CLIENT:	TYRANEX GOLD INC.	
PROPERTY:	TYRANITE	
TITLE:	PROPERTY LOCATION MAP	
Fig. 2		
Date: AUG. 1987	Scale: 1:100,000	NTS:
Drawn: C.G.	Interp:	Job No. EE-58

PERSONNEL

The following personnel were directly involved with the project:

- Brian KeenTimmins, Ontario
- Peter Rasmussen Timmins, Ontario
- Gerry Boucher Timmins, Ontario
- Ed Brunet Timmins, Ontario
- Andre GravalTimmins, Ontario
- Ray MeikleTimmins, Ontario

INDUCED POLARIZATION SURVEY

The IP method involves applying voltage across two electrodes in a pulsed manner i.e. 2 second on, 2 second off. A second "dipole" or electrode pair, measures the residual potential or voltage between them after the voltage is shut off or during the 2 second off cycle. The potential is recorded at different times after the shut off. If, for example, there is sulphide mineralization within the measuring dipoles, they will be polarized or charges set up in the sulphide particles. This polarization gives the zone a capacitor effect, thereby blocking the current delay giving a higher chargeability reading.

A typical signature for many gold showings would be a chargeability high, resistivity high and magnetic low. This would be characteristic of a mineralized, highly altered carbonitized and/or silicified zone. However, this is by no means the only geological setting for gold, therefore every IP profile should be looked at individually and correlated with all other geophysical-geological data.

Because of contact problems in the previous survey, a "gradient array" method was used. In this array, two electrodes (C1 and C2) are placed a fixed distance off each end of a survey line. A voltage is applied across these two electrodes and a continuous 2 second on, 2 second off pulse is maintained. A receiver dipole of 50 feet is moved along the C1 C2 line as well as parallel lines. Only the middle third section is surveyed to ensure that neither C1 or C2 influence the dipole. This array generates one chargeability reading and one apparent resistivity reading every 100 feet along the lines surveyed. A conductive sulphide zone would yield a high chargeability-low resistivity while a disseminated, silicified altered sulphide zone would have a high chargeability and a high resistivity.

PARAMETERS

Method Time Domain
Electrode Gradient
"a" spacing 50 feet
Pulse Duration 2 seconds on, 2 seconds off
Delay Time 900 ms
Integration Time 450 ms
Receiver Scintrex IPR-8
Transmitter Scintrex TSQ-3 2.5 kVA

SURVEY RESULTS

The IP survey delineated several NS striking zones. Generally, the anomalies appear to be narrow, chargeable, resistive zones. The gradient array method appears to have worked well on this property. The anomalies are described as follows:

Anomaly "A" This is an anomalous zone thought to be continuous from L0-L18N, open at both ends. The response on L18N is coincident with the "Dugan Zone" and because of extensive stripping, insufficient contact was obtained to get complete IP coverage over the zone. As well, there is a gap from L8-16N with no data because of McIntyre Lake. The zone is assumed to continue through. The anomaly is characterized by a high chargeability and high resistivity.

Anomaly "B,C"

These two parallel anomalies lie just west of TL5340W. They are open to the south but do not appear to have any northward strike extent. They are characterized by a high chargeability but have a much lower apparent resistivity than the other anomalies.

Anomaly "D" This is a NS zone which is assumed to be continuous but only has a chargeability response on L0/2875W, L4N/30W and L12N/3050W.

Anomaly "E" This is a one line response on L0/3375W which is open to the south.

Anomaly "F" This anomaly extends from L2N to L16N and is open at both ends. It is stronger on L8N/4025W, L12N/4075W and L14N/4075W.

Anomaly "G" This is a chargeability high on L12N/2250W. It does not extend to the north but is open to the south.

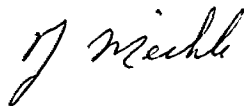
RECOMMENDATIONS

All of the above mentioned anomalies should be explained by trenching and/or diamond drilling. The order of priority would depend on geological information available.

The results suggest that the anomalies may be caused by disseminated sulphides which are very lensy and discontinuous in nature.

In spotting trenches and drill holes, care should be exercised to establish the proper picket location. All locations given use the original baseline as 0+00. All picket readings are west and east of this baseline. The actual picket numbering in the field is apparently somewhat different in that they used a new 0+00 at TL26W and TL53+40W for some lines. However, if locations chained from the tielines are used as per maps there should be no confusion.

Respectfully Submitted,



R.J. Meikle

CERTIFICATION

I, Raymond Meikle of Timmins, Ontario hereby certify that:

1. I hold a three year Technologist Diploma from the Haileybury School of Mines, Haileybury, Ontario obtained in 1975.
2. I have been practising my profession since 1973 in Ontario, Quebec, NWT, Manitoba, New Brunswick, Nova Scotia for Teck Exploration Ltd., Metallgesellschaft Canada Ltd., Rayan Exploration., Sabina Industries Ltd., and most recently Exsics Exploration Ltd.
3. I have based conclusions and recommendations contained in this report on knowledge of the area, my previous experience, and on the results of the field work conducted on the property during July, August, 1987 which was carried out under my overall supervision.
4. I hold no interest, directly or indirectly in this property other than professional fees, nor do I expect to receive any interest in the property or in Gunnar Gold/MillCity Inc. or any of it's subsidiary companies.

Dated this 18th day of January, 1988
at Timmins, Ontario



R.J. Meikle

APPENDIX A

TSQ Serie Time and Frequency Domain Transmitters

The TSQ Transmitters have multifrequency, square wave outputs suitable for induced polarization and resistivity measurements in either the time or frequency domain. Both the 750 Watt TSQ-2E and the 3000 Watt TSQ-3 transmitter consoles are powered by a separate motor generator.

These transmitters were designed primarily for use with the Scintrex IPR time domain and IPRF-2 frequency domain receivers although they are compatible with most receivers. The standard frequency domain frequencies are 0.1, 0.3, 1.0 and 3.0 Hz while the standard time domain pulse durations are 1, 2, 4 and 8 seconds. Other frequencies and timings are optional.

The TSQ transmitters feature output overload, underload, thermal, input voltage overload and other built-in safety protections. They have very favorable power/weight ratios, solid state circuitry and a high efficiency.

Current amplitude stabilization is an important feature of the TSQ Transmitters. The current can be held stable within $\pm 0.1\%$ for large external load variations or up to $\pm 10\%$ input voltage variation.

The TSQ-2E Transmitter weighs only 11.5 kg but gives the following maximum outputs: 5A, 1000 V or 750 VA. The TSQ-3, weighing 25.0 kg has maximum outputs of: 10A, 1500 V or 3000 VA.

TSQ Serie de Transmisores para Dominio del Tiempo y Frecuencia

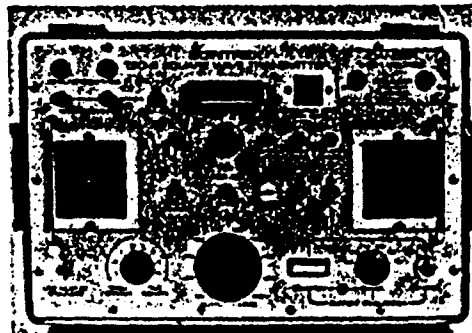
Los transmisores TSQ son de multifrecuencias y de onda cuadrada, útiles para medidas de polarización inducida y resistividad en el dominio del tiempo y de frecuencia. Tanto el TSQ-2E de 750 Watt, como el TSQ-3 de 3000 Watt son consolas de transmisión que requieren energía de un motor-generador separado.

Estos transmisores fueron diseñados, principalmente, para uso con los receptores Scintrex IPR en el dominio del tiempo e IPRF-2 en el dominio de frecuencia, pero sin embargo, son compatibles con muchos otros receptores. Las frecuencias standard son 0.1, 0.3, 1.0 y 3.0 Hz, en tanto que la duración de pulsos en el dominio del tiempo son normalmente de 1, 2, 4 y 8 segundos. Otros tiempos y frecuencias son opcionales.

Los transmisores TSQ tienen protección incorporada contra sobrecargas, bajos voltajes, efectos térmicos y otros. Tienen relaciones de potencia/peso muy favorables, junto a una alta eficiencia y circuitos de estado sólido.

Una importante característica de los transmisores TSQ es la estabilización de amplitud de corriente. La corriente puede mantenerse estable en $\pm 0.1\%$ bajo grandes variaciones del cargado externo, y hasta $\pm 10\%$ para variaciones de voltaje de entrada del motor.

El transmisor TSQ-2E pesa solo 11.5 kg y tiene salidas máximas de: 5A, 1000V ó 750 VA. El TSQ-3, que pesa 25.0 kg, tiene salidas máximas de: 10A, 1500V ó 3000 VA.



TSQ-3/3000W

TSQ: Emetteurs en domaines de temps et de fréquence.

Les émetteurs TSQ fournissent des sorties à plusieurs fréquences d'ondes carrées convenant aux mesures de polarisation provoquée et de résistivité en domaine de temps ou de fréquence. Les deux émetteurs de 750 W, modèle TSQ-2E et de 3000 Watts, modèle TSQ-3 sont alimentés par un groupe électrogène séparé.

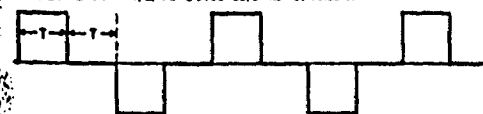
Ces émetteurs sont conçus principalement pour une utilisation avec les récepteurs Scintrex de type IPR pour le domaine de temps et IPRF-2 pour le domaine de fréquence, bien qu'ils soient compatibles avec la plupart des récepteurs. Les fréquences standard en domaine de fréquence sont de 0.1, 0.3, 1.0 et 3.0 Hz, cependant que les durées d'impulsion en domaine de temps sont de 1, 2, 4 et 8 secondes. D'autres fréquences et minutages sont facultatifs.

Les émetteurs TSQ-3 sont caractérisés par des circuits de protection de sortie: de surcharge, de charge trop faible, thermique, d'entrée de tension maximum et d'autres protections de sécurité incorporées. Ils ont un rapport puissance/poids très favorable, des circuits à semi-conducteurs et une haute efficacité.

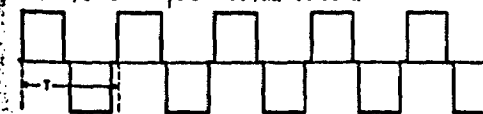
La stabilisation d'amplitude de courant est une caractéristique importante des émetteurs de type TSQ. Le courant peut être maintenu stable à moins de $\pm 0.1\%$ pour de grandes variations de charge externe ou pour jusqu'à $\pm 10\%$ de variation de tension d'entrée.

Le poids de l'émetteur TSQ-2E est de 11,5 kg seulement et il a les maximums de sortie suivants: 5 A, 1000 V ou 750 volt-ampères. Le TSQ-3 qui pèse 25 kg a les maximums de sortie suivants: 10 A, 1500 V ou 3000 VA.

Time Domain: $T = 1, 2, 4$ or 8 seconds, switch selectable.



Frequency Domain: $T = \frac{1}{f}$ and $f = 0.01, 0.3, 1.0$ or 3.0 Hz.



TSQ-2E/750 W

APPENDIX B

Induced Polarization - Receivers

IPR-8 Analog Time Domain Induced Polarization Receiver

The IPR-8 is the least expensive time domain IP receiver available from Scintrex. It offers a good deal of information about curve shape and is simple to operate.

Up to 20 standard selectable integration channels.

1, 3 or 6 channels simultaneously integrated.

Automatic memory register storage for up to 6 channels.

Reads directly in V_s/V_0 , normalized for channel width and number of pulses selected.

Automatic programmer for averaging 2, 4 or 8 cycles.

Multiple channel readouts normalized for standard decay curve shape, providing immediate field indication of anomalous curve shape.

Synchronous gating to reduce mistrigging by noise.

Automatic self-potential tracking.

Calibrated manual SP bucking for SP measurements.

Usable with any time domain transmitter.

High input impedance.

Built-in external circuit tester.

Excellent power line noise rejection.

Latest COS/MOS circuitry permits up to two months battery life using only 4 D cells.

Very light weight at 3.6 kg complete with batteries.

IPR-8 Receptor de Polarización Inducida en el Dominio del Tiempo, Analógico

El IPR-8 es el Receptor de PI que Scintrex brinda de manera muy económica. Este ofrece una buena distribución de datos para información sobre la forma de la curva de decaimiento y es muy simple de operar.

Hasta 20 canales de integración standard, seleccionables.

Integración simultánea de 1, 3 ó 6 canales.

Almacenamiento automático en registros de memoria de hasta 6 canales.

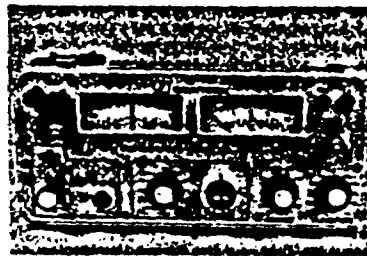
Lectura directa de la razón V_s/V_0 , normalizados por el ancho de canal y número de pulsos, seleccionados.

Programación automática para un promedio de 2, 4 u 8 ciclos.

Lecturas de canales múltiples, normalizadas según una forma standard de curva de decaimiento, proporcionando indicación inmediata de una forma de curva anómala, en el campo.

Ajusto sincrónico que reduce falsa activación por ruido.

Ajuste automático de autopotencial.



Polarización Inducida - Receptores Récepteurs de polarsation provoquée

Calibración manual de autopotencial, valedera en medicas de AP.

Uso con cualquier transmisor en el dominio de tiempo.

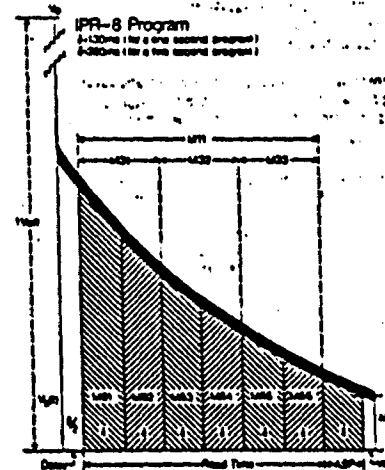
Entrada de alta impedancia.

Círculo externo de comprobación, incorporado.

Excelente rechazo de ruido de líneas de alta tensión.

Circuitos COS/MOS modernos permiten hasta 2 meses de servicio a las 4 baterías de tipo D standard.

Muy liviano; con baterías incluidas alcanza un peso de 3.6 kg.



IPR-8: Récepteur de polarsation provoquée et résistivité en domaine de temps à lecture analogique.

L'appareil IPR-8 est le récepteur de polarsation provoquée en domaine de temps le moins cher, disponible chez Scintrex. Il offre beaucoup d'informations en rapport avec la forme de courbes et, est facile à opérer.

Il offre jusqu'à 20 bandes normales d'intégration à choisir.

1, 3 ou 6 bandes sont intégrées simultanément.

Un emmagasinage à registre de mémoire pour jusqu'à 6 bandes.

Il lit directement en V_s/V_0 et est normalisé pour la largeur de bande et le nombre d'impulsions sélectionnées.

Un programmeur automatique pour l'établissement de moyenne de 2, 4 ou 8 cycles.

Des lectures à bandes multiples normalisées pour la forme de courbe transitoire normale et, tournant une indication sur place de la forme de courbe d'une anomalie.

Un déclenchement périodique synchronisé afin de réduire les faux déclenchements par du bruit.

Un réglage de polarsation spontanée automatique.

Une compensation manuelle de polarsation spontanée, calibrée pour les mesures de polarsation spontanée.

Il est compatible avec n'importe lequel des émetteurs en domaine de temps.

Une impédance d'entrée élevée.

Un contrôleur de résistance du circuit externe est incorporé.

Un excellent rejet des bruits de secteur électrique.

Les circuits de type COS/MOS des plus modernes permettent aux 4 piles "D" de durer jusqu'à deux mois.

Un poids léger de 3.6 kg avec les piles.

IPR-8 Analog Time Domain Induced Polarization Receiver

The IPR-8 is the least expensive time domain IP receiver available from Scintrex. It offers a good deal of information about curve shape and is simple to operate.

Up to 20 standard selectable integration channels.

1, 3 or 6 channels simultaneously integrated.

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Reads directly in V_s/V_p , normalized for channel width and number of pulses selected.

Automatic programmer for averaging 2, 4 or 8 cycles.

Multiple channel readouts normalized for standard decay curve shape, providing immediate field indication of anomalous curve shape.

Synchronous gating to reduce mistriggering by noise.

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Usable with any time domain transmitter.

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Very light weight at 3.6 kg complete with batteries.

IPR-8 Receptor de Polarización Inducida en el Dominio del Tiempo, Analógico

El IPR-8 es el Receptor de PI que Scintrex brinda de manera muy económica. Este ofrece una buena distribución de datos para información sobre la forma de la curva de decaimiento y es muy simple de operar.

Hasta 20 canales de integración standard, seleccionables.

Integración simultánea de 1, 3 ó 6 canales.

Almacenamiento automático en registros de memoria de hasta 6 canales.

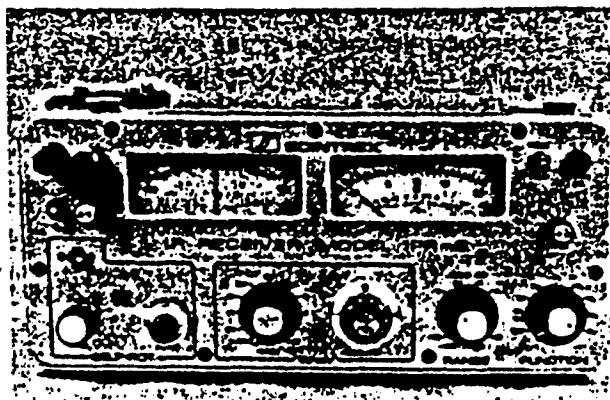
Lectura directa de la razón V_s/V_p , normalizados por el ancho de canal y número de pulsos, seleccionados.

Programación automática para un promedio de 2, 4 u 8 ciclos.

Lecturas de canales múltiples, normalizados según una forma standard de curva de decaimiento, proporcionando indicación inmediata de una forma de curva anómala, en el campo.

Ajusto sincrónico que reduce falsa activación por ruido.

Ajuste automático de autopotencial.





41P11NE0011 63.5256 KNIGHT

030

SUMMARY REPORT
ON THE
POWER STRIPPING PROGRAMME
TYRANITE PROJECT
KNIGHT & TYRRELL TOWNSHIPS
ONTARIO
FOR
GUNNAR GOLD/MILL CITY GOLD INC.

January, 1988

0M87-6-L-238

1. INTRODUCTION

The Tyranite property consists of 13 claims, straddling the Knight-Tyrrell township line in the district of Timiskaming. The claim group is about 20 kilometers west of Gowganda, Ontario, along highway 560.

During September and October 1987, an overburden stripping program was carried out to evaluate geochemical and geophysically anomalous zones. Geophysics and geochemical, soil sampling had been previously completed in June and July of 1987. Additional stripping was done over sections of the property which had been trench and diamond drilled as far back as the early 1940's.

The majority of the stripping was done by a John Deere 690-backhoe under contract from Paiement Excavating of Earlton, by a bombardier-mounted backhoe under contract from Alquest Explorations of Timmins, and a JD-450 dozer from Clint Gunter Construction of Shining Tree. A total of 136,900 square feet of stripping was completed.

The area of the old mine site was stripped and cleared at this same time by equipment under lease from Diamonds International. This work consisted of clearing, levelling of old muck piles and the topography for temporary facilities and the preparation of water storage ponds relative to environmental requirements in preparation for a shaft dewatering programme for underground exploration.

2. WORK DONE AND RESULTS

The main stripping was done on the Duggan zone and the Decker zones, with areas of 79,000 square feet and 22,000 square feet respectively. Overburden in these zones averaged about 5 feet. Duggan stripping uncovered a large, intensely altered section of the Milly Creek pluton, consisting of strongly calcite altered monzonites to diorites. The zone was noted to pinch to the north and was cut off to the south by McIntyre Lake.

Strongly mineralized intrusive occurred throughout the stripped area. Detail mapping has since been completed on this zone. (See attached map).

The Decker zone stripping uncovered a major shear zone within diorites/monzonites with a 15-20 foot mafic dyke running roughly parallel to the stripped length. Both the monzonite and dyke exhibit strong calcite alteration with hematite and chlorite alteration. Chloritization is intense within the dyke. Finely disseminated pyrite occurs throughout the sheared monzonite and mafic dyke.

Smaller areas were stripped throughout the property on scales of 13,000 square feet or less, in an attempt to discover the causes of geochemical and geophysical anomalies. A small section was stripped on line 30+00S; 12+00W in order to check a geochemical gold high area, but overburden depths of greater than 25 feet prevented the backhoe from reaching bedrock.

A larger zone on L12+00S; 3+00W was stripped over an induced polarization anomaly. Overburden in this area was 5-10 feet in depth, with a strongly fractured ultramafic to mafic volcanic rock being exposed. Fractures generally contained thin stringers of brassy yellow pyrite. Four deep diamond drill holes were later drilled under this area with only one anomalous value obtained.

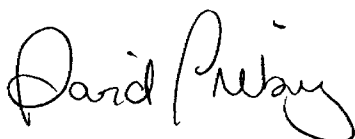
Two zones of stripping were completed on line L0N, from 1+00E to 6+50E. The zone furthest to the east was to follow the extent of a quartz shear zone as noted in older reports. A small milky white quartz vein up to 8 inches in width was traced north and south until it pinched out. No schistosity or sulphide mineralization was noted.

The second zone along line 0+00 was stripped over a broad induced polarization, resistivity anomaly. The zone lay predominantly in a feldspar porphyry with occasional pyritic shears, silicification and local zones of graphite along shear planes. Diamond drilling under this zone produced very sporadic

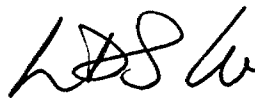
results with some anomalous values in the middle of a 500 foot drill hole.

Three small stripped sections are located between the Duggan zone and Spade Lake. Overburden in these areas is approximately 5 feet. Three high gold anomalies were obtained in these areas and are attributed to overburden effects as no major shearing or quartz veining was noted in bedrock. The bedrock was relatively fresh, monzonites to diorites.

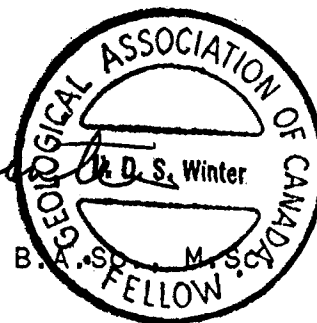
Signed,
January, 1988



David Pilkey B.Sc.



L.D.S. Winter, B.A., M.Sc.





41P11NE0011 63.5256 KNIGHT

040

PROGRESS REPORT
OCTOBER - NOVEMBER - DECEMBER 1987
TYRANITE PROPERTY
KNIGHT & TYRRELL TOWNSHIPS
ONTARIO
FOR
GUNNAR GOLD / MILL CITY GOLD INC.

Norwin Resources Limited
January 25, 1988

0M87-6-L-238

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1. INTRODUCTION

The Tyranite Gold property is located in Knight and Tyrrell townships in the District of Temiskaming approximately 12 miles northwest of Gowganda and 100 miles north of Sudbury, Ontario. The property consists of the former Tyranite Gold Mine which produced 223,810 tons of ore with a recovered grade of 0.147 oz of gold/ton between 1939 and 1942. The property has been held by Dalhousie Oil Company Ltd. for a number of years and it was recently optioned to Tyranex Gold Inc. In turn, Tyranex Gold Inc. has entered into an agreement with Gunnar Gold/Mill City Gold Inc. whereby the latter two (2) companies can earn a 50% interest in the Tyranite property.

An exploration programme was started on the property in June of 1987 with the objective of outlining sufficient mineralization of an economic grade that would permit the property to again be placed in production. The following report outlines work completed on the Tyranite claim group between October 1 and December 31, 1987.

2. PROPERTY LOCATION AND ACCESS

The property consists of 12 leased and 1 staked, contiguous claims as shown on the plans of Tyrrell and Knight townships issued by the Surveys and Mapping Branch of the Ontario Ministry of Natural Resources. The claims are as follows:

<u>Claim Number</u>	<u>Number of Claims</u>
Patented Claims	
GG 5800-05 inclusive	6
GG 5815-17 inclusive	3
GG 6649-51 inclusive	<u>3</u>
Sub-Total	12
Staked Claim	
L 511273	<u>1</u>
Total	13

The property is located on the common boundary between Knight and Tyrrell townships, District of Temiskaming, Ontario at 47° 40N latitude, 81° 00W longitude; approximately 12 miles northwest of the town of Gowganga, Ontario. Access to the property is via a gravel bush road for 1 1/2 miles north from highway 560. This bush road leaves highway 560 approximately 12 miles west of Gowganda.

3. EXPLORATION PROGRAMME - OCTOBER - DECEMBER, 1987

3.1 WORK DONE

The exploration programme continued on the property with an IP survey on the western part of the grid being completed and diamond drilling.

The diamond drilling programme continued with the main targets being the South Pod Lens, the North Lens, the main structure north of the North Lens through to the north claim boundary and the Quartz Shear Zone area. In addition, a number of holes were drilled testing IP/geochemical targets in this same general area. From October 1 through to December 20, 1987, when the programme was shut-down for the Christmas vacation period, a total of 39 holes were drilled totalling 16,050 feet. The hole locations and results obtained are presented in Table 1 and the hole locations to date are shown in the map in the pocket at the back of the report.

3.2 RESULTS

3.2.1 IP SURVEY

The gradient IP survey carried out over the western part of the property has indicated a number of north-south trending features which are interpreted to be due to disseminated sulphides. Seven (7) zones (A to G) have been identified which are shown in the appended report of Exsics Exploration Ltd. dated

January 18, 1988. Of particular interest is the north-south trending IP chargeability/resistivity anomaly associated with the Duggan Zone structure. This structure is currently being evaluated by additional diamond drilling. A second anomaly of interest is anomaly F which is a north-south trending chargeability zone approximately 900 feet east of the Duggan Zone structure. This zone will be evaluated during the course of the current programme.

3.2.2 DIAMOND DRILLING RESULTS

The drilling programme is ongoing so that the following comments represent comments to the end of December. In addition, assay results for a number of holes are still incomplete.

DUGGAN ZONE DRILLING

Seven (7) short 100 foot long diamond drill holes were drilled to sample the Duggan Zone approximately 25 to 50 feet below surface. These holes are shown in the attached plan view and the results are shown in Table 1. In general, the two (2) lenses previously identified in the Duggan Zone, the A lens and the B lens, were intersected, however, it would appear that the results in the previously drilled deeper holes are better than from the short holes close to surface.

NORTH LENS DRILLING

Twelve (12) holes have been drilled to intersect the North Lens and its northern extension north to the north claim boundary. These holes were designed to intersect the structure approximately 250 to 300 feet below surface. The location of the holes is shown in the attached plan view and the results to date are shown in Table 1. In general, the results have been quite encouraging with the main zone being intersected in all holes and with the assay results being variable and ranging between .05 oz of gold/ton to 0.296 oz/ton. The results to date suggest a

mineralized north-south structure containing higher grade shoots or lenses, similar to the situation in the main mine area.

QUARTZ SHEAR ZONE DRILLING

Two (2) holes, 1316-68 and -69, were drilled on line 2N to further evaluate the Quartz Shear Zone area. Hole 68 intersected two (2) sections of approximately of 13 feet in length assaying in the order of .04 oz of gold/ton in a zone of strong alteration and pyrite mineralization. It is considered that this may be a parallel structure to the main north-south break and warrants further testing. Hole 1316-69 drilled further to the east intersected a 5 foot zone assaying .110 oz of gold/ton. This was at a depth of approximately 480 feet and may represent a deeper intersection on the Quartz Shear Zone structure. Further drilling will be carried out in this area.

SOUTH POD LENS

An additional eleven (11) holes were completed on the South Pod Lens. Generally, the results were not encouraging. Most values were in the .04 to .05 oz of gold/ton range. In this area two (2) large diabase dykes are present within the area of the main north-south structure. On the north end of the South Pod Lens and going north towards the main lens, four (4) drill holes testing IP anomalies have intersected mineralization. These are holes 1316-30A, -32 and -49 and -50. Holes 32 and 50 appear to have intersected the main structure where as the mineralization in hole 30A appears to be in a parallel structure. No results are available from hole 49 as yet. Further work is planned for this area.

IP/GEOCHEMICAL ANOMALIES

In general, the results from drilling the IP anomalies to date have not been encouraging. In all cases a structure has been intersected, however the mineralization in most cases has

not been of economic significance. The main exception is in the area between the South Pod Lens and the Main Lens and somewhat to the west of the main structure where intersections have been obtained. See above under South Pod Lens.

4. SURFACE EXPLORATION PROGRAMME - 1ST QUARTER 1988

The diamond drilling programme is continuing on the property with the following areas to be drilled. 1) Follow-up drilling on the Duggan Zone has commenced from along the western side of McIntyre Lake to fully evaluate the Duggan Zone both down-dip and along strike north and south from the main mineralized area. During this work the IP anomaly will be fully evaluated. 2) Drilling is continuing on the North Lens and its extension to the north and drilling on the Quartz Shear Zone area will be carried out. 3) Evaluation of IP anomalies will be continued.

5. SHAFT REHABILITATION AND DE-WATERING PROGRAMME

During the fourth quarter of 1987, upgrading of the original Tyranite Mine Site continued. The existing concrete foundations were upgraded and compressed air lines, water lines and service lines for a surface plant were put in place. A main building consisting of metal and structural steel was completed by McIntyre Contracting and Gunter Construction. Also the compressor and power plant were installed.

Construction and upgrading of the existing concrete piers and footings were completed by Pamo Construction in preparation for receiving the standard timber head-frame. Shaft de-watering was commenced with the water being maintained approximately 60 feet below the collar. Safety work was carried out securing known open holes from past mining.

A fuel storage area was completed and the plumbing and distribution lines were put in place. In addition, a water tank and the necessary plumbing was also installed.

Construction of a security building was completed and security on the property is now on a 24-hour-a-day, 7 days a week basis. A safety programme has been set up and is being carried out in accordance with Ministry of Labour requirements for the total property. Radio, telephone and other emergency measures are in place for communication with the property.

All of the necessary preparations have been completed and the permits are in place to carry out the scheduled exploration and development programme.

A small assay laboratory building has been completed and is currently being equipped for future use.

The main road from the Shining Tree/Gowganda highway to the property has been upgraded and widened through to the mine site. Also, a new access road between the Duggan Zone and the main mine site was completed.

A ramp has been collared (approximately 70 ft) to provide access to the Duggan Zone.

6. EXPENDITURES

The total expenditures on the Tyrinite property to December 31, 1987 are \$2,210,695.

7. SUMMARY AND CONCLUSIONS

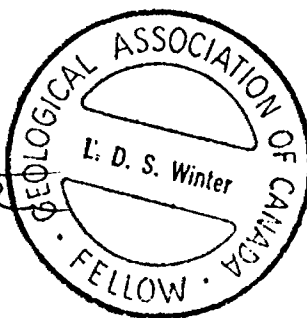
It is considered that the work to date is progressing favorably. Further work is required in the first quarter of 1988 to evaluate the Duggan Zone both down-dip and north and south of the main zone and to follow-up the IP survey. The drilling to date on the North Lens and its extension to the north and the Quartz Shear Zone are encouraging and a number of intersections in this area remain to be followed up.

The installations for the de-watering and shaft rehabilitation programme are in place and the work is progressing well although somewhat behind schedule. It is considered that it will be completed by February 29, 1988 and within the estimated

budget. It is anticipated that the surface exploration drilling will also be completed by that date and within the proposed budget outline.

Respectfully submitted,

LDS Winter



L.D.S. Winter
B.A.Sc., M.Sc., F.G.A.C.
Norwin Resources Ltd.
January 25, 1988

TABLE 1

TYRANITE PROPERTY

DIAMOND DRILLING RESULTS - OCTOBER - DECEMBER, 1987

HOLE	LOCATION		DIRECTION	DIP	LENGTH (ft)	ASSAY VALUES			
	LINE	STATION				FROM (ft)	TO (ft)	INTERSECTION (ft)	(oz Au/t)
<u>South Pod Lens</u>									
1316-23	20S	4+50W	E	-50°	500	No significant intersections.			
1316-24	20S	4+50W	E	-70°	600	379	381	2	0.040
1316-25	17S	4+50W	E	-50°	500	378.5	381	2.5	0.0532
1316-26	17S	4+50W	E	-70°	600	No significant intersections.			
1316-27	16S	4+50W	E	-50°	500	188	190	2	0.0437
1316-28	16S	4+50W	E	-70°	600	117.5	119.5	2	0.0804
1316-29	15S	4+50W	E	-50°	500	No significant intersections.			
1316-30A	15S	4+50W	E	-70°	225	171	174	3	1.653
1316-30B	15S	4+50W	E	-70°	600	No significant intersections.			
1316-31	14S	4+50W	E	-50°	500	67	70	3	0.072
						335.4	338	2.6	0.046
1316-32	14S	4+50W	E	-70°	650	585	588	3	0.478
<u>Duggan Zone - Short holes for sampling purposes</u>									
1316-33	11+50N	50+40W	E	-45°	100	23	28	5	0.185
1316-34	12N	50+40W	E	-45°	100	38.5	52	13.5	0.071
						38.5	43.5	5	0.104

LE	LOCATION		DIRECTION	DIP	LENGTH (ft)	ASSAY VALUES			
	LINE	STATION				FROM (ft)	TO (ft)	INTERSECTION (ft)	(oz Au/t)
1316-35	12+50N	50+40W	E	-45°	100	39.4	42.4	3	0.130
						48.4	60.4	12	0.135
						85.9	88.9	3	0.126
1316-36	13N	50+40W	E	-45°	100	70	80	10	0.0562
1316-37	13+50N	50+40W	E	-45°	100	54.2	57.2	3	0.0584
						72.2	75.2	3	0.120
1316-38	14N	50+40W	E	-45°	100	80.3	92.3	12	0.148
1316-39	14+50N	50+40W	E	-45°	100	28.9	31.9	3	0.0778
						67.7	70.7	3	0.0687
<u>North Lens and Extension to North</u>									
1316-40	13N	3+00W	E	-50°	400	166	171	5	0.0745
						188	194	6	0.182
						249	255	6	0.040
						320	322	2	0.110
						376	378	2	0.090
1316-41	15N	3+00w	E	-50°	400	No results available as yet.			
1316-42	17N	3+00W	E	-50°	400	No results available as yet.			
1316-57	4N	2+00W	E	-50°	400	139	143	4	0.090
						193	198	5	0.133
						211	213	2	0.296
						221	237	16	0.091
						221	223.5	2.5	0.254
		234.5	237	2.5	0.100				

ID	LOCATION		DIRECTION	DIP	LENGTH (ft)	ASSAY VALUES			
	LINE	STATION				FROM (ft)	TO (ft)	INTERSECTION (ft)	(oz Au/t)
1316-60	2N	2+00W	E	-50°	300	No results available as yet.			
1316-61	2N	7+00W	E	-70°	1000	No significant intersections.			
1316-63	8N	2+00W	E	-60°	375	212	217.5	5.5	0.187
1316-64	10N	2+50W	E	-60°	400	162.5	163.5	1	0.17
						249	251	2	0.055
						262.5	268	5.5	0.141
						294	299	5	0.0945
						392	395	3	0.055
1316-65	11N	2+50W	E	-60°	400	54	55.5	1.5	0.184
						126	131.3	5.3	0.081
						191	193	2	0.123
						277	282	5	0.101

Geochemical and/or IP Anomalies

1316-47	12S	8+00W	E	-50°	500	No results available as yet.			
1316-48	8S	5+50W	E	-50°	500	No significant intersections.			
1316-49	12S	3+50W	E	-50°	500	No results available as yet.			
1316-50	8S	3+50W	E	-50°	500	398	401	3	0.124
1316-51	10N	6+50W	E	-50°	400	No results available as yet.			
1316-52	8N	6+00W	E	-50°	400	No significant intersections.			
1316-53	6N	5+00W	E	-50°	400	No significant intersections.			
1316-54	6N	11+50W	E	-50°	400	No significant intersections.			
1316-55	4N	11+00W	E	-50°	400	No significant intersections.			
1316-56	2N	10+00W	E	-50°	400	No significant intersections.			

<u>OLE</u>	<u>LOCATION</u>		<u>DIRECTION</u>	<u>DIP</u>	<u>LENGTH</u> (ft)	<u>ASSAY VALUES</u>			
	<u>LINE</u>	<u>STATION</u>				<u>FROM (ft)</u>	<u>TO (ft)</u>	<u>INTERSECTION (ft)</u>	<u>(oz Au/t)</u>
<u>Quartz Shear Zone Area</u>									
1316-68	2N	1+00E	E	-50°	500	153.5	167	13.5	0.0495
						178.5	191.5	13.0	0.0393
1316-69	2N	3+35E	E	-50°	600	482.5	487.5	5	0.110

GEOLOGICAL LEGEND

2	MAFIC VOLCANICS		MINERALIZATION
2a	MASSIVE FLOWS	py	PYRITE
3	INTERMEDIATE METAVOLCANICS	po	PYRRHOTITE
4	FELSIC METAVOLCANICS	mag	MAGNETITE
5	METASEDIMENTS	ccp	CHALCOPYRITE
5c	SANDSTONE	sph	SPHALERITE
5d	ARGILLITE, SILTSTONE	gal	GALENA
5e	CONGLOMERATE	asp	ARSENOPYRITE
5f	CHERT	hem	HEMATITE
5g	GRAPHITIC		ALTERATION
5h	OXIDE FACIES	a	WEAK
6	ULTRAMAFIC INTRUSIVE	m	MODERATE
7	MAFIC INTRUSIVE	s	STRONG
7d	DIABASE	Carb	CARBONATIZATION
8	FELSIC INTRUSIVE	sil	SILICIFICATION
8b	FELDSPAR PORPHYRY	Ser	SERPENTINIZATION
8d	QUARTZ MONZONITE	Chlor	CHLORITIZATION
8e	GRANODIORITE	Epid	EPIDOTE
8g	DIORITE	Talc	TALC
	STRUCTURE		
VG	VISIBLE GOLD		
QV	QUARTZ VEINS		
CV	CARBONATE VEINS		
EV	EPIDOTE VEINING		
QCV	QUARTZ-CARBONATE VEINING		

CERTIFICATE OF QUALIFICATION

I, Lionel Donald Stewart Winter do hereby certify:

1. that I am a geologist and reside at 1849 Oriole Drive, Sudbury, Ontario, P3E 2W5,
2. that I am a Fellow of the Geological Association of Canada,
3. that I graduated from the University of Toronto in Mining Engineering in 1957 with a Bachelor of Applied Science and from McGill University, Montreal in 1961 with a Master of Science (Applied) in Geology,
4. that I have practiced my profession continuously for 26 years,
5. that my report on the Tyrinite Gold Property is based on my personal knowledge of the geology of the area and on a review of published and unpublished information on the property and surrounding area, property visits, supervision of the exploration programme and an ongoing review of the current exploration work.

L.D.S. Winter
B.A.Sc., M.Sc., F.G.A.C.
January 25, 1988





41P11NE0011 63.5256 KNIGHT

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Part 2 of 3

DIAMOND DRILLING PROGRAM

SEPTEMBER - OCTOBER - NOVEMBER

TYRANITE PROPERTY

KNIGHT AND TYRRELL TOWNSHIP

ONTARIO

FOR

GUNNAR GOLD / MILL CITY GOLD INC.

Norwin Resources Ltd.

April 27, 1988

DM87-6-L-238



41P11NE0011 63.5256 KNIGHT

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1. INTRODUCTION

The Tyranite claim group consists of 13 claims, which are situated in Knight and Tyrrell townships in the District of Temiskaming. The property lies 12 miles northwest of Gowganda and 100 miles north of Sudbury, Ontario. The property consists of the former Tyranite Gold Mines and Duggan properties. Tyranite Gold Mines produced 223,810 tons of ore grading 0.147 oz/ton between 1939 and 1942. Tyranex Gold Inc. entered into an option agreement with Dalhousie Oil Company Ltd. and in turn made an agreement with Gunnar Gold/Mill City Inc. which would eventually give them a 50% interest in the property.

A diamond drilling program was started in August of 1987, directed towards outlining new auriferous lens and pods as well as extending known gold bearing zones along strike and down-dip. The following report is a summary of the diamond drilling completed from mid-September to mid-November, 1987.

2. PROPERTY GEOLOGY

The Tyranite property is underlain by a sequences of rocks ranging in age from Early to Middle Precambrian. The rocks consist of mafic to ultramafic metavolcanic rock, felsic to mafic plutonic rock and clastic metasediments of the Gowganda Formation, which is part of the Cobalt Group of the Huronian Supergroup. In the vicinity of the Tyranite Mine, the contact between the plutonic rocks and the metavolcanics runs just north of the Tyrrell-Knight township line.

Early Precambrian rocks consist of ultramafic and mafic metavolcanics, exposed south of the township line in the eastern most claims. Pillowed structures and spinifex texture suggest a subaqueous, extrusive nature for the volcanic rock origins. Minor interbedded iron formation is noted in the vicinity of the main Tyranite shear zone.

Felsic to mafic plutonic rocks occur as part of the Milly Creek Pluton, and are comprised of massive to weakly

foliated monzonite, granodiorites and diorites.

Diabase dykes are found running in a northwesterly trend, and form a small part of a larger swarm within the area. Diabase dykes are most commonly found in the five (5) claims south of the township line. The dykes are moderate to strongly magnetic.

Middle Precambrian rocks consist of interbedded argillite, sandstones and conglomerates of the Gowganda Formation. Sedimentary rocks are exposed in the northeast corner of the property.

Pleistocene and Recent deposits of Cenozoic age cover most of the property. The deposits occur as sands, gravels and alluvium of up to 20 feet in depth. Overburden is deepest in the southern claims.

3. DRILLING PROGRAM

3.1 WORK DONE

- a) Holes numbered 1316-18 to 1316-32 were drilled in the South Pod Lens, a total of 7,476 feet.
- b) Hole number 1316-50 was drilled in the South Pod Lens, a total of 500 feet.
- c) Holes 1316-47 to 1316-49 were drilled between the Tyrannite shaft and South Pod, to test an induced polarization anomaly. The holes were drilled a total of 1,500 feet.
- d) Hole number 1316-16 was drilled on the North Lens, a total of 600 feet.
- e) Hole number 1316-17 was drilled in the Quartz Shear Zone, a total of 350 feet.
- f) Holes numbered 1316-33 to 1316-39 were drilled in the Duggan Zone a total of 700 feet.

3.2 RESULTS

3.2.1 SOUTH POD LENS

A total of 16 holes were drilled into the area of the South Pod Lens, in an attempt to delineate an anomalous gold bearing zone, which had been discovered by drilling in the late 1930's and early 1940's. The geology in the area consists of massive to weakly foliated mafic and ultramafic volcanic rocks. The rock exhibits weak to moderate spotty chloritization, carbonatization and silicification. Sulphide mineralization consists of finely disseminated pyrite, fine pyritic stringers, with massive, local pods of pyrrhotite and local disseminated chalcopyrite.

Gold values within the zone are low grade and occur over narrow intersection widths. Grades in the South Pod holes range from 0.03 - 0.07 oz/ton over 3.0 feet or less. Hole 1316-20 and 1316-21 are characterized by weak anomalous gold values along the hanging wall of a diabase dyke. The dyke may represent the position of the auriferous shear to the north, but has been filled by the dyke. Minor amounts of visible gold give higher values, as noted in holes 1316-30 and 1316-32. Values in these holes are 1.653 oz/ton over 3.0 feet and 0.478 oz/ton over 3.0 feet respectively. These two values cannot be correlated using geology or geophysical data, and probably represent local blebs or mineralized pods.

3.2.2 NORTH LENS

A single hole was drilled into the North Lens which lies slightly north of the main mine workings. The purpose of the hole was to test the northern extension of the main Tyrinite shear, between pods which had been mined out in 1940. The hole also outlined anomalous gold values in the down-dip extension of the main shear, which is noted to dip at 70°W. The hole was continued beyond the shear in an attempt to determine the cause of a broad resistivity anomaly which had been outlined by an

induced polarization survey.

The results outlined an anomalous gold bearing zone along strike of the main shear, with two significant intersections of 0.111 oz/ton and 0.556 oz/ton over 3.0 foot widths. The main zone is characterized by strong foliation controlled chlorite and calcite alteration, with blebby silicification and local zones of pyritization. The resistivity anomaly is characterized by strongly altered mafic volcanic rock and less altered feldspar dykes. Small graphitic shear occur throughout this area, with a single anomalous value of 0.049 oz/ton over 7.0 feet being noted in this region.

3.2.3 QUARTZ SHEAR ZONE

Hole 1316-17 was drilled to test the Quartz Shear zone, which had been described in literature from the 1940's. Stripping in the area uncovered a quartz vein which pinched and swelled to 1.0 feet in width, and running slightly west of north. The vein is contained in weakly foliated, weakly altered mafic volcanic rock. No significant gold intersections were obtained, although minor blebby pyrite was noted in the core.

3.2.4 DUGGAN ZONE

Holes 1316-33 to 1316-39 were drilled in an attempt to determine the grade of gold mineralization and the attitude of an intense alteration zone as outlined by trenching and diamond drilling in the late 1930's and early 1940's.

Diamond drilling outlined a very broad zone of strongly altered monzonites, characterized by strong silicification and carbonatization. Sulphide mineralization occurs as 5-20% fine-coarse euhedral pyrite, and trace amounts of chalcopyrite. Visible gold is noted throughout the zone, mostly in quartz-calcite veinlets. All seven holes contained anomalous gold values, averaging 0.10 - 0.15 oz/ton over footages of up to 13.5 feet. A summary of all significant values is included at the end of this report.

3.2.5 SOUTH IP ANOMALIES

Four holes were drilled on an induced polarization anomaly linking the main Tyrinite structure and the South Pod Lens mineralization. The holes outlined a sequence of moderately altered mafic and ultramafic rocks. The area is strongly fractured with many small, irregular pyrite stringers. The anomaly may also be the results of small pods of massive pyrrhotite with minor sphalerite and traces of chalcopyrite. Holes 1316-47 to 1316-49 show no significant gold mineralization. Hole 1316-50 contained a single anomalous sample of 0.124 oz/ton over a 3.0 foot intersection width. Hole 1316-50 is located closest to the South Pod mineralization, and may be the northern extension of the zone.

4. SUMMARY

Diamond drilling has continued since the completion of the holes covered in this report. Anomalous values in hole 1316-16 suggest the presence of an auriferous shear zone. Since drilling hole 1316-16, an additional 14 holes have been drilled, and have extended the main shear zone 2,400 feet to the north. One of these holes was drilled to depth, and at this location, the gold-bearing shear increased in width and grade.

South Pod Lens drilling was completed with the completion of holes 1316-18 and 1316-32. The drilling failed to outline a continuation of the main zone southward. Instead, the mineralized sections to the south seem to be very small, local features with weak gold mineralization. The presence of diabase dykes running roughly parallel to the main shear might suggest that one or more of these dykes may now fill the main structure giving rise to very erratic values with little correlation from one hole to the next.

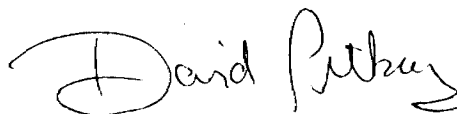
Continuous drilling of the Duggan Zone has outlined a broad alteration zone, within the Milly Creek Pluton. Drilling has outlined a zone 800 feet in length, with erratic gold values. Correlation between holes can only be done on the basis of alteration, and not on the basis of gold content. Higher grade

gold mineralization, within the Duggan Zone, occurs in small pods and lenses which cannot be traced along strike or along dip. Detailed drilling in the heaviest mineralization gives grades averaging 0.15 - 0.17 oz/ton.

The single hole in the Quartz Shear zone failed to produce any significant gold intersections. Two holes have since been drilled to the north with scattered values over reasonable widths, but again correlation between holes is impossible at this time.

Drilling on the induced polarization anomaly to the south uncovered narrow zones of massive sulphide mineralization but no significant gold values.

Respectfully submitted,

A handwritten signature in cursive script that reads "David Pilkey". The signature is written in dark ink and is positioned above the typed name and date.

D.M.E. Pilkey, B.Sc.,

April 27, 1988

CERTIFICATE OF QUALIFICATION

I, David Marshall Evans Pilkey do hereby certify:

1. that I am a geologist and reside at 904 Howey Drive, Sudbury, Ontario, P3B 1H4,
2. that I graduated from Laurentian University in Geology in 1984 with a Bachelor of Applied Science,
3. that I have practised my profession continuously for three years, as a mine geologist and exploration geologist.
4. that my report on Diamond Drilling, September - October - and November, Tyrante property is based on my personal knowledge of the geology of the area and on-site supervision of the on-going drilling program.

David Pilkey

D.M.E. Pilkey,

B.Sc.,

April 27, 1988

COMPLETED DRILL HOLES - TYRANITE PROPERTY

Hole No.	Location	Elevation (ft)	Azimuth	Dip	Length (ft)	Significant Intersections			
						From (ft)	To (ft)	Length (ft)	Assay Au (oz/t)
<u>SOUTH POD LENS</u>									
1316-18	14+04S, 3+53W	10,037.24	090°	-50°E	350	No significant intersections.			
1316-19	15+03S, 3+35W	10,036.49	090°	-50°E	350	No significant intersections.			
1316-20	15+85S, 3+20W	10,035.74	090°	-50°E	350	228.0	233.0	5.0	0.049
						(South Pod Lens on hanging wall of diabase dyke).			
1316-21	16+92S, 3+20W	10,031.34	090°	-50°E	350	259.0	262.4	3.4	0.0402
						(South Pod Lens on hanging wall of diabase dyke).			
1316-22	19+89S, 2+55W	10,032.73	090°	-50°E	350	No significant intersections.			
1316-23	20+06S, 3+79W	10,026.10	090°	-50°E	500	303.7	306.2	2.5	0.0367
1316-24	20+06S, 3+79W	10,026.10	090°	-70°E	600	379.0	381.0	2.0	0.040
1316-25	16+92S, 4+22W	10,023.70	090°	-50°E	500	378.5	381.0	2.5	0.0532
1316-26	16+92S, 4+22W	10,023.70	090°	-70°E	600	No significant intersections.			
1316-27	16+16S, 4+03W	10,019.99	090°	-50°E	500	188.0	190.0	2.0	0.0437
1316-28	16+16S, 4+03W	10,019.99	090°	-70°E	600	117.5	119.5	2.0	0.0804
1316-29	15+02S, 4+23W	10,022.50	090°	-50°E	500	161.5	164.0	2.5	0.036
						327.8	329.5	1.7	0.034
1316-30B	15+02S, 4+23W	10,022.50	090°	-70°E	600	No significant intersections.			
1316-30	15+02S, 4+23W	10,022.50	090°	-70°E	226.4	171.0	174.0	3.0	1.653
1316-31	14+22S, 4+53W	10,020.21	090°	-50°E	500	67.0	70.0	3.0	0.072
						335.4	338.0	2.6	0.046
1316-32	14+22S, 4+53W	10,020.21	090°	-70°E	650	585.0	588.0	3.0	0.478

Hole No.	Location	Elevation (ft)	Azimuth	Dip	Length (ft)	Significant Intersections			
						From (ft)	To (ft)	Length (ft)	Assay Au (oz/t)
<u>IP ANOMALY</u>									
1316-47	12+36S, 8+00W	10,025.75	090°	-50°E	500	No significant intersections.			
1316-48	8+58S, 6+46W	10,020.12	090°	-50°E	500	No significant intersections.			
1316-49	12+14S, 5+37W	10,037.08	090°	-50°E	500	No significant intersections.			
1316-50	8+18S, 4+07W	10,001.98	090°	-50°E	500	398.0	401.0	3.0	0.124
<u>NORTH LENS</u>									
1316-16	0+69S, 2+25W	9,993.78	090°	-60°E	600	136.0	139.0	3.0	0.111
						163.0	166.0	3.0	0.556
						305.0	312.0	7.0	0.049
<u>QUARTZ SHEAR ZONE</u>									
1316-17	0+04S, 5+85E	10,060.80	090°	-50°E	350	No significant intersections.			
<u>DUGGAN ZONE</u>									
1316-33	11+47N, 50+19W	9,908.13	090°	-45°E	100	23.0	28.0	5.0	0.185
1316-34	11+98N, 50+34W	9,910.35	090°	-45°E	100	38.5	52.0	13.5	0.071
						this includes			
						38.5	43.5	5.0	0.104

Hole No.	Location	Elevation (ft)	Azimuth	Dip	Length (ft)	Significant Intersections			
						From (ft)	To (ft)	Length (ft)	Assay Au oz/t
1316-35	12+47N, 50+42W	9,909.14	090°	-45°E	96.7	39.4	42.4	3.0	0.130
						48.4	60.4	12.0	0.135
						85.9	88.9	3.0	0.126
1316-36	12+97N, 50+68W	9,908.52	090°	-45°E	100	70.0	80.0	10.0	0.0562
1316-37	13+50N, 50+55W	9,907.62	090°	-45°E	102	54.2	57.2	3.0	0.0584
						72.2	75.2	3.0	0.120
1316-38	13+88N, 50+77W	9,907.32	090°	-45°E	97.7	80.3	92.3	12.0	0.148
1316-39	14+54N, 50+09	9,903.47	090°	-45°E	98.3	28.9	31.9	3.0	0.0778
						67.7	70.7	3.0	0.0687

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hole No: 1316-16

Property: Tyranite	NTS:	Township: Knight
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG 5804	Coordinates: L1+00S; 2+15W
Azimuth: 090°	Dip: -60°E	Length: 600.0'
Logged By: D. Pilkey	Casing: 0 - 26.0' (left in)	Elevation:
Date Started: September 14, 1987	Date Completed: September 17, 1987	Date Logged: September 19, 1987
Core Size: BQ	Core Location: Tyranite Mine	Samples Shipped:
Drill Company: Bill Link	Overburden: 0 - 26.0'	Checked: D. Pilkey Jan. 6, 1988

Acid Dip Tests

1. 26.0' -62°E 2. 300.0' -62°E 3. 591.0' -63°E

Purpose To evaluate North Lens at approximately 300 ft. level.

Conclusions Significant Intersections: 136 to 139 - 3 ft. @ 0.111 oz gold/ton
163 to 166 - 3 ft. @ 0.556 oz gold/ton
305 to 312 - 7 ft. @ 0.049 oz gold/ton.

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

November 2, 1987

Hole No. 1316-16

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)	Oz/t
0	26.0	Casing						
26.0	49.0	Poikiloblastic Basalt						
		Rock consists of fine grain light grey to greenish grey mafic volcanics, containing 15-20% small, rounded chlorite grains, up to 2mm in diameter. Rock shows a weakly developed foliation.						
		Ground mass shows a moderate pervasive chloritization, with a weak - moderate fracture or shear controlled chlorite slip alteration. Zone also shows a weak fracture controlled calcite with veinlets ranging in size from 1/2" - 1/8" in width.	53327	37.3	39.5	2.2	11	
			53328	39.5	41.0	1.5	9	
			53329	41.0	43.5	2.5	6	
		Hematization between footage 41.0 - 42.5' is noted, with the most intense alteration being confined to the chlorite grains. Moderate to strong epidotization is noted in a small section around 47.0', with a well developed chlorite and calcite veining also found in this zone.						
		Trace pyrite is noted locally.	53482	46.0	48.0	2.0	28	
49.0	291.3	Basalt						
		Rock is no longer poikolitic, and remains fine grain, greenish grey in colour, with a weakly developed foliation.						
		Rock contains 3 - 5%, small pinkish white calcite veinlets, locally. Veins range from hairline fracture fillings to 1/4" fracture and shear controlled veinlets. Most veinlets run @ 60 - 70° T.C.A, with others being very discontinuous in character.	53330	53.0	56.0	3.0	8	
			53331	56.0	59.0	3.0	290	
			53480	59.0	62.0	3.0	7	
			53481	62.0	65.0	3.0	9	

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
	Basalt (Cont'd)	The rock also shows a weak pervasive calcite alteration. Chlorite alteration is strong with both pervasive and shear controlled chlorite slips being present.	53332	72.5	75.5	3.0	23
		Hematization occurs as small blebby features to hairline fracture fillings, ranging from weak to zones of strong localized alteration. Sulphide mineralization is minor, with only local amounts of trace pyrite being found.	53333	86.0	89.0	3.0	7
			53334	89.0	92.0	3.0	7
			53335	92.0	95.0	3.0	7
			53336	95.0	98.0	3.0	< 5
			53337	98.0	101.0	3.0	12
			53338	101.0	104.0	3.0	6
		From 86.0' mark, hematization is becoming pervasive throughout core, with zones of strong to very strong hematization being noted.	53339	104.0	107.0	3.0	23
			53340	107.0	110.0	3.0	6
			53341	110.0	113.0	3.0	8
		Section 136.0 - 139.0, basalts show a moderate pervasive - weak spotty silicification, which also contain 2 - 3% finely disseminated, euhedral pyrite crystals, many of which lie along calcite veinlet contacts and small chlorite slips. Zone shows strong pervasive and fracture controlled chlorite and calcite alteration.	53342	113.0	116.0	3.0	< 5
			53343	116.0	119.0	3.0	< 5
			53344	130.0	133.0	3.0	34
			53345	133.0	136.0	3.0	5
			53346	136.0	139.0	3.0	3835 0.111
			53347	139.0	142.0	3.0	83
			53348	142.0	145.0	3.0	15
			53349	145.0	148.0	3.0	19

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
			53350	148.0	151.0	3.0	12
			53351	151.0	154.0	3.0	22
		Intense hematization is noted from 156.0', with zones of intense pervasive hematite, as well at intense hematite, calcite veining locally found.	53352	154.0	157.0	3.0	21
			53353	157.0	160.0	3.0	7
			53354	160.0	163.0	3.0	27
			53355	163.0	166.0	3.0	19078 0.556
			53356	166.0	169.0	3.0	147
			53357	169.0	172.0	3.0	29
			53358	172.0	175.0	3.0	26
			53359	175.0	178.0	3.0	15
			53360	178.0	181.0	3.0	22
			53483	181.0	183.7	2.7	18
			53361	183.7	186.0	2.3	225
			53362	186.0	189.0	3.0	129
			53363	189.0	192.0	3.0	11
			53364	192.0	195.0	3.0	18
			53484	195.0	198.0	3.0	8
			53365	198.0	201.0	3.0	308

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
	Basalt (Cont'd)	Pink calcite veinlets become more abundant from footage 229.0, with large calcite chlorite veinlets of ½" - 1" in width found @ footages of 229.0'; 230.0' - 231.3'; 233.5' - 235.0'. Vein- lets run from 30° - 70° T.C.A., and usually have well developed foliations, marked by thin chlorite slips.	53366	211.0	214.0	3.0	11
			53367	214.0	217.0	3.0	7
			53368	217.0	220.0	3.0	21
			53369	220.0	223.0	3.0	< 5
			53370	223.0	226.0	3.0	< 5
			53371	226.0	229.0	3.0	< 5
		Trace pyrite is found in wallrock of calcite veins.	53372	229.0	232.0	3.0	242
			53373	232.0	235.0	3.0	8
			53374	235.0	238.0	3.0	7
			53375	238.0	241.0	3.0	18
			53376	241.0	244.0	3.0	9
			53377	244.0	247.5	3.5	15
			53378	247.5	251.0	3.5	21
			53379	251.0	254.0	3.0	12
			53380	254.0	257.0	3.0	7
			53381	257.0	260.0	3.0	8
			53382	260.0	263.0	3.0	11
			53383	263.0	266.0	3.0	16
		Small zone of intense calcite veining occurs @ 273.5' mark, with ½" - 1/16 veins running @ 45° T.C.A.	53384	266.0	268.0	2.0	< 5
			53385	268.0	271.0	3.0	< 5

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
		Basalt (Cont'd)	53386	271.0	274.0	3.0	8
			53387	274.0	276.0	2.0	5
			53388	276.0	279.0	3.0	6
			53389	279.0	282.0	3.0	7
			53390	282.0	285.0	3.0	5
			53391	285.0	287.3	2.3	108
			53392	287.3	289.3	2.0	9
			53393	289.3	291.3	2.0	9
291.3	318.0	Calcite-chlorite pyrite zone	53394	291.3	293.8	2.5	346
		Host rock consists of strongly foliated, altered mafic volcanic rocks. Rock is very fine grain, greyish green, green to black basalts. Alteration through zone is intense, with most being related to the main foliation direction @ 40 - 50° T.C.A.	53395	293.8	296.5	2.7	1142
			53396	296.5	299.0	2.5	971
		Chloritization of the basalts is intense, with both pervasive and foliation controlled chlorite present. Calcite is found as weak pervasive alteration, and as moderate, shear controlled calcite stringers. Calcite also occurs as whitish to light pink blebs, which give the zone a brecciated appearance. Small sections of what appears to be green mica are locally noted in the zone. The zone also shows moderate, blebby to minor discontinuous quartz veining, with a weak pervasive silicification noted.					
		Sulphide mineralization is strong, and occurs in the form of fine euhedral pyrite cubes and fine 2mm foliation controlled stringers. Pyrite forms 5-10% of zone.					

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t	
		Section from 299.0 - 307.0, contains a highly siliceous, fine grain light green volcanic rock. Rock now shows a decrease in chlorite alteration, with increases to strong, of silicification and calcite. Sulphide mineralization now only from TR - 2%, and occurs as finely disseminated, cubic pyrite.	53397	299.0	301.0	2.0	554	
			53398	301.0	303.0	2.0	57	
			53399	303.0	305.0	2.0	42	
			53400	305.0	307.0	2.0	2538 0.074	
			Section from 307.0 - shows the return of the intense chlorite alteration, with moderate pervasive calcite and silicification. Pyritic layers and disseminated grains now form 7 to 10% of zone, most of which lie along foliation planes.	53401	307.0	309.5	2.5	1368 .0399
				53402	309.5	312.0	2.5	1303 0.038
				53403	312.0	315.0	3.0	272
				53404	315.0	318.0	3.0	467
318.0	406.0		Basalts Rock consists of fine grain, light - dark green altered mafic volcanic rock. Rock contains a well developed foliation. Alteration consists of strong pervasive chloritization and calcite alteration, with moderate blebby and fracture controlled calcite veining. Smaller amounts of blebby quartz are noticeable with the calcite veining. The rock contains 1% fine disseminated pyrite blebs. Weak brecciation textures are noted along zones of intense veining. A zone of intense chlorite and calcite alteration, along foliation directions is noted from 322.3 - 325.3'. The zone has a foliation @ 50° T.C.A., and consists of thin chloritic slips, between subrounded fragments of white calcite, and greenish black	53405	318.0	320.2	2.2	22
				53406	320.2	322.2	2.0	9
		53407		322.2	325.3	3.1	78	
		53408		325.3	328.0	2.7	120	
		53409		328.0	331.0	3.0	247	
		53410		331.0	334.0	3.0	82	
		53411		334.0	337.0	3.0	11	

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
			53412	337.0	340.0	3.0	9
			53413	340.0	343.0	3.0	41
		Many of the smaller quartz-calcite veinlets show tight folding, and intense fracturing with minor offsets.	53414	343.0	346.0	3.0	9
			53415	346.0	349.0	3.0	< 5
			53416	349.0	352.0	3.0	< 5
			53417	352.0	355.0	3.0	5
			53418	355.0	358.0	3.0	5
			53419	358.0	361.0	3.0	9
			53420	361.0	364.0	3.0	17
			53421	364.0	367.0	3.0	19
			53422	367.0	370.0	3.0	8
			53423	370.0	373.0	3.0	6
			53424	373.0	376.0	3.0	< 5
			53425	376.0	379.0	3.0	< 5
			53426	379.0	382.0	3.0	< 5
			53427	397.0	400.0	3.0	6
406.0	411.5	Feldspar porphyry					
		Rock consists of an altered, fine grain, grey to brown matrix, with 15% small subhedral plagioclase phenocrysts. Phenocrysts show weak hematization, and are roughly equigranular in size, showing a weak foliation direction of 45° T.C.A.					
		The zone shows good alteration in the form of two large zone, up to 1' wide, of quartz veining. The first occurs @ 407.5', is a milky white quartz					

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
		vein running @ 65-70° T.C.A. The vein shows moderate fracture controlled calcite alteration as well as thin zones of chlorite running parallel to subparallel with the vein. Trace amounts of fine pyrite are noted.	53428	406.0	409.0	3.0	51
		The second vein consists of a quartz rich breccia zone @ 411.0'. This zone extends over 1 foot, with fragments of altered porphyry, within milky white quartz material. The zone shows weak, spotty calcite alteration, with moderate fracture controlled chloritization.					
		Sulphide mineralization is present, in the form of 1% fine euhedral pyrite cubes. Cubes are much larger than 1 mm in size, as well as 1-3% blebby chalcopryrite and fine fracture fillings of chalcopryrite.	53429	409.0	411.5	2.5	38
411.5	469.5	Basalt (Ultramafic)					
		Same as interval 318.0 - 406.0. Rocks are very fine grain, grey - black in colour, show moderate to very strong chloritization, with zones of moderate pervasive calcite and calcite veining.	53430	411.5	414.0	2.5	11
		Local pods of chlorite, talc, possible serpentine suggest an ultramafic origin.					
		Sulphide mineralization occurs locally through zone, consisting of finely disseminated pyrite cubes. Small local zones of pyrite stringers and large ¼" chalcopryrite veins and blebs are present.					
		Chalocpyrite is most often found along noses of tightly folded quartz-calcite stringers.	53431	414.0	416.5	2.5	7
			53432	416.5	419.0	2.5	9
			53433	419.0	421.5	2.5	6
			53434	421.5	424.0	2.5	7

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t	
		Mafic - ultramafic zone contains 5 - 7% fine, calcite stringers and blebs running randomly through the zone.	53435	424.0	426.5	2.5	7	
			53436	426.5	429.0	2.5	< 5	
			53437	429.0	432.0	3.0	< 5	
			53438	432.0	435.0	3.0	7	
			53439	435.0	438.0	3.0	7	
			53440	438.0	441.0	3.0	7	
			53441	441.0	444.0	3.0	12	
			53442	444.0	447.0	3.0	< 5	
			53443	447.0	450.0	3.0	51	
			53444	450.0	454.0	4.0	< 5	
			53445	454.0	458.0	4.0	< 5	
			53446	458.0	462.0	4.0	10	
			Section from 466.0 show a strong increase in pyrite mineralization, with 1 - 2% fine stringers and individual grains being noted. Locally sulphides approach 5-7%. Zone shows a weak pervasive silicification now, with 1% fine blebby quartz and thin quartz stringers.	53447	462.0	466.0	4.0	7
				53448	466.0	468.0	2.0	153
		53449		468.0	469.5	1.5	1463	
469.5	484.5	Silicified Porphyry Rock consists of fine - very fine grain weakly foliated porphyry. Rock is light grey to greenish grey in colour, and only shows very faint, relict texture of original plagioclase phenocryst. Phenocrysts blend into a fine grain matrix of mostly quartz, feldspar minor chlorite.	53450	469.5	472.0	2.5	901	
			53451	472.0	474.5	2.5	500	
			53452	474.5	477.0	2.5	490	
			53453	477.0	479.5	2.5	809	

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t	
		Silicified Porphyry?						
			Alteration is strong with strong - very strong pervasive silicification present. Quartz veinlets and blebs are common, forming 5% of zone with local accumulations to 10 - 15%. Calcite is weakly distributed through the zone, but is moderately found as stringers and fracture fillings within the quartz.	53454	479.5	482.0	2.5	165
		Small hairline fractures of chlorite form 10% of zone, with large chlorite slips forming veinlets subparallel to calcite-quartz veins.						
		The zone is marked by 1-2% fine pyrite cubes and stringers randomly scattered through the wallrock, and in the veins. Pyrite abundances approach 5% locally. Blebby, sparatic chalcopyrite is noted, locally forms 1% of zone.						
484.5	538.0	Basalts						
			Rock consists of strongly altered, fine grain, greyish green to black mafic volcanics. Rock shows moderate to weak foliation.	53456	484.5	487.0	2.5	43
				53457	487.0	489.5	2.5	18
			Basalts show a range and wide degree of alterations. Rock exhibits moderate to very strong pervasive chloritization locally. As well as strong shear shear controlled chlorite slips. Silicification is present as small bleb zones of quartz and discontinuous quartz veins.	53458	489.5	492.0	2.5	140
				53459	492.0	494.5	2.5	151
				53460	494.5	496.5	2.0	226
				53461	496.5	498.5	2.0	117
				53462	498.5	500.5	2.0	36
				53463	500.5	501.5	1.0	51
			The rock shows moderate pervasive calcite alteration with zones of intense calcite veining. Sample 496.5 to 498.5 contains 75 - 80% calcite-quartz stringers and veinlets.	53464	501.5	503.0	1.5	114
			53465	503.0	506.0	3.0	92	

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
		Basalts (Cont'd)	53466	506.0	509.0	3.0'	12
			54367	509.0	512.0	3.0'	8
			53468	512.0	515.0	3.0'	10
		Zones which are black in colour contain from 10 - 100% graphite, with 3 main graphitic zone @	53469	515.0	518.0	3.0'	28
		1. 526.5 - 528.5	53470	518.0	520.0	2.0'	78
		2. 531.5 - 534.8	53471	520.0	523.0	3.0'	100
		3. 535.2	53472	523.0	526.3	3.3'	2276
		Graphic zones all contain shear controlled pyrite veinlets, ranging in percentage from 1-3%.	53473	526.3	528.5	2.2'	74
		Sample from 535.8 - 538.0, contains both pyrite and calcite stringers, which show strong pygmatic type folding.	53474	528.5	531.5	3.0'	24
			53475	531.5	534.8	3.3'	54
			53476	534.8	535.8	1.0'	24
			53477	535.8	538.0	2.2'	30
538.0	591.0	Feldspar Porphyry					
		Rock is massive to weakly-foliated, consisting of a fine grained, grayish white matrix of feldspar mafic minerals chlorite and possible minor quartz. Zone contains 15%, subhedral, white plagioclase phenocrysts.					
		Alteration is present in the form of moderate pervasive calcite and chlorite, with weak spotty hematite.					
		Trace amounts to 1% are noted.	53478	538.0	541.0	3.0'	6
		Weak to moderate hematization is noted 575.5 - 576.5, with a small quartz-calcite vein @ 576.5 running @ 75° T.C.A.					
		No sulphide mineralization is found.	53479	474.5	577.5	3.0'	8

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
		Feldspar Porphyry (Cont'd)					
		A large mafic volcanic fragment, with other smaller ones occurs @ 578.8 - 579.7. Fragments show moderate chlorite alteration with spotty calcite.					
		No visible sulphides.					

E.O.H.

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hole No: 1316-17

Property: Tyranite	NTS:	Township: Tyrrell
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG 5801	Coordinates: LON; 2+75E
Azimuth: 090°	Dip: -50°E	Length: 350.0'
Logged By: D. Pilkey	Casing: 0 - 11.0' (left in)	Elevation:
Date Started: September 18, 1987	Date Completed: September 19, 1987	Date Logged: September 25, 1987
Core Size: BQ	Core Location: Tyranite Mine	Samples Shipped:
Drill Company: Bill Link	Overburden: 0 - 11.0'	Checked: D. Pilkey Jan. 7, 1988

Acid Dip Tests

1. 0 -53°

2. 350.0' 52°

Purpose To test Quartz Shear Zone.

Conclusions No significant intersections.

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

Hole No: 1316-17

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	11.0	CASING					
11.0	209.5	BASALT					
		Rock consists of fine grain grey dark green, massive mafic volcanic rock. The zone shows weak foliation and fracture controlled calcite, with very weak pervasive chloritization. Trace amounts of fine stringer controlled pyrite with minor blebby pyrite are noticed.	65335	51.0	53.5	2.5'	Nil
		Localised alteration zones are noted, usually consisting of thin calcite veinlets running parallel to core, up to 50° T.C.A. Minor chlorite slips are noted within these zones, with occasional epidote alteration. Local zone form less than 2% of core, with remaining basalts be relatively fresh.	65336	53.5	56.0	2.5'	Nil
		One larger pink calcite vein, with subparallel hematite, chlorite and epidote occur @ 53.0'. The vein is 2" in width and runs @ 50° T.C.A. Trace sulphides are noted, in blebby chalcopryrite, pyrite galena?	65337	59.5	60.5	1.0'	10
		A small zone of intense hematization, with vuggy goethite? is noted @ 60.0'. Zone extends only 1".	65338	69.0	71.0	2.0'	Nil
		At 70.0', a zone of intense epidote alteration exists. The zone is 3" wide, runs @ 80° T.C.A. zone also contains minor chlorite.	65339	111.0	113.0	2.0'	Nil
		Moderate calcite veining from 111.0 - 113.0'. No sulphide noted. Veinlets 2 mm or less in size.	65340	146.0	148.0	2.0'	Nil
		A weak calcite veinlet zone occurs @ footage 146.8 - 147.2'. Calcite veinlets are 1/8" or less in width, running at 70° T.C.A. Zone contains 10% calcite veining, with minor hematization. Trace 1% chalcopryrite is noted, minor pyrite is present.	65341	166.0	169.0	3.0'	Nil
			65342	169.0	172.0	3.0'	Nil
			65343	172.0	175.0	3.0'	Nil
			65344	175.0	177.0	2.0'	185

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
			65345	177.0	179.0	2.0'	100
			65346	179.0	182.0	3.0'	Nil
			65347	182.0	185.0	3.0'	Nil
			65348	191.0	193.0	2.0'	Nil
209.5	256.8	MONZONITE					

Basalts become slightly coarser grained @ 158.0', with mafic minerals showing good lineations parallel to foliation. Zone still shows only weak spotty alteration to calcite, chlorite and hematite.

A section of strong epidote and calcite alteration is found from 175.0 - 176.0. The zone consists of 20% epidote and calcite with 10% quartz, 5% chlorite and 2-3% blebby pyrite, 1% chalcopyrite.

A small, milky white quartz vein is noted from footage 178.2 - 178.9'. The vein runs @ 85° T.C.A., and contains 5% basalt fragments. The vein shows very weak, spotty calcite alteration, with no visible sulphide mineralization.

Rock is medium fine grain, moderately foliated, greyish white to red in colour. Rock consists of 15-20% mafic minerals. Hornblendes are elongate parallel to foliation, and show moderate chloritization. The zone also contains numerous small 1 mm, whitish green plagioclase grains, giving the rock a semi-porphyrific texture. The small phenocrysts are well rounded and form about 7% of the zone.

The matrix is fine grain, but seems to consist primarily of feldspar and mafic minerals, such as hornblende, biotite and chlorite.

Alteration of the monzonite porphyry, consists of weak pervasive to fracture controlled chlorite, but strong localized hematite. Hematitic zones also contain numerous hairline to 2" epidote veinlets, most running from 45°-85° T.C.A. Trace pyrite is noted.

Contact down hole with basalts runs @ 45° T.C.A.

From (Ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
256.8	350.0	BASALT	Same as interval 11.0 - 209.5. Basalts are fine grain, greyish green, massive weakly foliated, with minor alteration. Weak fracture controlled calcite and epidote form 3% of core. Weak very weak pervasive chloritization is present. Only trace amounts of fine pyrite are noted.	65349	223.0	226.0	3.0'	Nil
				65350	226.0	229.0	3.0'	Nil
				65351	229.0	232.0	3.0'	Nil
				65352	238.0	241.0	3.0'	Nil
				65353	246.0	248.0	2.0'	Nil

E. O. H.

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hole No: 1316-18

Property: Tyranite	NTS:	Township: Tyrrell
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG 5508	Coordinates: L14+00S; 3+50W
Azimuth: 090°	Dip: -50°E	Length: 350.0'
Logged By: D. Pilkey	Casing: 0 - 12.0'	Elevation:
Date Started: September 20, 1987	Date Completed: September 23, 1987	Date Logged: September 23, 1987
Core Size: BQ	Core Location: Tyranite Mine	Samples Shipped:
Drill Company: Bill Link	Overburden: 0 - 12.0'	Checked: D. Pilkey Jan. 7, 1988

Acid Dip Tests

1. 12 -50°

2. 350.0' 51°E

Purpose To evaluate South Pod Lens.

Conclusions No significant intersections.

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

Hole No: 1316-18

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	12.0	CASING					
12.0	19.0	BASALT ANDESITE					
		Rock is relatively massive to slightly foliated, fine grain mafic volcanic rock. Rock has dark green to black in colour, showing only weak alteration.	65354	12.0	14.5	2.5'	345
		Basalts exhibit very weak pervasive chloritization, but seems to have undergone strong pervasive silicification. No pervasive carbonate minerals are present.	65355	14.5	17.0	2.5'	NIL
		Weak fracture controlled calcite veinlets form 1% or less of zone, with local accumulations to 3%. The basalts also contain minor quartz veining with weak brecciation in these zones.	65356	17.0	20.0	3.0'	NIL
		Sulphide mineralization in the zone is common with percentages of sulphide minerals being variable from 1%-7%. Zone of quartz-calcite veining commonly contain the most abundant sulphide amounts.	65357	20.0	23.0	3.0'	NIL
		Sulphides consists of pyrite, brassy yellow in colour, and forming fine blebs and thin random stringers along fractures.	65358	23.0	26.0	3.0'	NIL
		Section from 81.0 - 82.5' shows strong foliation . controlled alteration of the basalts. Volcanics are now strongly carbonatized, with calcite veinlets up to 1", running @ 35-40° T.C.A. Basalt fragments show moderate weak pervasive calcite alteration, with colours of light green. Small chlorite slips are noted parallel to the foliation. Fine euhedral grains of pyrite form 1-2% of the zone, lying as thin stringers parallel to foliation directions.	65359	26.0	29.0	3.0'	10
			65360	29.0	31.0	2.0'	NIL
			65361	31.0	33.0	2.0'	NIL
			65362	33.0	34.5	1.5'	NIL
			65363	34.5	36.5	2.0'	NIL
			65364	40.0	41.5	1.5'	NIL
			65365	48.5	50.0	1.5'	NIL
			65366	50.0	53.0	3.0'	NIL
			65367	53.0	55.0	2.0'	NIL
			65368	69.5	70.5	1.0'	NIL
			65369	79.0	81.0	2.0'	NIL
			65370	81.0	82.5	1.5'	130
			65371	82.5	84.5	2.0'	NIL
			65372	84.5	86.5	2.0'	NIL

From (ft)	To (Ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd	Zone shows an increase in amount of calcite veins @ 89.0'. Veinlets in this section comprise 3-5% of zone and vary in width from hairline to 1/2" in width.	65373	86.5	88.4	1.9'	NIL
			Section from 104.0 - 105.5 shows intense pervasive silicification with moderate pervasive carbonatization. The zone contain about 3% fine blebby pyrite. Pyrite is noted as small blebs and irregular fracture fillings.	65374	88.4	90.7	2.3'	585
			Chloritization is evident, but extent of alteration is masked by amounts of silica. Foliation controls sulphides, silica and calcite veinlets and runs @ 35-45° T.C.A.	65375	90.7	93.0	2.3'	NIL
			Zone from 132.0 - 134.0' consists of silicified basalts and basaltic fragments in a lattice of fine dendritic to randomly oriented pyrite veinlets. Veinlets are very fine ad commonly are abundant enough to give the zone a massive texture.	65376	97.0	99.0	2.0'	NIL
			two small quartz calcite stringers are found near the end of the sample running @ 50° T.C.A. The first is 1.5" in width, but contains only trace amounts of pyrite.	65377	99.0	101.0	2.0'	NIL
			Small quartz-calcite veinlets of 1" or less become more common from 134.0 - 141.0'. Veinlets are all subparallel @ 55° T.C.A.	65378	101.0	104.0	3.0'	NIL
				65379	104.0	105.5	1.5'	405
				65380	105.5	108.0	2.5'	NIL
				65381	108.0	109.0	1.0'	NIL
				65382	109.0	111.0	2.0'	NIL
				65383	130.0	132.0	2.0'	10
				65384	132.0	135.0	3.0'	NIL
				65385	135.0	138.0	3.0'	NIL
				65386	138.0	141.0	3.0'	NIL
				65387	141.0	144.0	3.0'	NIL
144.0	160.6	INTER-MEDIATE FELSIC VOLCANIC	Rock now is fine grain to aphanitic in grain size, with colour variations from grey, light green to yellow. Rock shows a moderately well developed foliation, running from 45 - 90° T.C.A. The zone exhibits strong alteration, with pervasive calcite and calcite veining being most common. Darker chloritic zones are noted, and also show moderate calcite alteration.					

From (ft)	To (Ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
		Zones of intense silicification are marked by a series of small ribbon like quartz veinlets and irregular lens. Quartz in these areas is very dark in colour. Section of the core seem to have undergone moderate spotty albitization? Evidence of primary layer is found which may give the rock a tuffaceous origin. Offsets along small fractures are common. Sulphide mineralization is variable through zone with locally accumulations to 3%. Sulphides consist of fine euhedral grains, forming small lens and stringers running subparallel to foliations. Pyrite is the only sulphide present.	65388	144.0	146.0	2.0'	10
			65389	146.0	148.6	2.6'	NIL
			65390	148.6	151.1	2.5'	300
			65391	151.1	153.6	2.5'	310
			65392	153.6	156.1	2.5'	60
			65393	156.1	158.6	2.5'	80
			65394	158.6	160.6	2.0'	355
			65395	174.0	176.9	2.9'	30
			65396	176.9	178.4	1.5'	NIL
160.6	224.7	BASALT					
		Rock is altered medium grained basalt-diorite. Most primary texture is gone with zone showing a weak foliation. Rock is light green to grey in colour. Rock consists of zones of strong pervasive chloritized and pervasive calcite alteration. Rock also contains numerous thin chloritic slips forming dendritic textures locally. Thin calcite veinlets and zones of calcite veining are noted locally running @ 75° T.C.A. One small serpentinite? fracture filling is found @ 205.4'. Sulphide mineralization consists of very finely disseminated pyrite ranging from 1% to 2% locally. Occasionally sulphides may be blebby in nature. Some of the sulphide has a silvery colour (arsenopyrite?) but is too fine to determine. Trace amounts of chalcopyrite are noted. Zone from 176.0 - 178.4 show strong calcite alteration with moderate to weak silicification and chloritization. Zone contains 2-3% blebby pyrite. Spotty hematization is noted.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)	
250.6	294.0	BASALTS	Rock consists of fine grain, light green to grey mafic volcanics. Rock is massive to weakly foliated with 2% fine calcite stringers and blebs. The basalts show weak pervasive chloritization and only very weak spotty calcite alteration. Spotty hematite and weak hematite veining is now noted. Strong foliation is noted in these areas.	65411	273.0	276.0	3.0'	30	
				65412	276.0	279.0	3.0'	NIL	
				65413	279.0	282.0	3.0'	NIL	
				65414	282.0	285.0	3.0'	20	
				65415	285.0	288.0	3.0'	130	
				65416	288.0	291.0	3.0'	425	
				65417	291.0	294.0	3.0'	NIL	
				65418	300.0	302.0	2.0'	10	
294.0	348.0	DIABASE		As described in section 224.7 - 250.6, dyke now contains 3-4% fine blebby chlorite with weak fracture controlled calcite alteration and moderate fracture controlled chloritization. Zone contains trace amounts of fine blebby pyrite, with local accumulations to 2%. Section @ 318.2' contains a 1-2" quartz-epidote? veinlet running @ 60° T.C.A. Veinlet shows weak spotty fracture controlled calcite. No sulphide mineralization is noted. Zone is moderate strongly magnetic.	65419	318.0	320.0	2.0'	10
					65420	348.0	350.0	2.0'	310
348.0	350.0	BASALT	As described in interval 250.6 - 294.0'. Zone contain 1% localized, blebby pyrite.						

E. O. H.

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hole No: 1316-19

Property: Tyranite	NTS:	Township: Tyrrell
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG 5805	Coordinates: L15+00N; 3+50W
Azimuth: 090°	Dip: -50°E	Length: 350.0'
Logged By: R. deGagne	Casing: 0 - 7.0'	Elevation:
Date Started: September 23, 1987	Date Completed: September 26, 1987	Date Logged: September 27, 1987
Core Size: BQ	Core Location: Tyranite Mine	Samples Shipped:
Drill Company: Bill Link	Overburden: 0 - 7.0'	Checked: D. Pilkey Jan. 6, 1988

Acid Dip Tests

1. 7.0' -52°E

2. 350.0' 55°E

Purpose To evaluate South Pod Lens.

Conclusions No significant intersections.

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

Hole No: 1316-19

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	7.0	CASING					
7.0	13.3	ULTRAMAFIC VOLCANICS					
		Black, aphanitic, ultramafic volcanics (basalts); texture is almost vitreous; sequence is extremely hard and is very weakly carbonatized (5%); rock unit is profusely mineralized sulphides occur in veinlets and strings that transect core axis, and as condensed blebs (almost massive - up to 3/4" in d.) along core and in fracture surfaces.	130151	7'0"	10'0"	3.0'	12
			130152	10'0"	13'0"	3.0'	16
			130153	13'4"	16'4"	3.0'	26
			130154	17'10"	20'10"	3.0'	19
			130155	24'2"	25'2"	1.0'	32
			130156	30'0"	32'0"	2.0'	5
			130157	38'11"	40'11"	2.0'	26
			130158	45'4"	46'4"	1.0'	117
13.3	111.4	MAFIC VOLCANICS					
		Dark green-green black aphanitic mafic volcanics (andesite); texture varies from uniformly aphanitic to one that contains lenticular splotches of lighter coloured (grey-green) chloritized host rock; mafic sequence is transected by strings, veinlets of calcite and differentially eroded chlorite; sporadic intrusions of carbonatized quartz cut across core axis @ 135°; as a whole the sequence is moderately altered through chloritization and carbonatization; sulphide mineralization occurs as disseminated blebs non-uniformly through rock unit, (blebs range in size from specks to 2-5 mm in d. blebs) and less predominantly in veinlets and stringers of carbonatized chlorite.	130159	48'0"	50'0"	2.0'	51
			130160	52'1"	53'1"	1.0'	12
			130161	56'2"	58'2"	2.0'	15
		32'4"; 1"-2" vein of purple grey-white carbonate interspersed with strings of chlorite and chloritized host rock @ 160° T.C.A.					
		34'0"; 1"-2" vein of grey-white siliceous carbonate @ 140° T.C.A.; contains intrusions of chloritized host rock.					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
		34'8";	130162	86'0"	76'6"	1.5'	48
		Network of grey-white carbonate tributaries, veinlets, and strings.	130163	90'2"	91'2"	1.0'	10
		35'2";	130164	93'11"	95'11"	2.0'	15
		2"-3" d. patch siliceous (40%) grey-white carbonate; transected by chloritized host rock veinlet and strings.	130165	98'5"	101'5"	3.0'	19
		85'9" - 87'7";	130166	103'0"	106'0"	3.0'	16
		Sequence of altered mafic volcanics; rock is moderately carbonatized, chloritized and weakly silicified giving the texture a somewhat "marbled" appearance; sulphides occur as disseminated blebs.	130167	106'0"	107'0"	1.0'	7
		90'9";	130168	115'11"	116'11"	1.0'	14
		1/2" vein of grey white silicified carbonate @ 60° T.C.A.					
		91'2";					
		1/4-1/2" veinlet of white silicified carbonate @ 45° T.C.A.					
		99'0";					
		3" lenticular patch of purple grey-white siliceous (20%) carbonate; sulphide blebs (2-4mm) are located in host rock peripheral to lens.					
		109'3" - 110'2";					
		Felsic Volcanics Sequence: Olive green-green grey aphanitic felsic volcanics (rhyolite); sequence intruded by numerous chloritic strings, carbonatized veinlets; minor disseminated sulphides occurring as specks.					
111.4	119.9	FELSIC VOLCANICS					
		Olive green to grey-green aphanitic felsic volcanic sequence; surface of rock unit is lineated with threads of carbonatized host rock and chlorite that transect core axis; sulphide mineralization occurs as blebs concentrated in veinlets and strings cutting across core axis;					
		119'8";					
		1/2" vein of grey-white calcite @ 100° T.C.A.					

From (Ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
119.9	154.3	MAFIC VOLCANICS	Dark green-green black aphanitic mafic volcanics (andesite); sequence is moderately altered (chloritized, carbonatized) as evidenced by transecting threads, strings of carbonate, chlorite as well as veins of silicified calcite; sulphide mineralization occurs through mafic unit varying between disseminated blebs and freckles, condensed blebs present in veinlets and strings, and lenticular pods ($\frac{1}{4}$ "- $\frac{1}{2}$ " in d.)	130169	129'1"	131'1"	2.0'	12
			124'8"; $\frac{1}{2}$ "-1" wide veins of white-white grey	130170	135'9"	138'9"	3.0'	7
			124'9"; calcite; contains strings-threads, pods of mafic host rock @ 110° T.C.A.	130171	142'2"	145'2"	3.0'	8
			125'3"; $\frac{1}{2}$ " wide white-grey white calcite vein @ 90° T.C.A.	130172	147'0"	150'0"	3.0'	5
			127'0" - 127'8"; Zone of intense carbonatization; characterized by numerous tributaries and threads of white carbonate; frequency of calcite strings gives rock unit a "marbled" or swirled appearance.	130173	161'10"	163'10"	2.0'	14
154.3	168.1	FELSIC VOLCANICS	Grey aphanitic, highly siliceous felsic volcanic sequence (rhyolite); parts of sequence are subporphyritic with weakly developed phenocrysts of leucocratic minerals; carbonatized and chloritized alteration of felsic unit is weak-moderate consisting of fine threads of white-grey calcite and black chlorite; sulphide mineralization is sporadic at best, as evidenced by isolated disseminated specks.					
			164'5"; $\frac{1}{2}$ " wide veinlet of fleshy-white calcite @ 60° T.C.A.					
			164'10"; $\frac{1}{2}$ "- $\frac{3}{4}$ " vein of white calcite @ 110° T.C.A., contains brecciated inclusions of felsic host rock.					

From (Ft)	To (Ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
168'1"	232'1"	MAFIC VOLCANICS	Dark green to green-black aphanitic mafic volcanic sequence (andesite); mafic unit is moderately carbonatized, chloritized with strings, threads of calcite and chlorite; sulphide mineralization is generally sporadic but when it occurs it does so as localized blebs (2mm in d.)	130174	170'4"	173'4"	3.0'	90
			169'11"; 1" vein of grey-white to light orange calcite; contains brecciated inclusions of mafic host rock (up to 1/4" in d.).	130175	175'0"	176'0"	1.0'	43
			175'9"; 3" band of highly silicified dark grey mafic volcanics; profusely mineralized with pyrite (20-30%) occurring as condensed blebs.	130176	176'6"	177'6"	1.0'	549
			176'6"; Light blue-grey blue staining found on fracture surfaces of mafic rock unit; mineral has a hardness of 1 and does not react to HCl. (Brucite?)	130177	183'0"	186'0"	3.0'	43
			177'2"; 1" vein of fleshy-white calcite @ 90° T.C.A.	130178	186'0"	188'3"	2.0'	62
			185'10"; 1"-1 1/2" wide vein of green-grey to smokey grey silicified carbonate @ 120° T.C.A.; vein contains strings, threads of chlorite, threads and blebs of crimson coloured hematized calcite; vein is strongly mineralized along its contacts and to a lesser extent (5%) in its interior; sulphides occur as disseminated blebs.	130179	191'5"	192'5"	1.0'	11
			176'6"; 10" band of silicified, strongly mineralized mafic volcanics (sulphides occur as disseminated blebs).					
			193'4" - 215'7"; Siliceous mafic volcanics: Grey-green to dark grey silicified mafic volcanics; texture is porphyritic in sections with phenocrysts of leukocratic minerals; black blebs or splotches freckle the mafic sequence; alteration occurs moderately in the form of carbonatized strings, veinlets and chloritic threads.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
232.1	261.2	DIABASE	Green black to dark grey phaneritic intermediate coarse grained diabase; sequence is uni-granular is transected sporadically by carbonate veinlets and threads; black chloritic lenses and pods are also present intermittently; sulphide mineralization occurs in sparse disseminated blebs. 246'3"; 2" vein of grey-white (70%) and light red (hematized) calcite @ 110° T.C.A.	130180	222'10"	225'10"	3.0'	55
				130181	226'3"	228'3"	2.0'	51
				130182	266'0"	269'0"	3.0'	274
				130183	269'0"	271'0"	2.0'	549
				130184	279'5"	280'5"	1.0'	240
261.2	265.0	MAFIC VOLCANICS	Dark green-green grey aphanitic mafic volcanics (andesite) weakly carbonatized-chloritized; surface contains small black specks-splotches (possibly chlorite); sulphide mineralization occurs as intermittent speckled blebs.					
265.0	287.0	ALTERRED MAFIC VOLCANICS	Highly silicified-carbonatized, moderately chloritized greyish green to light green-grey aphanitic mafic volcanics; weakly developed flow bands occur (greyish-white in colour) denoting intense carbonatization of mafic unit; chlorite is present as strings and threads transecting core axis as well as in splotches or blebs; sulphides occur massively in 3-5' sequence of the mafics (60% by volume in a 3' section!) on a sporadic blebs and disseminated specks in the rest of the sequence.					
287.0	291.10	MAFIC VOLCANICS	Green black to dark grey aphanitic mafic volcanics (andesite); sequence is weakly altered with respect chloritization, carbonatization; sulphides occur as sporadic spotty blebs or pods (3 mm in d.). 188'6"; 2" wide section consisting of lenticular phenocrysts of orthoclase and white calcite in the mafic volcanic matrix; orthoclase phenocrysts (up to 1/4" d.) are transected by chloritic threads; calcite appears as small white-grey phenocrysts (2 mm d.).					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
291.10	349.4	DIABASE	Dark green-grey medium grained diabase; texture is spotted or freckled with black blebs (1 mm d.) of a melanocratic mineral (chlorite) throughout sequence; intermittent sections of diabase is also porphyritically brecciated with phenocrysts of a leukocratic mineral (1 mm in d.); unit is also transected by olive green calcareous epidote veinlets and white quartz veinlets; sulphide mineralization is sparse and occurs as disseminated specks but occurs as blebs (1-2mm) with transecting quartz veins. 313'3"; 1 1/2" wide white calcareous quartz vein @ 70° T.C.A. contains a 1-2 mm pyrite bleb. 321'1"; 1/2" wide veinlet grey-green calcareous epidote @ 45° T.C.A. 323'4"; 1/2" wide veinlet of olive green calcareous epidote @ 60° T.C.A. 337'4"; 1/4" wide white quartz veinlet @ 110° T.C.A. 347'0"; 1/4" wide veinlet of white calcite @ 150-160° T.C.A.	130185 130186	312'9" 349'0"	313'9" 350'0"	1.0' 1.0'	14 132
349.4	350.0	MAFIC VOLCANICS	Highly silicified, carbonatized-chloritized mafic volcanics; (andesite); mafic sequence is dark green to light green-grey in colour; texture has a "marbled" or swirled appearance due to intermingling of calcite, chlorite strings and silicified host rock; calcite occurs as white veinlets and lenticular pods; sulphide mineralized is present as blebs (1-2 mm d.)					
350.0		E. O. H.						

DIAMOND DRILL LOG

Hole No: 1316-20

Property: Tyranite	NTS:	Township: Tyrrell
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG 5805	Coordinates: L16+00S; 3+50W
Azimuth: 090°	Dip: -50°E	Length: 350.0'
Logged By: D. Pilkey	Casing: 0 - 14.0'	Elevation:
Date Started: September 26, 1987	Date Completed: September 28, 1987	Date Logged: September 29, 1987
Core Size: BQ	Core Location: Tyranite Mine	Samples Shipped:
Drill Company: Bill Link	Overburden: 0 - 14.0'	Checked: D. Pilkey Jan. 7, 1988

Acid Dip Tests

1. 14.0' -50°E

2. 350.0' -50°E

Purpose To evaluate South Pod Lens.

Conclusions Significant Intersections:

228 to 233 - 5 ft. @ 0.049 oz gold/t.
(South Pod Lens on hanging wall of diabase
dyke).

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

Hole No: 1316-20

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	14.0	CASING					
14.0	176.0	BASALTS					
		Rock is massive to slightly foliated mafic volcanics. Rock is green dark green to black in colour. Alteration is weak with only very weak pervasive chloritization and weak fracture controlled calcite alteration.	53680	14.0	16.0	2.0	<5
		Fracturing in the basalts show small offsets with the calcite veining.	53681	16.0	18.0	2.0	5
		Zone contains spotty fracture controlled pyrite mineralization. Pyrite is brassy yellow in colour and occurs as small fracture controlled veinlets 1/8" in width.	53682	25.0	27.5	2.5	9
		Weak brecciation of the basalts is noted in some of the larger calcite veinlets.	53683	27.5	30.0	2.5	6
		A zone from 67.5' - 67.9' shows intense pervasive calcite alteration. Sections contain 1-2% blebby stringers of pyrite.	53684	39.0	42.0	3.0	10
		Basalts become much more pyritic from 109.0 foot mark, with the pyrite being found as fine, brassy stringers and fracture fillings. Veinlets are up to 1/8" in width. Zone also contains weak calcite veining with weak pervasive chloritization and very weak spotty calcite. Sections of the basalts have good tuffaceous textures.	53685	79.5	82.0	2.5	406
		Section from 152.5' - 156.5' contains 3-5% fine pyrite stringers in a host of mafic volcanic rock. The volcanic rocks show moderate to weak fracture controlled calcite alteration, but exhibit intense zones of pervasive silicification giving the rock a blue grey cherty appearance.	53686	82.0	83.5	1.5	6
			53687	83.5	84.5	1.0	790
			53688	96.0	98.0	2.0	11
			53689	98.0	100.0	2.0	174
			53690	100.0	102.0	2.0	145
			53691	102.0	104.0	2.0	16
			53692	109.5	112.0	2.5	13
			53693	112.0	115.0	3.0	9
			53694	115.0	118.0	3.0	19
			53695	118.0	121.0	3.0	46
			53696	121.0	124.0	3.0	5
			53697	124.0	127.0	3.0	<5
			53698	127.0	130.0	3.0	9
			53699	130.0	133.0	3.0	<5
			53700	133.0	136.0	3.0	6
			53701	136.0	139.0	3.0	<5

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
176.0	185.2	FELDSPAR PORPHYRY	Rock consists of strongly altered feldspar porphyry. Porphyritic texture is poorly developed. Rock contains 2% subhedral altered, greenish white plagioclase phenocrysts. Moderate pervasive chloritization is noted, with weak calcite veinlets, and very weak pervasive calcite alteration.	53702	139.0	142.0	3.0	11
				53703	142.0	145.0	3.0	6
				53704	145.0	148.0	3.0	28
				53705	148.0	151.0	3.0	6
				53706	151.0	152.5	1.5	<5
				53707	152.5	154.5	2.0	54
				53708	154.5	156.5	2.0	316
				53709	156.5	159.5	3.0	17
				53710	159.5	162.5	3.0	<5
				53711	162.5	165.5	3.0	5
185.2	213.0	ALTERED BASALT (PYRITIC ZONE)	Rock consists of foliated, fine grained mafic volcanics. Rocks are light grey to greenish grey in colour and show strong fracturing. Alteration in the zone is quite variable, with sections showing typical strong pervasive chloritization and weak fracture controlled calcite veining. These sections contains trace 1% fine disseminated pyrite as well as weak pervasive silicification. Other sections show strong very strong pervasive silicification, with hairline zones of chlorite alteration. Siliceous zones show an abundance of sulphide mineralization in the form of fine grain pyritic stringers, pyritic blebs and individual pyrite grains. Sulphide mineralization in these zones may reach 10% but is on average 4-6%. Small calcite stringers are also common in these zones. The whole area shows very strong pervasive calcite alteration.	53712	182.2	185.2	3.0	<5
				53713	185.2	188.5	3.3	55
				53714	188.5	191.0	2.5	17
				53715	191.0	193.5	2.5	70
				53716	193.5	196.0	2.5	22
				53717	196.0	198.5	2.5	902
				53718	198.5	201.0	2.5	14
				53719	201.0	203.5	2.5	340
				53720	203.5	206.0	2.5	149
				53721	206.0	208.5	2.5	120
				53722	208.5	211.0	2.5	46
				53723	211.0	213.0	2.0	32
213.0	235.4	BASALTS	Same as interval 14.0 - 176.0, zone shows moderate pervasive chloritization, with moderate calcite veining and pervasive calcite alteration. Trace pyrite is noted locally with pyrite stringers up to 2%. Weak brecciation occurs along some of the large calcite veinlets. Zones of moderate pervasive silicification are found.	53724	213.0	216.0	3.0	14
				53725	216.0	219.0	3.0	23
				53726	219.0	222.0	3.0	52
				53727	222.0	225.0	3.0	89
				53728	225.0	228.0	3.0	741
				53729	228.0	231.0	3.0	1949
				53730	231.0	233.0	2.0	0.0568
			oz/t	1270				
			oz/t	0.0370				

From (Ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
235.4	265.8	DIABASE	Rock consists of fine to medium grain, grey massive weakly foliated diabase. Rock shows moderate alteration in the form of small greenish white quartz calcite stringers running with weak chlorite along fractured. Good diabasic texture is noted in relatively unaltered portions with moderate-strong local magnetism being noted.	53731	233.0	235.4	2.4	540
				53732	246.8	248.5	1.7	31
				53733	274.5	276.8	2.3	75
				53734	321.3	323.0	1.7	13
265.8	279.7	BASALTS	Rock consists of fine grain grey greenish grey mafic volcanics. Basalts show weakly developed foliations from 40-60° T.C.A. Alteration consists of weak pervasive chlorite and calcite alteration with moderate strong local calcite veining.					
279.7	337.0	DIABASE	Rock is same as in interval 235.4 - 265.8, rock consists primarily hornblende in short prismatic grains. Grains are 1-3 mm in size, rock has excellent diabasic texture. Mafic minerals to felsic minerals is 5-1. Section contain 10% small black chlorite blebs. Minor alkali feldspar is noted in a small section 304.0 - 304.5. Alteration consists of blebby chloritization with local zones of intense epidotization. Small epidote veinlets are also present running @ 65-80° T.C.A. Weak calcite alteration is noted. Sulphide mineralization consists of 1% fine disseminated pyrite. Zone is strongly magnetic.					
337.0	347.7	BASALT	Rock consists of fine grain, strongly foliated mafic volcanics. Rock has colour variations from white, to grey, black. Foliations run @ 55-60° T.C.A. Alteration of the basalts consists of strong foliation controlled chloritization, moderate pervasive blebby silicification. Weak moderate spotty calcite alteration.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd	Sulphide mineralization is found as fine pyrite stringers and blebs parallel to foliation. Pyrite comprises 1-3% of the zone.	53735	337.0	340.0	3.0	292
				53736	340.0	343.0	3.0	479
				53737	343.0	346.0	3.0	136
				53738	346.0	347.7	1.7	24
347.7	350.0	FELDSPAR PORPHYRY	Same as interval 176.0 - 185.2, phenocrysts are subhedral anhedral, white plagioclase grains forming 5-10% of zone. Zone contains 1% fine euhedral pyrite, with very weak calcite veining.	53739	347.7	350.0	2.3	30

E.O.H.

DIAMOND DRILL LOG

Hole No: 1316-21

Property: Tyranite	NTS:	Township: Tyrrell
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG5805	Coordinates: L17+00N, 3+50W
Azimuth: 090°	Dip: -50°E	Length: 350.0'
Logged By: D. Pilkey	Casing: 0 - 9.0'	Elevation:
Date Started: September 29, 1987	Date Completed: October 1, 1987	Date Logged: October 2, 1987
Core Size: BQ	Core Location: Tyranite Mine	Samples Shipped:
Drill Company: Bill Link	Overburden: 0 - 9.0'	Checked: D. Pilkey Jan. 7, 1988

Acid Dip Tests

1. @ 9.0' -50°E

2. 350.0' -52°E

Purpose To evaluate South Pod Lens.

Conclusions Significant Intersections:

259 to 262.4 - 3.4 ft. @ 0.0402 oz gold/t.
 (South Pod Lens on hanging wall of diabase
 dyke).

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

Hole No: 1316-21

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	9.0	CASING					
9.0	189.3	BASALTS	130118	21.0	23.0	2.0	15
			130119	41.0	42.3	1.3	56
			130120	62.0	64.0	2.0	8

Rock consists of fine grain, massive to slightly foliated, dark green mafic volcanic. Alteration in the basalts is weak, with very spotty moderate calcite alteration.

Alteration consists of weak pervasive chloritization with small zones of moderate fracture controlled chlorite slips.

Small hairline calcite slips form 1% of zone showing no preferred orientation. Sections of more intense calcite veining show moderately well developed brecciation textures.

Silicification is present as small 1/2" quartz-calcite veinlets and minor very weak pervasive silicification.

Sulphide mineralization consists of blebby zones to irregular discontinuous veinlets of brassy coloured pyrite. Pyrite forms 1% of the zone on average.

Section from 41.0 - 42.3 contains 10-15% fine disseminated to 1/4" thick massive pyrite fracture fillings. Rock shows spotty calcite and chlorite alteration along fractures.

Section from 123.0 - 129.0 contains moderately altered massive basalts with 2-5% fine, fracture controlled pyrite stringers up to 1/8" in width. The zone also contains sections of massive pyrrhotite forming 20-50% of the rock. Pyrrhotite is brownish in colour and seems to be older than the pyrite as the pyrite veinlets cut through the pyrrhotite.

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
		Small zones of more intense silicification are noted as small random quartz stringers. Stringers usually show increases in fine disseminated pyrite on either side of the veinlets. Sulphides reach 30% in these zones.	130121	90.5	92.5	2.0	47
		Basalts from 129.0' become weakly porphyritic with the appearance of 1%-2% subrounded, greenish white plagioclase phenocrysts. Phenocrysts are 2 mm or less in size.	130122	123.0	126.0	3.0	18
		Calcite stringer alteration and local pervasive silicification becoming prominent by footage 174.0'. Calcite stringers are 1/4" or less in width, pinkish white to grey white in colour running at or sub-parallel to 45° - 50° T.C.A.	130123	126.0	129.0	3.0	8
			130124	129.0	132.0	3.0	< 5
			130125	132.0	135.0	3.0	6
			130126	151.0	154.0	3.0	9
			130127	161.0	163.0	2.0	5
			130128	163.0	165.0	2.0	30
			130129	165.0	166.0	1.0	8
			130130	166.0	167.5	1.5	11
			130131	174.0	177.0	3.0	48
			130132	177.0	180.0	3.0	< 5
			130133	180.0	183.0	3.0	9
189.3	218.3	SILICEOUS BASALT (PYRITIC ZONE)					
		Zone is hosted by fine grain, massive to moderately foliated mafic volcanics. Rocks are light green, dark green to black in colour show variable degrees of alteration.	130134	183.0	186.0	3.0	5
		Alteration consists mostly of weak - moderate calcite stringers, with local zones of strong pervasive calcite alteration. Chloritization is strong to very strong consisting primarily of fracture controlled chlorite slips.	130135	186.0	189.3	3.3	8
		Silicification ranges from moderate - strong pervasive with minor zones of weak quartz-calcite veining. Strong silicified basalts are grey greenish grey in colour and with strong fracturing and chlorite infillings take on a brecciated texture.	130136	189.3	191.3	2.0	10
		Sulphide mineralization, like alteration, is spotty and variable but consists of primarily pyrite and trace amounts of chalcopyrite. Pyrite content varies from 1% - 20% locally. Weakly altered basalts contain fine blebs and thin pyritic layerings. Small veinlets can be up to 1/4" in width and take on a massive appearance. Stringers commonly follow fractures.	130137	191.3	194.3	3.0	25
			130138	194.3	196.3	2.0	50
			130139	196.3	198.3	2.0	24
			130140	198.3	201.3	3.0	18
			130141	201.3	204.3	3.0	74
			130142	204.3	207.3	3.0	17
			130143	207.3	210.3	3.0	28
			130144	210.3	213.3	3.0	33
			130145	213.3	216.3	3.0	35
			130146	216.3	218.3	2.0	24

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd	In section characterized by moderate-strong pervasive silicification and calcite alteration, sulphide mineralization takes on the form of small finely disseminated pyrite grains and agglomerations or clusters of these fine grains. Sulphide percentages in these location may reach 20-25% locally. Where silicification is fracture controlled, pyrite follows subparallel to foliation.	130147	245.5	246.5	1.0	5
				130148	246.5	248.5	2.0	39
				130149	248.5	250.0	1.5	26
				130150	250.0	251.5	1.5	<5
218.3	246.5	DIABASE	Rock consists of medium grained, grey to greenish grey diabase. Rock shows well developed diabase textures with weak spotty alteration. Rock contains 2% fine fracture filled calcite stringers, weak fracture controlled chlorite and minor spotty epidote. Rock is highly magnetic. Contact to altered basalts is very fine grain to cherty (possible chill margin over 5"). Small blebs of pyrite are noted locally.	130187	251.5	253.5	2.0	156
				130188	253.5	256.0	2.5	101
				130189	256.0	259.0	3.0	324
				130190	259.0	260.7	1.7	1432
				130191	260.7	262.4	1.7	1323
							oz/t	.0418
							oz/t	.0386
246.5	262.4	SILICEOUS BASALT (PYRITE ZONE)	Same as interval 189.3 - 218.3, zone contains on average 3-5% fine pyrite stringers running parallel to foliation directions @ 40-60° T.C.A. Section of intense pyrite stringers almost have a massive appearance with sulphide abundance reaching 30-40%. Zone shows strong fracture controlled chloritization but only weak calcite veining. Silicification varies from weak to strong. A small finger of fine - medium grained diabase is located from 250.0 - 251.5'.					
262.4	316.0	DIABASE	Same as interval 218.3 - 246.5'; Dyke now has very well developed diabase texture with small fragments, 1/4" or less in size. Fragments are well rounded and form 1% of diabase. Zone shows slightly more chloritic alteration but only minimal pyrite mineralization. Zone is strongly magnetic. Margins show sharp contacts and very fine grained.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
315.0	350.0	BASALTS	Same as interval 9.0 - 189.3', zone shows moderate pervasive fracture controlled chloritization with weak spotty calcite alteration. Basalts approach feldspar porphyry @ 326.0, porphyry contains 15% small (1mm) white plagioclase phenocrysts. Basalts seem to grade into porphyry then back to basalts. Pyrite mineralization forms 1%, to 3% local accumulations of fine grain brassy pyrite.	130192	336.5	338.5	2.0	72

E. O. H.

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hole No: 1316-22

Property: Tyranite	NTS:	Township: Knight
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG 5805	Coordinates: L20+00S; 3+50W
Azimuth: 090°	Dip: -50°E	Length: 350.0'
Logged By: D. Pilkey & R. deGagne	Casing: 0 - 1.7'	Elevation:
Date Started: October 1, 1987	Date Completed: October 3, 1987	Date Logged: October 4, 1987
Core Size: BQ	Core Location: Tyranite Mine	Samples Shipped:
Drill Company: Bill Link	Overburden:	Checked: D. Pilkey Jan. 7, 1988

Acid Dip Tests

1. 1.7' -50°E

2. 350.0' -53°E

Purpose To evaluate South Pod Lens.

Conclusions No significant Intersections.

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

Hole No: 1316-22

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	1.7	CASING					
1.7	15.1	DIABASE	56582	15.3	16.8	1.5	49
		Dark green to green black (medianocratic), intermediate grained, anhedral mafic intrusive (diabase); crystal form is anhedral subhedral; hydromorphic texture. Sequence is moderately silicified, and weakly to moderately carbonatized; above alteration is denoted by stringers and veinlets of carbonate and highly silicified patches transected by quartz veins; also evident is sporadic epidote enrichment of quartz and carbonate veinlets. 10'8"; 1/2"-1" vein purple-white. 10'8"; 3" section of grey silicified host rock (diabase) @ 110° T.C.A.; 2 white-grey 1/4" quartz veinlets transect sequence @ 110° T.C.A.					
15.1	16.8	ULTRAMAFIC VOLCANICS (BASALT)					
		Black aphanitic ultramafic volcanic (andesite-basalt) sequence; unit is relatively massive and is cut perpendicularly by carbonaceous threads and strings; sulphide mineralization exists as relatively profuse pyritic threads and blebs (2 mm in d.).					
16.8	34.5	DIABASE					
		Dark green to green-black, intermediate grained mafic intrusive (diabase); mafic sequence is highly silicified (quartz veinlets and strings; patches of silicified host rock) and weakly to moderately carbonatized (calcareous veinlets and strings), minor epidote enrichment of calcitic veinlets is also evident.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd	28'2" - 29'7"; Green-grey highly silicified mafic intrusive sequence; quartz veinlets and strings transect unit, 1 1/2-2" d. lens of white hyalinic quartz.	56583	57.2	58.7	1.5	12
				56584	63.0	64.0	1.0	25
				56585	83.6	85.6	2.0	30
				56586	85.6	87.6	2.0	10
				56587	97.9	100.4	2.5	9
34.5	133.5	MAFIC VOLCANICS (ANDESITE)	Dark green-green-black aphanitic mafic volcanics (andesite); texture appears sub-aplitic amorphous; sequence is moderately carbonatized (calcareous vein networks, strings and epidote enriched veinlets transecting core axis) and weakly to moderately silicified (quartz threads and strings) differentially eroded cavities occur intermittently on core surface; sulphide mineralization is sporadic, occurring as pyritic blebs (up to 5 mm in d.) and stringers.	56588	100.4	102.1	1.7	40
			107'5" - 111'6"; Mafic unit becomes high silicic; texture is porphyritic is phenocrysts of "quartz eyes" (quartz) (tholeiitic andesite?).	56589	102.1	104.6	2.5	12
			61.25'; Network of carbonaceous veinlets and tributaries; veinlets display epidote enrichment and hematitic staining.	56590	107.9	108.9	1.0	<5
			63.4'; 3/4-1" vein of brown-white calcite @ 70° T.C.A.					
			73.1"; 1" vein purple-white aplitic-subhedral calcite with acicular inclusions of green-black host rock parallel to strike of vein; vein strikes at 45° T.C.A.					
			84.25'; 1/2"-3/4" white aplitic-anhedral band of calcite with pods of host rock @ 90° T.C.A.					
			100.1'; Mirolitic (1" in d.) containing subhedral					
			100.2'; - anhedral grey-white crystals of calcite.					
			100.4' - 104.6'; Grey-green highly silicified, moderately carbonatized mafic volcanics; texture appears "marbled" or "swirled" due to intermingling of siliceous rock and mafic host rock; sequence contains pyritic sulphide blebs (up to 2 mm).					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
	102.25'	102.25'; Limonite (iron oxide) staining of fracture surfaces of host rock.	56591	121.0	123.5	2.5	13
104.8'		0.7' section of limonized (iron oxidized) host rock fragments.	56592	123.5	126.0	2.5	11
			56593	126.0	128.5	2.5	46
			56594	128.5	131.0	2.5	67
107.5'	112.0'	Dark green grey porphyritic mafic volcanics (andesite) with quartz phenocrysts (quartz-eyes); sequence is weakly to moderately carbonatized with calcitic threads, strings and veinlets.	56595	131.0	133.5	2.5	7
		108.4'; 1-2 mm bleb of chalcopyrite in an intruding grey-white carbonaceous veinlet.					
113.2'	113.8'	Grey-green "marbled" or "swirled" highly silicified and moderately carbonatized mafic volcanic sequence; weak flow bands are evident where siliceous rock intermingles with mafic host rock.					
121.0'	131.0'	Andesites remain altered by chloritization and small calcite veining. Veinlets 1/4" or smaller in size. The zone is characterized by an increase in sulphide mineralization. Sulphides consist of 1%-5% locally brassy yellow pyrite. Pyrite is found in small irregular stringer and blebs up to 1/2" in diameter. Sulphides also common as halos along calcite veinlets.					
131.0'	133.5'	Andesites no longer are pyritic but remain moderately altered with chlorite and now moderate to strong blebby calcite and fine calcite stringers.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
133.5	169.5	DIABASE	Rock is fine-medium grained, weakly foliated showing zones of intense but spotty alteration. Unaltered diabase is comprised of plagioclase and hornblende. Diabasic texture is rather poorly developed. Mafic percentage is difficult to determine due to alteration or fine grain size, but is estimated to be 25-30%. Rock shows moderate magnetism in relatively unaltered zones.	56596	140.0	142.5	2.5	<5
			Alteration of the diabase is commonly marked by the development of a foliation, marked by a series of parallel chlorite slips and blebs. Small calcite veinlets and stringers are noted throughout the diabase, most running @ 75-80° T.C.A.	56597	142.5	145.5	3.0	<5
			141.0' - 145.0'; This zone is marked by the appearance of 3 small, milky white quartz veins and irregular blebs..	56598	145.5	148.5	3.0	<5
			1) The first is located @ 141.0 - 142.0', and is a series of small irregular veinlets. The quartz veins contain small whisps and blebs of epidote throughout section, as well as exhibiting a weak moderate spotty calcite alteration.	56599	148.5	150.5	2.0	<5
			Sulphide mineralization consists of blebby chalcopryite, forming 1% of zone. Two small blebs of molybdenite are also noted.	56600	164.5	166.0	1.5	<5
			2) The second is the same as 1, now extending over 5" @ 143.5'. Zone contains 1-2% bleb chalcopryite. Blebs of intense chalcopryite are also seen.					
			3) The last is mostly quartz with 5% epidote, trace chalcopryite and occurs @ 144.6'.					
			Other smaller zones of quartz-epidote and minor chlorite alteration are found throughout zone. Trace chalcopryite and minor pyrite are noted through diabase. Contact run @ 60° T.C.A.					

From (ft)	To (Ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
169.5	186.5	BASALT ANDESITE	Mafic volcanic rocks are fine grain, grey to greenish grey, weakly foliated. Alteration is strong with strong pervasive chlorite and weak calcite as well as 5% fine calcite stringers and irregular blebs. Zone contains 1-2% fine blebby pyrite. Pyrite is brassy yellow in colour. Rock shows no apparent silicification.	53801	169.5	171.5	2.0	12
				53802	171.5	173.5	2.0	12
				53803	173.5	176.0	2.5	34
				53804	176.0	178.5	2.5	<5
				53805	178.5	181.0	2.5	12
				53806	181.0	183.5	2.5	<5
				53807	183.5	186.5	3.0	138
				53808	203.0	205.0	2.0	<5
				53809	216.0	218.0	2.0	<5
186.5		DIABASE	Rock is fine-medium grained, weakly foliated, with local sections of moderate alteration. Diabase consists of mostly plagioclase. Grains appear subrounded whitish grey in colour. Rock also contain 30-40% hornblende. Hornblende grains are generally stubby, black in colour and exhibit some degree of chloritization. Small chloritic blebs give rock a poikiloblastic appearance. Blebs are commonly stretched in a weakly defined foliation plane. Small slippage zones of intense chloritization are also noted. Diabase commonly shows very weak, fracture controlled calcite veining and occasional spotty epidotization. Pyrite is common throughout diabase, and occurs as discrete blebs and grains scattered randomly through the rock. Trace amounts of chalcopyrite are also found.					
			203.4' - 204.5'; is a zone of intense alteration marked by a weakly foliated, strong intense epidotization section. Minor small quartz veinlets and spotty calcite are found. Trace amounts of pyrite are noted.					
			246.0' - 253.7'; is a zone of intense chloritization, with diabase becoming very fine grained. Zone may be a small section of basalt.					

From (Ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
		Zone shows strong fracturing with blebby and fine fracture filled calcite stringers. Zone also shows moderate silicification as milky white quartz blebs. Weak calcite is also noted along with quartz. Blebs of brassy pyrite are noted throughout this zone with local accumulations to 3%.	53810	253.7	256.7	3.0	<5
			53811	256.7	259.7	3.0	<5
			53812	259.7	261.7	2.0	<5
			53813	269.0	271.0	2.0	<5
			53814	321.0	322.0	1.0	<5
			53815	326.0	328.0	2.0	<5
			53816	328.0	329.5	1.5	<5
253.7		FELDSPAR PORPHYRY					
		Rock is medium grained, weakly foliated porphyry. Rock colour varies with degree of alteration from a grey groundmass to red. Feldspar phenocrysts range from white, green to rusty red. Phenocrysts are euhedral-subhedral, and from 25 - 40% of rock, usually 2 mm in size. Alteration of the feldspar seems to be primarily hematite staining. Groundmass seems to be made up of feldspar, mafic minerals (hornblende) and minor chlorite. Groundmass is very fine grain and exhibits spotty weak calcite alteration, minor chlorite alteration. Small rounded, mafic volcanic fragments are frequent, with sizes up to 1.5". Fragments show strong pervasive chloritization. Small hairline fracture fillings of epidote are found throughout zone. Veinlets show random orientations. The zone shows an overall moderate hematization which affects the total mineralogy of the porphyry. Some sections show weak alteration. A large mafic fragment is found @ 307.7' - 308.8'. Fragment show moderate chloritization and weak calcite alteration. Trace amounts of pyrite are found. 328.8' - 329.2'; Zone of intense epidotization and moderate strong silicification.					

E. O. H.

GUNNAR GOLD / MILL CITY INC.

DIAMOND DRILL LOG

Hole No: 1316-23

Property: Tyranite	NTS:	Township: Tyrrell
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG 5805	Coordinates: L20+00S, 4+50W
Azimuth: 090°	Dip: -50 E	Length: 500'
Logged By: D. Pilkey	Casing: 1'	Elevation:
Date Started: October 1, 1987	Date Completed: October 4, 1987	Date Logged: October 7, 1987
Core Size: BQ	Core Location: Tyranite	Samples Shipped:
Drill Company: Bill Link	Overburden:	Checked: J. McAuley Dec. 11/87

Acid Dip Tests

1. Collar; -50° E	250.0' -51°E	2. 500.0' -53°E
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Purpose To evaluate South Pod Lens.

Conclusions Significant Intersection: 303.7 - 306.2 - 2.5 ft. @ 0.0367 oz gold/ton.

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

Hole No: 1316-23

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	1.0	CASING					
1.0	105.0	BASALT					
		Rock is fine grain, greenish black mafic volcanic. Rock shows weak foliations with variable degrees of silicification.	53740	41.0	42.5	1.5	10
		Zones of intense silicification are characterized by light grey to bluish grey in colour, with small hairline fracture fillings of calcite. Two small milky white quartz veins are noted @ 43.0' and 45.0'. Veins also contain spotty chloritization along the contact.	53741	42.5	43.5	1.0	12
		Basalts along calcite stringers produce light greenish colouring of basalts. Veinlets runs @ 45-60° T.C.A.	53742	43.5	45.5	2.0	11
		92.5 - 105.0' (Alteration Zone). Basalts now show intense alteration. Rocks are fine grain, to fragmental. Colours vary from light grey to white. The zone is characterized by very strong to moderate pervasive silicification, as well as weak moderate spotty calcite alteration. Small zones of calcite and quartz veinlets are noted, @ 50-70° T.C.A. Weak veinlets of epidote are found, with weak moderate chloritization. Chlorite occurs as fine chlorite slips and blebs or as a weak pervasive alteration in less silicified basalts. Thin chlorite slips give rock a brecciated texture. Sulphide mineralization consists of trace amounts of pyrite to 1% fine disseminated pyrite locally.	53743	71.0	72.0	1.0	5

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
105.0	115.0	FELDSPAR PORPHYRY	<p>Rock consists of a fine grain matrix of plagioclase and chlorite with 10% rounded, white, pinkish feldspar phenocrysts.</p> <p>The rock is massive to slightly foliated, weakly altered. With 3% fine calcite stringers with small hairline chlorite fragments and thin chloritic slips. Spotty epidote is also noted, with very weak spotty calcite throughout zone. Veinlets run @ 50-75° T.C.A. Sulphide mineralization consists of trace amounts of fine disseminated pyrite with occasional chalcopyrite blebs. Chalcopyrite usually occurs within larger calcite veinlets.</p>	53744	92.7	96.0	3.3	6
				53745	96.0	99.0	3.0	6
				53746	99.0	102.0	3.0	6
				53747	102.0	105.0	3.0	28
				53748	105.0	107.0	2.0	7
115.0	214.0	BASALT	<p>Rock is massive to slightly foliated, fine grained greyish green in colour. Grain size and alteration varies throughout the zone.</p> <p>From 115.0 - 125.0, basalts are medium grained with a very heterogeneous texture. Rock consists of a weakly altered matrix of greenish white feldspar with larger euhedral, black grains of hornblende up to 1/8" in length. Larger grains give rock a diabasic texture.</p> <p>Alteration is present in the form of weak, fracture controlled calcite stringers, 2 mm in width. Small rounded calcite blebs are also noted, but only form 1% of zone. Weak chloritization is present.</p> <p>Sulphide mineralization consists of bleb grains of pyrite, locally reaching 1% of zone.</p> <p>From 125.0 - 162.0, basalts show weak moderate localized zones of calcite veining. Veins run at random direction T.C.A., and commonly contain small blebs and thin slips of chlorite parallel to veinlet direction. A large milky white calcite veinlet running @ 45° T.C.A. Veinlet is 3-4" in width and contains moderate fracture controlled chlorite parallel to foliation.</p>	53749	119.0	121.0	2.0	7
				53750	129.0	131.0	2.0	12
				53751	131.0	133.0	2.0	16
				53752	133.0	136.0	3.0	8
				53753	136.0	138.0	2.0	8

From (Ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd	Small euhedral pyrite grains appear from 147.0' but do not exceed 1% of rock. Calcite alteration is now moderate to strong, with moderate pervasive chloritization present. Weak brecciation textures are noted with small mafic volcanic fragments in a black, fine grain chloritic matrix.	53754	138.0	141.0	3.0	8
			From 162.0 - 166.0, basalts show intense pervasive silicification giving the rock a light greenish grey colour. Fractures within these siliceous zones contain thin infillings of chlorite. Combined the zone shows a breccia texture with subrounded siliceous fragments of basalt in the chlorite matrix. Blebby pyrite and thin pyritic stringers are common forming 1-2% of zone. Minor blebby chalcopyrite is also seen.	53755	141.0	144.0	3.0	7
				53756	144.0	147.0	3.0	10
				53757	147.0	149.0	2.0	9
				53758	160.0	162.0	2.0	<5
				53759	162.0	164.0	2.0	<5
				53760	164.0	166.0	2.0	8
				53761	166.0	169.0	3.0	<5
				53762	169.0	172.0	3.0	5
				53763	172.0	175.0	3.0	5
				53764	191.0	194.0	3.0	<5
				53765	194.0	197.0	3.0	7
				53766	211.0	214.0	3.0	23
214.0	220.3	FELDSPAR PORPHYRY	(Alteration) rock is moderately foliated, medium grained, carbonatized porphyry. Rock is grey to green grey in colour. Porphyry contains 2% small phenocrysts of reddish white feldspar. Phenocrysts are anhedral and are all 2 mm in size. Ground mass is predominantly feldspar grains, with moderate blebby and slip controlled chlorite and weak spotty calcite alteration. Small hairline 1/8" calcite veinlets are noted forming 1% of zone. Phenocrysts show hematization and very weak calcite alteration. Trace pyrite is noted.	53767	214.0	217.3	3.3	<5
				53768	217.3	220.3	3.0	<5
220.3	269.0	BASALT	Rock is fine grain weakly foliated green mafic volcanics. Rock shows weak spotty calcite alteration as well as moderate weak pervasive and fracture controlled chloritization. Silicification is spotty but varies from weak to intense. Zones of intense silicification are light green in colour, commonly along small fractures.					

From (Ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
		Pyrite occurs as small blebs euhedral grains and patchy irregular fracture fillings up to 2% of zone. Section are moderately magnetic, possibly reflecting a weak pyrrhotite mineralization or fine magnetite?	53769	220.3	223.0	2.7	<5
		Small epidote veinlets become common from 250 - 263. Veinlets are 2 mm in width with zones of veinlets clustering up to 1". Sulphide mineralization in these areas may reach 3-5% locally.	53770	223.0	226.0	3.0	<5
			53771	226.0	229.0	3.0	<5
			53772	229.0	232.0	3.0	<5
			53773	232.0	236.0	4.0	5
			53774	236.0	239.0	3.0	11
			53775	239.0	242.0	3.0	9
			53776	242.0	245.0	3.0	19
			53777	245.0	248.0	3.0	42
269.0	298.7	DIABASE					
		Rock is fine to medium grained with an aphanitic chill margin 6-8" in width. Rock is moderately altered grey to green in colour, with very weak foliation. Good diabasic texture and moderate magnetism is noted.	53778	248.0	251.0	3.0	463
		The rock consists of greenish white plagioclase feldspar, with 50% small euhedral black hornblende grains. Grains show random orientation.	53779	251.0	254.0	3.0	5
		The diabase shows moderate spotty chloritization with thin chlorite slips and small blebs giving the rock a spotted appearance. Weak spotty calcite and irregular calcite blebs. Blebs also show spotty hematization.	53780	254.0	257.0	3.0	6
		@ 188.8', zone of strong epidote alteration, up to 3" in width.	53781	257.0	259.0	2.0	<5
			53782	259.0	261.0	2.0	<5
			53783	261.0	263.0	2.0	<5
			53784	263.0	265.0	2.0	<5
			53785	265.0	268.0	3.0	5
			53786	268.0	270.0	2.0	8
			53787	270.0	273.0	3.0	<5
			53788	277.0	280.0	3.0	<5
			53789	288.0	290.0	2.0	<5
298.7	306.2	BASALT					
		A zone of basalt is noted in this section, which may be a large fragment within the diabase. The basalt is fine to aphanitic very dark green in colour. Alteration consists of strong chloritization moderate pervasive and fracture controlled calcite veinlets, with weak to strong local silicification. Sulphide minerals consist of brassy yellow pyrite blebs and irregular veinlets, or as small euhedral, disseminated grains. Sulphide percentage varies from trace to 3% over zone.	53790	298.7	301.2	2.5	16
			53791	301.2	303.7	2.5	468
			53792	303.7	306.2	2.5	1257

From (Ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
306.2	366.2	DIABASE	Rock is now more massive, and only weakly foliated. Diabase exhibits very weak spotty calcite, chlorite and epidote alteration. Spotty hematization is found @ 338.0'. Sulphide mineralization consists of blebby pyrite, never exceeding 1% of zone.	53793	318.0	320.0	2.0	15
				53794	328.0	330.0	2.0	9
				53795	337.0	339.0	2.0	10
366.2	458.2	FELDSPAR PORPHYRY	Rock consists of massive, weakly altered porphyry. Rock contains a fine grain, greyish green matrix, supporting 10-35% subhedral, green to white plagioclase phenocrysts. Phenocrysts are subangular, and are noted up to 1/4" in width. Matrix is very fine, but seems to be made of feldspar, mafic (hornblendes) and chlorite, with minor calcite and traces of pyrite. Minor quartz may be present. Alteration present is very weak hairline calcite veinlets with minor local hematization. Zones of finer grain porphyry contain more chlorite and may represent partial digesting of mafic volcanic fragments.	53796	377.0	379.0	2.0	<5
				53797	388.0	390.0	2.0	<5
				53798	398.0	400.0	2.0	<5
				53799	412.5	415.5	3.0	<5
				53800	415.5	418.5	3.0	<5
366.2	458.2	FELDSPAR PORPHYRY	Grey-green to grey-brown medium to coarse grained phaneritic-porphyrific texture due to subhedral phenocrysts of plagioclase; sequence is weakly to moderately altered by white calcitic threads and strings and by carbonaceous epidote veinlets that transect core axis. 439.2' - 440.6'; Dark grey-green mafic volcanic sequence (andesite). 440.6' - 458.2'; Plagioclase phenocrysts become much smaller and more frequent in dioritic host rock.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
458.2	480.2	PORPHYRITIC DIABASE GABBRO	Blackish-green medium grained phaneritic-porphyr- itic mafic intrusive (diabase); sequence contains leukocratic phenocrysts of alkali feldspar; rock unit is weakly carbonatized with strings and threads of white calcite.					
480.2	488.3	PORPHYRITIC DIORITE	Greyish-green medium grained phaneritic-porphyr- itic intermediate intrusive (diorite); porphyritic texture due to leucocratic plagioclase, phenocrysts; sequence is weakly carbonatized with calcitic strings, threads.					
488.3	489.75	MAFIC VOLCANICS (ANDESITE)	Dark grey-green mafic volcanics (andesite); weakly intruded by white calcitic threads.					
489.75	500.0	DIABASE	Blackish-green medium grained mafic intrusive (diabase); texture at sequence starts out por- phyritic for the first foot with phenocrysts of leukocratic and hematized alkali feldspar; por- phyritic texture in diabase wanes and eventually pinches out to fine to medium grained equigranular; diabase is weakly to moderately carbonatized by calcareous epidote and white calcite transections.					
	500.0	E. O. H.						

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hole No: 1316-24

Property: Tyranite	NTS:	Township: Tyrrell
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG5805	Coordinates: L20+00S, 4+50W
Azimuth: 090	Dip: -70°E	Length: 600'
Logged By: D. Pilkey	Casing: 3'	Elevation:
Date Started: October 5, 1987	Date Completed: October 9, 1987	Date Logged: October 22, 1987
Core Size: BQ	Core Location: Tyranite	Samples Shipped:
Drill Company: Bill Link	Overburden: 2'	Checked: J. McAuley Dec. 11/87

Acid Dip Tests

1. Collar; 66° E 200.0' - 66°E 400.0' - 69°E 600.0' - -69°E

Purpose To evaluate South Pod Lens

Conclusions Significant Intersection: 379 to 381 - 2 ft @ 0.040 oz gold/ton

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

Hole No: 1316-24

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	3.0	CASING					
3.0	78.5	MAFIC VOLCANICS BASALT					
		Dark blackish-green aphanitic mafic volcanic sequence (andesite); texture of sequence is spotted by faint podular blebs of black chlorite visible on core surface; freshly fractured surfaces reveal anhedral - subhedral melanocratic crystals; at 46.7' texture of core surface is frequented by black truncated capillaries of acicular hornblende; mafic sequence is weakly moderately altered by grey-white carbonaceous strings (at times epidote enriched), threads veinlets and sections of greyish-pale green silicified andesite; also noted are grey-white brecciated phenocrysts of calcite.	56759	16.25	18.25	2.0'	12
			56760	18.25	20.25	2.0'	5
			56761	71.0	73.0	2.0'	32
			56762	76.0	78.5	2.5'	52
		4.6' - 5.25'; Brownish-grey silicified mafic sections, epidote observable along fractures and fracture surfaces.					
		24.7' - 25.5'; Brownish-grey band of silicified mafics.					
		Sulphide mineralization; Sulphides are scarce, but occur as lenticular pyritic pods and disseminated blebs.					
		25.5' - 78.5'; Basalts are now fine grain, massive in character. Volcanics are dark green to black in colour. Alteration consists of moderate to weak pervasive chloritization with very weak spotty calcite and fine calcite veinlets. Minor hematite alteration is noted.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd	Rock in sections is coarser grained with lath-shaped hornblende crystals giving the rock a diabasic texture. Pyrite mineralization is scarce, with the occasional brassy pyrite bleb noted.					
78.5	97.0	FELDSPAR PORPHYRY	78.5' - 88.5'; Porphyry in this section only contains relic porphyritic textures. Rock is light green to grey green colour. Alteration of zone is intense with strong to very strong pervasive calcite. Calcite veinlets from hairline to 1/2" in width. Veinlets form 1-3% of rock. Chloritization seems to be confined to small hairline slips running at random orientations to the core axis. Silicification is noted as small irregular milky white veinlets which run from 60° to 90° T.C.A. Veinlets also show strong calcite alteration. Small blebs and rounded fragments of silicified porphyry are also noted. Well developed brecciation is noted along the large quartz-calcite veinlets, with angular fragments forming 20% of vein material. The last foot of the altered porphyry, from 87.5 - 88.5 show the appearance of numerous small epidote veinlets along fractures.	56763 56764 56765 56766	78.5 81.0 83.5 86.0	81.0 83.5 86.0 88.5	2.5' 2.5' 2.5' 2.5'	7 8 20 17
			88.5' - 97.0; Rock now is fine grain, weakly foliated. Rock contains 10% white to pinkish subhedral plagioclase phenocrysts. Plagioclase phenocrysts are up to 1/4" in width. Matrix has a moderate pervasive chloritization, with chlorite being aligned along foliation planes @ 45-50° T.C.A. Weak pervasive calcite alteration is noted, with hairline calcite veinlets forming 2% of rock. Veinlets commonly align themselves subparallel to foliation planes.	56767 56768 56769 56770	88.5 90.5 92.5 95.0	90.5 92.5 95.0 97.0	2.0' 2.0' 2.5' 2.0'	10 45 45 45

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
97.0	330.6	MAFIC VOLCANIC (BASALTS)	<p>97.0 - 98.0; Basalts are fine grain, strongly foliated, ranging in colour from light green to grey. the zone shows strong intense pervasive calcite alteration, with fine wispy calcite veinlets and large pinkish white calcite blebs common. Small chlorite blebs give the rock a porphyroblastic texture.</p> <p>98.0 - 150.0; Basalts have now got only weakly developed foliation but remain fine grained. Rocks are now moderately chloritized with very weak fracture controlled calcite veinlets. Veinlets are 2 mm in width. Colour variations due to alterations commonly show very sharp contacts from light green to black.</p> <p>Rock contains from TR to 5% local accumulations of pyrite. Pyrite is brassy yellow to brown in colour occurring as fine fracture fillings and blebs 1/2" or less.</p> <p>Small amounts of quartz are noted as milky white blebs and small irregular quartz stringers.</p> <p>Weak porphyritic textures are noted in a zone from 121.0 - 126.0'. Zone contains 1% anhedral, greenish white plagioclase phenocrysts.</p> <p>150.0' - 155.5'; Basalts now show patchy sections of moderate to intense pervasive silicification. Rock now is moderately foliated. Silicification is marked by an abrupt colour change. Intense silicification has light grey to yellow colour, with basalts approaching dark green to black as silicification decreases.</p>	56771	97.0	98.0	1.0'	6
				56772	98.0	101.0	3.0'	<5
				56773	101.0	103.5	2.5'	6
				56774	103.5	106.0	2.5'	<5
				56775	106.0	109.0	3.0'	8
				56776	109.0	112.0	3.0'	<5
				56777	112.0	115.0	3.0'	6
				56778	115.0	117.0	2.0'	5
				56779	117.0	119.0	2.0'	<5
				56780	148.0	150.0	2.0'	10

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
	cont'd						
	151.0 - 154.5;	has intense silicification with weak fracture controlled calcite veining with very weak fracture controlled chlorite. Trace pyrite is noted.	56781	150.0	153.0	3.0'	7
			56782	153.0	155.5	2.5'	7
			56783	155.5	157.5	2.0'	14
			56784	157.5	159.5	2.0'	6
	155.5' - 162.5';	Basalts are now only weakly silicified being fine grain, dark green to grayish green in colour. Zone contains abundant small calcite veinlets. Veinlets are up to 1/2" in width and form 10-15% of zone. Section from 155.5 - 156.5 contains numerous foliation controlled pyrite layers. Pyrite is in fine disseminated grains and blebs, brassy yellow in colour. Small section contains 5-10% pyrite, but over entire zone only reaches 1% of rock.	56785	159.5	162.5	3.0'	8
			56786	168.0	170.0	2.0'	8
	162.5' - 183.0';	Basalts show more typical alteration characterized by an increased chlorite alteration. Rock remains fine grained green in colour. Small blebs and a weak spotty calcite alteration give the rock a sugary granular texture. Small calcite veinlets are 1/4" in width and run @ 45°-75° T.C.A. Weak brecciation of the basalts is noted along larger calcite veinlets. A zone of strong foliation controlled calcite stringers and minor silicification is found 183.0 - 183.6. Rock is yellow green in colour and appears as a stockwork of fine calcite veinlets. Zone shows blebby silicification with 1% finely disseminated euhedral pyrite. Minor epidote is also present. Zone runs @ 45° T.C.A.					
	183.6' - 203.5';	Basalts are the same as in interval 162.5 - 183.0. Zone shows moderate to weak calcite alteration. Pyrite now more abundant appears as fine pyritic stringers up to 1/4" in width and as euhedral, sparsely disseminated grains.	56787	183.0	184.0	1.0'	9
			56788	184.0	186.0	2.0'	11
			56789	186.0	189.0	3.0'	11
			56790	189.0	192.0	3.0'	12

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
		203.5' - 204.8'; Missing Core.	56791	204.8	207.0	2.2'	<5
		204.8' - 213.0'; Basalts again show moderate per-	56792	207.0	210.0	3.0'	9
		vasive silica alteration. Zone also con-	56793	210.0	213.0	3.0'	11
		tains 1% very finely disseminated pyrite.	56794	213.0	216.0	3.0'	<5
		Large epidote veinlet is noted @ 209.3',	56795	229.5	232.0	2.5'	<5
		with concentrations of pyrite along its	56796	232.0	234.5	2.5'	<5
		margins.	56797	234.5	237.0	2.5'	<5
		216.5'; Basalts host a 1" calcite veinlet running	56798	237.0	239.5	2.5'	61
		@ 10° T.C.A. The veinlet is amber in co-	56799	239.5	242.0	2.5'	39
		lour with a light green core. The entire	56800	242.0	244.5	2.5'	13
		veinlet reacts strongly to HCl. Small,	56801	244.5	247.0	2.5'	21
		subangular black basalt fragments are pre-	56802	247.0	249.5	2.5'	18
		sent. Fragments show strong chloritization.	56803	249.5	251.5	2.0'	7
		247.0'; Basalts show good brecciation of mafic vol-	56804	261.0	262.0	1.0'	11
		canics by small calcite blebs and stringers.	56805	300.5	301.5	1.0'	13
		Breccia texture is poorly developed. Trace	56806	301.5	304.5	3.0'	8
		pyrite is noted.	56807	304.5	307.0	2.5'	8
		267.0' - 273.0'; Basalts show very spotty section					
		of strong magnetism.					
		275.0'; Small zone of basalt calcite brecciation.					
		Breccia fragments are up to 1.5" in length					
		and form 15-20% of vein material. Frag-					
		ments show weak calcite and moderate chlo-					
		rite alteration. Calcite vein material is					
		milky white in colour.					
		300.5' - 301.5'; Basalts are now well foliated @					
		60° T.C.A., with moderately well developed					
		brecciation. Fragments form 2% of zone,					
		which is cut by a series of small milky					
		white orange calcite stringers. Basalts					
		show good carbonate alteration and are fine					
		grained greenish grey in colour.					
		Zone also seems to exhibit moderate to					
		strong pervasive silicification. Trace					
		amounts of fine pyrite are present.					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
		307.0' - 310.0'; Basalts exhibit moderate strong foliation controlled calcite and chlorite alteration. Foliation runs @ 60° T.C.A. No pyrite mineralization is noted.	56808	307.0	308.0	1.0'	8
			56809	308.0	310.0	2.0'	11
			56810	317.0	320.0	3.0'	6
			56811	320.0	323.0	3.0'	7
		320.0 - 326.0; Section contains moderate to strong carbonatized fine grain grey basalts. Rock contains both moderate pervasive calcite and strong fracture controlled calcite veinlets. Chloritization is moderate to weak and occurs as small chlorite blebs and irregular slips.	56812	323.0	326.0	3.0'	15
			56813	326.0	328.3	2.3'	12
			56814	328.3	330.6	2.3'	8
		Basalts contain from 1-2% blebby pyrite and fine pyritic stringers.					
		326.0 - 330.6; Basalts show moderate pervasive chloritization with weak fracture controlled calcite veinlets. Basalts contain 1-3% bleb, pyrite. Pyrite is brassy yellow in colour.					
330.6	367.0	FELDSPAR PORPHYRY (ALTERATION)					
		330.6' - 349.0'; Rock now is weak moderately foliated, fine grain to aphanitic porphyry. Porphyritic texture now only occurs as spotty relic zones. The remaining areas have no phenocrysts.	56815	330.6	333.0	2.4'	12
			56816	333.0	336.0	3.0'	16
			56817	336.0	339.0	3.0'	9
			56818	339.0	341.0	2.0'	11
			56819	341.0	344.0	3.0'	6
		Rock is buff coloured to brownish grey. Alteration consists of weak fracture and foliation controlled chlorite. Chlorite is best developed in sheared sections rich in pyrite. The whole zone has a moderate to strong pervasive calcite alteration with large blebs (up to 2") and small veinlets forming an additional 5-10%.	56820	344.0	347.0	3.0'	12
		Silicification is variable with spots of no silicification to zones of strong silicification giving the rock a cherty appearance. Siliceous zone commonly show an abundance of blebby pyrite and fracture controlled pyrite veinlets.	56821	347.0	349.0	2.0'	< 5

From (Ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
		Pyrite is brassy yellow in colour with blebs formed of small euhedral individual grains. Pyrite content may reach 10% locally but on average is 1%. Mineralized zones: 332.0 - 333.0' 338.3 - 341.0'	56822	349.0	351.0	2.0'	<5
			56823	351.0	353.0	2.0'	<5
			56824	353.0	356.0	3.0'	<5
			56825	356.0	359.0	3.0'	<5
			56826	359.0	362.0	3.0'	<5
		349.0' - 362.0'; Porphyry now exhibits a better developed porphyritic texture. Porphyry is still strongly altered with the rock containing 25%, fine hematized feldspar phenocrysts. Phenocrysts are all 5 mm in size. Matrix shows moderate pervasive hematization. Intense calcite alteration is noted, with only weak calcite veining. Chlorite alteration is weak and confined to small fracture fillings running @ 70-90° T.C.A. Small section from 356.0 - 359.0 exhibits only spotty hematite alteration. A large pinkish white calcite veinlet running @ 65° T.C.A. Veinlet is 1-2" in width showing strong chloritization along vein contacts. No sulphide mineralization is noted.					
		362.0 - 367.0; Porphyry shows very weak relic texture, remaining strongly carbonatized with abundant calcite throughout and weak calcite stringers.	56827	362.0	364.5	2.5'	<5
			56828	364.5	367.0	2.5'	<5
		366.7 - 367.0; Pink-white to violet calcite vein. Vein runs @ 50° T.C.A. and is 4" in width. Vein also contains 3% blebby pyrite.					
367.0	381.0	BASALTS	56829	367.0	370.0	3.0'	<5
			56830	370.0	372.0	2.0'	24
			56831	372.0	374.0	2.0'	140

From (Ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
		(MINERALIZED ZONE)	56832	374.0	376.5	2.5'	62
			56833	376.5	379.0	2.5'	59
			56834	379.0	381.0	2.0'	1368
381.0	524.5	DIABASE	56835	381.0	384.0	3.0'	147
			56836	384.0	387.0	3.0'	229
			56837	390.0	393.0	3.0'	< 5
			56838	417.0	420.0	3.0'	62
			56839	420.0	422.0	2.0'	57
			56840	422.0	425.0	3.0'	23

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd	417.0' - 425.5'; Diabase shows moderate pervasive calcite alteration and weak, very weak pervasive chloritization. Diabase is now green-grey, very fine grain and is not magnetic in this section, no pyrite is noted.					
			497.0 - 524.5; diabase shows weak calcite alteration, with moderate pervasive chloritization. Small irregular calcite veinlets form 2% of zone. Small fragments of chlorite are noted throughout zone. Diabase shows weak foliation with a fining of grain size, no longer being diabasic in texture. Weak breccia along large calcite veinlets is noted. Trace amounts of blebby disseminated pyrite are encountered. Weak hematite alteration is noted along calcite blebs and veins.	56841	427.0	429.0	2.0'	8
				56842	437.0	439.0	2.0'	39
				56843	447.0	449.0	2.0'	<5
				56844	457.0	459.0	2.0'	7
				56845	467.0	469.0	2.0'	6
				56846	477.0	479.0	2.0'	<5
				56847	487.0	489.0	2.0'	6
				56848	497.0	499.0	2.0'	20
				56849	499.0	502.0	3.0'	19
				56850	502.0	504.0	2.0'	18
				56851	505.0	507.0	2.0'	15
				56852	515.0	517.0	2.0'	7
524.5	538.4	FELDSPAR PORPHYRY	Feldspar porphyry consists of massive to very weakly foliated rock, containing 15% subhedral, greenish white plagioclase phenocrysts. Phenocrysts are up to 1/4" in width, and are supported by a fine matrix of feldspar, mafic minerals with chlorite alteration. Spotty calcite alteration is noted, but is very minor.	56853	524.5	527.5	3.0'	8
				56854	527.5	530.5	3.0'	7
				56855	530.5	533.0	2.5'	11
				56856	533.0	536.0	3.0'	17
				56857	536.0	538.4	2.4'	25
			534.0 - 536.0; Porphyry shows strong alteration, with moderate fine fracture controlled calcite veinlets running @ 60-80° T.C.A. The porphyry shows a strong pervasive hematization of both phenocrysts and matrix. Trace amounts of fine pyrite are found through porphyry. Contact (up hole) runs @ 80° T.C.A. Contact (down hole) runs @ 70° T.C.A.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)	
538.4	558.0	DIABASE	Same as interval 497.0 - 524.5'.	56858	538.4	542.0	3.6'	20	
558.0	575.0	FELDSPAR PORPHYRY	Porphyry is massive with 5% anhedral plagioclase phenocrysts. Rock only shows very weak fracture controlled calcite veinlets and minor chlorite.	56859	572.0	575.0	3.0'	9	
575.0	600.0	BASALTS? (TUFACEOUS- MINERA- LIZED)	575.0 - 576.0; Rock is well foliated fine grained altered basalt? Rock is black to bluish grey in colour and exhibits moderate to strong pervasive silicification. Very weak spotty calcite alteration is found. Rock shows very strong lamination texture. Zones of graphite are noted between silicified volcanics and irregular layers of brassy pyrite. Zone contains 10-15% pyrite.	56860 56861 56862 56863 56864 56865 56866 56867 56868	575.0 576.0 579.0 582.0 585.0 588.0 591.0 594.0 597.0	576.0 579.0 582.0 585.0 588.0 591.0 594.0 597.0 600.0	1.0' 3.0' 3.0' 3.0' 3.0' 3.0' 3.0' 3.0' 3.0'	33 75 41 20 13 22 31 28 19	
		(GRAPHITIC)	576.0 - 585.0; Rock has now been reduced entirely to graphite, with foliation controlled pyrite forming 3-5% of zone. Fractures often contain native sulphur and bluish (earthy) mineral (brucite)?						
			585.0 - 600.0; Rock now shows good strataform sulphide section and layers of cherty looking siliceous basalt? Bands run @ 70° T.C.A. Zones of strong hematite form checker board patterns with less hematized siliceous rock along fine fractures. Calcite rich layers are beige in colour. Sulphide mineralization veins from trace to 5% locally and consists of strataform layers up to 1" wide.						

E. O. H.

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hole No: 1316-25

Property: Tyranite	NTS:	Township: Tyrrell
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG5805	Coordinates: L17+00S, 4+50W
Azimuth: 090°	Dip: -50°E	Length: 500'
Logged By: D. Pilkey	Casing: 10.7'	Elevation:
Date Started: October 20, 1987	Date Completed: October 24, 1987	Date Logged: October 29, 1987
Core Size: BQ	Core Location: Tyranite	Samples Shipped:
Drill Company: Bill Link	Overburden: 9'	Checked: J. McAuley Dec. 11/87

Acid Dip Tests

1. Collar -50°E

2. 250.0' - -52°E

3. 500.0' - -53°E

Purpose To evaluate South Pod Lens

Conclusions Significant Intersection: 378.5 to 381.0 - 2.5 ft @ 0.0532 oz gold/ton.

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

Hole No: 1316-25

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	10.7	CASING					
10.7	227.0	MAFIC VOLCANIC (BASALT)					
		Dark black, aphanitic - glassy core is fragmented and pebbly. Pyrite is sporadic and occurs in blebs. Average grain size 2 mm. Hematite stains are noted throughout the core but are infrequent. Threads of calcite are also noted and do occur throughout the core.	56669	33.0	36.0	3.0'	17
			56670	36.0	39.0	3.0'	7
			56671	46.0	49.0	3.0'	23
		26.8 - 36.0; (Calcite alteration zone). Light to dark black, aphanitic with phenocrysts of calcite. Calcite is found in threads throughout the core while also occurring in small to large veinlets. Slight hematite staining is noticed. Alteration from 36' - 37.1' is silicified and contains local calcite threads and veinlets. No pyrite is noted.					
		Dark black, aphanitic - glassy. Pyrite is again sporadic and occurs in infrequent blebs. Grain sizes range from 1 mm - 4 mm. Calcite is present and is found in threads and also occurs in veinlets.					
		65.5' - 67.0'; Zone of basalts showing strong to intense calcite alteration.	56672	64.0	67.0	3.0'	17
		Two large calcite veinlets	56673	67.0	70.0	3.0'	8
		are noted, the first is located @ 65.5' and is 4" in width. The vein runs almost perpendicular to core axis (T.C.A.).	56674	70.0	73.0	3.0'	5
		The second veinlet is 3" wide running @ 75° T.C.A. Calcite veinlet is white in colour. No visible sulphide mineralization is noted. Basalts remain well chloritized.	56675	73.0	76.0	3.0'	5

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
	cont'd	70.0 - 88.0; (Calcite alteration zone).	56676	76.0	79.0	3.0'	<5
		Basalts again are strong to intensely carbona-	56677	79.0	82.0	3.0'	5
		tized with pervasive calcite alteration and	56678	82.0	85.0	3.0'	6
		minor calcite veinlets noted. Basalts are	56679	85.0	88.0	3.0'	<5
		now granular in appearance with colours	56680	123.5	125.0	1.5'	11
		changing from green to grey. Some minor hema-	56681	138.0	141.0	3.0'	10
		tite alteration is present along calcite vein-	56682	141.0	144.0	3.0'	11
		lets but no sulphide mineralization is noted.	56683	144.0	147.0	3.0'	7
		138.0 - 158.7; (Mineralization Zone).	56684	147.0	149.0	2.0'	64
		Sulphide Mineralization from 143.0' - 151.0'	56685	149.0	151.0	2.0'	8
		consists of irregular blebs and fine string-	56686	151.0	154.0	3.0'	9
		ers of brassy yellow pyrite. Basalts remain	56687	154.0	156.0	2.0'	51
		moderately altered with both chloritization	56688	156.0	158.7	2.7'	12
		and minor calcite alteration.	56689	158.7	161.7	3.0'	114
		151.0 - 158.7; sulphide mineralization consists of	56690	161.7	164.7	3.0'	7
		massive pyrrhotite and brassy yellow pyrite	56691	164.7	168.0	3.3'	8
		fracture fillings and blebs. Alteration is	56692	176.0	179.0	3.0'	7
		dominated by chloritization with the pre-	56693	179.0	182.0	3.0'	6
		sence of moderate, localized silicification.	56694	182.0	185.0	3.0'	10
		Small calcite veinlets are infrequently	56695	185.0	188.0	3.0'	7
		noted. Calcite veinlets are white to green	56696	188.0	191.0	3.0'	12
		in colour, and are commonly associated with	56697	191.0	194.0	3.0'	7
		fine pyrite mineralization.	56698	194.0	197.0	3.0'	8
		158.7' - 161.7'; Basalts now show intense, but local	56699	197.0	200.0	3.0'	7
		alteration. Rocks are fine grain in cha-	56700	200.0	203.0	3.0'	7
		racter ranging in colour from black to grey.	56701	203.0	206.0	3.0'	5
		Alteration in this zone is characterized by	56702	206.0	208.0	2.0'	7
		spotty zones of intense silicification.	56703	208.0	211.0	3.0'	8
		Silicified zones are commonly rounded in	56704	211.0	214.0	3.0'	<5
		character. Basalts have small sections	56705	214.0	216.0	2.0'	13
		which exhibit weak porphyritic textures with	56706	216.0	218.0	2.0'	9
		anhedral irregular greenish white plagioclase	56707	218.0	221.0	3.0'	10
		phenocrysts. Phenocrysts are up to 1/4" in	56708	221.0	224.0	3.0'	8
		diameter. Porphyritic zone extends from	56709	224.0	227.0	3.0'	<5
		159.0 - 206.0, with phenocrysts forming					
		1-2% of basalts.					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
			56710	227.0	229.0	2.0'	36
			56711	229.0	232.0	3.0'	<5
			56712	232.0	235.0	3.0'	8
			56713	235.0	238.0	3.0'	<5
			56714	238.0	241.0	3.0'	5
		218.0 - 227.0; Basalts again show very spotty zones of intense silicification. Basalts exhibit strong fracture controlled calcite alteration. Chloritization is difficult to determine due to intensity of silicification. Sulphide mineralization consists of blebby pyrite and minor pyrite stringers. Sulphide mineralization does not exceed 1%.					
227.0	241.0	FELDSPAR PORPHYRY (ALTERED)					
		Porphyry becomes very siliceous and is now light green in colour. Rock is strongly fractured with numerous fracture controlled calcite veinlets. Veinlets are 1 mm in width, small chlorite slips are also noted in this section. Section still contains relict porphyry textures. Phenocrysts form 3-5%, white plagioclase grains. Sulphide mineralization consists mostly of finely disseminated pyrite with local concentrations of individual grains forming section of massive pyrite.					
241.0	246.0	BASALT					
		Same as interval 10.7 - 227.0'. Basalts show moderate pervasive chloritization and calcite alteration. 1-3% blebby pyrite and fine pyritic stringers are noted. Weak brecciation is found in some of the larger calcite veinlets. Zones of increased mineralization are noted from 247.0'. Mineralization is commonly confined to the borders of calcite veinlets. Veinlets form 3-5% of basalts. Sulphide mineralization is found as fine euhedral pyrite cubes. Sulphides form 20% of veinlet, but comprise about 1% of zone overall. Basalts are moderately chloritized, minor epidote alteration. Zone ends @ 272.0'.	56715	241.0	243.5	2.5'	12
			56716	243.5	246.0	2.5'	<5
			56717	246.0	249.0	3.0'	16
			56718	249.0	252.0	3.0'	28
			56719	252.0	255.0	3.0'	8
			56720	255.0	258.0	3.0'	<5
			56721	258.0	261.0	3.0'	8
			56722	261.0	263.0	2.0'	6
			56723	263.0	266.0	3.0'	10
			56724	266.0	269.0	3.0'	10
			56725	269.0	272.0	3.0'	31
			56726	272.0	275.0	3.0'	9
			56727	275.0	278.0	3.0'	6

From (ft)	To (Ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
338.0	370.0	DIABASE	Rock is now medium grain, weakly foliated, grey to greenish grey in colour. Alteration consists of spotty chloritization with small zones of fracture controlled epidote alteration. Epidote stringers commonly show moderate calcite alteration. Diabase is made up of small, stubby hornblende grains, arranged in a moderately well developed diabase texture. Calcite alteration in fine veinlets is noted, with spotty hematization. The rock also has sections of moderate magnetism. Minor amounts of blebby pyrite are noted locally in core.	56747	351.0	353.5	2.5'	<5
				56748	370.0	371.8	1.8'	28
				56749	371.8	373.8	2.0'	7
370.0	371.8	ALTERED ZONE (BASALT)	Rock in this zone is well foliated, fine grain, green to black diabase or basalt? Rock shows moderate foliation controlled chloritization, with weak spotty calcite alteration. Rock does seem to show a moderate pervasive silicification. Zones contain 1-2% blebby and fracture controlled pyrite. Pyrite is spotty with a brassy yellow colour.					
371.8	373.8	DIABASE	Same as interval 338.5 - 370.0, rock is fine grain, very weakly magnetic, with weak chloritization and minor calcite.					
373.8	385.8	ALTERED ZONE (BASALT)	Same as interval 370.8 - 371.8. Rock now shows moderate, foliation controlled chloritization. Chlorite surrounds large blebs and fragments of calcite and strongly carbonatized rock. Rock exhibits moderate, local silicification. Blebby pyrite and minor fracture controlled pyritic stringers are noted. Pyrite is brassy yellow in colour. Foliations run @ 35-50° T.C.A. Sulphide mineralization forms 1-2%, and locally 5% of zone.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd	378.5 - 383.6; (Mineralization Zone). Zone from 378.5 to 383.6 is strongly carbonatized with moderate foliation controlled chlorite. Calcite blebs are common. Sulfide mineralization forms 3-6% and consists of fine pyritic stringers and small blebs. Pyrite is brassy yellow in colour.	56750	373.8	376.0	2.2'	266
				56751	376.0	378.5	2.5'	586
				56752	378.5	381.0	2.5'	1824
				56753	381.0	383.6	2.6'	942
				56754	383.6	385.8	2.2'	112
385.8	445.5	DIABASE	Rock is medium grained, moderate to weakly foliated diabase. Rock is light grey in colour and consists of hornblende grains and plagioclase grains. Hornblende is short and lath shaped, giving the rock a good diabasic texture. Alteration is mostly weak fracture controlled chloritization with weak spotty calcite and minor fracture controlled pyrite. Diabase is moderate to strongly magnetic. Spotty chloritization is seen to give rock a porphyroblastic texture. Diabase contains trace amounts of blebby pyrite. Minor epidote alteration is also noted.					
445.5	500.0	BASALT (ALTERATION ZONE)	Basalts are now very strongly altered, fine grain to aphanitic. Colours vary from light green to greenish grey. Basalts have a well developed foliation. Alteration consists of strong to intense pervasive chloritization. Calcite alteration is moderate on average, with moderate fracture controlled calcite veining as well as weak pervasive calcite alteration. A zone of strong pervasive silicification is noted from 446.5' - 450.0 giving the rock a beige colour and very aphanitic appearance. Fracture contains small chlorite slips which give the rock a strongly chloritized appearance.	56755	446.0	448.5	2.5'	201
				56756	448.5	451.0	2.5'	194
				56757	455.0	457.0	2.0'	19

From To
(ft) (ft)

cont'd

Pyrite is found locally to 2% as fine grained, blebby and small stringers. Basalts are very vuggy in character.

A large white to pink calcite vein is noted @ 481.0'. The vein is about 8" in width, and shows brecciation of the host rock basalts.

Fragments are up to 1/2" in length and show moderate chloritization.

Small quartz-rich veinlets are found locally but are only 1% or less.

E. O. H.

Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
56758	480.0	482.0	2.0'	38

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hole No: 1316-26

Property: Tyrinite	NTS:	Township: Tyrrell
Partner: Tyranax/Gunnar Gold/Mill City	Claim #: GG 5805	Coordinates: L17+00S; 4+50W
Azimuth: 090°	Dip: -70°E	Length: 600.0'
Logged By: D. Pilkey	Casing: 14'	Elevation:
Date Started: October 10, 1987	Date Completed: October 15, 1987	Date Logged: October 18, 1987
Core Size: BQ	Core Location: Tyrinite	Samples Shipped:
Drill Company: Bill Link	Overburden: 12'	Checked: D. Pilkey Jan. 6, 1988

Acid Dip Tests

1. Collar -70°E	200.0'	-70°E	2. 400.0'	-71°E	600.0'	-71°E
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Purpose To evaluate South Pod Lens.

Conclusions No significant intersections.

NORWIN RESOURCES LIMITED
DIAMOND DRILL LOG

Hole No: 1316-26

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	14.0	CASING					
14.0	229.5	BASALT					
		14.0' - 19.7' "ground core"	53817	20.0	22.0	2.0	<5
			53818	27.0	29.0	2.0	<5
			53819	31.0	33.0	2.0	12
			53820	33.0	35.0	2.0	<5
			53821	35.0	39.0	4.0	24
			53822	39.0	43.0	4.0	6
			53824	54.0	56.0	2.0	6

Basalts are fine grained, weakly foliated and are generally gray to dark green in colour. Alteration is moderate throughout zone, with the basalts showing a weak pervasive chloritization. Calcite alteration is present but generally is spotty and weak. Local zones of moderate pervasive calcite are noted. Minor hairline calcite veinlets are noted but veinlets are <2 mm and form <1% rock.

Weak to very weak epidote and chlorite slips are found, giving the basalts a brecciated texture. Rock generally has a massive very fine texture except between 22.0' - 31.0' where basalts take on a poorly developed, diabasic texture.

Two zones of intense calcite alteration occur at footages 28.2' and 31.0'. The first is a calcite vein at 65 - 70° T.C.A. and 2" in width. The zone contains small chloritic blebs but no visible sulphide.

31.0 - 31.6' is a zone of intense calcite alteration with weak chlorite and silica alteration. Zone runs at 65° T.C.A.

From To
(ft) (ft)

Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
53825	61.0	64.0	3.0	16
53826	64.0	66.0	2.0	22
53827	66.0	68.0	2.0	31
53828	126.0	129.0	3.0	<5
53829	129.0	132.0	3.0	<5
53830	132.0	135.0	3.0	<5
53831	135.0	138.0	3.0	<5
53832	138.0	141.0	3.0	<5
53833	141.0	144.0	3.0	5
53834	144.0	146.0	2.0	<5
53835	146.0	148.3	2.3	<5
53836	148.3	150.3	2.0	<5
53837	150.3	152.3	2.0	<5
53838	152.3	154.5	2.2	<5

cont'd

64.0' - 68.0'; Zone once again shows an increase in calcite alteration as fine random calcite veinlets. Zone contains a large white calcite veinlet at 67.7' running at 80° T.C.A. Zone shows moderate chloritization with trace pyrite.

Sulphide mineralization in the zone is very spotty, consisting of blebby fracture fillings of pyrite with small irregular veinlets also noted. Pyrite abundance on average is 1% but locally may reach 2%. Trace amounts of chalcopyrite are also found.

129.0' - 150.3'; Basalts become slightly coarser grained developing a sugar (granular) texture.

Basalts show weak porphyritic texture in areas with large pinkish feldspar fragments - phenocrysts. Phenocrysts are rounded in character, up to 1/2" in diameter. Pink may be due to hematite alteration.

Rock shows weak spotty and veinlet controlled calcite with weak to very weak chloritization. Minor epidote is also present. Trace amounts of fine blebby pyrite are common.

150.3' - 154.5'; Basalts are now fine grain to aphanatic in character. Rock is light green to gray with a weakly developed foliation. Alteration consists of strong pervasive calcite alteration. Fine chlorite slips give rock a brecciated appearance, with chloritization being weak throughout remainder of the zone. Rock seems to have a weak pervasive silicification.

From To
(ft) (ft)

Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
53839	154.4	157.0	2.5	<5
53840	157.0	160.0	3.0	<5
53841	160.0	163.0	3.0	<5
53842	163.0	166.0	3.0	<5
53843	166.0	168.0	2.0	<5
53844	180.0	182.0	2.0	6
53845	214.0	216.0	2.0	<5
53846	216.0	218.0	2.0	<5
53847	219.0	221.5	2.5	<5
53848	223.5	226.0	2.5	<5
53849	226.0	229.5	2.5	<5

cont'd

Pyrite is found as fine disseminated grains, and as small fracture controlled blebs and stringers. Pyrite is brassy yellow in colour.

176.0' - 223.5'; Basalts show weak alteration, but now contain 2-3%, rounded, light green plagioclase phenocrysts, in a black, weakly chloritized ground mass. Minor amounts of fracture controlled calcite veinlets are present. Pyrite mineralization is the same as throughout zone, with small blebs and thin veinlets. From 219.0' - 221.5' small calcite blebs are found; blebs are 2 in size but for 5% of rock. Blebs are all very round in shape.

229.5 243.2 FELDSPAR
PORPHYRY

Rock consists of massive to weakly foliated feldspar porphyry. Porphyry contains 5% subhedral grayish green feldspar phenocrysts. Phenocrysts are up to $\frac{1}{8}$ " in size in a very fine grain groundmass. Ground mass is made primarily of feldspar, with smaller amounts of chlorite, and/or chloritized hornblendes.

Weakly altered sections of the porphyry show very weak spotty chloritization and weak fracture controlled calcite veinlets. Porphyry contains 1 - 2% finely disseminated pyrite grains and blebs.

236.0' - 243.2'; Is a zone of strongly altered porphyry. Phenocrysts are now <1% in abundance with ground mass of chlorite, feldspar with possible silica. Groundmass now is aphanitic in character.

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
243.2	313.7	ULTRAMAFIC VOLCANICS (BASALT)					
		Dark green black to coal black aphanitic - hyalinitic volcanic sequence (basalt); mafic unit is massive for the most part with no sign of crystals development. Deferentially eroded stringer and veinlet networks occur throughout sequence (probably chloritic); mafic unit as a whole is moderately altered with white calcitic threads and blebs (1-5mm in diameter). Siliceous alteration is not continuous but restricted to patches or bands and is accompanied by carbonatized epidote and calcite.	53850	243.2	247.2	4.0	<5
			53851	247.2	249.7	2.5	<5
			53852	249.7	252.2	2.5	10
			53853	252.2	255.2	2.0	<5
			53854	255.2	258.2	3.0	<5
			53855	258.2	260.7	2.5	<5
			53856	260.7	262.7	2.0	<5
			53857	262.7	265.2	2.5	<5
			53858	265.2	268.2	3.0	<5
			53859	268.2	271.2	3.0	<5
			53860	271.2	273.7	2.5	<5
		Sulphide Mineralization: Basaltic sequence is mineralized throughout with pyritic veinlets, threads and blebs to disseminated specks.	53861	278.6	280.6	2.0	<5
			53862	282.2	283.2	1.0	<5
			53863	300.3	302.8	2.5	<5
			53864	305.2	307.2	2.0	<5
		247.9' - 250.3'; Highly silicified section of mafic sequence characterized by bands of gray amorphous quartz and highly silicified host rock. Olive green epidote vein at 45° T.C.A. containing brecciated quartz fragments with minor calcite phenocrysts (<10%) transects siliceous band; carbonatized alteration occurs as a 1/4" veinlets of gray-white and purple calcite running along core axis to a white spherical lens of white quartz (approximately 1" in diameter) pyritic sulphide blebs (up to 1/4" in diameter) occur in mafic hostrock.					
		294.7' - 1" - 2" diameter lenticular patch of calcareous epidote.					
		307.7'; Veinous network of gray-white calcite at approximately 130° T.C.A.					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		ULTRAMAFIC VOLCANICS (BASALTS)					
		308.0'; Lens (1" - 2" in diameter) of gray-white calcite with brecciated inclusions of black chlorite and green-black mafic host rock.	35865	317.5	318.5	1.0	9
		312.2'; Gray white calcite vein 0 - 1' wide at 45° T.C.A. with brecciated inclusion of host rock.	35866	334.1	336.1	2.0	<5
		312.4'; 0.25 band of gray-white calcite interspersed in mafic host rock giving it a brecciated appearance.					
313.7	360.5	PORPHYRITIC DIORITE					
		Gray-green to dark gray medium - coarse grained phaneritic - porphyritic diorite; porphyritic texture due to leucocratic phenocrysts (probably plagioclase feldspar); sequence appears reddish in colour at times (perhaps due to hematite staining). Diorite is transected by veinlets of calcite and epidote.					
		Mineralization: Blebs of chalcopyrite (up to 3mm in diameter) appear in a veinlet of gray-white carbonate (5% by volume).					
		324.5; Well developed euhedral - subhedral crystals (miarolitic?) of clear white to smoky gray quartz, glossy transparent calcite in dioritic ground mass. Crystals appear on fracture surfaces of core.					
		342.5 - 344.1; Brownish gray sub-hyalinic felsic volcanic sequence (rhyolite). Unit is transected by gray-white carbonaceous strings and veinlets.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd	344.1' - 345.35'; Black-gray, aphanitic mafic volcanic section (basalt). Sequence contains sulfide mineralization (py \approx 1-2%) in pyritic strings transecting across core axis.	53867	360.0	361.5	1.5	8
				53868	361.5	362.5	1.0	<5
				53869	370.25	372.25	2.0	5
				53870	373.2	274.2	1.0	17
				53871	388.5	390.5	2.0	26
360.5	364.0	ALTERED ULTRAMAFIC VOLCANICS (BASALT)	Highly silicified, carbonatized ultra mafic unit; textures vary depending on degree of alteration. Highly altered sections present a "marbled" or swirled appearance and are transected by carbonate strings and threads, less silicified - carbonatized sections are black aphanitic with an almost glassy appearance on freshly broken surfaces.	53872	406.3	407.3	1.0	<5
			Mineralization: Profuse pyritic mineralization (10-15% in a 1' section) occurs as networks of veinlets and stringers, and blebs (2-3mm in dia.) in the sparsely altered ultramafic sequence.	53873	409.2	410.2	1.0	<5
364.0	370.7	PORPHYRITIC DIORITE	Dark gray - light black fine to medium grained phaneritic-porphyritic diorite; sequence contains leucocratic phenocrysts (up to 2mm in dia.), probably plagioclase feldspar. Crystals are euhedral to subhedral in shape. Porphyritic texture of diorite disappears at approximately 367.0'.					
370.7	422.1	MAFIC VOLCANICS (ANDESITE)	Dark green to greenish gray phaneritic mafic volcanic sequence (andesite). Mafic unit is weakly silicified, moderately carbonatized by calcitic veinlets, strings and threads transecting core axis. Epidote enrichment of carbonaceous veinlets occurs sporadically throughout unit.					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
		Mineralization:	53874	431.0	432.0	1.0	18
		Sulphides occur through sequence	53901	436.1	438.1	2.0	10
		intermittently as condensed pyritic tributaries	53902	441.0	443.0	2.0	17
		in carbonaceous veinlets. Otherwise sulphides occur	53903	453.2	455.2	2.0	27
		only as disseminated specks or blebs if at all.	53904	458.3	459.3	1.0	49
422.1	431.4	DIABASE	53905	463.9	465.9	2.0	55
		Dark green-black fine to medium grained phaneritic	53906	469.0	471.0	2.0	24
		mafic intrusive (diabase). Almost exclusively	53907	471.8	473.8	2.0	17
		composed of melanocratic minerals. Crystals form -					
		subhedral to anhedral; sequence invaded by numerous					
		greenish-gray calcitic-epidote veinlets transecting					
		across core axis at approximately 110-120°.					
431.4	462.8	ALTERED MAFIC VOLCANICS (ANDESITE)					
		Gray-green to light gray highly silicified - moderately					
		carbonatized mafic volcanic sequence (andesite). Unit					
		is aphanitic with anhedral crystals. Areas of extreme					
		alteration are light gray in colour with sub-hyaline					
		anhedral crystals. There is also a "marbled" or					
		"swirled" texture where the silicified - carbonatized					
		rock integrates with the mafic host unit. In some					
		sections silicified rock appears as brecciations (up					
		to 5mm in diameter) in the mafic volcanic matrix. As					
		a whole the unit is moderately carbonatized with white					
		calcite veinlets and strings as well as purple-white					
		calcareous lenticular pods.					
		Sulphide Mineralization: Consists of pyritic blebs					
		ranging from disseminated specks to condensed blebs					
		1/2" - 3/4" in diameter, as well as pyritic strings,					
		pyritic sulphides occur intermittently through					
		sequence.					
462.8	465.4	ALTERED DIORITE					
		Dark grayish-green medium grained diorite. Subhedral					
		to anhedral crystals. Sequence intruded by numerous					
		calcitic strings, veinlets and black chloritic blebs.					
		Sulphide Mineralization: Sequence contains lenticular					
		Pods of condensed pyritic blebs (largest pod is					
		approximately 1 1/2" long by 1/2" wide).					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
465.4	522.2	MAFIC VOLCANICS (ANDESITES) ALTERED	Dark gray-greenish aphanitic variable textured mafic volcanic sequence (andesite). Texture of rock various with degree carbonatized, chloritic and siliceous alteration;	53908	475.6	477.6	2.0	33
				53909	482.8	484.8	2.0	23
				53910	487.8	489.8	2.0	25
				53911	492.2	494.2	2.0	41
				53912	494.2	495.2	1.0	62
			466' - 478.75'; Heavily carbonatized in calcitic strings, threads, blebs interspersed with host rock creating a "marbled" or "swirled" type of texture.	53913	507.4	509.4	2.0	22
			478.75' - 483.7'; Highly silicified mafic volcanics paler green in colour, texture varies between a uniform silicic, almost glassy texture to a brecciated texture of angular siliceous fragments in a mafic volcanic matrix. Lenticular blebs and freckles of black chlorite are also prominent.					
			483.7' - 510'; A more uniformly, almost massive mafic volcanic section, dark gray-green in colour, weakly to moderately altered.					
			Sulphide Mineralization: Sulphides occur intermittently through mafic sequence as condensed pyritic blebs and pyritic stringers.					
			510.0' - 522.2'; Profusely carbonatized mafic volcanics. Network of calcitic stringers, veinlets as well as calcitic phenocrysts.					
522.2	600.0	DIABASE	Dark blackish-green medium grained diabase, anhedral to subhedral crystals structure. Sequence is freckled or spotted with black chloritic blebs and olive-green epidote blebs; alteration is weak and consists of infrequent threads, strings of calcite and carbonaceous epidote.					
			563.8' - 566.0'; 1/4" veinlet of reddish-orange hematized diabase @ 10° T.C.A. running along northern perimeter of veinlet is 2 1/8" wide veinlet of gray-white calcite.					
600.0		E.O.H.						

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

Hole No: 1316-33

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	23.0	BASALT MONZONITE BRECCIA (ALTERATION ZONE)	56522	0	3.0	3.0'	69
		Rock consists of an intensely altered monzonite matrix, supporting subrounded, altered basalt fragments.	56523	3.0	6.0	3.0'	485
		Fragments are fine grain, black light green in colour, exhibiting strong to intense alteration. Fragment sizes vary from 1" to 5 feet in drill hole length. Percentage of fragments is difficult to determine due to blocky nature of core.	56524	6.0	9.0	3.0'	20
		Alteration of fragments is marked by moderate pervasive chloritization and intense pervasive carbonatization. Carbonate consists of medium fine grain, white to pinkish red calcite. Calcite stringers and veinlets from hairline fracture fillings to 1/2" calcite veins form 2-5% of rock.	56525	9.0	12.0	3.0'	78
		Monzonite alteration consists of intense pervasive calcite alteration in a medium fine grain, weakly foliated intrusive rock. Monzonites contain small irregular calcite stringers. Stringers often have subparallel sections of black chlorite along veinlet margins. Weak hematization is noted along calcite veins. Minor epidote is also present.	56526	12.0	15.0	3.0'	56
		Large basalt fragment occurs from 20.0 - 23.0'.	56527	15.0	18.0	3.0'	80
		Sulphide mineralization is present in the form of fine-medium grain, euhedral disseminated pyrite cubes. Sulphides locally reach 1-2% but on average are 1%.	56528	18.0	21.0	3.0'	8
		Sections of strong goethite alteration are noted in the blocky section of core. Core is very blocky from 0 - 13.0'.	56529	21.0	23.0	2.0'	58

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd	Spotty zones of intense pervasive hematite alteration are found. 1-2% local accumulation of cubic pyrite is noted, but on average sulphide mineralization is 1%.					
76.5	100.0	MONZONITE	Same as interval 0 - 23.0, calcite alteration	56551	76.5	79.0	2.5'	189
		BASALT	slightly less intense, except in basalt fragments.	56552	79.0	82.0	3.0'	54
		BRECCIA	Spotty hematization in monzonite. Small calcite veinlets still common, forming 2-3% of rock.	56553	82.0	85.0	3.0'	9
			Trace 1% localized pyrite noted. Pyrite brassy and euhedral in character.	56554	85.0	88.0	3.0'	6
			Two small (1") quartz veins seen. Vein milky white, weakly calcite rich, trace pyrite.	56555	88.0	91.0	3.0'	168
				56556	91.0	94.0	3.0'	179
				56557	94.0	97.0	3.0'	7
				56558	97.0	100.0	3.0'	7

E. O. H.

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hole No: 1316-34

Property: Tyranite	NTS:	Township: Knight
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG 6649	Coordinates: L12+00N; 50+50W
Azimuth: 090°	Dip: -45°E	Length: 100.0'
Logged By: D. Pilkey	Casing: 0 - 2.0'	Elevation:
Date Started: October 23, 1987	Date Completed: October 24, 1987	Date Logged: October 25, 1987
Core Size: BQ	Core Location:	Samples Shipped:
Drill Company: Bill Link	Overburden:	Checked: D. Prior Jan. 6, 1988

Acid Dip Tests

1. None taken

2.

Purpose Shallow sample hole to test Duggan Zone.

Conclusions Significant Intersections: 38.5 to 52 - 13.5 ft @ 0.071 oz gold/ton
including
38.5 to 43.5 - 5 ft @ 0.104 oz gold/ton

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

Hole No: 1316-34

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	32.0	BASALT - MONZONITE BRECCIA (ALTERATION ZONE)	56601	0	3.0	3.0'	9
		Rock consist primarily of fine grain, greenish grey basalt fragments, forming about 65% of the breccia from 0 - 31.0', then the rock tends to be more mon- zonitic, with basalt fragments being 10-15% of zone. 6.0' - 32.0'; (Mineralization).	56602	3.0	6.0	3.0'	<5
		Fragments are subangular blocks, up to 1 foot in core length. Basalt fragments are usually very sugary in appearance, and exhibit a weak to spotty calcite alteration. Fine, hairline veinlets of white and pink calcite are also noted, but form 2% of rock chemistry.	56603	6.0	9.0	3.0'	6
		Zone also exhibits local areas of intense hematization. Hematite is rusty red in colour. Silicification occurs as small milky white veinlets and irregular blebs. Veinlets range in size from 1/8" - 1" in size. Veinlets also show weak calcite alteration.	56604	9.0	12.0	3.0'	580
		Matrix consists of small irregular altered monzonite fingers and blebs up to 32.0, the blebs are fairly massive and weakly altered. Monzonite contains weak chloritization, and spotty zones of calcite alteration and vein- ing which may be strong in some instances. Monzonites are comprised mostly of pinkish white plagioclase (possible weak hematization) with 10% hornblende and alkali feldspar. Amounts of k-spar are difficult to determine due to staining of monzonite.	56605	12.0	15.0	3.0'	197
			56606	15.0	18.0	3.0'	22
			56607	18.0	21.0	3.0'	208
			56608	21.0	24.0	3.0'	23
			56609	24.0	27.0	3.0'	30
			56610	27.0	30.0	3.0'	291
			56611	30.0	33.0	3.0'	154

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)	oz/
32.0	72.0	MONZONITE	Beyond 32.0', monzonite shows intense alteration,	56612	33.0	36.0	3.0'	237	
		MINERALI-	and shows very little evidence of primary structures.	56613	36.0	38.5	2.5'	394	
		ZATION	Monzonites are now fine grain, exhibiting strong	56614	38.5	41.0	2.5'	4368	0.12
		32.0 - 52.0	intense pervasive calcite alteration. Calcite is	56615	41.0	43.5	2.5'	2828	0.0
		68.5 - 72.0	also common as pinkish white fracture controlled	56616	43.5	46.0	2.5'	1496	0.04
			veinlets. Small hematite zones along fractures	56617	46.0	48.5	2.5'	1682	0.04
			are also noted. Chlorite is found as thin slips	56618	48.5	52.0	3.5'	1830	0.0
			and irregular ribbons.						
			Sulphide mineralization consists of trace 3%, fine						
			disseminated pyrite. Pyrite is brassy yellow in						
			colour. Local zones contain thin layers of the						
			euhedral pyrite. Trace chalcopryrite is also noted.						
			19.5' - 21.0'; Thin milky white quartz vein runs						
			@ 45-70° T.C.A. Attitude of veinlet is						
			very irregular. Vein shows moderate hema-						
			tite with 1-3% fine pyrite.						
			39.0' - 40.5'; Second quartz-calcite veinlet runs						
			@ 5° T.C.A. Veinlet contains 1-2% pyrite.						
			Some carbonatized basalt fragments remain.						
			Basalts show intense calcite alteration.						
			52.0' - 68.5'; Monzonites are now very dark in						
			colour, resembling basalts, except for re-						
			lic monzonite textures still present. Rock						
			is reddish grey in colour and exhibiting						
			moderate foliation controlled chloritization.						
			Calcite alteration is strong - intense, in						
			the form of calcite veinlets, up to 1" in						
			width, as well as pervasive calcite being						
			noted. Sections of crimson, strongly hema-						
			tized are also found throughout core.						
			Trace amounts of fine, euhedral pyrite are						
			noted, locally increasing to 1%. Zone may						
			represent a section of abundant basaltic						
			fragments in the monzonite unit.						

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
		68.5' - 72.0'; Monzonites are now becoming more basaltic fragment rich, with large fragments up to 1-2' in core length. Fragments show moderate chloritization with strong pervasive calcite alteration. Monzonites are still medium grained, varying in colour from grey to orange. Alteration consists of strong to moderate calcite alteration. Hematization is spotty ranging from very weak to strong. Strongest hematite alteration is located in zones of pyrite mineralization. Silicification is present in the form of small milky white quartz veinlets, up to 3" in width. Veinlets also show weak spotty calcite and mineralization.	56619	52.0	54.0	2.0'	10
			56620	54.0	56.0	2.0'	28
			56621	56.0	58.0	2.0'	110
			56622	58.0	60.0	2.0'	14
			56623	60.0	63.0	3.0'	12
			56624	63.0	66.0	3.0'	88
			56625	66.0	69.0	3.0'	243
		69.0 - 72.0; Contains the greatest number of quartz veinlets. Veinlets form 25-30% of this section. Veinlets are barren, but smaller veinlets may contain 1-2% euhedral pyrite cubes.					
72.0	100.0	BASALT (ALTERATION ZONE) Basalts are fine grained, grey to black in colour, with a fairly massive to very weakly foliated appearance. Zone remain granitized, with numerous small monzonite fingers cutting the basalts. Alteration of the basalts consists of moderate pervasive and foliation controlled chloritization. Calcite alteration is strong, both as pervasive carbonatization and fracture controlled calcite veinlets. Veinlets are random, up to 2" in width, and are white-pink in colour. Brecciation of the basalts is noted in local sections. Weak hematization is found with the calcite veinlets.	56626	69.0	72.0	3.0'	419
			56627	72.0	75.0	3.0'	39
			56628	75.0	78.0	3.0'	181
			56629	78.0	81.0	3.0'	88
			56630	81.0	84.0	3.0'	9
			56631	84.0	87.0	3.0'	85
			56632	87.0	90.0	3.0'	91
			56633	90.0	93.0	3.0'	33
			56634	93.0	96.0	3.0'	81
		56635	96.0	98.0	2.0'	8	
		56636	98.0	100.0	2.0'	16	

From To
(ft) (ft)

Sample From To Width Au
No. (ft) (ft) (ft) (ppb)

cont'd

Local zones of silicification are present, with small 1-2" vuggy quartz veins. Quartz veins also show strong chlorite alteration at contact. Trace amounts of pyrite occur in the basalts as fine euhedral grains.

Monzonite fingers show moderate calcite alteration and spotty hematite. Sulphides in monzonites are fine grain euhedral pyrite, forming up to 2% of rock type.

E. O. H.

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hole No: 1316-35

Property: Tyranite (Duggan)	NTS:	Township: Knight
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG 6649	Coordinates: L12+50N; 50+50W
Azimuth: 090°	Dip: -45°E	Length: 96.7'
Logged By: R. deGagne	Casing: 0 - 2.0'	Elevation:
Date Started: October 24, 1987	Date Completed: October 25, 1987	Date Logged: October 26, 1987
Core Size: BQ	Core Location: Tyranite Mine Site	Samples Shipped:
Drill Company: Bill Link	Overburden:	Checked: D. Pilkey Jan. 8, 1988

Acid Dip Tests

1. None taken

2.

Purpose Shallow sample hole to test Duggan Zone.

Conclusions Significant Intersections:

39.4 to 42.4 - 3 ft @ 0.130 oz gold/ton
48.4 to 60.4 - 12 ft @ 0.135 oz gold/ton
85.9 to 88.9 - 3 ft @ 0.126 oz gold/ton

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hole No: 1316-27

Property: Tyranite	NTS:	Township: Tyrrell
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG5805	Coordinates: L16+00S, 4+50W
Azimuth: 090°	Dip: -50°E	Length: 500.0'
Logged By: D. Pilkey	Casing: 0 - 10.0'	Elevation:
Date Started: November 1, 1987	Date Completed: November 4, 1987	Date Logged: November 13, 1987
Core Size: BQ	Core Location: Tyranite	Samples Shipped:
Drill Company: Bill Link	Overburden: 8.0'	Checked: D. Prior Jan. 6, 1988

Acid Dip Tests

1. Collar -50°E

250.0' -53°E

2. 500.0' - -52°E

Purpose To evaluate South Pod Lens.

Conclusions Significant Intersection: 188 - 190; 2 ft @ 0.0437 oz gold/ton.

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

Hole No: 1316-27

From (ft)	To (ft)	Drill Hole Summary	Sample No.	From (ft)	To (ft)	Width (ft)	Au ppb	oz/t
		Sample #'s 53948 - 53989						
0	10.0	CASING						
10.0	197.0	BASALT						
		(weakly mineralized)						
		-weak chloritization, and weak calcite veinlets; Trace - 1% pyrite.						
		-109.0 - 112.0; intense calcite alteration, weak brecciation along calcite veinlets.						
		-118.0 - 145.0; strong pervasive calcite; trace 2% pyrite (small veinlets and blebs)						
		-140.0 - 141.0; intense silicification, strong calcite alteration.						
		-188.0 - 189.0; strong calcite alteration, 5% fine disseminated pyrite.						
197.0	214.0	FELDSPAR PORPHYRY						
		-strong pervasive calcite alteration, up to 2% pyrite along contact to basalts.						
214.0	265.5	BASALT						
		(strong mineralized)						
		-235.0 - 241.0; moderate, pervasive calcite, chlorite and silicification; 1-2% pyrite.						
		-260.0 - 265.5; intense calcite, weak chlorite; 7-10% fine disseminated pyrite locally noted.						
265.5	298.5	DIORITE MONZONITE						
		-weak veinlet controlled calcite and epidote, very weak chlorite						

From (ft)	To (ft)	Drill Hole Summary	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
298.5	321.5	BASALT					
		-moderate pervasive silicification trace - 2% fine pyrite veinlets and blebs. Minor quartz blebs.					
321.5	360.0	DIABASE					
		321.5 - 329.0; weak calcite veining and spotty hematization, weakly magnetic 1 - 2% blebby pyrite.					
360.0	370.0	BASALT					
		-moderate calcite veining, moderate foliation controlled chlorite; trace pyrite.					
370.0	428.0	DIABASE					
428.0	466.5	BASALT					
		-strong veinlet controlled and pervasive calcite, moderate chlorite alteration; trace pyrite.					
466.5	500.0	FELDSPAR PORPHYRY					
		-veinlet controlled epidote. 490.0 - 500.0; moderate localized, pervasive hematite, veinlet epidote. No visible sulphide.					

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

November 25, 1987

Hole No. 1316-27

From (ft)	To (ft)	Description	Sample No	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
0	10.0	Casing					
10.0	197.0	Basalts					
		Rock is fine grained, massive, mafic volcanics. Colours consist of dark green, greenish-grey to black.					
		Alteration is weak, with very weak pervasive chloritization, and weak fracture-controlled calcite alteration. Localized zones of intense calcite alteration are noted in the form of calcite veinlets up to 2" in width. Moderate silicification.					
		37.0': Milky white calcite veinlet runs @ 60° T.C.A. Veinlet is 2-3" in width. Some sections of the basalts have a lime green colouring.	53948	37.0	39.0	2.0'	<5
		Two sections of strong foliation-controlled calcite veinlets is noted @ 59.0' and 64.0'. Veinlets run @ 35 - 45° T.C.A. ranging in width from $\frac{1}{16}$" to $\frac{1}{4}$". Weak brecciation is noted with large angular basalt fragments common along veinlet contacts.	53949	42.0	45.0	3.0'	7
		Sulphide mineralization consists of small brassy pyrite blebs and minor amounts of thin fracture fillings of pyrite. Pyrite is <math>< 1\%</math> of zone.	53950	59.0	61.0	2.0'	10
			53951	64.0	65.0	1.0'	<5
		109.0' - 112.0': Rock consists of strongly carbonatized basalts. Carbonate occurs as subparallel greenish white calcite veinlets and fine calcite stringers. Stringers and veinlets exhibit weak brecciation of the mafic volcanics.	53952	97.0	99.0	2.0'	12

From (ft)	To (ft)	Description	Sample No	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
		Veinlets vary in size from $\leq 1/16''$ up to one foot. All veinlets run @ about 80° T.C.A. Sulphide mineralization in this zone is less than 1%, occurring as small blebs and veinlets aligned roughly subparallel to foliation direction.	53953	109.0	112.0	3.0'	23
			53954	112.0	115.0	3.0'	143
		118.0' - 145.0': Pyrite mineralization becomes more abundant averaging 1% over the core length. Rock contains fine fracture fillings and small irregular blebs of brassy pyrite.	53955	125.0	128.0	3.0'	12
			53956	137.0	140.0	3.0'	11
		140.0 - 141.0: Small zone of intense alteration, exhibited by light greenish grey basalts. Rock shows strong pervasive silicification and calcite alteration. Weak fracture controlled chlorite alteration is noted. Fractures run @ 50° T.C.A. No sulphide mineralization noted.	53957	140.0	141.0	1.0'	10
			53958	141.0	143.0	2.0'	5
		Basalts become slightly porphyritic from 141.0 with 3-5%, subhedral plagioclase phenocrysts. Phenocrysts are up to $1/8''$ in diameter and white in colour.	53959	151.0	153.0	2.0'	10
		188.0 - 189.0" Rock is becoming strongly carbonatized with pervasive calcite alteration. Rock exhibits moderate pervasive silicification with weak fracture controlled chloritization.	53960	188.0	190.0	2.0'	1499 0.0437
		Zone contains 5% fine grain euhedral disseminated pyrite Pyrite is brassy yellow and is found in small bands running from $80 - 85^\circ$ T.C.A.					
197.0	214.0	Feldspar Porphyry Rock consists of weakly foliated, fine-medium grained feldspar porphyry. Rock contains 2 - 3%, subhedral greenish white plagioclase phenocrysts. Phenocrysts are all from $\leq 1/16'' - 1/8''$ in diameter. Matrix consists of fine grain plagioclase, chlorite with minor quartz.	53961	197.0	199.5	2.5'	240
			53962	199.5	202.0	2.5'	57
			53963	202.0	205.0	3.0'	11
			53964	205.0	208.0	3.0'	9

From (ft)	To (ft)	Description	Sample No	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
		as fine disseminated grains of brassy yellow colouring, with larger yellow pyrite blebs. Sections over the 5.5' are only weakly mineralized, with pyrite forming 1-2%, while other areas average 7-10%.					
265.5	298.5	Monzonite - Diorite	53988	265.5	268.5	3.0'	<5
		Rock consists of weakly foliated medium grained intrusive. Rock is grey to rusty brown in colour, and contains 3% anhedral, white plagioclase phenocrysts. Phenocrysts are supported in a matrix of finer grained plagioclase, chloritic hornblende and smaller amounts of alkali feldspar.					
		Larger hornblende grains are noted, as elongate prismatic grains of up to 1/2" in length. Large crystals are rare, but small hornblendes form 25% of rock. Composition varies from monzonite to alkali feldspar-poor diorite.					
		Some small chloritic basalt fragments are noted. Fragments are rounded, to subangular, usually 1/8" or smaller in size.					
		Alteration consists of veinlet controlled calcite and epidote. Both are poorly developed. Zones of weak chloritization are common along larger calcite veinlets.					
298.5	321.5	Basalt	53974	317.0	319.5	2.5'	10
		Fine grained moderately silicified, mafic volcanics. Rock is fine grained, with weak fracture controlled pyrite and small pyrite blebs. Weak pervasive chloritization is noted. Sparse blebby white quartz is noted, with fracture controlled pyrite found.	53975	319.5	321.5	2.0'	9
321.5	360.0	Diabase					
		Rock is medium grain, massive greenish grey diabase. Rock is weakly magnetic and very weakly altered. Good diabasic texture is noted in the least altered sections.					
		Diabase consists primarily of plagioclase with 10-15% small anhedral hornblende grains. Weak chlorite alteration occurs with the hornblende grains.					

From (ft)	To (ft)	Description	Sample No	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
		Both contacts to basalts are fine grain aphanitic in character, showing moderate foliation @ 80° T.C.A.	53965	208.0	211.0	3.0'	9
		Alteration consists of strong pervasive calcite, with weak silicification. Rock is strongly fractured, with chlorite slips along the planes. Zones of weak hematization are common in these zones.	53966	211.0	214.0	3.0'	68
		Contacted alteration zones contain zones of pyrite mineralization. Pyrite occurs in local zones of up to 3-5%, and as fine euhedral disseminated cubes, most abundantly in siliceous zone.					
214.0	265.5	Basalts	53967	214.0	216.0	2.0'	9
		Basalts are fine grained, slightly porphyritic and weakly foliated @ 75° T.C.A. Alteration consists of fine calcite veinlets with random orientation. Zone exhibits weak pervasive calcite and chlorite.	53968	223.0	225.0	2.0'	12
		Plagioclase phenocrysts are small subhedral grains forming 5% of zone. Sulphide mineralization remains as small blebs and irregular fracture fillings.	53969	225.0	227.0	2.0'	25
		235.0' - 241.0': Basalts exhibit moderate pervasive calcite, chlorite and silicification. Small irregular calcite veinlets of up to ½" cut the basalts, with sub-parallel chlorite slips.	53970	235.0	238.0	3.0'	126
			53971	238.0	241.0	3.0'	12
		Small blebs and discontinuous pyrite stringers are noted throughout zone, forming 1% of the zone, with local concentrations to 2%.	53989	250.0	253.0	3.0'	< 5
		Basalts beyond this zone are no longer porphyritic, with 1% blebby to cubic pyrite noted.					
		260.0' - 265.5': Zone of strong sulphide mineralization. Rock is characterized by moderate to strong pervasive calcite alteration, with moderate zones of chlorite	53972	260.0	263.0	3.0'	17
		in areas of weak pyrite mineralization. Pyrite occurs	53973	263.0	265.5	2.5'	11

From (ft)	To (ft)	Description	Sample No	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
		Diabase (Cont'd) Contact from 321.5' - 329.0' is fine grain to aphanitic (chill zone) and exhibits the strongest alteration in the form of weak calcite veinlets. Chlorite is noted in small layers subparallel to veinlet direction. Weak hematization is spotty in character.	53976	321.5	323.5	2.0'	21
			53977	323.5	325.0	1.5'	41
			53978	325.0	327.0	2.0'	13
			53979	327.0	329.0	2.0'	<5
360.0	370.0	Basalts Rock shows moderate foliation-controlled calcite and chlorite alteration. Foliation runs @ 80° T.C.A. Trace amounts of fine discontinuous pyrite veinlets are noted.	53980	360.0	362.5	2.5'	18
			53981	362.5	365.0	2.5'	9
			53982	365.0	367.5	2.5'	23
			53983	367.5	370.0	2.5'	48
370.0	428.0	Diabase Same as interval 321.5 - 360.0; minor small, randomly oriented quartz-calcite veinlets are noted near the contacts. Contacts run @ 35 - 40° and are marked by a very fine grain - aphanitic chill margin.					
428.0	466.5	Basalts Basalts exhibit an intense pervasive and moderate veinlet controlled calcite alteration. Calcite alteration is variable, with most intense zones being light green in colour. Calcite veinlets are often found to run @ 45 - 60° T.C.A. and are commonly folded and offset by smaller veinlets @ 90° T.C.A. Strong local zones of chloritization are often noted running subparallel to calcite veinlets. Small zones of weak hematized basalt and calcite veining is found. Trace amounts of fine pyrite are noted.	53984	439.0	442.0	3.0'	<5
			53985	447.0	450.0	3.0'	6
			53986	464.0	466.5	2.5'	<5

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
466.5	500.0	Feldspar Porphyry	53987	497.0	500.0	3.0'	< 5
		<p>Rock is massive medium to fine grained, grey to reddish grey in colour, containing 25 - 30% subhedral plagioclase. Plagioclase phenocrysts are greenish white to rusty red in colour, up to 1/4" in diameter.</p> <p>Matrix is very fine grain, grey to black in colour, with red appearances in more altered section.</p> <p>490.0' - 500.0': Feldspar porphyry is moderately altered with numerous fine hairline epidote veinlets, and occasional veinlets up to 2" in width. Moderate pervasive hematization is present throughout matrix and in local zones along phenocryst boundaries.</p> <p>Some large basalt fragments are noted, with strong reaction rims. No visible sulphide mineralization is noted.</p>					

E.O.H.

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hole No: 1316-28

Property: Tyranite	NTS:	Township: Tyrrell
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG5805	Coordinates: L16+00S, 4+50W
Azimuth: 090°	Dip: -70°E	Length: 600.0'
Logged By: D. Pilkey	Casing: 0 - 10.0'	Elevation:
Date Started: November 4, 1987	Date Completed: November 7, 1987	Date Logged: November 8, 1987
Core Size: BQ	Core Location: Tyranite	Samples Shipped:
Drill Company: Bill Link	Overburden: 8.0'	Checked: J. McAuley Dec. 11/88

Acid Dip Tests

1. Collar -70°E	200.0' -70°E	2. 400.0' -70°E	600.0' -71°E
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Purpose To evaluate South Pod Lens.

Conclusions Significant Intersection: 117.5 to 119.5; 2 ft @ 0.0804 oz gold/ton.

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

Hole No. 1316-28

From (ft)	To (ft)	Drill Hole Summary	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)	Oz/t
		SAMPLE #'s						
		65753 - 65800 ; 65531 - 65578						
0	10	CASING						
10	198.3	BASALTS		119.5 - 156;				
				pyrite and pyrrhotite calcite alteration and silica				
198.3	211.5	FELDSPAR PORPHYRY		207.5 - 211.5;				
				altered zone strong calcite, weak chlorite trace pyrite				
211.5	287.0	BASALTS		228.0 - 231.0;				
				5% pyrite, strong calcite altered				
				242.0 - 245.0;				
				3% pyrite, strong calcite altered				
287.0	324.0	DIORITE		310.0 - 312.0;				
				2% blebby pyrite, weak calcite moderate silicification				
				321.0 - 324.0;				
				3% pyrite				
324.0	452.4	BASALT		341.0 - 351.0;				
				upto 5% pyrite, moderate-strong calcite and silica alteration				
				426.0 - 431.0;				
				siliceous breccia				
				431.0 - 436.0;				
				4% blebby pyrite, moderate silica				
				436.0 - 446.0;				
				intense calcite, chlorite alteration (ultramafic)				
452.4	569.0	DIABASE						
569.0	600.0	BASALT						

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

November 19, 1987

Hole No. 1316-28

From (ft)	To (ft)	Description	Sample No	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t.
0	10	Casing					
10	198.3	Mafic Volcanic (Andesite/ Basalt)					
		The first five feet of the sequence (10' - 15') is a dark blackish green in color changing to a lighter greyish green further on. The rock is an aphanatic volcanic but the first five feet is more uniform and unaltered.	65753	11.0	14.0	3.0'	9
			65754	22.0	25.0	3.0'	7
			65755	30.6	33.6	3.0'	15
		From 15' on the rock is altered with veinlets of calcite uniformly throughout.	65756	40.0	43.0	3.0'	38
			65757	43.0	45.0	3.0'	8
		Epidote enriched veins of calcite also occur but are infrequent. Calcite is white, anhedral. Calcite veins are also noted but are also infrequent.	65758	50.5	53.5	3.0'	< 5
			65759	63.0	66.0	3.0'	8
		Due to the lighter color in the altered rock some possible silicification may occur. Hardness indicates this also but no visible segments were noted.					
		Phenocrysts of hematized plagioclase with a range in grain sizes from 1 mm to 4 mm occur throughout the core starting in the area of around 29'.					
		Noted are small black freckles of chlorite found throughout the core. The chlorite is also an alteration.					
		Small disseminated, yellowish pyrite blebs are noted but are uncommon in the core.					
			65760	66.0	68.0	2.0'	38
		Greyish green, aphanitic, volcanic.					
		Veinlets of calcite still prominent and uniform within the core.	65761	68.0	70.0	2.0'	32

From (ft)	To (ft)	Description	Sample No	From (ft)	To (ft)	Width (ft)	Au (ppb)	oz/t
	Mafic Volcanic	Veins of epidote enriched calcite are uncommon but do occur. The calcite is found to be white and holding no form of structure.	65762	77.0	80.0	3.0'	26	
			65763	89.0	92.0	3.0'	16	
		Veins of calcite also occur infrequently.	65764	94.0	96.0	2.0'	8	
		Very strong siliceous hematized zones occur from 67.2' to 67.8' and also from 68.3' to 70.0'. The zones are strongly altered by silica and contain hematite staining along with slight calcite enrichment. The zones occur perpendicular to the core axis.	65765	103.0	104.5	1.5'	13	
			65766	104.5	106.0	1.5'	9	
			65767	109.0	111.0	2.0'	5	
			65768	114.0	116.0	2.0'	<5	
		Phenocrysts of hematized plagioclase still occur throughout the core, with ranging grain sizes from 1 mm to 4 mm.	65769	116.0	117.5	1.5'	7	
		Small black freckles of chlorite are noted throughout the core.	65770	117.5	119.5	2.0'	2755	0.0804
		There is a zone of strong chlorite alteration which occurs from 119' to 120.6'. The core is lighter in colour and is quite soft.						
		Pyrite occurs in the core but is uncommon and infrequent.	65771	119.5	121.0	1.5'	538	
		Veinlets of calcite occur throughout the core but are not as prominent and uniform as previously seen.	65772	121.0	123.0	2.0'	36	
			65773	123.0	125.5	2.5'	162	
		Epidote enriched veins of calcite are still uncommon and do not occur as often as before.	65774	125.5	128.8	3.3'	30	
		Veins of calcite do occur but also not quite as prevalent as the previous core.	65775	128.8	131.0	2.2'	7	
		Calcite in all these forms is still white and anhedral.	65776	131.0	133.0	2.0'	10	

From (ft)	To (ft)	Description	Sample No	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
		A very strong carbonaceous alteration occurs from 119.5' to 121.0'. This alteration also contain some silica and chlorite alteration.	65777	133.0	135.0	2.0'	12
			65778	135.0	138.0	3.0'	8
		Small black freckles of chlorite are noted throughout the core but are found to be abundant in certain spots.	65779	138.0	141.0	3.0'	9
			65780	141.0	144.0	3.0'	28
		Small light green to white fragments occur at around 148' and are hard when scratched. These blebs are possibly siliceous fragments.	65781	144.0	147.0	3.0'	10
			65782	147.0	150.0	3.0'	6
		Spots of massive pyrrhotite occur through the core but in infrequent intervals in concentration up to 10%. This was found between 119.5' - 155.0' Pyrite is common and occurs in small blebs to veinlets throughout the core from 119.5' to 176.0'	65783	150.0	153.0	3.0'	8
			65784	153.0	156.0	3.0'	35
			65785	156.0	159.0	3.0'	7
			65786	159.0	162.0	3.0'	12
			65787	162.0	165.0	3.0'	20
			65788	165.0	168.0	3.0'	5
			65789	168.0	171.0	3.0'	<5
			65790	171.0	173.0	2.0'	<5
			65791	173.0	175.5	2.5'	<5
10.0	198.3	Mafic Volcanics (Andesite/Basalt)	65792	177.0	180.0	3.0'	<5
		Veinlets of calcite are now prominent and uniform within the core.	65793	180.0	182.0	2.0'	6
		Veins of epidote enriched calcite are uncommon but do occur..	65794	182.0	184.0	2.0'	<5
		Veins of calcite also occur but are infrequent. Calcite is white and has no structure.	65795	184.0	186.0	2.0'	8

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t.
		Mafic Volcanics (Andesite/Basalt) (Cont'd)	65796	191.0	194.0	3.0'	37
		Small light green to white fragments/blebs of possible feldspar material still occurs from 175' to 198'. They are possible phenocrysts. Small black freckles of chlorite still occur throughout the core.	65797	194.0	196.0	2.0'	25
		Pyrite is found in the core but is infrequent.	65798	196.0	198.3	2.3'	<5
198.3	207.5	Feldspar Porphyry	65799	198.3	200.0	1.7'	6
		Dark Grey to light grey, aphanitic matrix, porphyritic phenocrysts of feldspar ranging from 1 mm to 4mm. Phenocrysts are white and rectangular to rounded.					
		Calcite is present only in veinlets and occurs infrequently.					
		Small freckles of chlorite are noted but are uncommon throughout the core.					
		Pyrite is seldom noted but does occur in some trace levels.					
207.5	211.5	Altered Porphyry	65800	205.5	208.5	3.0'	222
		Lt greyish-green aphanitic, volcanic. Phenocrysts are hard, light green to white and are rectangular to rounded, possibly feldspar. Core is highly altered by calcite. The core is soft, lighter in color and fizzes in HCl acid. There is no structure to the calcite.	65531	208.5	211.5	3.0'	62
		Calcite enrichment occurs throughout the alteration.					
		Freckles and veinlets to veins of chlorite are quite common throughout the alteration. This is noted by the blackish green colour and softness.					
		Epidote enriched calcite is noted and occurs infrequently throughout the alteration.					
		Small disseminated blebs of pyrite are found throughout the alteration but some areas of concentrated pyrite are noted within the alteration.					

From (ft)	To (ft)	Description	Sample No	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
211.5		Mafic Volcanic (Andesite/Basalt)					
		Light greenish black to greenish black, aphanitic volcanic.	65532	211.5	214.0	2.5'	6
		Veinlets of calcite occur within the core and are generally prominent throughout.					
		Epidote enriched veins and veinlets of calcite also occur throughout the core.	65533	214.0	216.0	2.0'	7
		Calcite veins occur but are not prominent within the core.	65534	221.0	223.0	2.0'	12
		Fragments/blebs of white to light green feldspar occur and are rounded and have a range in grain sizes from 1 mm to 4 mm. The fragments/blebs are hard and have a uniform structure. They are possible phenocrysts.	65535	225.0	228.0	3.0'	8
		Veins and veinlets of silicified calcite also occur throughout the core. The veins are quite hard when scratched but fizz in HCl acid. Some of the silicified veins and veinlets are epidote enriched.	65536	228.0	231.0	3.0'	21
		A small altered zone is noted at around 215' and is silicified and contains calcite. There is also epidote enrichment in some of the calcite.					
		Pyrite is not common within the core but does occur in concentrated areas sporadically.					
		Calcite occurs in blebs but is infrequent throughout the core. The blebs are soft, white and fizz in HCl Acid.	65537	233.0	236.0	3.0'	48
		Veins and veinlets of silicified calcite occur throughout the core. The veins and veinlets are hard when scratched and fizz in HCl acid. Some veins and veinlets are enriched by epidote. Chlorite is also common.	65538	242.0	245.0	3.0'	5
			65539	253.0	256.0	3.0'	24

From (ft)	To (ft)	Description	Sample No	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
		Mafic Volcanic (Cont'd)					
		A small siliceous altered zone occurs at around 250'. The zone has a cherty appearance and is very hard. Chlorite is very common in the area among the fractures of the silica. Some calcite is noted.	65540	256.0	259.0	3.0'	42
		Fragment/blebs of white to light green feldspar occur throughout the core and are rounded. The possible phenocrysts are hard and have no structure. Grain sizes range from 1 mm - 5 mm.	65541	285.0	287.0	2.0'	901
		Pyrrhotite is found sporadically in the core in concentrated areas.					
		Pyrite is common in blebs throughout the core and is also found in concentrated areas within the core. Concentrates of pyrite are up to 5% in localized areas.					
287.0	324.0	Diorite- Monzonite					
		Rock consists of medium, weakly foliated diorite, grading into monzonite. Rock is light grey to pink in colour and consists of 20 - 30% mafic minerals. Mafics consist of weakly chloritized hornblende grains. Grains are euhedral, up to 1/8" in length, most of which are stubby, dark green to black in colour. Smaller rounded, subhedral plagioclase phenocrysts are locally apparent.	65542	310.0	312.0	2.0'	13
			65543	321.0	324.0	3.0'	7
		Groundmass consists primarily of plagioclase with local accumulations of up to 15%, pink alkali feldspar.					
		Alteration consists of fine, hairline fracture fillings of calcite and epidote. Veinlets have random orientations and form 1% or less of zone. Trace amounts of fine euhedral, brassy pyrite are noted.					

From (ft)	To (ft)	Description	Sample No	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
		310.0-312.0: A small section from 310.0 - 312.0 exhibits moderate silicification, with blebby pyrite forming 1-2% of rock.					
		Small chlorite slips are also common; minor hematite is found @ 322.5'.					
324.0	452.4	Mafic Volcanic (andesite)					
		Andesites are fine grained, weakly foliated, ranging in colour from dark green to black. Rock is cut by small, milky white calcite veinlets ranging from hairline fracture fillings to irregular brecciation veinlets up to 6" in core length.	65544	324.0	326.0	2.0'	9
			65545	326.0	328.0	2.0'	5
			65546	328.0	331.0	3.0'	9
			65547	331.0	334.0	3.0'	10
		Breccia zones are weakly formed and occur in almost all of the larger calcite veinlets. Chloritization is weak occurring as irregular slips and fracture filling, all <math>< 1/16''</math> in width.					
		Sparse pyrite mineralization is noted as small brassy yellow blebs, and as hairline veinlets along fracture planes. Pyrite content may reach 1-2% locally.	65548	334.0	336.0	2.0'	9
			65549	336.0	339.0	3.0'	9
			65550	339.0	341.0	2.0'	7
		340.0 - 342.0: Basalts show moderate to strong pervasive silicification. Basalts are light grey to greenish grey. Zone shows moderate pervasive calcite alteration. Strong fracturing contains small hairline chlorite slips and blebs.	65551	341.0	343.0	2.0	8
		Sulphide mineralization increases from 341.0 to 351.0'.	65552	343.0	346.0	3.0'	11
		Sulphides remain pyrite in fine disseminated grains and small irregular stringers, which locally may reach 5%.	65553	346.0	349.0	3.0'	6
			65554	349.0	351.0	2.0'	28

From (ft)	To (ft)	Description	Sample No	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
		Mafic Volcanic (andesite)					
		367.0': Small zone of foliation controlled silicification, with weak - moderate calcite and minor epidote alteration. Zones of strong pervasive chlorite and calcite alteration are noted in the area.	65555	367.0	369.0	2.0'	43
		Small blebs of milky white quartz with fracture controlled pyrite form <1% of basalts. Some of the blebs are up to 1/2" in width.	65556	383.0	385.0	2.0'	10
		399.0 - 452.4': Basalts now show intense alteration in a variety of types and degrees. The most notable is a moderate to strong calcite alteration. Calcite is present as fine pervasive grains and fine foliation controlled calcite veinlets and blebs. Blebs may reach 1 - 2" in width.	65557	399.0	402.0	3.0'	22
			65558	402.0	405.0	3.0'	23
			65559	405.0	408.0	3.0'	6
			65560	408.0	411.0	3.0'	15
			65561	411.0	414.0	3.0'	13
			65562	414.0	417.0	3.0'	18
		399.0 - 431.0': The basalts show strong to intense pervasive, silicification. Basalts are very fine grained to aphanitic, with light grey to greenish grey colour. Strong fracturing in the rock is highlighted by strong calcite alteration along the fractures, turning the basalts to white grey. Small veinlets of quartz-calcite run @ 65° T.C.A.	65563	417.0	420.0	3.0'	31
			65564	420.0	422.5	2.5'	46
			65565	422.5	425.0	2.5'	34
		Strong chloritization also is noted along most of the fractures in the basalt.					
		426.0 - 431.0': This is a zone of strong brecciation consisting of 35- 50% subangular silicified basalt fragments, in a fine foliation controlled matrix of chlorite and calcite. Chlorite along foliations produce fine ribbon-like features.	65566	425.0	428.0	3.0'	55
			65567	428.0	431.0	3.0'	17

From (ft)	To (ft)	Description	Sample No	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
		431.0 - 436.0': Altered basalts now only show moderate pervasive silicification with strong foliation controlled chlorite and calcite alteration. Foliation runs @ 45 - 60° T.C.A. Zone contains from trace - 4%, fine euhedral pyrite grains running parallel to foliations in small pyritic bands. Slight folding is noted in the zone.	65568	431.0	433.5	2.5'	98
			65569	433.5	436.0	2.5'	17
		Basalts from 436.0 - 446.0 show intense chlorite and calcite alteration, and have an ultramafic appearance.	65570	436.0	439.0	3.0'	8
			65571	439.0	442.0	3.0'	21
			65572	442.0	444.0	2.0'	10
			65573	444.0	446.0	2.0'	29
			65574	446.0	449.0	3.0'	36
			65575	449.0	452.4	3.4'	61
457.4	569.0	Diabase					
		Rock consists of medium grained, greyish diabase. Contact runs @ 45° T.C.A., with a chill margin of 1 foot.					
		Rock consists mostly of large euhedral black hornblende grains with grains up to 1/4" in size. Plagioclase forms interstitial grains between the larger hornblendes. Rock composition is diorite. Diabasic texture is well developed locally. Rock is strongly magnetic.	65576	479.0	481.0	2.0'	10
		Alteration consists of weak, veinlet controlled epidote and calcite, which form <1% of dyke. Veinlets run @ 60-80° T.C.A.					
		Trace amounts of blebby pyrite are noted. Altered zones lack magnetism, and are fine grained.					

From (ft)	To (ft)	Description	Sample No	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
569.0	600.0	Mafic volcanic (basalt)					
		Rock is moderately foliated, altered, fine grain, dark green to black mafic volcanics. Foliation runs @ 70° T.C.A.					
		Alteration consists of strong pervasive chloritization and moderate pervasive calcite alteration. Minor small calcite veinlets are also noted. Moderate pervasive silicification occurs from 581.0 - 585.0, with up to 3% fine, euhedral pyrite. Minor hematite is locally noted.	65577	581.0	583.0	2.0'	66
		E.O.H.	65578	583.0	585.0	2.0'	153

NORWIN RESOURCES LIMITED
DIAMOND DRILL LOG

Hole No: 1316-47

From	To	DRILL HOLE SUMMARY	
		SAMPLES #s	70401 - 70483
0	9.0	CASING	
9.0	197.5	BASALTS	Moderate pervasive silicification, fracture controlled calcite, variable amounts of pyrite and pyrrhotite over length.
		(MINERAL IZED	36.0 - 38.0; weak calcite; 2 - 10% pyrite stringers.
			40.0 - 41.5; strong calcite and silicification 2% chalcopyrite.
			61.0 - 103.0; trace - 5% blebby pyrite, local massive pyrrhotite.
			112.0 - 114.0; 3 - 5% pyrite; 1 - 2% pyrrhotite
			117.0 - 197.5; weak calcite; weak pervasive silicification; 2 - 5% pyrite, trace 5% pyrrhotite; trace - 1% chalcopyrite (sulphides very spotty)
197.5	236.0	FELDSPAR PORPHYRY	199.5 - 229.0; moderate pervasive calcite, weak fracture controlled chlorite; trace pyrite
			229.0 - 236.0; strong silicification, moderate calcite veinlets.
236.0	336.0	BASALT	Weak moderate pervasive silicification weak calcite veinlets.
			Spotty zones of intense calcite and silica alteration; trace - 3% pyrite
		MINERAL- IZED	"some massive sulphide zones now appear with up to 10% pyrrhotite; 2 - 3% pyrite; trace chalcopyrite"
			278.5 - 279.0; intense calcite veining; 3 - 5% pyrite

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		(MINERAL- IZED)	291.0 - 336.0; sulphides again spotty, trace 30% pyrrhotite; trace 5% pyrite; 1% local chalcopyrite.					
			324.0 - 336.0; moderate - intense silicification weak brecciation; weak - moderate calcite alteration. 1 - 2% pyrite.					
336.0	342.5	DIORITE	weak, spotty calcite; trace pyrite.					
342.5	363.0	BASALT	342.5 - 350.0; intense pervasive calcite and silica alteration - trace pyrite					
			359.0 - 363.0; moderate spotty silicification, moderate pervasive calcite, spotty hematite					
363.0	392.0	DIORITE	trace - 2% pyrite					
455.5	489.5	BASALT	455.5 - 460.0; silicified graphite zone; 1 - 2% pyrite tight kink folding					
			460.0 - 489.5; strong pervasive silicification weak spotty calcite - 2% pyrite locally					
489.5	494.5	DIORITE						
494.5	500.0	BASALT	Strong pervasive silicification					

E.O.H.

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
392.0	419.0	BASALT	weak pervasive silicification, weak calcite veining trace - 2% pyrite 408.0 - 419.0; moderate pervasive calcite, weak silicification 419.0 - 423.0; strong pervasive silicification strongly graphitic, weak calcite 1 - 2% pyrite - tight kink folds.					
423.0	426.8	INTERMED- IATE VOLCANIC	May be intense alteration of basalt; moderate to strong silicification, moderate spotty calcite, weak fracture controlled chlorite - trace pyrite					
426.8	428.3	BASALT	strong pervasive silicification, very graphitic; 1 - 2% pyrite					
428.3	455.0	INTER- MEDIATE VOLCANIC	intense pervasive silicification, moderate spotty calcite, weak chloritization - trace pyrite "May be felsic volcanic or intense silica alter- ation?"					

NORWIN RESOURCES LIMITED
DIAMOND DRILL LOG

Hole No: 1316-47

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	9.0	CASING					
9.0	197.5	BASALT					
		Rock consists of fine grain, weakly foliated mafic volcanics. Basalts are grey to greenish grey in colour.	70401	15.0	19.0	3.0	
			70402	19.0	22.0	3.0	
			70403	22.0	25.0	3.0	
			70404	25.0	28.0	3.0	
		Alteration consists of moderate fracture controlled calcite veining running @ 60° T.C.A. Basalts also show weak spotty chloritization and weak - very weak hematite alteration. Zones of local pervasive silicification are noted.	70405	31.0	33.0	2.0	
			70406	36.0	38.0	2.0	
			70407	38.0	40.0	2.0	
			70408	40.0	41.5	1.5	
		Sulphide mineralization consists of blebby and weak foliation controlled pyrite stringers and veinlets. Sulphide content varies from trace - 2%, local accumulation may reach 10%.					
		MINERAL- IZED ZONE					
		36.0 - 38.0; Basalts are moderate to weakly carbonatized, containing 2 - 10% foliation controlled pyrite mineralization.					
		40.0 - 41.5; Zone of strong alteration, exhibited by fine grain, tight grey basalts. Alteration consists of moderate pervasive silicification, and strong pervasive calcite. Zone is strongly fractured with chlorite along the fractures. Zone contains 2% chalcopyrite.					
		Strong mineralized zones of up to 8" are noted from 46.0 - 61.0'. Zone contains 3% sulphide over width.					
		Sulphide occurs as random stringers from 5 - 30% T.C.A. Weak calcite alteration is noted.					

From To
(ft) (ft)

Sample From To Width Au
No. (ft) (ft) (ft) (ppb)

cont'd

Mineralization ranges from trace - 5% from 61.0 - 103.0, remaining as fine blebby pyrite and small fracture controlled pyrite stringer. Local zones of pyrrhotite are noted.

103.0 - 112.0; Pyrite mineralization is very weak forming <1% of zone. Calcite and chloritization are no longer pervasive, but only as very weak calcite veinlets.

112.0 - 114.0; Zone of fine pyrite mineralization, with 3 - 5% fine stringers and blebs, 1 - 2% massive, blebby pyrrhotite.

117.0 - 119.5; Basalts are cut by 2 zones of intense calcite alteration. Zone run @ 75° T.C.A. Sections are up to 2" in width.

Zone also exhibits moderate pervasive silicification with weak fracture controlled chloritization. Strongest chloritization occurs in fractures within the siliceous zones. Pyrite is blebs and stringers. Sulphide zones reach 3 - 5% of zone.

119.5 - 197.5'; Basalts are weakly carbonatized with fine fracture controlled calcite veinlets. Minor fracture controlled chloritization, and weak pervasive silicification.

Sulphide mineralization is spotty, consisting of blebs and fine stringers of pyrite, with local zones of pyrrhotite enrichment. Pyrite is generally massive over small widths and often occurs with small blebs and sheet like zones of chalcopyrite. Sulphide mineralization runs @ 1 - 2% of zone, locally reaching 5% in more massive pyrrhotite zones.

70409	46.0	49.0	3.0
70410	49.0	51.0	2.0
70411	51.0	53.5	2.5
70412	53.5	56.0	2.5
70413	56.0	58.5	2.5
70414	58.5	61.0	2.5
70415	66.0	69.0	3.0
70416	71.0	74.0	3.0
70417	84.0	86.0	2.0
70418	101.0	103.0	2.0
70419	112.0	114.0	2.0

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
197.5	236.0	FELDSPAR PORPHYRY					
		Rock consists of fine grained matrix, of weakly foliated, grey - greenish grey to brown plagioclase?, calcite and chlorite. Percentage is undetermined due to finesse of grain size.	70420	117.0	119.5	2.5	
			70421	123.5	131.0	2.5	
			70422	134.0	135.0	1.0	
			70423	146.0	148.0	2.0	
			70424	148.0	150.5	2.5	
		Rock also contains 10 - 15%, subhedral, rounded greenish white plagioclase phenocrysts. Phenocrysts are up to 1/10" in diameter.	70425	150.5	152.5	2.0	
			70426	152.5	155.0	2.5	
			70427	158.0	161.0	3.0	
			70428	161.0	164.0	3.0	
		Alteration consists of weak-moderate pervasive calcite, and very weak fracture controlled chloritization. Minor blebby and very finely disseminated pyrite is noted.	70429	164.0	167.0	3.0	
			70430	167.0	170.0	3.0	
			70431	170.0	173.0	3.0	
			70432	173.0	176.0	3.0	
			70433	192.0	195.0	3.0	
		199.5 - 229.0; Zone is characterized by an increase in alteration, and coincident decrease in plagioclase phenocrysts. Relic outlines of primary phenocrysts are still visible, with a colour change to lime green. Porphyries in this section are weakly foliated, marked by small chlorite slips. Rocks is now moderately to strongly carbonatized, with pervasive calcite alteration.	70434	195.0	197.5	2.5	
			70435	201.0	203.0	2.0	
			70436	229.0	232.0	3.0	
			70437	232.0	234.0	2.0	
			70438	234.0	236.0	2.0	
		ALTERATION ZONE					
		Trace amounts of fine disseminated pyrite are noted. 229.0 - 236.0; "Porphyry" is now so strongly altered that it no longer has any phenocrysts. Even relic textures are no longer apparent. Zone exhibits moderate fracture controlled calcite and weak to moderate pervasive silicification. Trace pyrite is noted.					
		"Rock may be altered basalt but is slightly more siliceous than surrounding basalt, and is light grey in colour."					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
236.0	336.0	BASALT	Rock is fine grain, massive to weakly foliated mafic volcanics. Basalts are dark green to black in colour.	70439	236.0	239.0	3.0	
			Alteration consists of a weak - moderate pervasive silicification, over the entire zone. It also contains weak foliation controlled calcite veinlets, with foliation controlled chloritization.	70440	239.0	242.0	3.0	
			Small sections of more intense alteration are noted. Zones are usually up to 3" in width consisting primarily of calcite alteration and weak spotty silicification.	70441	246.0	249.0	3.0	
			Sulphide mineralization is variable, consisting primarily of small irregular pyrite blebs and small fracture controlled pyrite stringers. Pyrite is very sporadic, ranging from trace to 3%.	70442	256.0	258.0	2.0	
			Zones of weakly massive sulphide mineralization are characterized by primarily pyrrhotite, with minor pyrite, and trace chalcopyrite. Massive zones are small, usually less than 6" in core length.	70443	273.0	276.0	3.0	
			Pyrrhotite reaches 10%, with 1 - 2% pyrite trace chalcopyrite.	70444	276.0	279.0	3.0	
			Basalts show section of porphyritic texture, with up to 10% subhedral brownish white plagioclase phenocrysts. Zones of porphyritic basalt are sparsely scattered through more homogeneous basalt.					

From To
(ft) (ft)

Sample From To Width Au
No. (ft) (ft) (ft) (ppb)

cont'd

278.5 - 279.0; Basalts exhibit intense foliation controlled calcite and chlorite alteration. Veinlets run @ 80° T.C.A. and are $\frac{1}{4}$ " or smaller in width. Veinlets are bound by small chlorite slips. Stringers of brassy pyrite run subhedral to foliation forming 3 - 5% of small zone.

70445	296.0	298.0	2.0	
70446	298.0	300.0	2.0	
70447	311.0	314.0	3.0	
70448	316.0	318.0	2.0	
70449	318.0	320.0	2.0	
70450	320.0	322.0	2.0	
70451	322.0	324.0	2.0	
70452	324.0	327.0	3.0	
70453	327.0	330.0	3.0	
70454	330.0	333.0	3.0	
70455	333.0	336.0	3.0	
70456	336.0	339.5	3.5	
70457	339.5	342.5	3.0	

From 291.0' the most predominant sulphide mineral is pyrrhotite, ranging from large blebs to massive zones of thin stringers. Pyrrhotite mineralization reaches 30% locally with pyrite stringers ranging from trace to 3%. Local concentrations of pyrite may reach 5%.

Massive pyrrhotite sections commonly show a brecciated texture, comprised of round, small basalt fragments in a matrix of pyrrhotite.

317.0 - 318.0; Zone of massive sulphide consisting of equal amounts of pyrite and pyrrhotite. Sulphide content over 1.0' about 65 - 70%, 35% pyrite along foliation planes, 35% massive blebby pyrrhotite.

324.0 - 336.0; Zone consists of intense alteration of basalts. All primary structure and textures have been destroyed. Rock now exhibits weak brecciation.

Alteration consists of moderate pervasive silicification. Basalts are now grey-white to brown, and very cherty in appearance.

Siliceous zones show strong brittle deformation with small slips and patchy zones of chlorite. Chlorite also shows moderate silicification.

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd	Weak foliation and fracture controlled calcite alteration is noted, with weak local hematization. Minor epidote also occurs.	70458	342.5	345.5	3.0	
				70459	345.5	348.0	2.5	
				70460	348.0	350.0	2.0	
				70461	350.0	352.5	2.5	
			Zone contains 1 - 2% blebby and very finely disseminated pyrite.	70462	352.5	355.0	2.5	
				70463	355.0	357.0	2.0	
				70464	357.0	359.0	2.0	
336.0	342.5	DIORITE	Rock consists of medium grain, massive diorite. Diorite contains 10%, euhedral, prismatic amphibole grains. Grains are black-green in colour, showing no preferred orientation. Grains are up to $\frac{1}{8}$ " in size, and are supported by smaller grained mafic and plagioclase. Plagioclase content is about 70%.					
			Alteration is weak with fracture controlled calcite and spotty chloritization being common. Weak pyrite mineralization reaches 1% locally, as blebby pyrite grains.					
342.5	363.0	BASALTS	342.5 - 350.0; Zone of intense alteration, exhibited by a weak-moderate pervasive carbonatization. Calcite also occurs in fine foliation controlled veinlets. Zone also exhibits a moderate pervasive silicification.					
			Weak fracture controlled chlorite is also noted generally as very fine slips. Rock in this section is very fine grained to aphanitic, yellowish green in colour.					
			Trace amounts of finely disseminated, euhedral pyrite is noted.					
			350.0 - 358.0; Basalts are now green-black, and exhibit weak alteration. Weak porphyritic texture is now apparent. Basalts contain					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
		3 - 5% blebby, and fine fracture controlled pyrite, and 1 - 2% blebby pyrrhotite.	70465	359.0	361.0	2.0	
			70466	361.0	363.0	2.0	
		359.0 - 363.0; Zone of strong pervasive calcite alteration. Rock in this section has sugary texture. Moderate spotty silicification and locally strong hematite alteration is noted.	70467	396.0	399.0	3.0	
			70468	405.0	408.0	3.0	
			70469	408.0	411.0	3.0	
			70470	411.0	414.0	3.0	
			70471	414.0	416.5	2.5	
			70472	416.5	419.0	2.5	
		Chloritization is present as small fracture fillings and irregular blebs, randomly oriented through the core.					
		Small quartz blebs are frequently observed as small grey, oval shaped features, up to 1/2" in length. Sulphide mineralization is strong around these areas.					
363.0	392.0	DIORITE					
		Same as described in interval 336.0 - 342.5. Diorite show weak blebby and fine fracture controlled calcite, and locally contains 2% fine blebby pyrite. Fragments of basalt are found within the diorite. Fragments are rounded in character, moderately chloritized, and form 1% of diorite. Fragments up to 3" wide are noted.					
392.0	419.0	BASALTS					
		Rock is weakly foliated fine grain mafic volcanics. Basalts are greenish grey to black in colour. Locally these basalts show weak porphyry texture, with small, subhedral, white plagioclase phenocrysts noted. Porphyritic sections are not common.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd	Alteration consists of weak pervasive silicification, with moderate - weak calcite veining. Minor chloritization is also noted. Basalts contain trace 2% blebby pyrite and fine pyritic stringers. Zone also contains trace amounts of pyrrhotite.	70473	419.0	421.0	2.0	
			408.0 - 419.0; Basalts show moderate pervasive calcite alteration and weak to moderate, foliation controlled calcite veining, with subparallel chloritization. Weak pervasive silicification is also noted, with small sections of intense silicification marked by yellowish white cherty appearance to basalts.	70474	421.0	423.0	2.0	
				70475	423.0	425.0	2.0	
				70476	425.0	426.8	1.8	
419.0	423.0	GRAPHITIC ZONE	Basalts are now primarily graphite, being black in colour. The zone is still strongly silicified and is cut by small white calcite veinlets at random orientation. Sulphide minerals consist of fracture controlled pyrite stringers, and small globular (colloform) pyrite nodules. Sulphide mineralization forms about 1% of zone.					
			Tight kink folding is strongly marked in the more graphitic sections of the zone.					
423.0	426.8	INTER- MEDIATE VOLCANIC	Rock is massive to foliated, fine grain, cherty looking unit. Rock is yellow white to beige in colour, and may represent a strongly altered section of basalt. Zone is strongly fracture and contains variable amounts of silica. More siliceous zones are tan coloured.					
			Zone also contains weak-moderate fracture controlled calcite alteration. Carbonatization becomes pervasive in local areas. Weak fracture controlled chlorite is noted giving the rock a weak brecciation texture.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd	Many elliptical black porphyroblasts are noted throughout zone, with more concentrated zone containing 15% porphyroblasts.	70477	425.8	428.3	1.5	
			Porphyroblasts are up to $\frac{1}{8}$ " in length and appear to be a mixture of chlorite and calcite. Greenish reaction rims are noted around most of the porphyroblasts.	70478	435.0	438.0	2.0	
			Trace amounts of fine grain, disseminated pyrite are noted.	70479	446.0	447.0	1.0	
				70480	453.0	455.0	2.0	
426.8	428.3	GRAPHITIC ZONE	Same as interval 419.0 - 423.0, zone is still very strong silicified, with 1 - 2% blebby pyrite.					
428.3	455.0	INTER-MEDIATE VOLCANIC	Rock is the same as in previous intermediate unit, being fine grain to aphanitic, yellowish green to tan in colour.					
		ALTERATION ZONE	Colour is a strong indicator of silicification, with tan zones being most siliceous. Zone exhibits very spotty, weak calcite alteration, with fracture controlled chlorite.					
			Chlorite-calcite porphyroblasts are now slightly larger and seem to be plagioclase at their cores. Many of the porphyroblasts are aligned along fractures @ 70° T.C.A.					
			Rock has a layered appearance due to changing silica contents. Tight folding is common on a small scale.					
			436.0; The unit becomes more felsic than intermediate, but still retains the same texture. Small, thin layers of pyrite are sparsely scattered through the zone, with layers up to $\frac{1}{4}$ " thick noted.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
455.0	460.0	GRAPHITE ZONE	Zone is well layered, strongly silicified graphitic zone. Zone contains 1 - 2% layered pyrite. Layers show tight, kink type folding.	70481 70482 70483	455.0 457.5 484.0	457.5 460.0 486.0	2.5 2.5 2.0	
460.0	489.5	BASALTS	Rock is now strongly altered, massive to weakly foliated mafic volcanics. Rock varies with degree of alteration, from relatively unaltered black basalt, to strongly silicified light grey, greenish grey. Zone is characterized by strong pervasive silicification, with weak spotty calcite and very weak, fine calcite veinlets. Chloritization is present in small fracture controlled slips, and occasional chloritic blebs, but is not often noted. Trace amounts of fine pyrite will local bleb zones of brassy pyrite are noted. Local accumulations may reach 2%.					
489.5	494.5	DIORITE	Same as interval 363.0 - 392.0.					
494.5	500.0	BASALT	Same as 460.0 - 489.5, basalts still exhibit very strong pervasive silicification, with trace - 1% fine disseminated pyrite.					
		E.O.H.						

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hole No: 1316-48

Property: Tyrinite	NTS:	Township: Tyrrell
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG 5805	Coordinates: L 8+00N; 5+50W
Azimuth: 090°	Dip: -50°E	Length: 500.0'
Logged By: D. Prior	Casing: 0 - 10.0'	Elevation:
Date Started: November 10, 1987	Date Completed: November 13, 1987	Date Logged: November 14, 1987
Core Size: BQ	Core Location: Tyrinite Mine	Samples Shipped:
Drill Company: Bill Link	Overburden: 0 - 8.0'	Checked: D. Pilkey Jan. 6, 1988

Acid Dip Tests

1. Collar	-50°E	250.0'	-50°E	2. 500.0'	-53°E
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Purpose To evaluate combined IP-geochemical anomaly.

Conclusions No significant intersections.

NORWIN RESOURCES LIMITED
DIAMOND DRILL LOG

Hole No: 1316-48

From (ft)	To (ft)	Drill Hole Summary	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		SAMPLES #'s 65824 - 65830					
0	9.8	CASING					
9.8	45.5	ULTRA MAFIC					
		Black medium of coarse grained, densely packed chloritic olivine crystals. Highly fractured, fractures infilled with green serpentine, fibrous asbestos, minor calcite and trace of blue clay. Strongly magnetic, rare pyrite specks throughout.					
45.5	81	DIORITE DYKE					
		1 to 2 plagioclase and hornblende crystals, numerous aggregates of greenish white plagioclase crystals, very weakly magnetic in part. Trace disseminated pyrite.					
81	490	ULTRAMAFIC					
		as above					
		NOTE -					
		There is only 10 feet of core between core markers 275' and 295'. All markers from 295' to 500' have been changed to read 285' to 490'.					

NORWIN RESOURCES LIMITED
DIAMOND DRILL LOG

Hole No: 1316-48

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	9.8	CASING					
9.8	45.5	ULTRAMAFICS					
		Black, medium to coarse rounded grains. Massive moderately, soft ultramafic igneous rock. The densely packed 2 - 3mm rounded grains appear to relic olivines. The rock is moderately to strongly magnetic.	65824	35	38	3.0	21
			65825	55	57	2.0	15
			65826	59	62	3.0	102
			65827	64	66	2.0	7
			65828	80	82	2.0	5
		Alteration: Moderate pervasive chlorite, 1mm calcite veinlets along fractures with chlorite and serpentine. Numerous irregular 1 to 2mm fibrous asbestos veinlets. From 35' to 38' there are several serpentine carbonate veinlets to 2cm. From 10' to 20' a white, to blue grey clay mineral occurs along fracture surfaces. Minor hematite staining along fractures at 15'.					
		Mineralization: The rock is moderately to strongly magnetic, indicating the presence of magnetite. No sulphides were observed.					
45.5	81	DIORITE					
		Medium grey fine to medium grained, 1 to 2mm plagioclase and hornblende crystals, with a diabasic texture. There are numerous 1 to 2cm aggregates of plagioclase crystals with a greenish white colour. The rock is very weakly magnetic. The rock becomes cherty near the lower contact to upper contact is missing.					
		Alteration: Weak pervasive chlorite, moderate to strong on fracture surfaces. A pale green carbonate is common on fracture surfaces. There are several 3 to 10mm quartz veinlets.					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
		Mineralization:	65829	175	178	3.0	10
			65830	254	256	2.0	21
81	165	ULTRAMAFIC					
		Description:					
		Black, medium to coarse densely packed relic olivine crystals, rounded from 2 to 4mm long. The rock is moderately to strongly fractured and strongly magnetic.					
		Alteration:					
		Moderate pervasive chlorite, numerous hairline to 1cm wide fractures infilled with calcite and green serpentine, very abundant hairline to 2mm wide veinlets of fibrous asbestos; Minor 2 - 4% interstitial green serpentine. The individual relic olivine crystals appear highly fractured and the rock is moderately soft. Minor amount of white to blue grey clay mineral along fractures.					
		Mineralization:					
		No sulphide mineralization observed. Magnetite is indicated.					
81	490						
		165 - 215					
		Description:					
		Black ultramafics as above, more altered with numerous fibrous asbestos veinlets up to 2cm wide. From 165' to 175' the relic olivine crystals are obscured. The rock is highly fractured with 1mg fibrous asbestos crystals parallel to the fractures.					
		Mineralization:					
		Magnetite, rare tiny specks of pyrite and 0.5% pyrite associated with asbestos fibres at 176'.					
		215' - 490';					
		Description:					
		Black, medium to coarse grained, with tightly packed fractured relic olivine crystals, strongly magnetic and highly fractured in a lattice like irregular pattern.					

From To
(ft) (ft)

Sample From To Width Au
No. (ft) (ft) (ft) (ppb)

cont'd

Alteration: Moderate pervasive chlorite. Very abundant hairline to 2mm fractures infilled with fibrous asbestos. Numerous wider fractures from 5 to 20mm are filled with light green serpentine. Calcite and a pale blue clay mineral are found along some fractures. 1 to 2cm wide veinlets of serpentine and fibrous asbestos are numerous from 360° and 390°.

Mineralization: Magnetite is indicated, and rare tiny pyrite specks are visible.

NOTE: 10' depth discrepancy from 275' to end of hole. There is 10' of core between 275' core marker and 295' marker.

E.O.H.

GUNNAR GOLD / MILL CITY INC.

DIAMOND DRILL LOG

Hole No: 1316-49

Property: Tyranite	NTS:	Township: Tyrrell
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG 5805	Coordinates: L12+00S; 5+00W
Azimuth: 090°	Dip: -50°E	Length: 500.0'
Logged By: D. Pilkey	Casing: 0 - 10.0'	Elevation:
Date Started: November 15, 1987	Date Completed: November 17, 1987	Date Logged: November 19, 1987
Core Size: BQ	Core Location: Tyranite	Samples Shipped:
Drill Company: Bill Link	Overburden: 8.0'	Checked: D. Pilkey Jan. 6, 1988

Acid Dip Tests

1.	Collar	-50°E	250.0'	-50°E	500.0'	-52°E
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Purpose To evaluate combined IP - geochemical anomaly.

Conclusions

PRELIMINARY

NORWIN RESOURCES LIMITED
DIAMOND DRILL LOG

Hole No: 1315-49

From (ft)	To (ft)	DRILL HOLE SUMMARY	
		Sample #s	38252 - 68283
0	10.0	CASING	
10.0	43.0	BASALT	Weak pervasive silicification, spotty calcite very weak chlorite and hematite; trace 2% pyrite and minor pyrrhotite. 42.5 - 43.0 Intense calcite; 1% pyrite.
43.0	69.0	FELDSPAR PORPHYRY	Weak calcite alteration; trace chalcopyrite.
69.0	151.0	BASALT	69.0 - 92.0 Weak pervasive silicification, weak - moderate calcite alteration. 1% pyrite. 92.0 - 151.0 Weak calcite - silicification; trace 5% pyrite; trace - 3% pyrrhotite. 98.0 - 100.0 35% pyrrhotite; 2% pyrite.
151.0	162.0	FELDSPAR PORPHYRY	Weak calcite and chlorite alteration. Trace pyrite.
162.0	189.0	DIABASE	Moderate - strong pervasive calcite, weak hematite.
189.0	247.0	BASALT	Moderate pervasive silicification, moderate calcite alteration; trace 3% pyrite; trace-10% pyrrhotite.

NORWIN RESOURCES LIMITED
DIAMOND DRILL LOG

Hole No: 1316-49

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
			195.5 - 198.0; Intense silicification, trace pyrite.					
		WEAKLY MINERALIZED	210.5 - 247.0; Intense silicification; 1 - 2% pyrite; Weak chloritization.					
		MINERALIZED	215.0 - 247.0; Trace 5% pyrite; trace - locally massive pyrrhotite. 241.0 - trace sphalerite.					
247.0	367.0	DIABASE	Weak calcite alteration.					
296.0	367.0	INTERMEDIATE VOLCANIC	:Intense silicification (primary?). Zones of graphite @ 296.0 - 297.0 307.5 - 308.5 312.0 - 313.5 315.0 - 317.0 1 - 3% foliation controlled pyrite. Spotty - locally strong calcite alteration.					
		WEAK MINERALIZATION	361.0 - 361.5; Intense pervasive silicification, 1% pyrite.					
367.0	414.0	DIORITE	Weak fracture controlled calcite, epidote moderate pervasive hematization; Trace blebby pyrite.					
414.0	465.0	BASALT	414.0 - 422.0; Moderate pervasive silicification, spotty calcite and chlorite. Trace pyrite. 422.0 - 460.0; Moderate-strong pervasive weak calcite, trace pyrite. 460.0 - 465.0; Strong pervasive silicification weak calcite alteration.					
465.0	500.0	DIABASE E.O.H.	Weak calcite and chloritization.					

NORWIN RESOURCES LIMITED
DIAMOND DRILL LOG

Hole No: 1316-49

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	10.0	CASING					
10.0	43.0	BASALT	68252 68253 68254	29.0 32.0 41.0	32.0 35.0 43.0	3.0 3.0 2.0	
		<p>Rock consists of fine grained, massive mafic volcanics. Rock is green in colour, grading to grey, which reflects spotty calcite and silica alteration.</p> <p>Alteration consists of weak pervasive silicification, and spotty calcite. Calcite occurs in small, irregular veinlets of random orientation, upto 1" in width. Chloritization occurs as small slips, usually parallel to foliation direction and calcite veinlet.</p> <p>Hematization occurs along fractures which contain thin pyrite stringers. Heavily hematized section are often juggy in character. Sulphide mineralization occurs as fine pyrite stringers and spotty pyrrhotite. Sulphide mineralization usually is <1%, but locally may reach 2%.</p> <p>42.5 - 43.0; Rock shows intense pervasive calcite alteration. Rock is now aphanitic, light grey to brown in colour.</p> <p>Zone contains 1% fine pyrite.</p>					
43.0	69.0	FELDSPAR PORPHYRY					
		<p>Rock consists of massive, medium-fine grain, greyish green porphyry. Rock contains 10% poorly developed white plagioclase phenocrysts. Phenocrysts are subhedral upto 1/4" in size. Matrix is fine grained, consisting of plagioclase, chlorite and calcite.</p> <p>Small calcite stringers run @ 60° T.C.A. and commonly contain small amounts of chalcopyrite. Veinlets are all very fine.</p>					

From (ft)	To (ft)			Sample No.	From (m)	To (ft)	Width (m)	Au (ppb)
43.0	69.0	FELDSPAR PORPHYRY	Rock consists of massive, medium-fine grain, greyish green porphyry. Rock contains 10% poorly developed white plagioclase phenocrysts. Phenocrysts are subhedral, up to $\frac{1}{4}$ " in size. Matrix is fine grained, consisting of plagioclase, chlorite and calcite. Small calcite stringers run @ 60° T.C.A. and commonly contain small amounts of chalcopyrite. Veinlets are all very fine.	68255	72.0	75.0	3.0	
				68256	79.0	82.0	3.0	
				68257	82.0	85.0	3.0	
				68258	85.0	87.0	2.0	
69.0	151.0	BASALT	69.0 - 92.0; Basalts in this section show spotty zones of strong alteration locally scattered throughout the section. Zone is characterized by carbonatization, giving the rock light green to green grey colour. Zone contains numerous, randomly oriented calcite veinlets from hairline fracture fillings, up to 2" in width. Weak pervasive silicification is noted. Small chloritic blebs are noted, giving the basalts a porphyroblastic texture. Blebby pyrite is noted throughout core, locally forming small enrichment zones of enrichment up to 1%. 92.0 - 151.0; Basalts are now weakly carbonated and are typical massive, greenish coloured fine grained mafic volcanics. Minor calcite veining is noted, with weak brecciation. Sulphide mineralization consists of blebby pyrite and small zones of massive pyrite. Large pyrite up to 2" in width. Small pyrite stringers are also frequently noted. Pyrite mineralization reaches 5% locally. Pyrrhotite is noted as massive zones and weakly foliated layers, ranging from trace to 3%.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		(MINERALIZED)	98.0 - 100.0; Zone of massive sulphide mineralization consisting of 30 - 35% layered pyrrhotite. Layers of pyrrhotite run @ 15 - 20° T.C.A. 1 - 2% fracture controlled pyrite veinlets.	68259	93.0	95.0	2.0	
				68260	95.0	98.0	3.0	
				68261	98.0	100.0	2.0	
				68262	105.0	106.0	1.0	
				68263	114.0	116.0	2.0	
			112.0; Large milky white calcite vein of 3" in width, runs @ 60° T.C.A. A second smaller veinlet is noted beside it. Small veinlet shows weak brecciation of the basalts.	68264	118.0	121.0	3.0	
				68265	137.0	140.0	3.0	
			133.0; Calcite veinlet runs @ 60° T.C.A., and 3" in width. Weak chloritization is noted along vein contacts.	68266	142.5	145.0	2.5	
151.0	162.0	FELDSPAR PORPHYRY	Rock consists of massive, weakly foliated feldspar porphyry. Porphyry contains 20% subhedral-euhedral plagioclase phenocrysts. Phenocrysts are white to pink in colour, and are up to 1/8" in length. Matrix is made up of plagioclase with possible chlorite and calcite. Small fracture controlled calcite stringers are noted throughout porphyry. Porphyry contain small rounded basalt fragment. Fragments are weakly chloritized and very weakly carbonatized. Fragments form <2% of porphyry. Trace amounts of blebby pyrite are scattered throughout the porphyry.					
162.0	189.0	DIABASE	Rock is weakly foliated, medium grained, greyish green diabase. Rock shows moderate alteration. Strongly altered sections are fine grained, with coarser unaltered sections being comprised of plagioclase and amphibole. Amphiboles are small lath shaped crystals up to 1/8" in length. Crystals are black-dark green, euhedral and form <5% of zone. Amphiboles are surrounded by greenish plagioclase.					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
189.0	247.0	BASALT	68267	214.0	216.0	2.0	
		Basalts are fine grain, black to dark green in colour. Basalts are massive, and now exhibit moderate pervasive silicification. Silicification locally is intense, giving the basalts a light grey, cherty appearance.	68268	220.0	222.0	2.0	
		Weak to moderate calcite veining is noted.	68269	233.0	235.0	2.0	
		Sulphide mineralization consists of fracture controlled pyrite stringers and blebs, with massive pyrrhotite sections becoming more abundant. Pyrite, on average, is found from trace 3%, with trace - 10% local pyrrhotite.	68270	235.0	237.0	2.0	
		195.5 - 198.0; Zone of intense silicification, has turned the basalts to bluish grey, cherty zones. Trace amounts of fine disseminated pyrite are noted.	68271	237.0	239.0	2.0	
		210.5 - 211.5; Zone of intense silicification with 1 - 2% pyrite. Weak chloritization is noted around the pyrite zones.	68272	239.0	241.0	2.0	
		215.0 - 247.0; Basalts are now moderate - strongly mineralized, predominantly by large zones of massive pyrrhotite. Pyrrhotite zones ranging in core length from 2" to 1.5". Pyrrhotite is commonly found in layers from 5 - 20% T.C.A., with other sections containing fragments of basalt in a pyrrhotite matrix.	68273	241.0	242.0	1.0	
		Pyrite is found as fine, random veinlets, irregular blebs, and finely disseminated pyrite cubes. Pyrite, locally, may exceed 5%, white pyrrhotite is noted up to 50-60%.	68274	245.0	247.0	2.0	
		Moderate pervasive silicification with weak calcite veining is noted. Chloritization occurs along chlorite slips and curvilinear veinlets.					
		Minor sphalerite is noted @ 241.0'.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
247.0	296.0	DIABASE	Rock is the same as interval 162.0 - 189.0. Diabase is massive, medium grained, grey in colour.	68275	296.0	297.0	1.0	
				68276	315.0	316.5	1.5	
				68277	331.0	334.0	3.0	
				68278	334.0	337.0	3.0	
			Rock contains 5% euhedral amphibole grains in a matrix of plagioclase, mafic mineral (chlorite). Rock is very weak carbonatized with fine calcite veinlets.	68279	337.0	340.0	3.0	
296.0	367.0	INTERMEDIATE VOLCANICS	Zone is characterized by intense alteration. The zone exhibits intense pervasive silicification. Rock is aphanitic in character, ranging in colour from tan to grey.					
			Sections of graphitic material are present, and also show intense pervasive silicification. Graphitic zones occur @ 296.0 - 297.0 307.5 - 308.5 312.0 - 313.5 315.0 - 317.0					
			Graphitic zone commonly contain small pyritic stringers which run parallel to foliation @ 60 - 80° T.C.A. Pyrite content varies from 1% - 3% in these zones.					
			Alteration varies in type and degree, and changes abruptly over the section. Minor sections of weakly silicified volcanic (basalt) are fine grain, massive grey-black sections. These sections are scarce and occur as isolated pods within more altered sections.					
			Siliceous sections are cherty in appearance and vary in colour depending on chlorite and calcite amounts. Intense silicification gives the rock a tan to beige colour.					

From To
(ft) (ft)

Sample From To Width Au
No. (ft) (ft) (ft) (ppb)

cont'd

Calcite alteration is spotty, but locally may be very strong, turning the volcanics to light brownish green in colour.

68280 360.0 362.0 2.0
68281 405.0 409.0 3.0

Chlorite occurs along random fractures and in areas of calcite veining, but is generally weak in nature.

Minor layering is noted in the cherty zones with offsets along layers as frequently found. Trace disseminated pyrite is found in the zone.

Spotty calcite alteration in subrounded spots gives the rock a porphyroblastic texture with large reaction rims around the calcite grains. 361.0 - 361.5; Zone of intense silicification which have undergone brecciation: Zone consists of silicified fragments, in a chlorite, calcite matrix. Zone contains fine grain, disseminated pyrite. Sulphide mineralization forms 1%.

367.0 414.0 DIORITE
MONZONITE

Rock is medium grained, weakly foliated grey diorite-monzonite. Rock contains 20 - 25% lath shaped, euhedral amphibole grains. Amphibole are in a matrix of plagioclase. Small basalt fragments are noted with fragments up to 1" in length. Fragments are weakly chloritized scattered plagioclase phenocrysts, with fragments up to 1/4".

Alteration consists of weak fracture controlled calcite and epidote veining. Some of the calcite veinlets are up to 1". Zones of moderate pervasive hematization are found with small zones of hematite staining along fractures. Trace amounts of blebby pyrite are noted.

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
414.0	465.0	BASALTS	414.0 - 422.0; Basalts are fine grained mafic volcanics, which exhibit weak spotty calcite alteration, but show moderate - locally intense pervasive silicification. Rock is light yellowish-green in colour. Fractures in the zone contain fine chloritic slips. Trace amounts of blebby-layered pyrite are noted, locally reaching 3%.	68282	416.0	418.0	2.0	
			422.0 - 460.0; Basalt now show granular texture and are green to greyish green in colour. Basalts now show moderate to strong pervasive calcite alteration, but lack and strong silicification. Sections of the core have strong salt and pepper texture, with large, euhedral plagioclase phenocrysts up to $\frac{1}{4}$ " in length. Matrix is strongly chloritic and also exhibits strong pervasive calcite alteration. Trace amounts of fine pyrite are noted.	68283	463.0	465.0	2.0	
			460.0 - 465.0; Rock now exhibits strong pervasive silicification. Rock is very fine grained, greyish white in colour. Chloritization is weak, and occurs as fine fracture fillings. Very weak fracture controlled calcite alteration is noted. Trace pyrite is noted.					
465.0	500.0	DIABASE	Rock is medium grained - fine grain, massive diabase. Rock is grey to greenish grey and is weakly magnetic. Hornblende grains and plagioclase grains are fine, so percentages of each are not easily determined. Hornblende grains show random orientations, and are euhedral and black in colour.					

From To
(ft) (ft)

Sample From To Width Au
No. (ft) (ft) (ft) (ppb)

cont'd

Alteration is weak, consisting of weak fracture controlled calcite and epidote alteration. Epidote veins are up to 1" in width, white calcite veinlets are fine hairline veinlets.

Weak spotty to blebby chlorite alteration is noted.
Trace pyrite is encountered.

E.O.H.

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hoie No: 1316-50

Property: Tyranite	NTS:	Township: Tyrrell
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG 5805	Coordinates: L8+00S; 3+50W
Azimuth: 090°	Dip: -50°E	Length: 500.0'
Logged By: D. Pilkey	Casing: 6 - 3.0'	Elevation:
Date Started: November 7, 1987	Date Completed: November 10, 1987	Date Logged: November 11, 1987
Core Size: BQ	Core Location: Tyranite Mine	Samples Shipped:
Drill Company: Bill Link	Overburden:	Checked: D. Pilkey Jan. 6, 1988

Acid Dip Tests

1. Collar -50°E 250.0' -50°E 2. 500.0' -53°E

Purpose To evaluate combined IP-geochemical anomaly.

Conclusions Significant Intersection: 398 to 401; 3 ft @ 0.124 oz gold/ton.

PRELIMINARY

NORWIN RESOURCES LIMITED
DIAMOND DRILL LOG

Hole No: 1316-50

From (ft)	To (ft)	Drill Hole Summary	
		Sample #'s	53990 - 54000 ; 56973 - 56990
0	3.0	CASING	
3.0	372.0	ULTRAMAFIC	Moderate to strong serpentine, talc and chlorite alteration. Small asbestos veinlets.
372.0	464.0	FELDSPAR PORPHYRY	372.0 - 422.0 Alteration of calcite, chlorite pyrite up to 1 - 2%. 422.0 - 440.0 Unaltered porphyry. 440.0 - 464.0 Strong calcite, hematite alteration trace pyrite.
464.0	500.0	DIABASE	Unaltered.

NORWIN RESOURCES LIMITED
DIAMOND DRILL LOG

Hole No: 1316-50

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	3.0	CASING					
		Rock consists of very fine grain, massive to weakly foliated ultramafic rock. Rock is very dark green to black in colour, with an extremely soft, greasy feel. Rock exhibits intense fracturing and moderate to very strong pervasive and fracture controlled alteration.	53990	22.0	25.0	3.0	
		Rock exhibits moderate pervasive chlorite alteration with spotty zones of talc alteration. Fracture controlled serpentine and talc are also noted. Serpentine veinlets are up to 1/4" in width and running @ 60° T.C.A.	80500	25.0	28.0	3.0	
			80501	28.0	30.0	2.0	
			80502	30.0	32.0	2.0	26
			80503	32.0	35.0	3.0	5
			80504	35.0	38.0	3.0	12
			80505	38.0	41.0	3.0	5
			80506	41.0	43.0	2.0	5
			80507	43.0	45.0	2.0	5
			53991	45.0	48.0	3.0	5
			53992	85.0	88.0	3.0	6
		Ultramafics contain numerous, fine serpentine fracture fillings, randomly oriented throughout the rock. Many of the veinlets also are abundant in asbestos. Asbestos is fibrous (crystotile?).	53993	152.0	155.0	3.0	5
		Rock is very strongly magnetic, with fine euhedral magnetite noted.	53994	193.0	195.0	2.0	5
		Rock has a weakly developed, primary texture still noticeable in sections. Texture consists of small fractured olivine grains, now altered with serpentine and chlorite.	53995	255.0	258.0	3.0	5
		320.0 - 324.0; Ultramafic rocks become much more siliceous, with colours being light - greenish grey. Rock in this section probably has an andesitic composition.	53996	272.0	275.0	3.0	5
		Rock exhibits weak calcite veining, lacking talc and serpentine alteration. Minor foliation controlled chlorite is found.	53997	353.0	355.0	2.0	5
		353.0; A zone of moderate silicification is present. Rock consists of numerous, small grayish white silica blebs and nodules in a matrix of chlorite, talc and minor calcite.	53998	361.0	363.0	2.0	5
		Blebs are up to 3" in length, and form 50% of this small zone.	53999	363.0	365.0	2.0	5
			54000	365.0	367.5	2.5	8

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd	56973	395.0	398.0	3.0	550
		361.0 - 365.0; This section contains numerous random talc, possible chrome mica zones along fracture planes. Veins are all very fine hairline. Moderate veinlet controlled calcite is also present.	56974	398.0	401.0	3.0	4260
			56975	401.0	404.0	3.0	140
			56976	404.0	407.0	3.0	366
			56977	407.0	410.0	3.0	50
		365.0 - 367.5; Zone now lacks green mica, but exhibits very strong fracture controlled calcite veining. Veinlets may reach 1/2".	56978	410.0	413.0	3.0	245
			56979	413.0	416.0	3.0	105
			56980	416.0	419.0	3.0	7
			56981	419.0	422.0	3.0	644
372.0	464.0	FELDSPAR PORPHYRY					
		372.0 - 422.0; Porphyry is strongly altered, fine grained light grey in colour. Rock is weakly foliated and only has very poorly developed porphyritic texture.					
		Alteration consist of weak calcite alteration, in form of fine calcite veinlets and weak-moderate pervasive calcite alteration.					
		Chloritization varies from very weak to moderate and occurs as small chlorotic slips and small irregular blebs.					
		Phenocrysts present are slightly elongate and small, with sizes up to 1/16". Phenocrysts are moderately chlorotic, dark green in colour.					
		Trace amounts of fine pyrite are observed, usually marked by weak hematization.					
		422.0 - 440.0; Porphyry texture is now well developed. Rock contains 35% rounded, greenish white plagioclase phenocrysts. Matrix consists of fine grain chlorite, weak calcite with possible plagioclase.					
		Alteration consists of weak pervasive chlorite and calcite, with moderate foliation controlled chlorite slips.					
		Trace amounts of pyrite are noted, as fine disseminated euhedral grains.					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
			56982	437.0	440.0	3.0	48
			56983	440.0	443.0	3.0	15
			56984	443.0	446.0	3.0	34
			56985	446.0	449.0	3.0	15
			56986	449.0	452.0	3.0	22
			56987	452.0	455.0	3.0	91
			56988	455.0	458.0	3.0	41
			56989	458.0	461.0	3.0	22
464.0	500.0	DIABASE	56990	461.0	464.0	3.0	105

E.O.H.

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hole No: 1316-29

Property: Tyranite	NTS:	Township: Tyrrell
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG 5805	Coordinates: L15+00S; 4+50W
Azimuth: 090°	Dip: -50°E	Length: 500.0'
Logged By: D. Pilkey	Casing: 1.0'	Elevation:
Date Started: October 20, 1987	Date Completed: October 23, 1987	Date Logged: October 25, 1987
Core Size: BQ	Core Location: Tyranite	Samples Shipped:
Drill Company: Bill Link	Overburden:	Checked: J. McAuley Dec. 11/87

Acid Dip Tests

1. 250' - 52°

2. 500' - 53°

Purpose To evaluate South Pod Lens.

Conclusions Significant Intersection: 161.5 to 164.0; 2.5 ft. @ 0.036 oz gold/ton
327.8 to 329.5; 1.7 ft. @ 0.034 oz gold/ton

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

Hole No: 1316-29

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	1.0	CASING					
1.0	10.0	DIABASE					
		Rock is fine to medium grained, weakly foliated and weak to moderately altered. Rock consists of 5% euhedral, black hornblende grains up to 3 mm in length. Plagioclase forms the interstitial mineral between the hornblendes as well as finer grain hornblende. Matrix is very fine grain, and may contain quartz? Trace amounts of very fine grain pyrite are noted.	130194	10.0	13.0	3.0'	67
		Alteration consists of very weak spotty calcite, with weak foliation and fracture controlled calcite veinlets, all 2 mm in width. Minor spotty chlorite is noted. Minor hematite along fractures is noted.	130195	13.0	16.0	3.0'	15
			130196	16.0	19.0	3.0'	13
			130197	19.0	22.0	3.0'	13
			130198	22.0	25.0	3.0'	8
10.0	182.5	BASALT					
		Rock consists of weakly foliated to massive mafic volcanics. Rock is fine grain to aphanitic, dark green to black.					
		Alteration consists of weak fracture controlled calcite veinlets and zones of strong pervasive calcite alteration. Strong calcite alteration is marked by a colour change from green to grey. Larger calcite veins show brecciation of volcanic rocks.					
		Basalts show moderate pervasive and fracture controlled chloritization, with fracture controlled chloritization frequently noted.					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
		Sulphide mineralization occurs as fine fracture fillings of brassy pyrite. Stringers are up to 1/8" in width, and locally may form 3% of zone, but on average are less than 1% of basalts.	130199	25.0	28.0	3.0'	17
			130200	28.0	31.0	3.0'	9
			130201	31.0	34.0	3.0'	27
			130202	41.0	44.0	3.0'	990
		41.5'; Large milky white calcite vein running @ 60° T.C.A. Veinlet is 2" in width, and contains chloritized basalt fragments. Fragments are up to 1/2" long, but form 5% of vein. Hanging wall side of vein contains 5% fine euhedral pyritic layers.	130203	48.0	51.0	3.0'	100
			130204	51.0	53.0	2.0'	16
			130205	72.0	75.0	3.0'	8
			130206	97.5	101.0	3.5'	16
			130207	101.0	104.0	3.0'	12
		43.0; Basalts from 43.0 on show weak, hairline calcite veining forming 2% of zone. Zone commonly contains from trace - 2% local accumulations of blebby pyrite and fine pyritic stringers.	130208	104.0	107.0	3.0'	14
			130209	115.0	116.0	1.0'	48
			130210	116.0	118.0	2.0'	133
			130211	118.0	121.0	3.0'	176
		115.0'; Section contains two subparallel calcite veins running @ 45° T.C.A. Veins are 1/2" and 1" respectively. Basalt contacts show weak chloritization. Both veins contain 1%, small rounded basalt fragments. Fragments are all 1/4" in length. One large bleb of chalcopyrite is noted in the larger vein.					
		125.5'; Series of several small calcite veinlets running @ 45-60° T.C.A. Veinlets range in size from hairline veinlets to 1/2". Veinlets are milky white in colour, with slight greenish colour near contact with basalts. Trace amounts of fine disseminated and minor blebby pyrite occur in the veinlet.					
		146.0 - 157.0; Basalts show zones of blebby silicification and carbonatization, marked by a change in colour from dark green to light grey. Contacts between less altered basalt is quite sharp. Fine blebby and stringer pyrite is still noted, up to 2%.					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb) <i>0.2</i>	
	cont'd							
	157.0	'	159.0; Basalts now show intense pervasive silicification. Rock has changed in colour from dark green to greyish green. Rock is now very fine grain to aphanitic (almost cherty in appearance). Rock also exhibits a weak fracture controlled calcite alteration with spotty zones of strong hematization. Minor fracture controlled chlorite is also present. Trace amounts of fine euhedral pyrite are noted.	130212	121.0	124.0	3.0'	132
				130213	124.0	126.0	2.0'	19
				130214	126.0	129.0	3.0'	179
				130215	134.0	136.0	2.0'	10
				130216	149.0	151.0	2.0'	9
				130217	154.5	157.0	2.5'	10
				130218	157.0	159.0	2.0'	9
				130219	159.0	161.5	2.5'	6
				130220	161.5	164.0	2.5'	1229 <i>0.031</i>
				130221	164.0	166.5	2.5'	19
	161.5	-	164.0'; Basalts are now fine grain, light to dark green in colour, and are strongly foliated @ 75° T.C.A. The zone is characterized by a strong foliation controlled calcite veinlets. Zone also shows moderate chlorite alteration along slips parallel to foliation direction. Minor blebby silicification is noted. Pyrite is brassy yellow to brown in colour and occurs as fine foliation controlled pyrite stringers and elongate pyrite blebs. Pyrite forms 2-3% of zone.	130222	166.5	169.0	2.5'	27
				130223	169.0	170.0	1.0'	157
				130224	170.0	172.0	2.0'	8
				130225	178.0	180.0	2.0'	5
				130226	180.0	182.5	2.5'	22
	164.0	-	169.0; Basalts contains 1-2% fine calcite stringers running @ 70-80° T.C.A. Weak silicification is noted.					
	169.0	-	169.8; Same as interval 161.5 - 164.0. Foliated basalts contain 3-5% foliation controlled pyrite mineralization.					
	176.0	-	182.5; Basalts now show an increase in blebby and fine fracture controlled calcite veinlets. Pyrite is noted as irregular veinlets and blebs, ranging from trace to 2%. Last 3.0' show a strong pervasive calcite alteration with moderate fracture controlled chlorite slips.					

From (ft)	To (Ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
182.5	197.0	FELDSPAR PORPHYRY	<p>Rock consists of medium grained, weakly foliated feldspar porphyry. Alteration of zone is variable with strongest alteration zones lacking feldspar phenocrysts.</p> <p>Relatively unaltered zones contain 1-3%, subhedral, greenish white plagioclase phenocrysts. Phenocrysts are up to 1/8" in width, and are found in a fine matrix of plagioclase, fine euhedral hornblende grains. Alteration is characterized by weak chloritization and fine calcite stringers along fracture. Porphyry exhibits moderate to intense pervasive calcite alteration. Trace to 1% fine euhedral pyrite is noted.</p> <p>More intense calcite alteration and possible silicification produce a very fine matrix with no visible plagioclase phenocryst. Minor epidote alteration along fractures is noted.</p>	130227	182.5	185.0	2.5'	22
				130228	185.0	187.5	2.5'	68
				130229	187.5	190.0	2.5'	5
				130230	190.0	193.0	3.0'	7
				130231	193.0	195.0	2.0'	7
				130232	195.0	197.0	2.0'	<5
197.0	214.0	BASALTS (ALTERED)	<p>Zone consists of fine grain, moderate to strongly foliated mafic volcanics. Rock is grey to green in colour.</p> <p>Alteration consists of moderate to strong pervasive calcite and moderate fracture controlled calcite veining.</p> <p>Chlorite is found as irregular blebs and foliation controlled chlorite slips. Silicification is very localized, with basalts being grey in strongly siliceous areas. Weak brecciation is found in zones of largest calcite veins. Some calcite veins reach 1" in width. Breccias contain 60% angular fragments.</p> <p>Trace amounts of fine pyrite are noted.</p>					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
214.0	239.0	DIABASE	<p>Rock is fine grain, massive to weakly foliated @ 70° T.C.A. Composition is difficult to determine due to fine grain nature and alteration. Rock is moderately magnetic with magnetite crystals being the coarsest grain.</p> <p>Alteration is found as moderate pervasive calcite and weak calcite veinlets. Chloritization is present as fine slips running subparallel to calcite foliation directions. Intense calcite veining occurs @ 227.0.</p> <p>Minor epidote along fractures is also found. Trace pyrite is scattered through zone.</p>	130233	197.0	200.0	3.0'	9
				130234	200.0	203.0	3.0'	8
				130235	203.0	206.0	3.0'	145
				130236	209.0	212.0	3.0'	7
				130237	212.0	214.0	2.0'	<5
				130238	214.0	217.0	3.0'	<5
				130239	226.0	228.0	2.0'	8
				130240	240.8	242.6	1.8'	<5
				130241	254.0	255.5	1.5'	8
				130242	255.5	258.0	2.5'	6
				130243	266.0	268.0	2.0'	<5
239.0	248.0	BASALT?	<p>Rock is fine grain, dark green, black to grey. Rock is weakly foliated. Alteration consists of moderate pervasive chloritization with weak to moderate pervasive calcite.</p> <p>240.8 - 241.5; Small calcite veinlet runs @ 10° T.C.A. and is accompanied by strong hematite alteration along contacts with basalt. Trace amounts of blebby pyrite are noted.</p>					
248.0	276.0	DIORITE	<p>Rock is medium grained moderately well foliated diorite. Rock is greenish grey to orange in colour. Composition of the diorite is about 20% euhedral hornblende grains, with 60-80% plagioclase. Some zones appear to have alkali feldspar, although zones of strong hematization may appear to contain alkali feldspar.</p> <p>Small rounded basalt fragments form 2% of rock. Alteration consists of weak pervasive and fracture controlled calcite veining. Minor chlorite is noted as alteration of hornblende, and as fine fracture controlled slips. Weak to strong hematite is noted.</p>					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd	A small zone of intense chloritization and strong calcite alteration occur from 254.0 - 255.5. All primary texture is gone. Zone may be a strongly altered basalt fragment.	130244	276.0	279.0	3.0'	19
				130245	279.0	282.0	3.0'	8
				130246	282.0	285.0	3.0'	6
				130247	285.0	288.0	3.0'	7
				130248	288.0	291.0	3.0'	20
276.0	338.9	BASALTS	Rock consists of weakly foliated greenish grey mafic volcanics. Rock has a very granular appearance and is characterized by intense pervasive calcite with weak fracture controlled calcite veinlets. Some veinlets contain finely disseminated pyrite along the contacts. Fracture controlled chlorite alteration is noted as thin slips and occasional blebs. Pyrite is found concentrated along fine calcite veinlets but does not exceed 2% locally. Zones are weakly magnetic. Local zones of intense silicification are infrequently noted. Zones contain 1% fine fracture filled with pyrite.	130249	291.0	294.0	3.0'	12
				130250	294.0	297.0	3.0'	7
				130251	297.0	300.0	3.0'	<5
				130252	300.0	303.0	3.0'	9
				130253	303.0	305.0	2.0'	<5
				130254	305.0	307.0	2.0'	8
				130255	307.0	309.0	2.0'	7
				130256	309.0	311.0	2.0'	14
			311.0 - 338.9; (Mineralized Zone). Rock consists of mineralized, fine grain mafic volcanics. Host rock is moderately foliated, and strongly altered basalt. Basalts are green to grey in colour. Foliations run @ 60° T.C.A. and control calcite veining, quartz veinlets and chlorite alteration. Calcite alteration is the strongest being present as a strong pervasive carbonatization and as moderate fracture controlled calcite veinlets. Veinlets are milky in colour up to 2" in length. Small, irregular calcite blebs are also noted locally. Chloritization is present as fine fracture controlled chlorite slips and small chlorite blebs. It also appears as weak moderate pervasive chloritization in small local pods throughout zone.					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
		Weak veinlet controlled silicification with moderate pervasive silicification are noted throughout basalts.	130257	311.0	314.0	3.0'	305
		Small offsets are noted in the calcite veinlets, commonly cutting the veinlets at right angles.	130258	314.0	317.0	3.0'	258
		The basalts are strongly mineralized by the presences of fine euhedral crystals of brassy brown to yellow pyrite.	130259	317.0	320.0	3.0'	111
		Small clusters of cubes are common throughout zone and are normally associated with calcite veinlet contacts. Pyrite accumulations through the zone may locally reach 50%, in fine foliation controlled layers. Pyrite also occurs as small dendritic fracture fillings of fine grains. Sulphide rich basalts always show intense calcite alteration which change the basalts from green to metallic grey. Sulphide (pyritic) zones in this way are highlighted from surrounding basalts.	130260	320.0	323.0	3.0'	136
			130261	323.0	326.0	3.0'	857
			130262	326.0	327.8	1.8'	951
			130263	327.8	329.5	1.7'	1159
			130264	329.5	332.0	2.5'	266
			130265	332.0	335.0	3.0'	81
			130266	335.0	337.0	2.0'	124
			130267	337.0	338.9	1.9'	51
338.9	376.5	DIABASE					
		Diabase is fine grained, moderately altered, massive in character. Rock is dark grey to black in colour. Rock appears to be rich in fine euhedral hornblende grains. Rock has well developed diabasic texture in sections, and is strongly magnetic.	130268	338.9	341.9	3.0'	10
		Altered sections of the diabase become finer grained, less diabasic and non-magnetic.	130269	341.9	344.9	3.0'	<5
		Alteration consists of weak pervasive chloritization with small slips of fracture controlled, black chlorite noted. Blebs of chloritized hornblende give sections of rock a porphyroblastic texture.	130270	344.9	346.9	2.0'	<5
		Very weak, spotty calcite is also apparent, with weak fracture controlled calcite forming up to 10% in local sections. Epidote alteration is also very weak and is always associated with calcite veins.	130271	358.0	360.0	2.0'	8
		Trace amounts of fine euhedral pyrite are noted.	130272	366.0	367.5	1.5'	<5

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd	367.0' Diabase contains moderate fracture controlled epidote veinlets, with weak calcite veinlets.					
376.5	383.0	BASALT? ALTERED ZONE	Rock is moderate to strongly foliated mafic volcanics? Alteration is so strong that it may be a strongly altered section of diabase. Rock is fine grain, green to greyish black in colour. Alteration consists of moderate - strong localized fracture controlled calcite. Weak zones of strong spotty silicification give the rock a light grey to beige colour. Chloritization is found throughout zone, as weak pervasive alteration and zones of moderate foliation controlled chlorite and small chloritic blebs. 379.5; A small section of intense calcite veining and calcite blebs occurs. Chlorite is common as fine fracture controlled slips along veinlet contacts.	130273	376.5	379.0	2.5'	37
				130274	379.0	380.0	1.0'	988
				130275	380.0	383.0	3.0'	397
				130276	414.0	416.0	2.0'	19
383.0	446.0	DIABASE	Same as interval 338.9 - 376.5, rock is medium grain, massive and strongly magnetic. Very weak, thin calcite stringer and spotty calcite is noted. Minor fracture controlled epidote alteration and trace amounts of blebby pyrite are found.					
446.0	500.0	FELDSPAR PORPHYRY	Rock consists of both massive, weakly altered porphyry and moderately foliated, strongly altered sections. Unaltered porphyry contains 10-20%, subhedral white plagioclase phenocrysts. Phenocrysts show spotty hematite alteration, and are supported by a very fine grain matrix of plagioclase and chloritized mafic minerals. Grain size is too fine to determine composition. Weak fracture controlled chlorite and very weak calcite is also noted. Trace amounts of pyrite are noted.	130277	446.0	449.0	3.0'	32
				130278	449.0	452.0	3.0'	14
				130279	452.0	455.0	3.0'	5
				130280	455.0	458.0	3.0'	5
				130281	463.0	466.0	3.0'	7
				130282	474.0	476.0	2.0'	19
				130283	476.0	479.0	3.0'	18
				130284	479.0	481.0	2.0'	15
				130285	481.0	482.0	1.0'	29
				130286	482.0	485.0	3.0'	13
				130287	485.0	488.0	3.0'	6

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
	cont'd	446.0 - 456.0; Porphyry now lacks plagioclase phenocrysts although relict porphyry texture is weakly visible. Small calcite veinlets along fracture planes are now visible, with veinlets noted to 1/4". Locally sections contain small potassic rich lens and discontinuous veinlets. These areas also show moderate to strong calcite alteration.	130288	488.0	491.0	3.0'	8
			130289	491.0	494.0	3.0'	9
			130290	494.0	497.0	3.0'	<5
			130291	497.0	500.0	3.0'	<5
		Chlorite is found as fine fracture fillings and irregular blebs. Chloritization is moderately pervasive.					
		@ 454.6; Zone of intense carbonatization, with white-pink and purple calcite veinlets form 35% of zone. Minor chlorite is also present.					
		481.0 - 497.0; Porphyry contains smaller plagioclase phenocrysts exhibiting a fine dark green matrix of chloritized mafic minerals? Weak fracture controlled calcite veinlets are also present.					
		497.0 - 500.0; Zone of moderately calcite altered and strong pervasive hematite alteration.					

E. O. H.

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hole No: 1316-30

Property: Tyranite	NTS:	Township: Tyrrell
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG5805	Coordinates: L15+00S, 4+50W
Azimuth: 090°	Dip: -70E	Length: 226.4'
Logged By: D. Pilkey	Casing: 0 - 1.0'	Elevation:
Date Started: October 23, 1987	Date Completed: October 24, 1987	Date Logged: November 11, 1987
Core Size: BQ	Core Location: Tyranite	Samples Shipped:
Drill Company: Bill Link	Overburden:	Checked: D. Pilkey Jan. 6, 1988

Acid Dip Tests

1. No tests taken.
-

Purpose To evaluate South Pod Lens.

Conclusions Hole lost @ 226.4'.
Significant Intersection: 171 to 174; 3 ft. @ 1.653 oz gold/ton.

NORWIN RESOURCES LIMITED
DIAMOND DRILL LOG

Hole No: 1316-30

From (ft)	To (ft)	Drill Log Summary	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		SAMPLE #'s 65579 - 65600 ; 65801 - 65823					
0	0.9	CASING					
0.9	11.5	DIABASE -weak chlorite and calcite alteration					
11.5	183.7	BASALTS -weak calcite and chlorite alteration, weak pervasive - spotty silicification; trace 20% pyrite					
		(mineral- ized) 12.7 - 56.7; trace - 20% blebby pyrite; mod- erate silicification					
		73.0 - 95.0; strong pervasive silicification; weak calcite and hematite					
		120.0; milky white quartz-calcite vein					
		126.0 - 127.0; small quartz-calcite vein					
		(weak mineral- ilized) 145.0 - 160.0; moderate calcite veining, strong silicification -trace - 5% pyrite					
183.7	206.0	FELDSPAR PORPHYRY 184.0 - 192.0; moderate pervasive calcite, intense pervasive silicification - no sulphides					
206.0	226.4	BASALT -weak fracture controlled calcite. Trace 1% fine pyrite.					
		Hole Lost at 226.4					

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

Hole No: 1316-30

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	0.9	CASING (0/B)					
0.9	11.5	DIABASE					
		Mottled "charcoal" grey medium grained diabase; Unit is spotted or "freckled" with black chlorite podular blebs throughout; diabase is transected weakly by milky white calcite veinlets and stringers;	65579	6.2	9.2	3.0	8
			65580	12.7	16.7	4.0	7
			65581	16.7	20.7	4.0	13
			65582	20.7	24.7	4.0	13
			65583	24.7	28.7	4.0	17
			65584	28.7	32.7	4.0	7
11.5	183.7	MAFIC VOLCANICS BASALT					
		Dark greyish-green aphanitic mafic volcanic sequence; sequence is relatively homogeneous throughout with respect to colour, grain size, and texture;	65585	32.7	36.7	4.0	<5
			65586	36.7	40.7	4.0	39
			65587	40.7	44.7	4.0	<5
			65588	44.7	48.7	4.0	5
		Alteration to unit with weak to moderate consisting of milk-white carbonaceous threads, strings and wedge-shaped blebs occurring regularly; matrix appears to be only weakly calcareous if at all; less frequent are pale green to cream coloured elliptical epidote-enriched calcitic veinlets that cut across core axis; Also discernable on core surface are relic chloritic threads that are now differently eroded fissures.	65589	48.7	52.7	4.0	<5
			65590	52.7	56.7	4.0	<5
		SULPHIDE ZONE (12.7-56.7)					
		SULPHIDES: sulphide mineralization in the form of pale-brassy yellow pyrite is common throughout unit but is more concentrated in certain sectors of the andesite; the pyrite is most prevalent as pods and lenses of localized anhedral-subhedral crystals and as interstitially filled pyritic strings; also evident are disseminated pyritic flecks and blebs.					

From (ft)	To (ft)	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
73.0'	95.0'	65591	68.0	70.0	2.0	< 5
		65592	70.0	73.0	3.0	8
		65593	73.0	76.0	3.0	15
		65594	76.0	79.0	3.0	6
		65595	79.0	82.0	3.0	30
		65596	82.0	85.0	3.0	7
		65597	85.0	88.0	3.0	19
		65598	88.0	91.0	3.0	22
		65599	91.0	93.0	2.0	9
		65600	93.0	95.0	2.0	6
		65801	120.0	122.0	2.0	17
		65802	122.0	125.0	3.0	6
		65803	125.0	127.0	2.0	9

120.0': Small milky white quartz-calcite veinlet runs at 60° T.C.A. Weak brecciation of basalts is noted in veinlet. No sulphide mineralization is noted.

126.0' - 127.0': Small calcite-quartz vein running at 10° T.C.A. Small basalts fragments are noted in the veinlet. Fragments are up to 1" in length. No mineralization is found.

Minor amounts of pyrite mineralization are found from 134.0 - 145.0. Pyrite occurs as small randomly fracture fillings of brassy yellow veinlets or discontinuous blebs. Sulphide mineralization doesn't exceed 1% locally.

145.0' - 160.0': Pyrite mineralization is much more abundant, reaching 5% locally. Pyrite continues to be found in fracture controlled veinlets and irregular blebs. All are contained in a weakly developed foliation

direction of 45 - 60° T.C.A. A large veinlet, 1/4" in width contains massive pyrite. Zone continues to show brecciation along fine calcite veinlets.

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
156.5'	174.0'	Basalts show strong pervasive silicification, giving the basalts a light greyish green colour. Blebs of moderate chloritization are noted by a dark green colouring, and lack silicification. Chlorite also occurs as small foliation controlled slips, giving the rock a banded appearance. Larger quartz-calcite veinlets running at 70° - 75° T.C.A. are noted. Veinlets are up to 1" in width and have a milky white colour. Intense pervasive silicification occurs from 171.0' - 174.0'. Fractures in this zone contain small chlorite slips. Siliceous basalts have cherty appearance. Small foliation controlled pyrite stringers are still apparent.	65804	127.0	130.0	3.0	14
			65805	130.0	132.5	2.5	<5
			65806	132.5	135.0	2.5	8
			65807	140.0	143.0	3.0	<5
			65808	143.0	145.0	2.0	7
			65809	145.0	148.0	3.0	31
			65810	148.0	151.0	3.0	25
			65811	151.0	154.0	3.0	18
			65812	154.0	157.0	3.0	16
			65813	157.0	160.0	3.0	13
			65814	171.0	174.0	3.0	56673
			65815	174.0	176.5	2.5	433
			65816	176.5	179.0	2.5	77
			65817	179.0	181.5	2.5	177
			65818	181.5	184.0	2.5	84
		65819	184.0	187.0	3.0	28	
		65820	187.0	189.5	2.5	69	
		65821	189.5	192.0	2.5	10	
		65822	203.0	206.0	3.0	44	
183.7'	206.0'	FELDSPAR PORPHYRY					
		Rock consists of moderately altered, feldspar porphyry. Rock is weakly foliated, light greenish grey in colour. Porphyry texture is not present in zone from 184.0' - 192.0' due to alteration.					
		184.0' - 192.0': Porphyry is now a groundmass of fine grained chlorite and calcite. Primary mineralogy is no longer present. Rock has a sugary texture due to calcite abundance. Small chlorite fracture fillings are frequently observed. Section from 187.0' - 189.0' exhibits intense pervasive silicification giving the rock a cherty appearance. Moderate pervasive calcite with weak fracture controlled calcite veining is common in this section.					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
206.0'	226.4'	MAFIC VOLCANICS	65823	221.0	223.0	2.0	134

Rock consists of massive to very weakly foliated black mafic volcanics. Rock contains 3 - 5%, anhedral, greenish white plagioclase phenocrysts. Phenocrysts are up to 1/2" in length. Alteration is present as weak fracture controlled calcite veinlets at 45° - 70° T.C.A. Veinlets are up to 1/4" in width. Weak brecciation along veinlets is noted. Sulphide mineralization occurs as small pyritic stringers up to 1% of zone (locally). Veinlets are subparallel to calcite veinlets.

HOLE LOST
 AT 226.4'
 RESTARTED
 AT H-1316 -30B

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hole No: 1316-30B

Property: Tyranite	NTS:	Township: Tyrrell
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG5805	Coordinates: L15+00S, 4+50W
Azimuth: 090°	Dip: -70°	Length: 600.0'
Logged By: D. Pilkey	Casing: 2'	Elevation:
Date Started: October 24, 1987	Date Completed: October 27, 1987	Date Logged: October 28, 1987
Core Size: BQ	Core Location: Tyranite	Samples Shipped:
Drill Company: Bill Link	Overburden:	Checked: J. McAuley Dec. 11/87

Acid Dip Tests

1. Collar -70°E	200.0'	-70°E	400.0'	-71°E	2. 600.0'	-72°E
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Purpose To evaluate South Pod Lens.

Conclusions No significant intersections.

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

Hole No: 1316-30B

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	13.4	DIABASE	65421	13.4	16.4	3.0	Nil
			65422	16.4	19.4	3.0	Nil
13.4	181.0	BASALT					

Rock is fine to medium grained, weakly foliated to massive diabase. Rock shows weak alteration, all of which is fracture and foliation controlled. Diabase contains 5% euhedral black hornblende grain. Grains show no preferred orientation, and lack alteration. Hornblendes are supported by a fine matrix of mafic minerals including chlorite and plagioclase. This gives the rock a dioritic composition. Weak diabasic texture is noted. Alteration consists of very weak calcite veining up to 1/8" in width. Some of the veinlets show weak spotty hematization but no visible sulphide mineralization is found. Very weak chloritization is also noted as small blebs and spotty fracture controlled slips.

Rock is very fine grain, massive to very slightly foliated, mafic volcanics. Rock is black to dark green in colour. Alteration in the basalts consists of very weak calcite alteration, primarily as hairline veinlets. Veinlets may be up to 1/8", and show random orientations. Very weak, local zones of pervasive chloritization are found, rocks in the area are generally green in colour. Strong pervasive silicification (possible baking of basalts) gives them a light grey to black colour. These zones have a very flinty character. Minor amounts of blebby white, free quartz are noted.

From (ft)	To (ft)	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
	cont'd					
	Scattered zones of fracture controlled pyrite and blebby pyrite, chalcopyrite are noted. Pyrite is brassy, yellow, with stringers all 1/8" in width, blebs may reach 1/2" in diameter. Pyrite abundance varies from trace to 5% locally. Chalcopyrite occurs as sparse green yellow grains forming up to 1% locally.	65423	25.0	26.5	1.5	Nil
	25.0' - 26.5'; Zone is typical fine grained, weakly chloritic and carbonatized basalts. Zone contains 5% fine blebby and thin fracture controlled pyrite. Sulphides form a spider-web type pattern in this section.	65424	45.0	48.0	3.0	Nil
	59.0'; Small zone of brecciation, extends over 2", consisting of basalt fragments up to 1" in width. Fragments are subangular in appearance and exhibit moderate silicification. Fragments form 50% of vein and are supported by a milky white quartz vein. Vein contains weak-moderate fracture controlled calcite alteration.	65425	51.0	54.0	3.0	Nil
	72.8'; Small zone of concentrated sulphides. Sulphides consist of fine euhedral pyrite and chalcopyrite which fall along foliation planes @ 55° T.C.A. Zone contains 3% chalcopyrite and 2% pyrite over 3".	65426	72.0	74.7	2.7	75
	74.7' - 79.0'; Zone is characterized by an intense brecciation of the basalts. Fragments and matrix show strong to intense alteration. The breccia is formed of 35% subangular to subrounded basalt fragments. Fragments are very fine grain, light grey in colour, and exhibit strong pervasive silicification. Fragments are supported by a matrix of chlorite and calcite. Chlorite rims are common around altered basalt fragments, with fragments reaching 2" in length. Strong pervasive calcite alteration of the matrix is present.					

From To
(ft) (ft)

Sample From To Width Au
No. (ft) (ft) (ft) (ppb)

cont'd

	1-3% blebby and finely disseminated pyrite is noted in the breccia zones. The majority of the pyrite occurs within the siliceous fragments with trace amounts in the matrix. Chalcopyrite is also noted with the pyrite, forming 1% of zone.	65427	74.7	76.8	2.1	20
		65428	76.8	79.0	2.2	Nil
		65429	84.0	87.0	3.0	30
		65430	87.0	90.0	3.0	185
		65431	90.0	92.5	2.5	20
		65432	92.5	95.0	2.5	Nil
84.8'	- 87.5'; Zone contains moderate pervasively calcite altered basalts, as well as 10% fine, fracture controlled calcite stringers. Basalts are now fine grain, light green to grey in colour. Moderate foliation controlled chloritization is present.	65433	124.5	127.0	2.5	Nil
		65434	127.0	130.0	3.0	Nil
		65435	130.0	132.5	2.5	20
		65436	132.5	135.0	2.5	Nil
		65437	135.0	137.0	2.0	Nil
90.0'	- 92.5'; Same as zone above (84.8' - 87.5') moderately carbonatized mafic volcanics.					
125.0'	- 150.0'; Basalts in this section show an increase in calcite alteration in the form of abundant milky white calcite veinlets. Veinlets are up to 1/2" in width, have random orientation. Blebby pyrite sections are common, with sulphides reaching 5% locally. Minor chalcopyrite is also noted. Calcite veins form 3-5% of core over this length.					
158.0'	- 163.0'; Zone exhibits spotty, local zones of intense silicification. Basalts in this zone become very fine grained to aphanitic. Rock has a cherty appearance. Fractures in the rock contain strong chloritization and moderate calcite veining. 1-3% fine pyrite stringers common. Pyrite is brassy yellow in appearance. Small pyritic blebs are also abundant. Basalts are now grey to brown in colour.					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
		164.0' - 167.0'; Zone of moderate pervasive silicification giving basalts a light greenish grey colour. Weak fracture controlled calcite veining is noted. 1% blebby and fracture controlled pyrite is evident. A large 2" milky white, quartz-calcite chlorite vein is noted @ 167.0'. Vein runs @ 85° T.C.A.	65438	137.0	140.0	3.0	Nil
			65439	140.0	143.0	3.0	10
			65440	143.0	146.0	3.0	Nil
			65441	146.0	149.0	3.0	Nil
			65442	149.0	152.0	3.0	Nil
			65443	152.0	155.0	3.0	Nil
			65444	155.0	158.0	3.0	Nil
			65445	158.0	161.0	3.0	Nil
		171.0' - 174.0'; Basalts remain fine grained, but are now moderately foliated @ 75-80° T.C.A. Zone shows weak brecciation of basalt fragment in a series of small branching calcite stringers, with larger stringers up to 2" in width. Moderate chloritization is found running parallel to foliation directions.	65446	161.0	164.0	3.0	Nil
			65447	164.0	167.0	3.0	Nil
			65448	167.0	169.0	2.0	Nil
			65449	169.0	171.0	2.0	Nil
			65450	171.0	174.0	3.0	210
			65451	174.0	177.0	3.0	30
			65452	177.0	179.0	2.0	Nil
			65453	179.0	181.0	2.0	Nil
181.0	208.0	FELDSPAR PORPHYRY					
		Porphyry Alteration Zone.					
		181.0' - 191.0'; Rock in this section is fine grain to aphanitic in colour, generally exhibiting a very cherty appearance. Porphyry is greenish grey to light grey in colour. Very weak relict porphyry texture is present, with 1% rounded white plagioclase phenocrysts noted. Alteration consists of moderate to strong pervasive silicification, with weak fracture controlled chloritization. Carbonatization is weak to moderate and consists of fine fracture controlled calcite stringers, and minor blebby calcite grains. Intense silicification is marked by fracturing and chloritization along fractures giving the rock a poorly developed brecciation texture. Fine euhedral pyrite forms small blebs and irregular veinlets along fracture planes, with percentages not exceeding 1%.					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
		191.0' - 208.0'; Porphyry.	65454	181.0	183.5	2.5	Nil
		This section contains relatively unaltered porphyry. Rocks are fine grain, with small greenish white plagioclase phenocrysts forming 1-2% of zone. Phenocrysts are subhedral in character, and are up to 1/4" in length. Phenocrysts are elongate, but show no preferred orientation.	65455	183.5	186.0	2.5	Nil
		Matrix consists of fine grain plagioclase with moderately chloritic hornblende. Exact composition is undetermined to fine grain nature of matrix.	65456	186.0	189.0	3.0	40
		Alteration consists of weak pervasive chloritization and weak fracture controlled calcite alteration. Calcite veinlets are mostly hairline, fracture fillings and larger veinlets up to 1/4" in width. Weak to very weak chlorite slips are also found.	65457	189.0	191.0	2.0	Nil
		Sulphide mineralization consists of 1-2% local pyrite. Pyrite is found in brassy yellow blebs.	65458	191.0	194.0	3.0	Nil
			65459	194.0	197.0	3.0	Nil
			65460	197.0	200.0	3.0	Nil
			65461	200.0	203.0	3.0	Nil
			65462	203.0	205.0	2.0	Nil
			65463	205.0	207.0	2.0	Nil
207.0	264.0	BASALT					
		Basalts are fine grained, weakly foliated to massive and range in colour from grey to dark green and black. Alteration consists of weak fracture controlled calcite veinlets and very weak spotty calcite.					
		Basalts show weak pervasive chloritization and minor fracture controlled chlorite slips.					
		207.0'; Basalts also show spotty zones of intense epidotization along foliations @ 60° T.C.A. Minor amounts of brassy yellow, blebby pyrite are noted, with local accumulations reaching 1%. One small section @ 207.8' - 208.3' exhibits strong to intense pervasive silicification. Basalts are now light grey to greenish grey in colour. Trace amounts of fine euhedral pyrite are noted.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd	220.5'; A small section of veinlet controlled epidote and quartz veining. Quartz veins contain weak fracture controlled calcite. 1% fine euhedral pyrite occurs throughout zone, which is 3" in width.	65464	207.0	210.0	3.0	Nil
				65465	218.0	220.0	2.0	20
				65466	255.0	257.0	2.0	Nil
				65467	257.0	260.0	3.0	250
				65468	260.0	262.0	2.0	100
			248.0'; Basalts contain a two inch, milky white quartz carbonate veinlet. Veinlet runs at 85° T.C.A. Weak fracture controlled calcite is also noted.	65469	262.0	264.0	2.0	Nil
				65470	265.2	268.2	3.0	Nil
				65471	269.3	272.3	3.0	10
				65472	277.1	280.1	3.0	Nil
				65473	285.7	288.7	3.0	Nil
264.0	291.3	PORPHYRITIC DIORITE	Rock is medium grained, moderately foliated @ 60° T.C.A. Rock is grey, greenish grey to red in colour. Rock is composed of 15-20% hornblende, chlorite and magnetite crystals. Matrix is made of feldspar forming about 70% of rock. Most of the feldspar is plagioclase, ranging from 70% - 50%, the remaining 20% being alkali feldspar. Porphyritic texture in diorite attributed to white sub-rounded anhedral phenocrysts of plagioclase (up to 1-2 mm in diameter); sequence is rather homogeneous with only irregular intrusions of green thread-like carbonaceous epidote strings and grey white strings of carbonate.					
			270.3'; 4" section containing phenocrysts of hematitic plagioclase (up to 1/4" in dia.) in a porphyritic diorite matrix; phenocrysts are sub-rounded and anhedral in nature.					
291.3	353.2	MAFIC VOLCANICS (ANDESITE BASALT)	Dark greenish-black aphanitic mafic volcanic sequence (basalt); surface appears "glass-like" and amorphous; rock unit is moderately carbonatized with whitish fingers and trellis-veinlets and irregular, carbonaceous epidote-enriched strings that transect core axis; also distinct as sectors of greyish to pale green silicified host rock;					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
		294.8' - 295.0'; Elliptical greyish-purple white carbonate veinlets that contain epidote @ 135° T.C.A.	65474	291.3	294.3	3.0	Nil
			65475	294.3	297.3	3.0	Nil
			65476	297.3	300.3	3.0	Nil
		300.9' - 302.2'; Zone of silicified ultramafics, smokey grey in colour; sequence is "chert-like" and contains truncated black capillaries in matrix (tourmaline?); 300.9':	65477	300.3	303.3	3.0	550
		2" vein of variegated brown, grey, white silicified host rock @ 90° T.C.A.; vein is saturated with pyrite blebs (20%) especially at peripheral margins.	65478	303.3	306.3	3.0	Nil
			65479	306.3	309.3	3.0	130
			65480	309.3	312.3	3.0	10
			65481	312.5	315.3	3.0	40
			65482	316.1	318.1	2.0	20
			65483	320.3	323.3	3.0	Nil
			65484	325.2	327.2	2.0	Nil
		303.2'; White "trellis-like" calcitic tributaries, appear interstitially filled in differentially eroded chloritic strings.	65485	336.4	339.4	3.0	10
			65486	341.3	343.3	2.0	160
			65487	344.4	366.4	2.0	Nil
		Sulphide Mineralization: Sulphides are present as two distinct types: 1) irregular section of podular or spotty, pyrite blebs, pods and truncated interstitial threads throughout sequence.	65488	348.2	351.2	3.0	Nil
		2) highly carbonatized veinlets saturated with pyrite blebs, flecks and isolated subhedral-anhedral crystals at 307.3', 307.8', 308.0'; Veinlets range in width from 3/4" - 2" and are 70-120° T.C.A.	65489	351.2	353.2	2.0	Nil
		316.1' - 316.4'; Greyish-brown highly silicified.					
		316.8' - 316.9'; Slightly carbonatized (calcite threads) vein saturated with disseminated pyrite blebs flecks and pods (approximately 30% pyrite by volume).					
353.2	364.2	FELDSPAR PORPHYRY					
		Greyish-green aphanitic mafic volcanic matrix with pale grey phenocrysts of plagioclase; sequence is moderately carbonatized with transecting calcareous grey-white threads, strings.					
		360.6' - 361.8'; Milky white vein of amorphous calcite (1" wide), runs concordant with core axis.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)	
364.2	455.4	MAFIC VOLCANICS (ANDESITE- BASALT) (SULPHIDE ZONE: 370.25 - 375.2')	364.2' - 370.25'; Pale greenish-grey, highly sili- cified "chert-like" mafic volcanic sequence; thread-like black chloritic-carbonaceous capillaries are abundant and transect core axis; sulphides are scarce but isolated pyritic blebs and interstitial pyrite strings are noteworthy.	65490	357.8	360.8	3.0	Nil	
					65491	362.5	365.5	3.0	30
					65492	367.2	369.7	2.5	10
					65493	370.3	373.3	3.0	225
					65494	373.3	376.3	3.0	130
					65495	381.9	383.9	2.0	Nil
					65496	385.4	387.4	2.0	Nil
					65497	389.7	392.7	3.0	Nil
					65498	395.0	397.0	2.0	Nil
					65499	398.3	400.3	2.0	10
					65500	405.0	407.0	2.0	Nil
					65501	407.5	410.5	3.0	Nil
					65502	415.5	418.5	3.0	55
				375.2'; Greenish-black aphanitic mafic volcanic se- quence (andesite-basalt); sequence is rather homogeneous with respect to texture, moderate carbonatized is evident as stringers, vein- lets, fingers of grey-white calcite at times enriched in epidote).	65503	422.1	425.1	3.0	10
				Sulphide Mineralization: pyrite occurrence are periodic or spotty at best and are discernable as isolated blebs and pyritic stringers.	65504	426.7	429.7	3.0	30
					65505	431.2	434.2	3.0	10
					65506	435.6	438.6	3.0	20
				65507	443.0	445.0	2.0	30	
				65508	446.1	449.1	3.0	435	
				65509	450.5	453.5	3.0	Nil	
				65510	455.4	457.4	2.0	Nil	
				65511	460.6	462.6	2.0	Nil	
				65512	465.0	467.0	2.0	Nil	
			445.0' - 451.8'; Grey green highly silicified- variegated texture in mafic volcanic ground mass.	65513	475.0	477.0	2.0	Nil	
455.4	498.9	DIABASE	Dark blackish-green medium to coarse grained diabase; sequence is homogeneous in respect to grain size and texture; apparent throughout sequence are small black chloritic blebs or freckles; melanocratic minerals make up over 70% of rock (most notable are augite) plagioclase feldspars (labradorite-andesine) and hornblende; diabase sequence is relatively alter- ation-free with rare occurrences of carbonatized patches of host rock;						

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
		532.2' - 532.9'; Section of olive-green epidote-enriched diabase also contains black chloritic strings and is weakly carbonatized.	65526	280.9	282.9	2.0	270
		536.6' - 537.0'; Diabase displays a porphyritic texture characterized by white blebs of plagioclase.	65527	585.0	587.0	2.0	500
574.2	600.0	MAFIC VOLCANICS (ANDESITE-BASALT)					
		Dark green to greyish-green moderately altered mafic volcanics (andesite-basalt); sequence displays variable textures depending on degree and source of alteration:					
		574.2' - 583.3'; Dark greyish-green, predominantly homogeneous mafic segment; unit is weakly altered by sporadic white to paler green siliceous patches and greyish-white calcitic strings; @ 582.2' a 1-2" section contains massive pyrite in veinlets and blebs (occurring as pale yellow anhedral condensed crystals).					
		583.3' - 585.0'; Highly brecciated portion of sequence; brecciations consist of greyish-white to milky white subangular fragments of amorphous quartz, tributaries of greenish black chlorite abound throughout section; unit is also weakly carbonatized.					
		585.0' - 587.5'; Texture of mafic volcanics is now variegated with weakly defined foliations and flow alignments: pale green siliceous foliated patches of andesite strike core axis at 135° (siliceous foliation are bordered by black chloritic host rock and run parallel to strike; also discernable is a weak flow alignment of greyish-white calcitic wedges and blebs (60° T.C.A.); at 587.3, a large elliptical patch (1-2" wide) of white amorphous calcite is observed; black chloritic blebs and strings are also noted. Pyrite occurs as pale yellow anhedral blebs and disseminated flocks.					

From To
(ft) (ft)

cont'd

587.5' - 592.5'; Dark greyish-green, weakly silicified profusely carbonatized section of mafic volcanics; unit is highly chloritized (black chloritic blebs and strings) and is regularly transected by white carbonaceous veinlets, strings and thread-like tributaries. Sulphides are observed as disseminated flecks of pyrite that are distributed sparsely throughout groundmass.

592.2' - 600.0'; Pale greyish-green mafic volcanic section (andesite-basalt); groundmass is moderately silicified, white rock surface is profusely covered with carbonaceous black freckles, dots, blebs, strings and truncated dashes of chlorite giving the texture a "graphic" or "hieroglyphic" appearance.

Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
65528	588.0	590.0	2.0	10
65529	592.9	595.9	3.0	Nil
65530	598.0	600.0	2.0	Nil

600.0 E. O. H.

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hole No: 1316-31

Property: Tyranite	NTS:	Township: Tyrreil
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG5805	Coordinates: L14+00S; 4+50W
Azimuth: 090°	Dip: -50°E	Length: 500'
Logged By: D. Prior	Casing: 11.5	Elevation:
Date Started: November 2, 1987	Date Completed: November 5, 1987	Date Logged: Novembr 10, 1987
Core Size: BQ	Core Location: Tyranite	Samples Shipped:
Drill Company: Bill Link	Overburden: 10'	Checked: D. Pilkey Jan. 6, 1988

Acid Dip Tests

1. Collar -50°E

250.0' - 49°E

2. 500.0' - -51°E

Purpose To evaluate South Pod Lens.

Conclusions Significant intersections: 67 to 70; 3 ft. @ 0.072 oz gold/ton
335.4 to 338; 2.6 ft @ 0.046 oz gold/ton.

NORWIN RESOURCES LIMITED
DIAMOND DRILL LOG

Hole No: 1316-31

From (ft)	To (ft)	Drill Log Summary	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		SAMPLE #'s	56831 - 65916				
0	11.5	CASING					
11.5	44	BASALT/ ANDESITE					
		(MINERAL- IZED)	19 - 44 2 - 5% pyrite 23.5 - 25.5 5 - 10 pyrrhotite 3mm chalcopyrite bleb in quartz calcite				
44	55.2	DIORITE	-calcite veinlets, trace pyrite				
55.2	177	BASALT/ ANDESITE	Very weak to weak, pervasive chlorite, quartz calcite veinlets, silicified in part.				
			64' - 73' 2 - 4% pyrite 83' - 89' 2 - 3% pyrite 138' - 152' 1 - 2% pyrite 157' - 174' 2 - 4% pyrite 138', and 141.5' Trace chalcopyrite in quartz calcite				
177	203.3	SILICIFIED BASALT/ ANDESITE	Strongly silicified, brecciated from 184' to 191'				
203.3	215	FELDSPAR PORPHYRY	Weak pervasive calcite, trace pyrite				
215	240.4	ALTERED PORPHYRY	Weak pervasive carbonatization, rare pyrite				

From	To	Drill Log Summary	
240.4	257	CARBONAT- IZED INTERMEDIATE VOLCANICS	Weak pervasive calcite, trace to 2% pyrite locally
257	282	ALTERED MAFIC VOLCANICS	Very weak pervasive chlorite, calcite veinlets Trace to 2% pyrite locally. Rare chalcopyrite in breccia at 268' and 270'.
282	339.5	BASALT/ ANDESITE	Weak pervasive chlorite, numerous calcite veinlets Trace to 5% pyrite locally 326' - 339.5' 2 - 4% pyrite
339.5	386.5	DIABASE	Very weak pervasive chlorite, numerous calcite Veinlets, trace pyrite
386.5	393	HEMATITE ALTERED ZONE	Rare to trace pyrite
393	451	DIABASE	Trace to 1% pyrite; Rare chalcopyrite in quartz calcite at 449 and 450'
451	466	ALTERED MAFIC VOLCANICS	Weak to moderate chlorite, trace to 2% pyrite
466	500	ALTERED DIABASE	Weak to moderate chlorite, hematite staining from 480' - 500'. Trace pyrite to 2% in silicic zone at 467'.

E.O.H.

NORWIN RESOURCES LIMITED
DIAMOND DRILL LOG

Hole No: 1316-31

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
11.5	44.0	BASALT/ ANDESITE					
		Description: medium to dark grey aphanitic, massive, mafic volcanics. These grade into the underlying diorite.	65831	14	16	2.0	106
		Alteration: Very weak pervasive chlorite, moderate to strong on fracture sur- faces. Quartz calcite veinlets from hairline to 2cm wide. There are three 30 cm silicified, partially brecciated section between 14' and 24'.	65832	19	22	3.0	25
		Mineralization: Pyrite up to 5% locally as disseminated cubes, irregular blebs up to 3 cm long and in fracture controlled stringers from 0.5mm to 2mm wide. Pyrrhotite up to 10% locally is found in blebs and irregular masses from 23.5' to 25.5' and at 40'. A 3mm bleb of calcopyrite occurs in a 1 cm wide quartz calcite vein of 44'.	65833	22	25	3.0	387
			65834	27	30	3.0	20
			65835	30	33	3.0	26
			65836	33	36	3.0	50
			65837	36	39	3.0	13
			65839	40	43	3.0	18
			65840	43	45	2.0	<5
			65841	45	48	3.0	9
			65842	49	51	2.0	<5
44	55.2	DIORITE					
		Description: Medium grey, fine to medium horn- blende crystals in a very fine siliceous matrix.					
		Alteration: Calcite occurs in veinlets up to 5mm wide and in a small breccia zone at 46'. These are a few siliceous blebs in the breccia zone, and some quartz assoc- iated with a few of the calcite veinlets.					
		Mineralization: Trace pyrite blebs up to 1% in the breccia at 46'.					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb) <i>oz/t</i>
55.2	177	BASALT/ ANDESITE					
		55.2' - 63.8'; Dark grey aphanitic massive mafic volcanics.	65843	54.5	57.5	3.0	10
			65844	60.8	63.8	3.0	14
		Alteration: Very weak pervasive chlorite, moderate to strong in fracture surfaces.	65845	63.8	67	3.2	11
		Numerous narrow 1 - 3mm calcite veinlets, some with quartz at various angles.	65846	67	70	3.0	2472 0.072
			65847	70	73	3.0	318
		3 - 5% quartz and calcite in a small brecciated section at 63'.	65848	79	82	3.0	27
		Mineralization: Pyrite to 3% locally occurs as disseminated cubes, blebs to 1 cm in diameter, and in fracture controlled seams to 3mm wide.	65849	83	86	3.0	20
			65850	86	89	3.0	18
			65851	95	97	2.0	13
			65852	97	99	2.0	23
			65853	102	105	3.0	7
			65854	110	112	2.0	10
		13.8' - 119'; Description: Dark grey aphanitic, massive mafic volcanics. These are short 10 cm breccia zones at 71', 81', 111', and 112'.	65855	112	114	2.0	13
			65856	127	130	3.0	227
			65857	130	133	3.0	11
			65858	138	141	3.0	12
		Alteration: Very weak to weak pervasive chlorite moderate to strong in fracture surfaces.	65859	141	143	2.0	14
		These are numerous fracture controlled quartz calcite veinlets from hairline to 2 cm wide at various angles. The breccia zones are infilled with quartz and calcite. The section from 105' to 119' is partially silicified.	65860	144	147	3.0	10
			65861	147	149	2.0	5
			65862	150	152	2.0	9
			65863	157	160	3.0	8
			65864	165	168	3.0	10
			65865	168	171	3.0	60
			65866	171	173.5	2.5	7
		63.8' - 119'; Mineralization: Pyrite concentration reaches 10% at 71' in a breccia zone; in the remainder pyrite varies from trace to 3% locally and occurs disseminated cubes, blebs, and seams.					
		119' - 175'; Description: Dark grey, aphanitic mafic volcanics. The rock is brecciated from 129' to 130.5'.					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
			65867	175	178	3.0	5
			65868	178	181	3.0	79
			65869	181	184	3.0	18
			65870	184	187	3.0	853
			65871	188	191	3.0	143
			65872	198	201	3.0	20
			65873	201	204	3.0	231
		Alteration: Very weak pervasive chlorite, moderate on fracture surfaces. Quartz calcite veinlets from 1 to 20mm wide are common at various angles. The breccia zone at 129 - 130.5 is strongly silicified and carbonatized. Several short sections have numerous fractures at approximately 45° T.C.A. These are infilled with silica and some calcite. These quartz calcite veinlets at 137' are stained rusty red - probably due to hematite. From 165 to 177 the rock is weakly to moderately silicified.					
		Mineralization: Pyrite to 10% locally occurs as disseminated cubes, blebs, and short seams. The greatest pyrite concentration is at 169.5'. Trace chalcopyrite in quartz calcite veinlets occurs at 138', 141.15'.					
177	203.3	SILICIFIED BASALT/ ANDESITE	Description: Light to medium grey, aphanitic, chert like hardness, massive, moderately fractured brecciated from 184' to 191', with other short breccia sections.				
			Alteration: Very weak pervasive chlorite in part with weak to moderate fracture controlled chlorite. This zone is highly silicified, resembling chert in part. The rock is weakly pervasively carbonatized with numerous calcite veinlets to 3mm in width. A 3 cm white quartz at 203' marks the contact with the underlying feldspar porphyry. There is a trace of epidote associated with quartz and calcite at 202'.				
			Mineralization: Pyrite to 5% locally occurs as finely disseminated cubes, fracture controlled seams up to 4mm wide and as blebs or large anhedral masses up to 1cm x 3cm. Trace chalcopyrite at 179'.				

From (ft)	To (ft)		Description:	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
203.3	215	FELDSPAR PORPHYRY	Description: Light to medium grey abundant rounded greenish white up to 4mm long in a very fine grained felsic matrix.	65874	215	218	3.0	93
			Alteration: Weak spotty chlorite in fracture surfaces.	65875	218	220	2.0	15
			Weak pervasive calcite, numerous calcite veinlets up to 1cm wide. Trace soft blue grey clay mineral in fracture surfaces.	65876	240	243	3.0	81
			Mineralization: A very small trace of disseminated pyrite.	65877	243	246	3.0	33
				65878	250	252	2.0	14
				65879	254	257	3.0	159
				65880	262	263.9	1.9	24
				65881	267	270	3.0	31
				65882	270	273	3.0	11
				65883	273	276	3.0	5
215	240.4	ALTERED PORPHYRY	Description: Light to medium yellowish grey, predominantly very fine to fine grain with very little or no porphyritic texture. It has an almost diabasic texture in part with white feldspar laths to 3mm in an aphanitic matrix.	65884	276	279	3.0	30
			Alteration: Weak pervasive carbonatization. There are several narrow calcite veinlets with one 5cm wide reddish white vein. There are a few quartz calcite vein to 1cm wide. Trace pale blue grey clay on fracture surfaces.					
			Mineralization: Very small trace of pyrite.					
240.4	257	CARBONATIZED INTERMEDIATE VOLCANICS	Description: Light grey green, reddish in part mottled and banded. The rock is aphanitic and moderately hard.					
			Alteration: Weak chlorite in fracture surfaces. Abundant hairline to 1cm calcite veinlet, and weak pervasive calcite.					
			Mineralization: Pyrite cubes are concentrated in several short (5 - 10cm) sections as closely packed cubes, short seams and blebs.					
257	282	ALTERED MAFIC/ VOLCANICS	257 - 281.4 Description: Medium to dark green aphanitic mafic volcanics. 10 cm breccia zone at 268'.					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
282	339.5	BASALT/ ANDESITE					
339.5	386.5	DIABASE					

Alteration: Very weak, pervasive chlorite, moderate to strong on fracture surfaces. Spotty chlorite from 268' to 273'. Numerous calcite veinlets to 1 cm in width, and calcite infills around breccia fragments at 268'. There are some fragmented siliceous veins at 275'.

Mineralization: Trace to 2% pyrite locally in blebs, seams and disseminated cubes. Rare chalcopyrite with calcite in breccia zone at 268' and 270'.

Description: Dark grey with occasional pale green rounded feldspar crystals up to 5mm in aphanitic to fine grained mafic volcanics. Brecciated from 335' to 339'.

Alteration: Weak pervasive chlorite moderate on fracture surfaces. Numerous calcite veinlets at 50 - 90° T.C.A. Most veinlets are 1 to 4mm wide, one vein is 6cm wide. There is rusty hematite staining along a calcite veinlet at 295.5'. There are irregular 1 - 10mm wide quartz veinlets at 318' running parallel T.C.A. and at 308'. Trace epidote occurs in some calcite veinlets. From 335' to 339' the rock is strongly silicified, carbonatized in part and brecciated.

Mineralization: Trace to 5% pyrite locally as disseminated cubes to 3mm per side, blebs up to 1 cm and stringers up to 5mm wide.

Description: Medium grey, fine to medium grained with well formed crystal of plagioclase and hornblende to 3mm, almost diabasic texture in part. Towards the upper and lower contacts the rock becomes progressively

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
93	451	DIABASE	393' - 429.5' Description: Medium grey, very fine to medium grained with a 10cm aphanite chert line section of the contact. The texture is diabasic with crystals of hornblende and plagioclase up to 2mm long. The lower contact is at 60° T.C.A.	65905	392	394	2.0	18
				65906	402	405	3.0	99
				65907	420	423	3.0	7
				65908	431	433	2.0	6
				65909	448.3	451	2.7	15
			Alteration: Moderate to string chlorite in fracture surfaces. There are several 1 - 5mm of epidote some with hematite staining. A narrow 1 - 3mm discontinuous quartz veinlet runs parallel T.C.A. from 403' to 406'. A fractured discontinuous quartz calcite veinlet occurs at 450'. A 10cm section lying at 45° T.C.A. at 431' has string epidote alteration.					
			Mineralization: Trace to 1% disseminated pyrite. Rare chalcopyrite specks in a quartz calcite veinlet at 449' to 450'.					
451	466	ALTERED MAFIC VOLCANICS	Mottled light to medium greenish grey altered mafic volcanics. The original texture is obscured. The rock is moderately to highly fractured and brecciated in part.					
			Alteration: Weak to moderate light to dark green spotty chlorite, moderate to strong on fracture surfaces. Moderate pervasive carbonatization. Abundant hairline to 5mm calcite and quartz calcite veinlets. Part of this section is moderately sili-cified and brecciated.					
			Mineralization: Trace to 2% pyrite locally as finely disseminated cubes.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
466	500	DIABASE	Medium grey to reddish grey, fine to medium grain, weakly fractured. The hornblende crystals reach 3 - 4mm in length. The plagioclase crystals are rounded and indistinct. From 479' to 500' (end of hole) the plagioclase has a pink hematite stain. The rock is weakly to very weakly magnetic.	65910	451	454	3.0	758
				65911	454	457	3.0	259
				65912	457	460	3.0	90
				65913	460	463	3.0	109
				65914	463	466	3.0	12
				65915	467	470	3.0	19
			Alteration: Moderate to weak pervasive chlorite decreasing with depth, moderate to strong fracture controlled chlorite. Weak to moderate pervasive carbonatization from 466' to 485'. Hairline to 3mm calcite veinlets are common throughout the intervals. There are several 5 to 10mm calcite veinlets at 478'. 467' to 469' is strongly silicified. Epidote is associated with the calcite veinlets from 490' to 500'. Hematite staining from 480' to 500' gives the rock a reddish colour.	65916	477	480	3.0	6
			Mineralization: Rare to trace disseminated pyrite, up to 2% in the silicified section at 467' to 469'.	65838	490	493	3.0	13

E.O.H.

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hole No: 1316-32

Property: Tyranite	NTS:	Township: Tyrrell
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG5805	Coordinates: L14+00S, 4+50W
Azimuth: 090°	Dip: -70°E	Length: 650'
Logged By: D. Prior	Casing: 8.5'	Elevation:
Date Started: October 28, 1987	Date Completed: November 2, 1987	Date Logged: November 3, 1987
Core Size: BQ	Core Location: Tyranite	Samples Shipped:
Drill Company: Bill Link	Overburden: 7'	Checked: J. McAuley Dec. 11/87

Acid Dip Tests

1. Collar -70°E	250.0'	-70°E	2. 450.0	-70°E	650.0	-70°E
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Purpose To evaluate South Pod Lens.

Conclusions Significant Intersection: 585 to 588; 3 ft. @ 0.478 oz gold/ton

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

Hole No: 1316-32

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
8.5	193	BASALT/ ANDESITE					
		Rock is dark grey to black, micro granular to very fine-grained, occasional dark feldspar crystal, massive mafic volcanics.	65601	11.0	15.0	4.0	Nil
		47.8' - 60'; Rock is medium grey fine to medium grained, with dark striated plagioclase and abundant hornblende.	65602	15.0	19.5	4.5	Nil
		Alteration consists of weak calcite alteration primarily as veinlets to 5 mm wide, accounting for 1-2% of rock or veinlets are generally 45° to core angle. The rock has been weakly pervasively chloritized.	65603	19.5	22.5	3.0	130
		Mineralization consists primarily of stringers, blebs and veinlets of pyrite, frequently associated with calcite veinlets. Pyrite varies from euhedral crystals up to 2 mm across to anhedral masses and accounts for 1-5% of rock. Below 22' small pyrrhotite masses and trace chalcopyrite occur as noted in the following sample descriptions.	65604	22.5	25.0	2.5	30
		22.3' - 28'; Strong blebby continuous pyrrhotite mineralization, from 5-15%, with trace to 1% chalcopyrite 3 to 4" sections of core at 30', 31' and 40' contain pyrrhotite concentrations to 15% of rock.	65605	25.0	27.5	2.5	30
		27.5' - 31.5'; Dark fine grained mafic volcanics with several calcite veinlets and blebs. Pyrrhotite is found from 27.5' - 28' at 28.5' - 30' and at 31', concentrated locally from 10 to 15%. The interval has 2-3% pyrite in veinlets and minor 1% chalcopyrite.	65606	27.5	31.5	4.0	Nil
		31.5' - 35'; Dark fine grained mafic volcanics, 3-5% calcite veinlets 45 to 50° to core angle, 3-5% pyrite stringers, anhedral to subhedral cubes.	65607	31.5	35.0	3.5	10
			65608	35.0	38.0	3.0	Nil
			65609	38.0	41.0	3.0	20
			65610	41.0	44.0	3.0	Nil

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
	35'	35' - 38'; Dark fine grained mafic volcanics, 2-3% calcite veinlets 3-4% pyrite stringers and blebs.	65611	61.0	65.0	4.0	Nil
			65612	66.0	69.5	3.5	10
			65613	80.0	83.0	3.0	Nil
	38'	38' - 41'; Dark fine grained mafic volcanics, 1-2% calcite veinlets, 5-6% pyrite, blebs and veinlets, pyrrhotite concentrations at 38.8' and 39.8'.	65614	83.0	86.0	3.0	Nil
			65615	86.0	89.0	3.0	Nil
			65616	89.0	91.0	2.0	10
			65617	91.0	93.0	2.0	30
	41'	41' - 44'; Dark fine grained mafic volcanics 2-3% calcite veinlets, 1-3% pyrite, disseminated blebs and stringers.	65618	93.0	96.0	3.0	Nil
			65619	96.0	99.0	3.0	10
			65620	99.0	101.0	2.0	Nil
	61'	61' - 65'; Dark fine grained mafic volcanics, 2-3% calcite veinlets 30-45° to core angle, spotty pyrite with accumulations to 5-10%.	65621	101.0	104.0	3.0	Nil
			65622	104.0	107.0	3.0	Nil
			65623	107.0	110.0	3.0	Nil
	65'	65' - 69.5'; As above, 1% calcite, 2-5% disseminated blebby and stringer pyrite, locally to 10%.	65624	110.0	113.0	3.0	690
			65625	113.0	116.0	3.0	650
	69.5'	69.5' - 80'; Dark fine grained mafic volcanics, 2-5% pyrite, 1-2% calcite veinlets.	65626	116.0	119.0	3.0	410
	80'	80' - 105'; Dark grey mafic volcanics, chlorite along fracture surfaces, trace to 1% calcite, 3-5% pyrite as disseminated cubes, blebs and 1-2 mm stringers, up to 10% locally, pyrrhotite occurs in blebby concentrations to 10% at 81' - 83.5', 85' - 86', 89' - 93' (not continuous).					
	105'	105' - 110'; Dark grey mafic volcanics with 3 calcite veins from 0.5 to 1 cm wide at various angles. 3-5% pyrite, disseminated blebs and erratic stringers.					
	110'	110' - 119'; Medium grey green mafic volcanics fractured and brecciated, very calcareous calcite is pervasive and veinlets and irregular masses around brecciated volcanics. Most veinlets are 30-45° to core angle. Pyrite occurs as irregular concentrations of tightly packed subhedral to euhedral cubes and blebs in the brecciated zones, locally concentrated to 10% in those zones.					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
cont'd	119'	- 150'; Dark greyish green mafic volcanics aphanitic, massive, weak pervasive chlorite, 2-3% calcite in veinlets from 0.1 to 5 mm, with one 2 cm wide calcite vein. Veinlets are generally 30-45° T.C.A., up to 5% pyrite locally, as subhedral to euhedral cubes from 0.1 to 5 mm per side and occurring in stringers and blebs. Finely disseminated and blebby pyrrhotite is found continuously from 144.3' to 147.2' up to 10% and from 148.4' to 148.6'. There is moderate chlorite in fracture surfaces.	65627	119.0	122.0	3.0	895
			65628	122.0	126.0	4.0	Nil
			65629	138.0	141.0	3.0	10
			65630	141.0	144.0	3.0	Nil
			65631	144.0	147.0	3.0	Nil
			65632	147.0	150.0	3.0	Nil
			65633	150.0	154.0	4.0	Nil
			65634	154.0	157.0	3.0	Nil
			65635	157.0	160.0	3.0	Nil
			65636	160.0	163.0	3.0	Nil
			65637	163.0	166.0	3.0	Nil
			65638	166.0	169.0	3.0	Nil
	144'	- 147'; 5-10% pyrrhotite, 2-4% pyrite seams	65639	169.0	172.0	3.0	30
	147'	- 150'; 1-2% pyrrhotite, 1-3% pyrite seams and cubes.					
(possible felsic unit)	150'	- 172'; Silicified zone. Rock is light to medium grey green, cherty in appearance, with short sections of dark grey unsilicified mafic volcanics. The cherty areas are variously mottled, spotted and irregularly banded. Hairline fractures are abundant and rock is brecciated at 171'. 1-2% calcite occurring in 1 to 4 mm veinlets at angles of 45 to 60° T.C.A. Trace to 1% pyrite occurs as disseminated cubes from 0.1 mm to 3 mm and occasionally as small blebs. Trace to 0.5% chalcopyrite occurs locally from 156' to 164' in small blebs associated with quartz calcite veinlets.					
	172'	- 193'; Highly silicified cherty zone. (possible felsic unit). Light to medium grey green, mottled, banded and highly fractured in part, 2-3% calcite in hairline fracture and pervasive in lighter greenish sections. Trace to 2% pyrite occurs on finely disseminated cubes and as short stringers from 191' to 193'.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
193.0	198.0	FELDSPAR PORPHYRY	Rock is medium grey massive, siliceous with abundant unaligned white feldspar crystals to 1/8" long. Alteration: Moderate to strong pervasive silicification, 2-3% pervasive calcite and minor hairline veinlets; moderate chlorite along fracture surfaces. Mineralization: Trace to 1% disseminated pyrite cubes.	65640	180.0	183.0	3.0	60
				65641	191.0	193.0	2.0	Nil
198.0	226.0	ALTERED PORPHYRY	198' - 226'; Rock is medium grey with light grey green cherty sections. It is porphyritic with white rounded feldspar crystals grading to narrow elongate greenish white indistinct feldspar remnant crystals (below 219'). Alteration: The rock is strongly pervasively silicified with sections of chert like material with little evidence of porphyry. Carbonatization is variable from 2-5%. It is pervasive and also occurs in hairline to 3 mm veinlets at 60-90° T.C.A. There is one 3 cm wide calcite vein at 90° T.C.A. From 221' - 225', the rock is highly fractured and brecciated. 203' - 204' is also brecciated. Fracture controlled chlorite is found in less siliceous sections. Serpentine? is found with chlorite along a fracture at 215.5'. Mineralization: Pyrite up to 3 or 4% locally occurs as disseminated cubes, in stringers to 3 mm wide and occasionally as blebs. Cubes of pyrite are generally less than 1 mm but some are 3-5 mm in size.	70161	172.0	175.0	3.0	11
				70162	175.0	178.0	3.0	11
				70163	178.0	180.0	3.0	17
				70164	183.0	186.0	3.0	10
				70165	186.0	189.0	3.0	6
226.0	230.0	SILICIFIED MAFIC INTERMEDIATE VOLCANICS	Medium grey, very fine grained, massive, hornblende ?.					
240.0	243.0		Alteration: Moderate chlorite in fracture surfaces 1-2% pervasive calcite, calcite veinlets common from hairline to 3 mm at 45-60° T.C.A. Moderate to strongly silicified. No visible sulphides.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
230.0	240.0	PORPHYRITIC DIORITE	The rock is medium grey, fine to coarse grained, white feldspar and hornblende porphyritic crystals to 2 mm are abundant, weakly to moderately magnetic in part. Alteration: 3-5% pervasive carbonatization, numerous calcite veinlets from 1-5 mm wide at 45-60° T.C.A. Moderate fracture controlled chlorite, silicified in part. Mineralization: trace disseminated pyrite as cubes and small blebs. <u>NOTE:</u> The silicified volcanics are similar in colour and hardness to the porphyritic diorite.	65642	198.0	201.0	3.0	10
				65643	203.0	206.0	3.0	50
				65644	214.0	217.0	3.0	10
				65645	217.0	220.0	3.0	Nil
				65646	220.0	223.0	3.0	70
				65647	223.0	226.0	3.0	275
				65648	248.0	250.5	2.5	Nil
				250.0	284.0	BASALT ANDESITE	250.5' - 263.0'; Medium green very fine grained to aphanitic, massive weakly to moderately pervasively chloritized, moderate to strong fracture controlled chlorite. 1-2% calcite veinlets hairline to 5 mm, generally 45-60° T.C.A. Strongly silicified and moderately fractured sections up to 6" long from 258' to 261'. Mineralization: Pyrrhotite up to 1% locally occurs in blebs in sections from 1 to 6" in length at 252.5' 253', 253.5', 254', 255', 257' and 260'. Pyrite to 5% locally occurs in blebs and stringers to 3 mm wide, disseminated cubes are abundant. 263' - 281.5'; Mafic volcanics as above brecciated and fractured from 265.5 to 267.5', 274 to 276.5'. Alteration: The zone is weakly pervasively chloritic with moderate fracture controlled chlorite. The brecciated areas are strongly silicified. A 6" section at 278' is strongly siliceous, other areas are weakly silicified. There are several calcite veins from 1 to 5 cm wide from 60-80° T.C.A. Smaller calcite veinlets are common. Epidote calcite hairline veinlets occur at 271.5'.	65649
65650	253.0	256.0	3.0					10
65651	256.0	259.0	3.0					Nil
65652	253.0	266.0	3.0					Nil
65653	256.0	269.0	3.0					130
65654	269.0	272.0	3.0					Nil
65655	272.0	274.0	2.0					20
65656	274.0	276.0	2.0					Nil
65657	276.0	279.0	3.0					Nil
65658	279.0	281.5	2.5					Nil
65659	281.5	284.0	2.5					10

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd	263' - 284'; Mineralization: Pyrite to 5 or 6% locally as disseminated cubes, small (0.5 to 1 cm) blebs and stringers to 4 mm wide. Chalcopyrite blebs to 1% are found in 2 calcite veins at 275' and 278.5'.	65660	284.0	287.0	3.0	30
				65661	287.0	290.0	3.0	295
				65662	290.0	293.0	3.0	70
				65663	293.0	297.0	4.0	170
				65664	297.0	300.3	3.3	200
				65665	300.3	303.0	2.7	60
284.0	325.5	BASALT/ ANDESITE BRECCIATED AND CAR- BONATIZED	284' - 325.5'; Medium green grey, aphanitic mafic volcanics with several breccia zones. Alteration: chlorite is weakly pervasive and moderate on fracture surfaces and breccia zones. The brecciated areas are composed primarily of angular siliceous fragments up to 3 cm long. Calcite has filled in the breccia zones and many of the fragments are carbonatized as in the wall-rock near the breccia and near (0.5 - 1cm) calcareous fractures and veinlets most of which tie at 50-80° T.C.A. Brecciated sections are located at 285', 288.5', 293.5', 298', 299', 302' to 305' and 322'. A chloritic bed within a breccia at 304' lies at 30° T.C.A. Mineralization: 1-2% disseminated pyrite cubes up to 10% locally as subhedral cubes in stringers and as individual cubes up to 1 cm per side. Brecciated areas are most concentrated in pyrite.	65666	303.0	306.0	3.0	270
				65667	306.0	309.0	3.0	40
				65668	309.0	312.0	3.0	Nil
				65669	312.0	315.0	3.0	40
				65670	315.0	317.0	2.0	10
				65671	317.0	319.7	2.7	320
				65672	319.7	323.0	3.3	885
				65673	323.0	326.0	3.0	90
325.5	386.0	BASALT/ ANDESITE	325.5' - 339.0'; Rock is medium to dark grey, aphanitic, massive, mafic volcanics. Alteration: 2-3% calcite in fracture controlled veinlets from hairline to 5 mm wide at various angles from 45 to 80° T.C.A. Weak to moderate chlorite on fracture surfaces. Trace epidote is associated with a few calcareous veinlets. There are numerous (1%) pale green, patches to 0.5 cm of chlorite? throughout the zone. Mineralization: Trace to 2% pyrite locally as dissemination cubes, small blebs and short stringers to 2 mm wide.					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
	339.0'	- 354.7'; (Sharp lower contact at 90° T.C.A.)	65674	329.0	332.0	3.0	Nil
		Medium grey green fine grained massive mafic	65675	336.0	338.7	2.7	Nil
		volcanics with plagioclase and hornblende	65676	340.0	343.0	3.0	10
		crystals to 1 mm long. Larger feldspar	65677	343.0	346.0	3.0	Nil
		crystals to 3 mm with rounded edges are	65678	351.0	353.0	2.0	Nil
		common.	65679	353.0	355.0	2.0	10
		Alteration: Weak to moderate pervasive	65680	357.2	360.0	2.8	Nil
		chlorite, moderate on fracture surfaces,	65681	360.0	363.0	3.0	Nil
		1-2% calcite veinlets predominantly hairline	65682	363.0	365.0	2.0	Nil
		to a maximum width of 5 mm angles are highly	65683	366.0	369.0	3.0	Nil
		variable. There is a brecciated carbonatized	65684	369.0	372.0	3.0	Nil
		silicified zone from 351.8' to 353' with a	65685	372.0	375.0	3.0	Nil
		5 cm wide quartz calcite vein that surrounds	65686	376.0	379.0	3.0	20
		siliceous fragments to 2 cm in diameter.	65687	379.0	382.0	3.0	Nil
		Vein lies at 45° T.C.A.	65688	382.0	385.0	3.0	Nil
		Mineralization: 1-2% pyrite reaching 4-5%					
		locally in the form of disseminated cubes					
		up to 4 mm per side with small blebs and					
		short seams of subhedral pyrite cubes. There					
		is a 5 mm bleb of chalcopyrite in the 5 cm					
		quartz calcite vein.					
	354.7'	- 386'; Grey green, aphanitic, massive mafic					
		volcanics.					
		Alteration: weak pervasive chlorite, moderate					
		in fracture surfaces. 1-2% calcite in vein-					
		lets hairline to 5 mm commonly at 50-80°					
		T.C.A. Quartz blebs to 1 cm occur at 373.2'					
		and there is a 1 cm wide quartz vein at 60°					
		T.C.A. at 377' in a short brecciated section.					
		Another brecciated area is located at 379'.					
		Both sections have up to 10% calcite with a					
		1-3 cm wide calcite vein/bleb at 377'.					
		Mineralization: Pyrite to 5% locally					
		occurs primarily as seams to 3 mm wide and					
		as blebs.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)	
386.0	393.5	DIORITE	The rock is medium grey, fine grained with crystals of plagioclase and hornblende up to 3 mm long. Alteration: Trace to 1% calcite occurs in hairline to 3 mm veinlets often associated with trace epidote and stained reddish (from hematite?) in part. Weak fracture controlled chlorite. Mineralization: Trace to 1% pyrite occurs locally as disseminated cubes to 1 mm per side.	65689	389.0	392.0	3.0	Nil	
				65690	395.0	398.0	3.0	Nil	
				65691	398.0	401.0	3.0	Nil	
				65692	401.0	404.0	3.0	Nil	
				65693	404.0	407.0	3.0	Nil	
				65694	407.0	410.0	3.0	19	
				65695	410.0	413.3	3.3	11	
				65696	413.3	416.0	2.7	24	
				65697	416.0	419.0	3.0	33	
393.5	461.0	BASALT ANDESITE		393.5' - 451'; Medium grey aphanitic mafic volcanics. A highly fractured partially brecciated zone extends from 414' to 435'. From 435 to 451', hairline fractures are very abundant. Alteration: Weak pervasive chloritization with moderate to strong chlorite on fracture surfaces. The fractured zone is highly carbonaceous with up to 10% calcite. Elsewhere calcite veinlets are abundant from hairline to 2 cm generally 30-60° T.C.A. Two 1-3 cm pink calcite blebs occur in the fractured zone. Silicification is moderate to strong in the fractured brecciated zone. Elsewhere the rock is weakly to moderately silicified with several small fractured brecciated sections.	65698	419.0	422.0	3.0	143
				65699	422.0	425.0	3.0	52	
				65700	425.0	428.0	3.0	71	
				65701	428.0	430.0	2.0	40	
			65702	430.0	432.0	2.0	15		
			65703	432.0	435.0	3.0	13		
			65704	435.0	438.0	3.0	11		
			65705	438.0	441.0	3.0	16		
			65706	441.0	444.0	3.0	174		
			65707	444.0	447.5	3.5	217		
			65708	447.5	451.0	3.5	225		
			65709	452.0	454.0	2.0	108		
			65710	454.0	457.0	3.0	103		
			65711	457.0	460.0	3.0	63		
			<u>NOTE:</u>						
			A 1 cm offset is visible at 429.3' at 45° T.C.A.						
			Mineralization: Pyrite to 7 or 8% locally occurs as disseminated cubes, blebs and seams from hairline to 5 mm wide of subhedral crystals. The pyritic seams are fracture controlled. Most pyrite blebs (up to 1cm) are found in brecciated sections. Hematite seams at 396'.						
			451' - 461'; Medium greenish grey aphanitic mafic volcanics moderately to highly fractured, brecciated in part.						

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd	Alteration: Weak pervasive chlorite, moderate to strong on fracture surfaces. 1-2% calcite veinlets up to 2 cm wide. Weakly silicified throughout width a 15" section at 453' which is brecciated and strongly silicified. Mineralization: Trace to 1% disseminated pyrite is found throughout the interval. Chalcopyrite blebs (0.5 cm) occur up to 1% locally from 452.5 to 454' associated with quartz calcite veins surrounding brecciated wallrock.					
461.0	498.0	DIORITE	461' - 498'; Medium grey, very fine to medium grained diorite with crystals of plagioclase and hornblende to 3 mm. From 461 to 471', there is a gradual increase in grain size; 471'-474' crystals are medium grained, from 474' to 498', the size gradually drops down to very fine grained and grades into mafic volcanics. The rocks weakly to moderately magnetic. Alteration: Very weak pervasive chlorite alteration, moderate to strong fracture controlled chlorite, calcite veinlets from 1-5 mm are common with two 1-4 cm quartz calcite veins. Veins are usually 30-50° T.C.A. There are a few 1-3 mm white discontinuous quartz veins and blebs with calcite. Epidote occurs as a pale yellow green fibrous mineral in some of the calcite veinlets. Mineralization: Trace disseminated pyrite cubes occur throughout the interval. Several specks and blebs to 0.5 cm of chalcopyrite are visible in a quartz calcite vein approximately 4 cm wide at 45° T.C.A. at 466'. A 1 cm wide quartz calcite vein occurs at 478'.	65712	463.0	465.0	2.0	20
				65713	465.0	467.0	2.0	11
				65714	467.0	468.8	1.8	14
				65715	474.0	477.0	3.0	26
				65716	477.0	479.0	2.0	16
				65717	479.0	482.0	3.0	12
				65718	489.0	492.0	3.0	17

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
	cont'd	498' - 508'; Similar to the overlying diorite, but grain size is very fine and appears similar to volcanics.	65719	498.0	501.0	3.0	11
		Alteration: Moderate chlorite on fracture surfaces. Trace 1% calcite veinlets from hairline to 5 mm wide. Epidote is often associated with the calcite. Veinlets, some of which have a reddish stain. The interval from 502' to 504' is strongly silicified and moderately fractured at 45° T.C.A. Mineralization: Trace disseminated pyrite cubes are found throughout the interval. Specks of chalcopyrite to 1 mm are associated with quartz calcite epidote veins at 505'. Possible chalcopyrite at 502.5' and 507.2'. Chalcopyrite specks in a 5 mm quartz epidote calcite veinlet at 508'.	65720	501.0	504.0	3.0	123
			65721	504.0	506.2	2.2	21
			65722	506.2	509.0	2.8	<5
		508' - 565'; Medium grey fine to medium grained massive diorite with crystals up to 2 mm long with some plagioclase crystals 4 mm long. Minor (less than 2%) pink minerals possibly orthoclase and 3 rusty red veinlets. The rock is weakly to moderately magnetic. The zone is very felsic with approximately 90% plagioclase and 10% hornblende.					
461.0	565.0	508' - 565'; Alteration: Moderate chlorite in fracture surfaces. Trace to 1% calcite in narrow veinlets to 3 mm with quartz. Trace to 1% epidote and silica occur in veinlets with the calcite. There is a 1 cm wide quartz veinlet at 527', at 30° T.C.A. There are three 0.5 cm rusty red veinlets at 30-45° T.C.A. They are probably the result of hematite staining along hairline fractures. There appears to be trace interstitial sericite throughout the zone.					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd	65723	512.0	515.0	3.0	7
		Mineralization: Trace disseminated pyrite occurs throughout the interval. Chalco-	65724	523.0	526.0	3.0	10
		pyrite in trace amounts is found in a quartz	65725	526.0	529.0	3.0	8
		calcite veinlet at 527'. A few other specks	65726	532.0	535.0	3.0	9
		of chalcopyrite are found in other narrow	65727	535.0	538.0	3.0	<5
		quartz calcite veinlets.	65728	539.0	542.0	3.0	7
			65729	551.0	554.0	3.0	7
565.0	606.8	CARBON-	65730	555.0	558.0	3.0	14
		ATIZED/	65731	564.0	567.0	3.0	76
		SILICIFIED	65732	567.0	570.0	3.0	178
		MAFIC	65733	570.0	573.0	3.0	789
		VOLCANICS	65734	576.0	579.0	3.0	69
		565' - 615.3'; Medium grey, mottled white and dark	65735	579.0	582.0	3.0	133
		grey, aphanitic to very fine grain mafic	65736	582.0	585.0	3.0	280
		volcanics. Most of the interval has been	65737	585.0	588.0	3.0	16442
		carbonatized and silicified extensively which	65738	588.0	591.0	3.0	222
		obscures the original composition. From	65739	591.0	594.0	3.0	259
		572' to 578', the rock is medium greenish	65740	594.0	596.1	2.1	145
		grey aphanitic mafic volcanics.	65741	596.1	599.0	2.9	28
		565' - 607'; Alteration: 565' - 572': This section -	65742	599.0	602.0	3.0	27
		is capped with a 1" cherty vein? at 45° T.C.A.	65743	602.0	605.0	3.0	147
		The remainder is whitish grey fractured	65744	605.0	608.0	3.0	86
		brecciated siliceous material in a chloritic	65745	608.0	611.0	3.0	8
		carbonaceous matrix. 1-2 mm calcite veinlets	65746	611.0	614.0	3.0	12
		lie at 40-50° T.C.A.					
		572' - 577.8'; Weak pervasive chlorite, moderate to					
		strong on fracture surfaces. A few calcite					
		veinlets at 45° T.C.A.					
		577.8' - 593'; A zone of fractured and partially					
		brecciated quartz veinlets to 2 cm at 30-45°					
		T.C.A. These are surrounded by a strongly					
		chloritic carbonaceous matrix.					
		593' - 606.8'; A strong chloritic carbonaceous zone					
		that is highly fractured brecciated in part,					
		with a few 2-6" silicified sections.					
		Mineralization:					
		565' - 572'; Trace disseminated pyrite.					
		572' - 577.8'; Trace disseminated pyrite to 1%					
		locally					
		577.8' - 593'; Trace to 3% pyrite as finely disse-					
		minated cubes with one solid mass approximately					
		1 cm x 3 cm.					
		593' - 606.8'; Trace disseminated pyrite.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
606.8	608.0	QUARTZ EYE FELSIC VOLCANICS	Light greenish grey aphanitic, felsic volcanic lying at 45-50° T.C.A. Abundant (3-5%) quartz eyes from 0.1 to 3 mm in diameter, smokey white in colour. Numerous hairline to 5 mm calcite veinlets. Trace 1% finely disseminated pyrite cube.					
608.0	615.3	ANDESINE BASALT	Medium greenish grey very fine grained mafic volcanics becoming fine grained in part. Alteration: weak pervasive chlorite, moderate to strong on fracture surfaces. Moderate pervasive calcite. Numerous calcite veinlets from 1-10 mm wide at 45-60° T.C.A. Moderately silicified from 610.5' to 613'. Mineralization: a small trace of disseminated pyrite is visible.					
615.3	619.5	FELDSPAR PORPHYRY	Rock is light to medium grey with white plagioclase phenocrysts from 2 to 4 mm in length in an aphanitic siliceous matrix. Upper and lower contacts are sharp, however, contact at 45° T.C.A. Alteration: There are several 2-5 mm quartz calcite veinlets at various angles. Some veinlets are stained rose/purple, weak chlorite on fracture surfaces. Mineralization: Trace to 1% finely disseminated pyrite.					
619.5	623.2	DIORITE	The rock is medium grey, grain size grades from medium to coarse rounded grey white, feldspar is a fine matrix to a fairly uniform fine to very fine grained texture at 523'. Alteration: Very weak pervasive chlorite, moderate on fracture surfaces. 4-5% pervasive carbonatization. There are 3 quartz calcite veinlets approximately 1 cm wide, stained pink in part.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd	Mineralization: Trace pyrite occurs as finely disseminated cubes and occurs mostly as small blebs to 5 mm. A few specks of chalcopyrite occurs with one of the quartz calcite veinlets.	65747	617.0	620.0	3.0	9
				65748	620.0	623.0	3.0	12
				65749	629.0	632.0	3.0	11
				65750	637.0	640.0	3.0	18
				65751	643.0	646.0	3.0	40
623.2	630.7	FELDSPAR PORPHYRY	This porphyry is very similar to the porphyry from 515.3 - 519.5'. The contacts are sharp. It has a small trace of finely disseminated pyrite.	65752	646.0	649.0	3.0	10
			Medium grey very fine to fine grained diorite with sharp contacts. Moderate chlorite on fracture surfaces, weakly pervasively carbonatized with a few 3-8 mm wide quartz calcite veinlets. There is a small trace of disseminated pyrite.					
			Porphyry as above with trace disseminated pyrite increasing to 1% near the lower contact.					
638.4	640.2	BASALT/ ANDESITE	Medium grey aphanitic massive mafic volcanics, however contact at 45-50° T.C.A. Weak pervasive chlorite, moderate in fracture surfaces. 2-3% calcite in hairline to 2 mm veinlets. Short (2-4") silicified section. Trace pyrite in 1-2 mm blebs.					
640.2	649.7	FELDSPAR PORPHYRY (RED IN PART)	Light grey to reddish grey, plagioclase crystals from 2-5 mm, stained pink in part, in an aphanitic matrix. Alteration: Moderate hematite staining in part. Very weak pervasive carbonatization. Numerous 1-5 mm quartz calcite veinlets. Mineralization: Trace disseminated pyrite and two 1 mm wide pyrite seams at 645'.					

E. O. H.

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hole No: 1316-33

Property: Tyranite (Duggan)	NTS:	Township: Knight
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG 6649	Coordinates: L11+50N; 50+50W
Azimuth: 090°	Dip: -45°E	Length: 100.0'
Logged By: D. Pilkey	Casing: 0 - 2.0'	Elevation:
Date Started: October 22, 1987	Date Completed: October 23, 1987	Date Logged: October 24, 1987
Core Size: BQ	Core Location: Tyranite Mine Site	Samples Shipped:
Drill Company: Bill Link	Overburden:	Checked: D. Pilkey Jan. 8, 1988

Acid Dip Tests

1. None taken

2.

Purpose Shallow sample hole to test Duggan Zone.

Conclusions Significant Intersection: 23 to 28 - 5 ft. @ 0.185 oz gold/ton.

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

Hole No: 1316-35

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	1.75	CASING					
1.75	26.8	MONZONITE GRANO- DIORITE	56637 56638 56639 56640 56641 56642 56643 56644 56645	2.0 3.9 6.9 9.9 12.9 14.9 17.9 20.9 23.9	3.9 6.9 9.9 12.9 14.9 17.9 20.9 23.9 27.4	1.9 3.0 3.0 3.0 2.0 3.0 3.0 3.0 3.5	313 27 5 9 1123 116 101 43 10
		MINERA- LIZED ZONE (12.9' - 14.75')					
		12.9' - 14.75'; Sequence of moderate-heavy altera- tion in monzonite host rock; characterized by veinlets and bands of grey-white, fleshy pink and white calcite which are intruded by black chloritic strings, threads and lenticular blebs, as well as reddish-orange hematized and green epidote-enriched mon- zonite. Sulphide mineralization: Altered sequence profusely mineralized with pale yellow con- densed blebs and euhedral crystals of pyrite.					
		19.2'; Matrix of monzonite rock unit darkens with black patches and with band foliations as it becomes increasingly chloritized.					
		22.25' - 23.6'; Blackish green mafic volcanic sec- tion (andesite) intruding monzonite @ 100° T.C.A.; section is weakly-moderately altered with grey-white calcite strings, threads and lenticular blebs as well as hematized - gossanized patches.					

From (ft)	To (ft)			Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd	23.8' - 24.1'; Greenish-black medium grained mafic intrusive (diabase) @ 120° T.C.A.; diabase intruded intermittently by calcitic veinlets (grey-reddish-white in colour @ 70° T.C.A.)					
26.8	96.7	ALTERATION ZONE (ALTERED MONZONITE GRANO-DIORITE	Extreme profuse alteration of monzonite sequence; rock unit displays a "montage" of various colours and textures.	56646	27.4	30.4	3.0	209
			26.8' - 36.7'; Remnant structures of monzonite/granodiorite unit still evident as a medium-coarse grained felsic intrusive with severe reddish-orange hematitic staining and olive green epidote enrichment of leukocratic minerals (plagioclase, orthoclase, quartz); also abundant through sequence are greenish-black chloritic patches of host rock, black chloritic strings and threads, fleshy-white calcite veinlets and pods, grey carbonaceous patches and calcareous enrichment of rock through the entire sequence.	56647	30.4	33.4	3.0	76
		* ZONE OF EXTENSIVE SULPHIDE MINERALIZATION 26.8 - 57.4	36.7' - 40.0'; Altered rock now displays rare remnant structures of monzonite sequence, base colour of rock is grey black indicating prominent chloritic alteration grading into a texture dominated by white siliceous veinlets, sineous linear aligned siliceous threads; and ashen-grey coloured threads, tributaries of flow-aligned siliceous threads; also transecting sequence are grey-white calcareous veinlets, strings.	56648	33.4	36.4	3.0	11
			40.0'; Profuse alteration shown with little evidence of monzonite host rock; sequence is grey-green to olive green, fine to medium grained, denoting extreme chlorite alteration and epidote enrichment, remnant leukocratic minerals from host monzonite unit occur as reddish-orange hematized veinlets and patches; textures throughout sequence vary from calcite and silicic veins or bands intruding the epidote enriched hematized monzonite to					

From To
(ft) (ft)

Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)	oz
56649	36.4	39.4	3.0	1066	0.03
56650	39.4	42.4	3.0	4462	0.13
56651	42.4	45.4	3.0	371	
56652	45.4	48.4	3.0	224	
56653	48.4	51.4	3.0	3036	0.08
56654	51.4	54.4	3.0	6065	0.17
56655	54.4	57.4	3.0	4292	0.12
56656	57.4	60.4	3.0	5119	0.14
56657	60.4	63.4	3.0	<5	
56658	63.4	67.9	4.5	1387	0.04

cont'd

the more pronounced "marbled" or "swirling" pattern created by the intermingling of green altered monzonite with intruding cream-coloured siliceous lenses and veinlets and grey-white calcite veinlets and pods.

40.0' - 67.9'; The most striking textural feature occurs from 40.0' to 41.3' where a definite segregated flow banding takes place; grey-white siliceous veinlets flow alternately with light black chloritized monzonite giving this section a "zebra - stripe" effect, this flow pattern strikes core axis at 135° and is fed by a dendritic-like pattern of black chloritic; a minor brecciated texture is also apparent as angular carbonaceous and siliceous fragments transected by chloritic and pyritic strings and tributaries; fuchsite (mariposite) appears with siliceous and quartzose veinlets and intrusions as apple green flecks or freckles and as brecciated apple green patches in the altered monzonite sequence.

Sulphide mineralization: Profuse sulphide mineralization occurs throughout the entire altered sequence as pyritic stringers, disseminated flecks and blebs and as euhedral pyritic crystals.

67.9' - 82.9'; Greyish-green to blackish green moderate to heavily altered monzonite; monzonite structural features reappear as dark blackish green highly chloritized medium coarse grained subhedral crystals; plagioclase predominates leukocratic mineral composition; sequence is profusely carbonatized throughout with frequent calcitic veins, patches, tributaries and blebs. (Calcite veins are grey-white to fleshy-white in colour); monzonite unit is also

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		cont'd					
			56659	67.9	70.9	3.0	74
			56660	70.9	73.9	3.0	1690 0.0
			56661	73.9	76.9	3.0	<5
			56662	76.9	79.9	3.0	15
			56663	79.9	82.9	3.0	11
			56664	82.9	85.9	3.0	521
			56665	85.9	88.9	3.0	4317 0.15
			56666	88.9	91.9	3.0	2483 0.07
			56667	91.9	94.9	3.0	1536 0.04
			56668	94.9	96.7	2.2	43
SULPHIDE MINERALI- ZATION: 82.9 - 100.0	82.9' -	100.0'; Monzonite becomes extremely altered with little evidence of relic structures; sequence is greyish olive green predominantly with minor sections greenish-grey; unit is profusely carbonatized with grey-white lenses, grey-white and amber-white veinlets - strings - tributaries. Monzonite is moderately silicified with white quartz veinlets and strings. Also observed were black chloritic strings, blebs and intermittent fuchsite (mariposite) blebs with zones of fuchsite and carbonaceous epidote enriched host rock.					
	90.1' -	90.75'; Dark olive-pea green coloured altered monzonite; (fuchsite-chlorite-epidote enriched); transected by white quartz veinlets, strings, blebs; heavily mineralized with disseminated pyrite blebs.					
	91.9' -	93.0'; Zone of pale greenish grey brecciated carbonatized monzonite; radiating black chloritic strings and fuchsite are also prominent.					
	99.1' -	100.0'; Crimson red hematized stained altered monzonite. Sulphide mineralization; Moderately mineralized with disseminated flecks, condensed blebs and stringers of pyrite.					

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hole No: 1316-36

Property: Tyranite (Duggan) NTS: Township: Knight
Partner: Tyranex/Gunnar Gold/Mill City Claim #: GG 6649 Coordinates: L13+00N; 503+50W
Azimuth: 090° Dip: -45°E Length: 100.0'
Logged By: D. Pitkey Casing: 2.0' Elevation:
Date Started: October 25, 1987 Date Completed: October 26, 1987 Date Logged: October 27, 1987
Core Size: BQ Core Location: Samples Shipped:
Drill Company: Bill Link Overburden: Checked: D. Pitkey Jan. 8, 1988

Acid Dip Tests

1. None taken

2.

Purpose Shallow sample hole to test Duggan Zone.

Conclusions Significant Intersection: 70 to 80 - 10 ft. @ 0.0562 oz gold/t.

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

November 5, 1987

Hole No. 1316-36

From (ft)	To (ft)	Description	Sample No	From (ft)	To (ft)	Width (ft)	Au (ppb)	oz/t
0	1.0	Casing	56869	1.0	4.0	3.0	<5	
1.0	100.0	Monzonite	56870	4.0	7.0	3.0	<5	
		<p>1.0' - 38.8' Rock consists of medium grained, massive to weakly foliated monzonite. Composition of monzonite is 35%, black euhedral hornblende grains. Hornblende grains show very weak chlorite alteration. The remainder of the rock consists primarily of subhedral white plagioclase grains and pinkish white to orange alkali feldspar. Alkali feldspar forms from 5% - 15% of monzonite with 40 - 45% plagioclase.</p> <p>Monzonites contain <2% basalt fragments, which range from <1/8" - 2" in length. Basalt fragments are round to subrounded in character. Fragments show strong pervasive chloritization and strong - intense pervasive carbonatization.</p> <p>Monzonites show very weak spotty calcite alteration and minor fracture controlled chlorite alteration. Small calcite veinlets up to 1/4" in width are noted. Calcite is white in colour and commonly show weak fracture controlled chloritization. Finely disseminated pyrite occurs on either side of the vein with strong pervasive hematite giving the veinlets strong alteration halos. Sulphide abundances along the veinlets reach 1-2%, and <1% elsewhere.</p> <p>38.8' - 42.6' (Alteration and mineralized zone) Monzonites are now showing a gradational change from weakly altered to strongly altered. Primary monzonite textures are still clearly visible. Rock now contains moderate pervasive calcite alteration, with weak fracture controlled calcite veining.</p>	56871	7.0	10.0	3.0	171	
			56872	10.0	13.0	3.0	753	
			56873	13.0	16.0	3.0	221	
			56874	16.0	19.0	3.0	131	
			56875	19.0	22.0	3.0	<5	
			56876	22.0	25.0	3.0	924	
			56877	25.0	28.0	3.0	34	
			56878	28.0	31.0	3.0	9	
			56879	31.0	34.0	3.0	9	
			56880	34.0	36.0	2.0	<5	
		56881	36.0	38.8	2.8	62		
		56882	38.8	40.7	1.9	295		
		56883	40.7	42.6	1.9	40		

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
	Monzonite (Cont'd)	Zones of intense pervasive hematite alteration are much more abundant with pyrite forming 1-2% over entire length.					
		42.6 - 100.0: Monzonites now show strong to intense alteration. The rock is fine grained, moderately foliated, and vary in colour from red, pink to light green, reflecting different phases of alteration.	56884	42.6	45.0	2.4	7
			56885	45.0	47.5	2.5	17
		The entire zone exhibits a strong to intense pervasive calcite alteration. No evidence of primary texture and mineralogy are present. The zone contains strongly hematized section and on average all of the zone contains weak-moderate hematite alteration.	56886	47.5	50.0	2.5	93
			56887	50.0	52.5	2.5	96
			56888	52.5	55.0	2.5	456
		Chloritization is present as very fine, chlorite slips with zones of chloritization being less hematitic in character.	56889	55.0	57.5	2.5	452
			56890	57.0	60.0	2.5	740
		Silicification varies from moderate quartz veining to strong zones of pervasive silicification. Quartz is generally milky white to glassy and contains minor amounts of pyrite and moderate calcite alteration.					
		Hematization zones are controlled by the presence of sulphide mineralization, with the most intense hematite in areas of pyrite mineralization.					
		Sulphides occur as euhedral, brassy yellow grains and cubes, blebby pyrite and chalcopryrite and fine foliation controlled pyrite veinlets. Chalcopryrite blebs are very scarce and commonly are associated with larger calcite veinlets, but are always < 1%. Foliations run @65° - 80° T.C.A.					

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
		53.0' - 53.8': Zone is characterized by intense pervasive and fracture controlled calcite alteration, with strong pervasive silicification. Rock has a weak translucent grey appearance. Minor foliation controlled chlorite is noted as small black elongate lenses. Zone contains 2%, large pyrite cubes and tetrahedrons. Grains approach 1/4" in width. Zone also contains minor foliation controlled chalcopryrite smears along planes @ 60° T.C.A.					
		55.5' A small, strongly silicified zone of 3" width is noted. The zone contains 5% large white calcite blebs. Calcite commonly is rimmed by chlorite and occasional pyrite. Pyrite is euhedral and brassy yellow, forming 3 - 4% of zone.	56891	60.0	62.5	2.5	535
	56892		62.5	65.0	2.5	175	
	56893		65.0	67.5	2.5	292	
	56894		67.5	70.0	2.5	558	
		75.0' - 77.0': A zone of intense carbonatized monzonite. Rock is fine grained, light greenish grey in colour.	56895	70.0	72.5	2.5	2386 0.070
	56896		72.5	75.0	2.5	1875 0.0546	
		Zone contains 2%, irregular, milky white calcite stringers. Veinlets are 1/4" or less in width and run @ 70° T.C.A. Veinlets commonly are offset by a fracture system @ 30 - 40° T.C.A. Strong pervasive calcite alteration is also present.	56897	75.0	77.5	2.5	1488 0.0434
	56898		77.5	80.0	2.5	1951 0.0569	
	56899		80.0	82.5	2.5	864	
		Silicification is also abundant occurring as moderate to strong pervasive alteration. Minor blebby chlorite alteration is also present. Spotty hematite alteration is associated with disseminated pyrite mineralization. Pyrite cubes and fine stringers form 2% of zone.	56900	82.5	85.0	2.5	704
	56901		85.0	87.5	2.5	706	
	56902		87.5	90.0	2.5	627	
	56903		90.0	92.5	2.5	1086	

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb) oz/t
		82.5' - 85.0': Zone contain 3-5% pyrite stringers running @ 35°-40° T.C.A. Host rock is strongly hematite and intense calcite altered monzonite. Minor chlorite alteration occurs subparallel to pyrite stringers.					
		95.5' - 97.5': Rock shows strong pervasive calcite alteration, and now exhibit moderate pervasive chloritization. Rock is moderately foliated, fine grained greenish grey in colour. Zone may represent an altered basalt fragment.	56904	92.5	95.0	2.5	811
			56905	95.0	97.5	2.5	1285
			56906	97.5	100.0	2.5	2023

E.O.H.

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hole No: 1316-37

Property: Tyranite (Duggan)	NTS:	Township: Tyrreil
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG6649	Coordinates: L13+50N; 50+50W
Azimuth: 090°	Dip: -45°E	Length: 102'
Logged By: R. deGagne	Casing: 0 - 3.2'	Elevation:
Date Started: October 26, 1987	Date Completed: October 27, 1987	Date Logged: October 29, 1987
Core Size: BQ	Core Location:	Samples Shipped:
Drill Company: Bill Link	Overburden: 1'	Checked: D. Pilkey Jan. 8, 1988

Acid Dip Tests

1. None done

2.

Purpose Shallow sample hole to test Duggan Zone.

Conclusions Significant Intersections:

54.2 to 57.2 - 3 ft @ 0.0584 oz gold/ton

72.2 to 75.2 - 3 ft @ 0.120 oz gold/ton

NORWIN RESOURCES LIMITED
DIAMOND DRILL LOG

Hole No: 1316-37

From (ft)	To (ft)	Drill Log Summary	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	3.2	CASING					
3.2	42.2	<p>MONZONITE/ GRANODIORITE -grey to pinkish-grey medium grained - homo- geneous through sequence -alteration: weakly carbonatized, contains hematite - stained pyritic bands.</p> <p>Sulphides: pyrite as disseminated blebs, subhedral-anhedral crytals confined to hematized sections.</p> <p>Sulphide Zones: 12.75' - 14.2' 32.9' - 34.6' 35.2' - 40.25'</p>					
42.2	102.0	<p>ALTERED MONZONITE GRANODIORITE Profusely, intensely altered -no observable monzonite features -variegated texture -epidote-enriched, carbonatized, silicified, chloritized -observable fuchsite (mariposite) -grades into strongly hematized brick-red monzonite -profuse pyrite mineralization throughout sequence (disseminated pyrite specks, condensed pyritic blebs, interstitial stringers)</p> <p>Sulphide Zones: 43.3' to 90.2'</p>					
102.0		E.O.H.					

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

Hole No: 1316-37

From	To	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	3.2'	CASING (O/B)					
3.2'	42.2'	MONZONITE/ GRANODIORITE	56908 56909	3.2 6.2	6.2 9.2	3.0 3.0	13 6

Mottled whitish-grey to pinkish grey medium-coarse grained felsic intrusive (monzonite/granodiorite); where rock unit is unaltered, a homogenous granular texture is displayed with leucocratic subhedral crystals of plagioclase, orthoclase, quartz; ferro-magnetite minerals are randomly dispersed, also present are lenticular and podular "freckles" or "splotches" of black chlorite; Alteration within monzonite sequence is most conspicuous as bright orange-red hematitic pigmentations in host rock (predominantly as pyritic rich foliations or bands surrounding intruding white calcitic veinlets), also apparent are veinlets of white anhedral quartz and white subhedral calcite; grey-white calcareous stringers, black chloritic blebs, strings and isolated patches of chloritized monzonite.

SULPHIDE MINERALIZATION: Sulphides are almost entirely confined to hematized pigments of monzonite where they occur as disseminated pyrite blebs; also evident are subhedral pyrite crystals white calcite veinlets; The pyrite-rich hematitic stains occur discontinuously through monzonite succession.

From (ft)	To (ft)	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
ZONES OF SULPHIDE MINERALIZATION: 1) 12.75' - 14.2'						
		56910	9.2	12.2	3.0	27
		56911	12.2	15.2	3.0	345
		56912	15.2	18.2	3.0	77
		56913	18.2	21.2	3.0	25
11.6'	- 14.2':	56914	21.2	24.2	3.0	66
	Alteration zone within monzonite	56915	24.2	27.2	3.0	85
	sequence characterized by dark greenish-	56916	27.2	30.2	3.0	156
	black chloritized host rock, white quartz	56917	30.2	33.2	3.0	75
	"wedges" or "tongues", veinlets and lens	56918	33.2	36.2	3.0	203
	of pink-white calcite, patches grey-purple	56919	36.2	39.2	3.0	526
	carbonatized monzonite, and orange-red	56920	39.2	42.2	3.0	304
	hematized monzonite saturated with dis-					
	seminated pyrite blebs and grey-white					
	calcitic string.					
33.0':	$\frac{1}{4}$ " - $\frac{1}{2}$ " veinlet of white anhedral cal-					
	cite (at 80° T.C.A.) bounded on either					
	periphery by black-grey chloritic threads;					
	veinlet is "sandwiched" between brick-red					
	hematite enriched foliations of monzonite					
	which contain disseminated pyrite blebs;					
	two subhedral crystals of pyrite (2mm in					
	diameter) are present within calcite vein-					
	let.					
33.0' -	34.7':					
	Alteration zone in monzonite dis-					
	tinguished by dark green-grey highly					
	chloritized-carbonatized host rock, hem-					
	atite-epidote stained foliations, while					
	calcite lens and grey-white carbonaceous					
	strings; Sequence is saturated with dis-					
	seminated pyrite blebs; Pyritic wedge					
	(2 - 4mm in diameter) is present in cal-					
	cite veinlet.					
35.4' -	41.2':					
	Zone of diffuse hematitic staining					
	of monzonite; Segments of green-black					
	chloritized and epidote enriched host rock;					

From To
(ft) (ft)

From (ft)	To (ft)	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)	oz/ TN
cont'd	Sequence permeated by transecting veinlets and threads of white to grey-white calcite and disseminated pyrite blebs.	56921	42.2	45.2	3.0	458	
		56922	45.2	48.2	3.0	351	
		56923	48.2	51.2	3.0	1012	
ALTERED MONZONITE/ GRANODIORITE	Excessively altered monzonite sequence; Structural properties, characteristics of monzonite diminish abruptly and are denoted only by periodic appearances of brick-red hematized and dark blackish-green heavily chloritized-carbonatized host rock. ALTERATION: The intense alteration of this sequence give the texture a polychromatic "marbled" or variegated appearance; included in this mosaic are: apple-green patches of epidote-enriched monzonite host rock; veinlets and wedges of white amorphous quartz running both across and concordant to core axis; Lenses, patches of black chloritized host rock and dendritic tributaries that transect core irregularly giving altered rock an almost brecciated outlook; Sequence is moderately carbonatized with pink-flesh coloured anhedral-subhedral calcite veinlets and calcareous grey-white strings; Noticeable to a lesser extent are sea green-emerald green patches of fuchsite (mariposite) endowed monzonite. SULPHIDE MINERALIZATION: The altered monzonite sequence is permeated with pyrite mineralization; It occurs as disseminated flecks and blebs, isolate subhedral-euhedral crystals and interstitial tributaries and strings. 61.2' - 71.5'; Texture of altered monzonite becomes	56924	51.2	54.2	3.0	1081	
		56925	54.2	57.2	3.0	2004	0.0534
		56926	57.2	60.2	3.0	759	
		56927	60.2	63.2	3.0	702	

From To
(ft) (ft)

cont'd

ZONE OF
SULPHIDE
MINERALIZATION
(43.3' - 90.2')

less variegated and more homogenous as structural features reappear; colour of monzonite is pale brick red indicating prominent hematitic staining; Periodic patches of pale green epidote - enriched host rock are also distinguishable; Sequence is moderately carbonatized (with sporadic grey white calcite strings); tributaries of black chloritic strings abound as do veinlets and lenses of white amorphous quartz.
SULPHIDES: Pyrite mineralization occurs regularly throughout unit as: disseminated flecks in host rock; condensed podular blebs prominent in quartz lenses and interstitially as a replacement for differentially eroded chlorite in stringers.

71.5' - 73.3': Grey, highly silified section of monzonite host rock.

73.3' - 102.0': Pale brick-red monzonite grades into a dark olive green colour, remnent monzonite features are difficult to detect; section profusely carbonatized with fleshy pink veinlets, pods, wedges - grey-white strings and pervasive white flecks saturated in host rock. Streams of black chlorite are also prominent as are black chlorite podular blebs; Pyrite mineralization is evident through sequence as disseminated flecks and isolated interstitial pyritic strings and blebs is but less frequent relative to prior sequences.

100.7' - 102.0': Monzonite returns as brick red brecciated subrounded "islands" cut by black chloritic tributaries.

Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)	OZ/TN
56928	63.2	66.2	3.0	419	
56929	66.2	69.2	3.0	560	
56930	69.2	72.2	3.0	314	
56931	72.2	75.2	3.0	4122	0.120
56932	75.2	78.2	3.0	1522	0.0444
56933	78.2	81.2	3.0	1159	0.0258
56934	81.2	84.2	3.0	1985	
56935	84.2	87.2	3.0	421	
56936	87.2	90.2	3.0	706	
56937	90.2	93.2	3.0	1553	0.0453
56938	93.2	96.2	3.0	636	
56939	96.2	102.0	3.0	580	

E.O.H.

GUNNAR GOLD / MILL CITY INC.
DIAMOND DRILL LOG

Hole No: 1316-38

Property: Tyranite	NTS:	Township: Knight
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG 6649	Coordinates: L14+00N; 50+50W
Azimuth: 090°	Dip: -45°E	Length: 97.7'
Logged By: R. de Gagne	Casing: 0 - 1.0'	Elevation:
Date Started: October, 27, 1987	Date Completed: October 28, 1987	Date Logged: October 31, 1987
Core Size: BQ	Core Location:	Samples Shipped:
Drill Company: Bill Link	Overburden:	Checked: D. Pilkey Jan. 8, 1988

Acid Dip Tests

1. None taken

Purpose Shallow sample hole to test Dggan Zone.

Conclusions Significant Intersections:
80.3 to 92.3; 12 ft. @ 0.148 oz gold/ton.

NORWIN RESOURCES LIMITED
DIAMOND DRILL LOG

Hole No: 1316-38

From (ft)	To (ft)	Drill Hole Summary	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	77.3	MONZONITE/ GRANODORITE					
		-homogeneous throughout section -weakly altered -contains frequent banded sections of red hematized host rock -pyrite mineralization indigenous to hematized sectors - occurring as dissem- inated blebs, isolated subhedral to anhedral crystals.					
		SULPHIDE ZONE: 37.25 to 74.3					
77.3	93.7	ALTERED MONZONITE/ GRANODIORITE					
		-chloritized, carbonatized, silicified hematized; textured variegated although alteration is not as intense as observed in D.D.H.'s to the south, as remnant monzonite features can still be seen irregularly through sequence.					
		SULPHIDE ZONE: 77.5 to 93.7					
93.7	97.7	MONZONITE/ GRANODIORITE					
		-carbonatized, moderately chloritized -epidote enriched -weakly hematized -contains brecciated section of chloritized- monzonite fragments. -sparse disseminated pyrite mineralization					
	97.7	E.O.H.					

NORWIN RESOURCES LIMITED
DIAMOND DRILL LOG

Hole No: 1316-38

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	77.3'	MONZONITE/ GRANODIORITE					
		0' - 37.25': Mottled black, white grey to pale pink medium to coarse grained felsic intrusive (monzonite); leucocratic minerals include anhedral - subhedral crystals of plagioclase, alkali feldspar, quartz; sequence is homogeneous for the most part but is interrupted intermittently by transecting laminations of brick-red hematized host rock which are in turn cut by white calcitic veinlets; also discernable are black blebs of chlorite and pods of chloritized monzonite; unit is weakly - moderately carbonatized as denoted by occasional grey-white calcareous veinlets.	53914	0	4.3	4.3	19
			53915	4.3	7.3	3.0	16
			53916	7.3	10.3	3.0	13
			53917	10.3	13.3	3.0	308
			53918	13.3	16.3	3.0	115
			53919	16.3	19.3	3.0	6
			53920	19.3	22.3	3.0	75
			53921	22.3	25.3	3.0	215
			53922	25.3	28.3	3.0	9
			53923	28.3	31.3	3.0	78
			53924	31.3	34.3	3.0	77
			53925	34.3	37.3	3.0	67
			53926	37.3	40.3	3.0	351
			53927	40.3	43.3	3.0	222
			53928	43.3	46.3	3.0	268
		SULPHIDE MINERALIZATION: Sulphides in the form of anhedral - subhedral crystals of pyrite, as well as pyritic blebs are confined to the hematitic stained monzonite bands (2" - 4" wide).	53929	46.3	49.3	3.0	390
			53930	49.3	52.3	3.0	145
			53931	52.3	55.3	3.0	247
		37.25' - 74.3': Structural properties of monzonite are still evident but rock unit has undergone intense hematization as witnessed by its brick-red coloration; also evident but less frequent are dark olive green foliations and patches of epidote-enriched host rock. Monzonite is transected irregularly by white quartz veinlets and grey carbonate threads and strings; frequent lenses and wedges of grey-white to fleshy-white calcite are also observed.					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
		con't					
		Pyritic mineralization permeates sequence as pale yellow anhedral blebs, disseminated flecks and isolated subhedral crystals.	53932	55.3	58.3	3.0	484
			53933	58.3	61.3	3.0	266
			53934	61.3	64.3	3.0	63
	74.3'	77.3': Once prominent brick-red hematite stained monzonite is now waning and grades into a dark greenish-grey medium grained monzonite that is freckled with chloritic blebs; sequence is cross-cut by brick red	53935	64.3	67.3	3.0	446
			53936	67.3	70.3	3.0	240
			53937	70.3	72.3	2.0	254
			53938	72.3	74.3	2.0	2273
			53939	74.3	77.3	3.0	589
		hematized veinlets of monzonite host rock and bands of carbonaceous green epidote-enriched monzonite which in turn is penetrated by grey-white calcitic and black chloritic veinlets, strings.					
	74.8':	1" band of carbonaceous greenish-red epidote enriched, hematized monzonite @ 110° T.C.A.; band is transected by parallel white calcitic veinlets running concordant with strike of band.					
	75.7':	1" - 2" band of green epidote-enriched monzonite with minor brick red hematite stained host rock @ 110° T.C.A., striking parallel to band are two veinlets of white calcite and a black chlorite string.					
	76.7':	1" - 2" band of pale olive green epidote enriched slightly carbonatized and silicified monzonite @ 110°, band is cut by a parallel veinlet of grey-white amorphous calcite; disseminated pyrite flecks are discernable throughout band.					
77.3	93.7	ALTERED MONZONITE GRANODIORITE					
		Sequence of altered felsic intrusive (monzonite); alteration is not as intense as observed in previous core from D.D.H.'s to the south (ie - D.D.H.'s 37, 36, 35) which may be due to a waning or pinching out of lenticular alteration zone to the north.					

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)	oz/t
		cont'd	53940	77.3	80.3	3.0	1065	
		Remnant monzonite structures are discernable as irregular patches of dark-green medium grained rock that appears to have been chloritized and epidote-enriched; alteration of monzonite is characterized by a moderate variegation of monzonite texture creating a "marbled" effect, sequence is moderately - heavily carbonatized with white cross-cutting calcitic veinlets, stringers - pods wedges of white calcite as well as white calcitic blebs in monzonite matrix; silicification is apparent as intruding white amorphous quartz veinlets, wedges. And pale greenish-grey sections of silicified host rock; black chloritic freckles or blebs mottle the surface throughout as do tributaries of calcareous chloritic strings.	53941	80.3	83.3	3.0	2754	0.080
			53942	83.3	86.3	3.0	3884	0.113
			53943	86.3	89.3	3.0	10673	0.311
			53944	89.3	92.3	3.0	2999	0.0875
			53945	92.3	93.7	1.4	1402	0.0409
			53946	93.7	95.7	2.0	1468	0.0425
			53947	95.7	97.7	2.0	1553	0.0453
		88.2' - 93.7': Sequence becomes highly hematized as noted by brick-red colouration of host rock.						
		SULPHIDE MINERALIZATION: Occurs as disseminated pyrite flecks and condensed lenticular blebs of anhedral crystals as well as interstitial pyritic stringers.						
93.7	97.7	MONZONITE/ GRANODIORITE						
		Dark green - olive green epidote-enriched, chloritized and highly carbonatized medium grained monzonite; alteration is evident in sequence however remnant characteristics predominate; thin belts and lenses of calcareous hematized monzonite are observable as are grey-white calcitic threads.						
		94.8' - 95.6': Brecciated fragments of dark blackish-green cub-rounded highly chloritized, carbonatized monzonite (up to 1" in diameter) get in a ground-mass of carbonaceous medium-grained green host rock.						
		SULPHIDE MINERALIZATION: Sulphides are distinguishable as irregular disseminated flecks.						

GUNNAR GOLD / MILL CITY INC.

DIAMOND DRILL LOG

Hole No: 1316-39

Property: Tyranite	NTS:	Township: Knight
Partner: Tyranex/Gunnar Gold/Mill City	Claim #: GG6649	Coordinates: L14+50N; 50+50W
Azimuth: 090°	Dip: -45°E	Length: 98.3'
Logged By: R. deGagne	Casing: 0 - 4.4'	Elevation:
Date Started: October 28, 1987	Date Completed: October 29, 1987	Date Logged: November 3, 1987
Core Size: BQ	Core Location: Tyranite Mine Site	Samples Shipped:
Drill Company: Bill Link	Overburden: 2'	Checked: D. Pilkey Jan. 8, 1988

Acid Dip Tests

1. None taken
-

Purpose Short sample hole to test Duggan Zone.

Conclusions Significant Intersections:

28.9 to 31.9 - 3 ft @ 0.0778 oz gold/ton

67.7 to 70.7 - 3 ft @ 0.0687 oz gold/ton

NORWIN RESOURCES LIMITED
DIAMOND DRILL LOG

Hole No: 1316-39

From (ft)	To (ft)	Drill Log Summary	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
0	4.4	CASING (O/B)					
4.4	64.7	MONZONITE/ GRANODIORITE					
		-mottled black, grey-white; medium - coarse					
		-weakly to moderately carbonatized					
		-irregular hematite - stained brick-red bandings					
		SULPHIDE ZONE: 44.1' - 46.8'					
		47.3' - 51.2'					
		57.7' - 59.8'					
64.7	98.3	ALTERED MONZONITE/ GRANODIORITE					
		-heavily altered (epidote-enriched, hematized, carbonatized)					
		-monzonite structural features					
		-grades into 2 extensively carbonatized-epidote enriched					
		SULPHIDE ZONE: 64.7' - 81.9'					
		92.1' - 98.3'					
98.3		E.O.H.					

NORWIN RESOURCES LIMITED

DIAMOND DRILL LOG

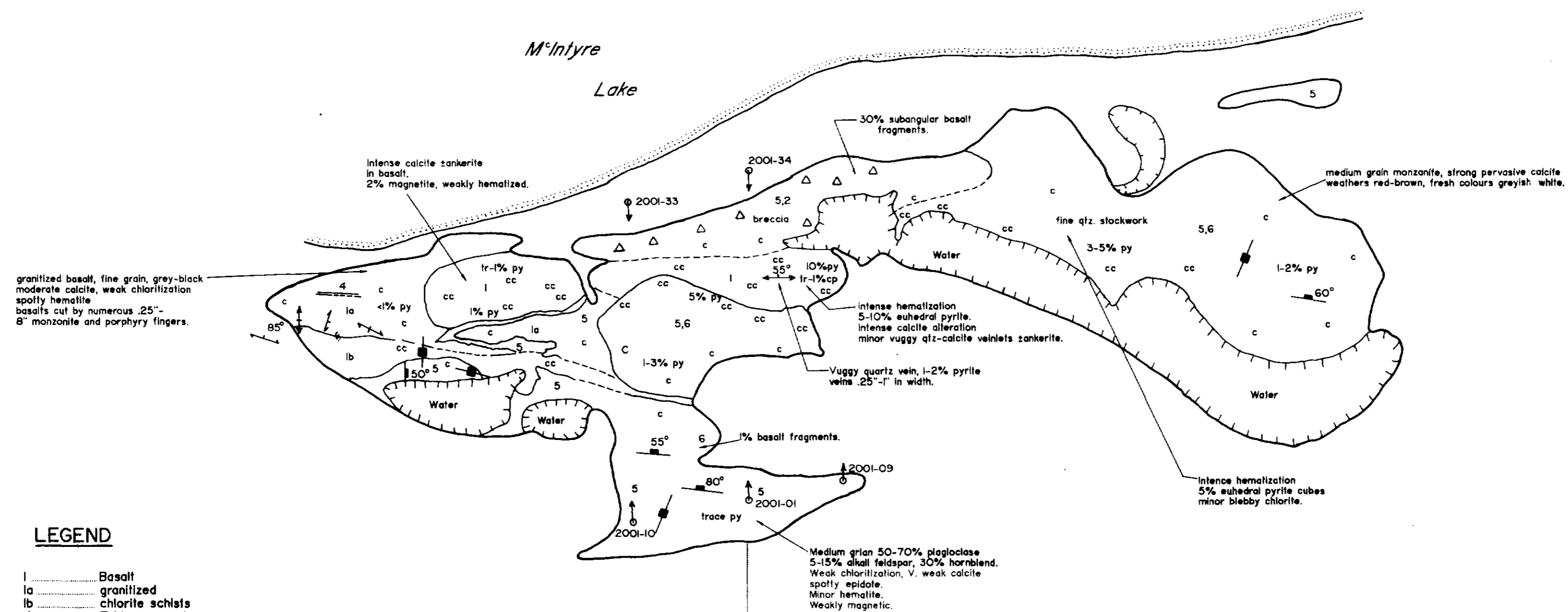
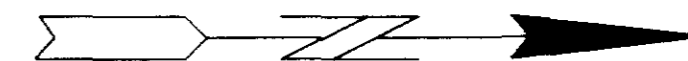
Hole No: 1316-39

From (ft)	To (ft)	Description	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)(oz/t)
0	4.4	CASING					
4.4	64.7	MONZONITE GRANO- DIORITE (SULPHIDE ZONES:)	56940	4.4	7.9	3.5	99
		Mottled black, grey, white medium to coarse grained monzonite; prominent leucocratic minerals include anhedral - subhedral crystals of plagioclase, alkali feldspar and minor quartz and dark ferro-magnetite minerals dis- play a weak "gheissic" flow alignment. Sequence is subject to sporadic intrusions by bands of brick-red hematized monzonite (1" to 4" wide). These bands are permeated with sulphides (disseminated flecks and pyritic blebs; monzonite unit is moderately to extremely carbonatized with numerous transecting greyish-white and flesh coloured veinlets, wedges and less frequently miarolitic cavities of subhedral calcite crystals along fractures; black splotches of chlorite and threads of black carbonaceous chlorite. 43.9' - 59.8'; Increased frequency of brick- red hematite stained sections of monzonite.	56941	7.9	10.9	3.0	47
			56942	10.9	13.9	3.0	36
			56943	13.9	16.9	3.0	38
			56944	16.9	19.9	3.0	71
			56945	19.9	22.9	3.0	531
			56946	22.9	25.9	3.0	147
			56947	25.9	28.9	3.0	12
			56948	28.9	31.9	3.0	2669 c.c775
			56949	31.9	34.9	3.0	24
			56950	34.9	37.9	3.0	22
			56951	37.9	40.9	3.0	114
			56952	40.9	43.9	3.0	64
			56953	43.9	46.9	3.0	820
			56954	46.9	49.9	3.0	228
			56955	49.9	52.9	3.0	134
			56956	52.9	55.9	3.0	
			56957	55.9	58.9	3.0	196
			56958	58.9	61.9	3.0	224

SULPHIDE MINERALIZATION: Pyritic disseminated
flecks and blebs exclusive to hematized mon-
zonite segments.

From (ft)	To (ft)		Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb) (oz/t)
64.7	98.3	ALTERED MONZONITE/ GRANODIORITE					
		64.7' - 81.9': Polychromatic (brick-red, green, olive, white, grey moderately variegated, altered monzonite; grain size ranges from medium to coarse relic monzonite features that have been extensively hematized, chloritized, and epidote-enriched to amorphous- subhedral crystals of intruding cal- cite veinlets, wedges, and patches; also present are cross-cutting threads of black chlorite and podular blebs of the same; sequence extremely carbon- ized, even through remnant monzonite matrix.	56959	61.9	64.7	2.8	233
			56960	64.7	67.7	3.0	917
			65961	67.7	70.7	3.0	2356 c.c687
			65962	70.7	73.7	3.0	1459
			55963	73.7	76.7	3.0	1286
			56964	76.7	79.7	3.0	794
			56965	79.7	81.1	1.4	925
		SULPHIDE ZONE (64.7 - 81.9)					
		SULPHIDE MINERALIZATION: Sulphides present as diffuse pyrite blebs flecks and subdral to euhedral crystals.					
		81.1' - 92.0': Olive green epidote enriched altered monzonite in phenocrysts of greenish-yellow carbonate. Sequence is profusely carbonatized grey white veinlets of calcite cross-cutting core axis as well as numerous grey-white calcitic strings, wedges and tributaries of calcareous black chlorite are also abundant.					

	Sample No.	From (ft)	To (ft)	Width (ft)	Au (ppb)
81.1' - 92.0': Olive green epidote enriched altered monzonite in phenocrysts of greenish-yellow carbonate; sequence is profusely carbonatized grey-white veinlets calcitic strings, wedges and tributaries of calcareous black chlorite are also abundant.	56966	81.1	84.1	3.0	1343
	56967	84.1	87.1	3.0	1457
	56968	87.1	90.1	3.0	1211
	56969	90.1	92.1	2.0	587
	56970	92.1	94.1	2.0	629
	56971	94.1	96.1	2.0	794
	56972	96.1	98.3	2.2	1113
81.1' - 92.1: Conspicuously absent from sequence is the brick-red hematite-stained alteration that was prevalent in previous sections.					
85.9' - 88.4': Zone of grey-white calcitic tributaries, lenses, wedges, get in a matrix of olive-green epidote-enriched monzonite variegated nature of calcite gives sequence a "marbled" appearance; an obtrusive black chloritic "tongue" (1/4" d.) is noted at 86.6'. SULPHIDE MINERALIZATION: Sporadic throughout sequence are disseminated blebs of pyrite.					
92.1' - 98.3': Dark olive green fine to medium grained epidote-enriched monzonite; unit is moderately carbonatized with grey, white and flesh-coloured veinlets of transecting calcite, sequence is also moderately chloritized with black threads.					
97.1' - 98.3': Sequence becomes moderately silicic in white amorphous pods, wedges and fingers that transect host rock. SULPHIDE MINERALIZATION: Altered monzonite is permeated with pyrite flecks, blebs throughout.					

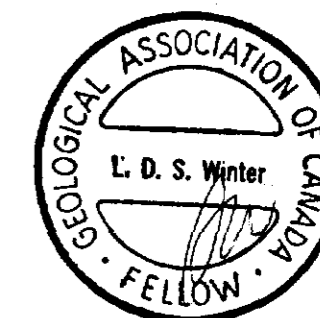


LEGEND

- 1 Basalt
- 1a granitized
- 1b chlorite schists
- 4 Feldspar porphyry
- 5 Monzonite
- 6 Diorite
- chl chloritization
- c weak-moderate calcite alteration
- cc strong-intense calcite alteration
- py pyrite
- cp chalcopyrite
- Drill hole
- △ Breccia
- Foliation
- +—+—+ Joints
- Geological contact
- - - - - Assumed geological contact
- Extent of stripped area
- ||||| Water filled depression

48.00 W
L 12 N

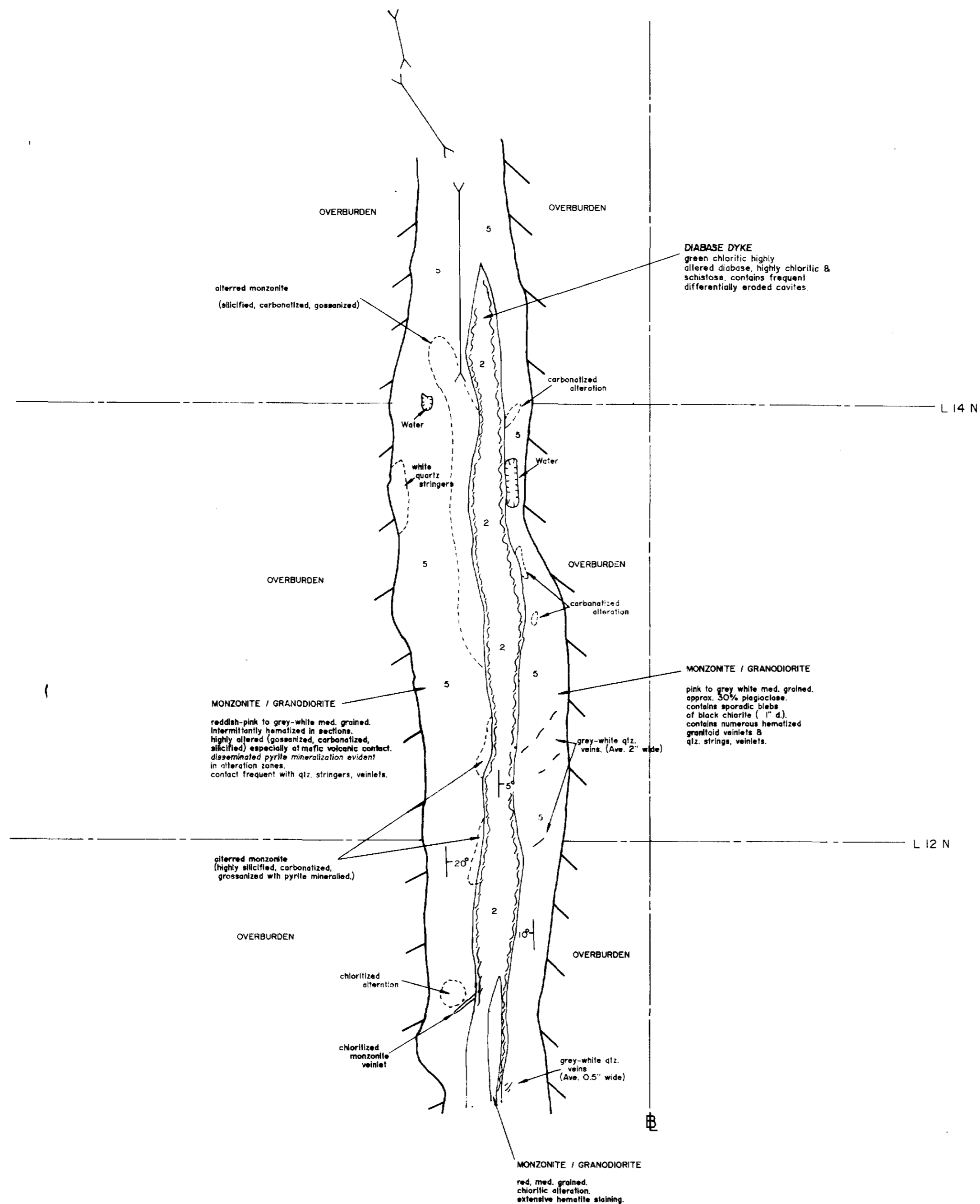
0 40 80 120 FEET



63. 5256

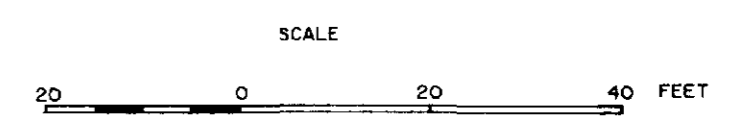
NO.	REVISION	BY	DATE
GUNNAR GOLD / MILLCITY GOLD INC. TYRANITE PROPERTY			
TITLE DUGGAN ZONE - GEOLOGY			
DRW: D. PILKEY	DATE: 16 10 1987	DRAWING NO:	
CHECK'D:	DATE: 16 12 1987.		
APP'D:	SCALE: 1" = 40'	SHT NO:	





LEGEND

- 2 Diabase Dyke (Early)
- 5 Monzonite / Granodiorite
- Blasted trench
- - - Zone of shearing
- - - Picket line
- - - Strike & Dip
- ||| Vertical schistosity
- ||| Thin qtz. veins
- - - Geological contact
- - - Exposed outcropping
- Extent of stripped area
- Water filled depression



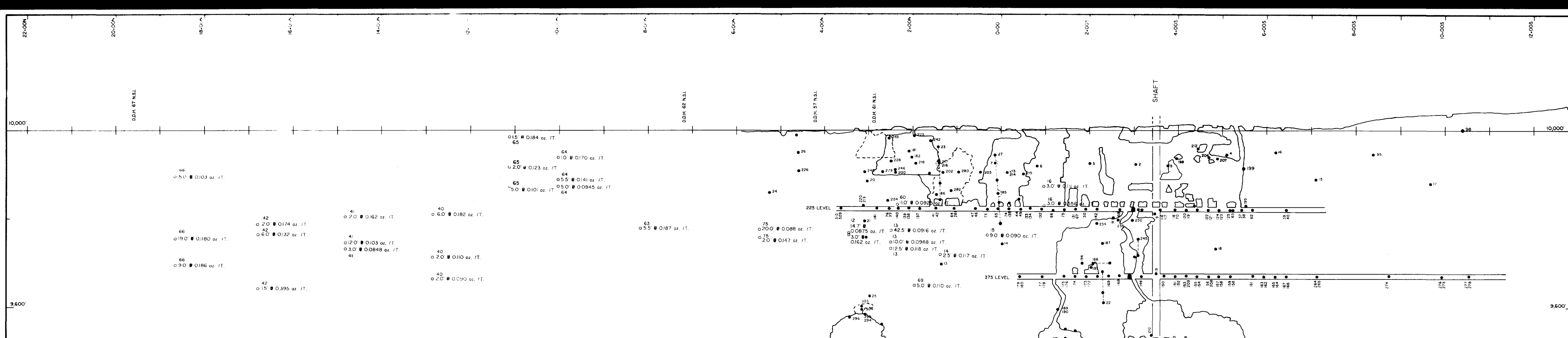
63.5256



NO	REVISION	BY	DATE
GUNNAR GOLD / MILLCITY GOLD INC. TYRANITE PROPERTY			
TITLE NORTH ZONE - GEOLOGY			
DRW: R. de GAGNE	DATE: 18 10 1987	DRAWING NO:	
CHECK'D:	DATE: 17 12 1987		
APPR'D:	SCALE: 1" = 20'	SHT NO:	

0M87-6-L-238





TYRANTE MINES LTD (1938 - 1942)
DRILLING RESULTS

D.D.H. No.	Width (ft)	Pennyweight	Assay (oz/T)	D.D.H. No.	Width (ft)	Pennyweight	Assay (oz/T)	D.D.H. No.	Width (ft)	Pennyweight	Assay (oz/T)
1	10.9	2.20	0.11	120	3.0	2.00	0.10	229			NIL
2	30.8	7.80	0.39	121	2.8	1.20	0.06	230	12.0	7.70	0.385
3	4.75	0.238		122	2.8	1.20	0.06	231	3.0	0.60	0.03
4	30.6	1.10	0.053	123		TR		232	3.0	0.40	0.02
5	27.8	8.84	0.442	124		TR		233	1.6	0.80	0.04
6				125	2.5	6.80	0.34	234	1.0	0.80	0.04
7	14.0	1.72	0.086	126	4.3	3.05	0.153	235	0.5	0.40	0.02
8	5.0	2.13	0.107					236	2.8	0.40	0.02
9	15.8	2.77	0.138					237	4.0	5.95	0.298
10								238	2.5	2.40	0.120
11	13.9	3.00	0.150					239			NIL
12								240	6.0	2.20	0.11
13								241			NIL
14	2.8	1.40	0.070					242	3.0	2.00	0.10
15	8.5	3.85	0.192					243	9.8	3.68	0.184
16	4.6	3.10	0.155					244	19.8	8.00	0.40
17	12.0	1.25	0.012					246	8.0	3.40	0.170
20	1.30	0.065						248	44.6	0.70	0.035
21	20.4	1.95	0.0975					250	15.0	0.40	0.02
22	3.7	2.70	0.135					251	5.5	0.74	0.037
23	4.0	3.80	0.19					252			NIL
	4.4	2.50	0.125					256			NIL
	7.5	2.30	0.145					258			NIL
	4.0	2.75	0.138					264			NIL
	4.3	1.80	0.090					265			NIL
								266			NIL
25	27.7	1.15	0.075					274	3.2	2.00	0.10
26	1.5	4.15	0.208					275			NIL
27	1.6	4.96	0.248					276			NIL
	3.3	3.81	0.191					277			NIL
	2.3	4.15	0.208					278	2.0	2.40	0.120
								279	3.5	2.80	0.140
29	3.2	5.20	0.26					280	5.4	7.20	0.360
30	6.4	4.46	0.173					281			TR
31	0.8	6.98	0.349					282	9.0	3.20	0.160
32	1.20	0.06						284	2.0	14.80	0.74
33	1.10	2.80	0.14					285			NIL
34	6.8	1.75	0.087					286	6.0	0.60	0.03
35								288			NIL
37	11.0	1.70	0.085					289			NIL
38	5.4	2.80	0.14					290			TR
39								291			NIL
40								292	2.0	2.00	0.10
41								293			TR
42	7.8	3.20	0.16					294	9.5	2.90	0.145
44	1.6	6.00	0.30					295			NIL
45	1.8	3.20	0.16					296	6.0	2.80	0.14
46	4.0	3.55	0.179					298	9.0	3.08	0.153
47	3.7	2.00	0.10					299	11.0	1.20	0.06
48	0.8	2.40	0.12					300	1.8	1.20	0.06
49	6.5	3.80	0.19					301			TR
50								302			NIL
51								303	15.0	3.53	0.176
52								304	8.5	0.20	0.01
53	3.5	0.50	0.0345					305	9.0	2.30	0.115
54	2.1	1.20	0.06					306	3.5	3.20	0.160
55	10.3	2.26	0.113					307	4.0	2.80	0.14
56	11.7	3.65	0.183					308			TR
57	8.5	2.26	0.113					309			NIL
58	5.6	2.60	0.13					310			NIL
59	11.3	3.60	0.18					311	5.0	0.60	0.03
60								312			NIL
62	2.0	4.00	0.20					317	13.8	6.75	0.338
63								318	13.5	4.80	0.24
64	4.0	2.00	0.10					319	15.7	3.20	0.16
65	13.5	5.15	0.258					320	9.7	4.00	0.20
66								321	4.6	3.50	0.175
67								322	12.1	4.20	0.21
68								324	13.8	0.80	0.04
69	0.6	5.60	0.28					325	15.5	9.96	0.498
70	3.0	2.80	0.14					326	3.6	0.20	0.01
71	6.9	5.50	0.275								NIL
72	11.3	4.30	0.215								NIL
73	8.5	1.46	0.073								NIL
74	8.5	4.62	0.231								NIL
75											NIL
76	6.3	3.20	0.16								NIL
77	12	0.20	0.26								NIL
78	1.9	6.00	0.30								NIL
79											NIL
80	8.5	4.66	0.233								NIL
81	14.1	2.48	0.124								NIL
82	2.8	2.40	0.12								NIL
83											NIL
84	17.9	2.32	0.116								NIL
85	2.8	1.60	0.08								NIL
86											NIL
87	9.4	1.73	0.0865								NIL
88	11.3	1.90	0.095								NIL
89	9.2	4.50	0.225								NIL
90	18.9	1.85	0.092								NIL
91	5.4	2.10	0.105								NIL
92	12.7	1.70	0.085								NIL
93	15.3	4.80	0.24								NIL
94	5.2	1.6	0.08								NIL
95											NIL
98											NIL
105	11.8	2.24	0.112								NIL
106	4.8	3.50	0.175								NIL
107	17.2	4.10	0.205								NIL
108	10.2	2.85	0.142								NIL
109	6.5	1.64	0.082								NIL
110	15.0	1.90	0.095								NIL
113	10.3	3.85	0.193								NIL
114											NIL
115	3.8	4.80	0.24								NIL
116	3.6	4.00	0.20								NIL
117											NIL
118	5.4	1.62	0.081								NIL
119	8.6	2.13	0.115								NIL

63.5256
GEOLOGICAL ASSOCIATION OF CANADA
L. D. S. WINTER
FELLOW

GUNNAR GOLD INC./MILL CITY GOLD INC.
TYRANTE PROPERTY
NORTH-SOUTH LONGITUDINAL SECTION
MAIN SHEAR ZONE
LOOKING EAST
PART A
KNIGHT & TYRRELL TWP. ONTARIO
BY: NORWIN RESOURCES LTD.

DRAFTED: E.P. / 02 / 88.
SCALE: 1" = 100'

OM87-6-L-238



62 W 60 W 58 W 56 W 54 W 52 W 50 W 48 W 46 W 44 W 42 W 40 W 38 W 36 W 34 W 32 W 30 W 28 W 26 W 24 W 22 W 20 W 18 W 16 W 14 W 12 W 10 W

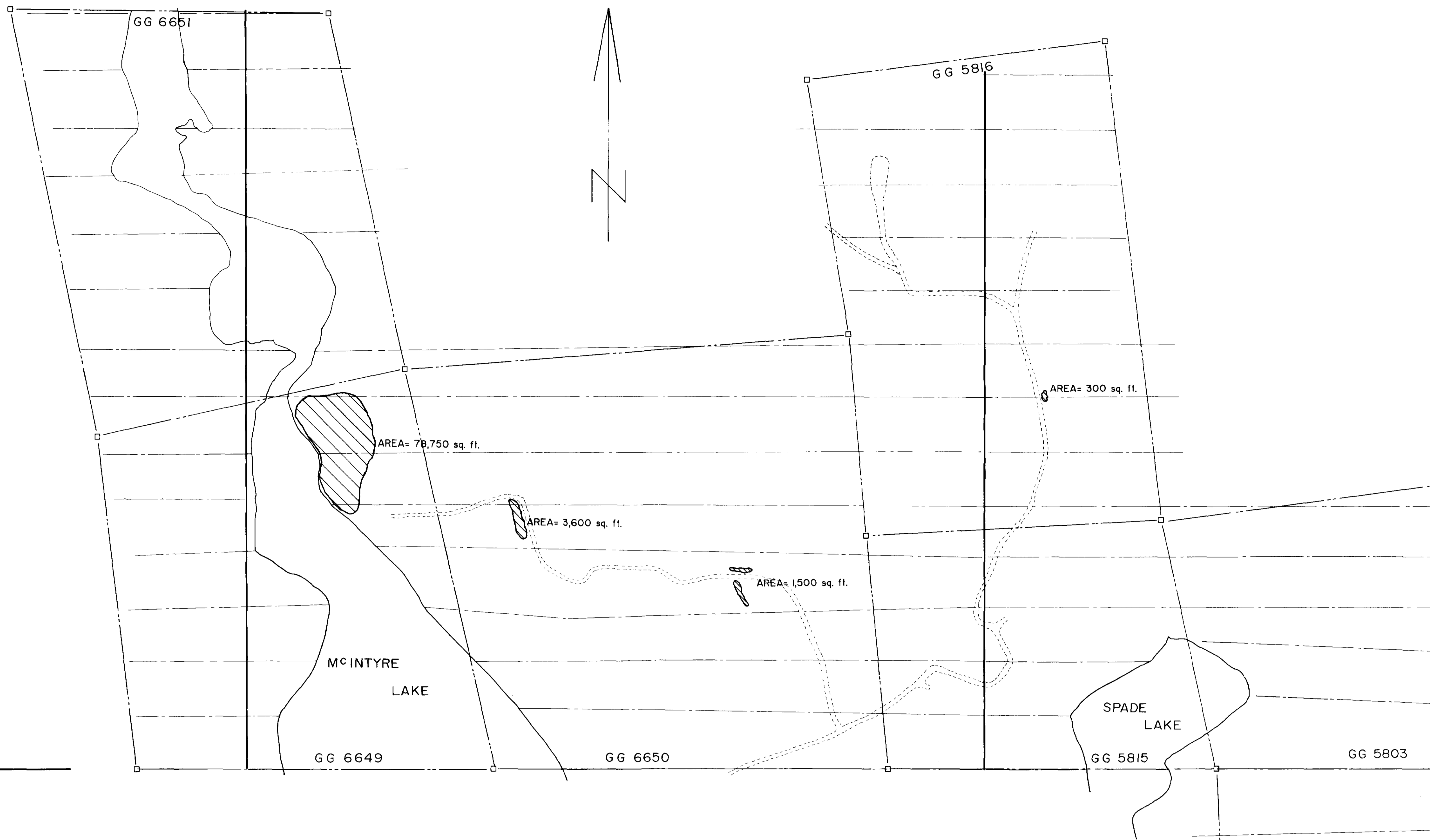
TL 53+40

TL

26 N
24 N
22 N
20 N
18 N
16 N
14 N
12 N
10 N
8 N
6 N
4 N
2 N
0 N

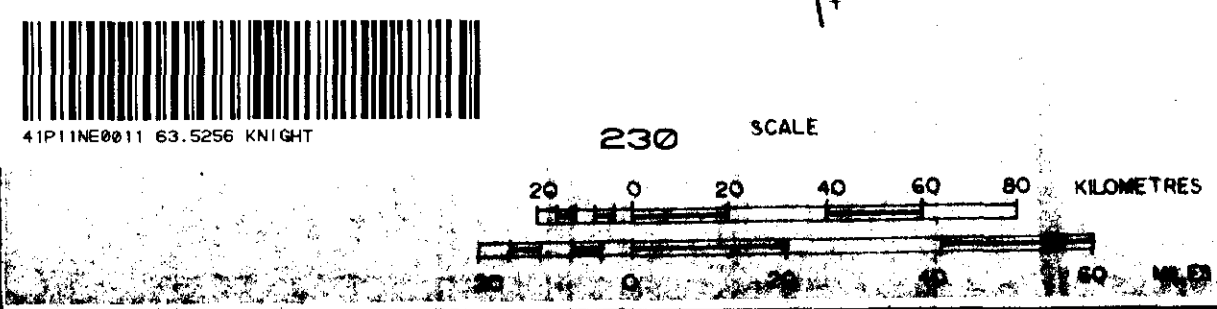
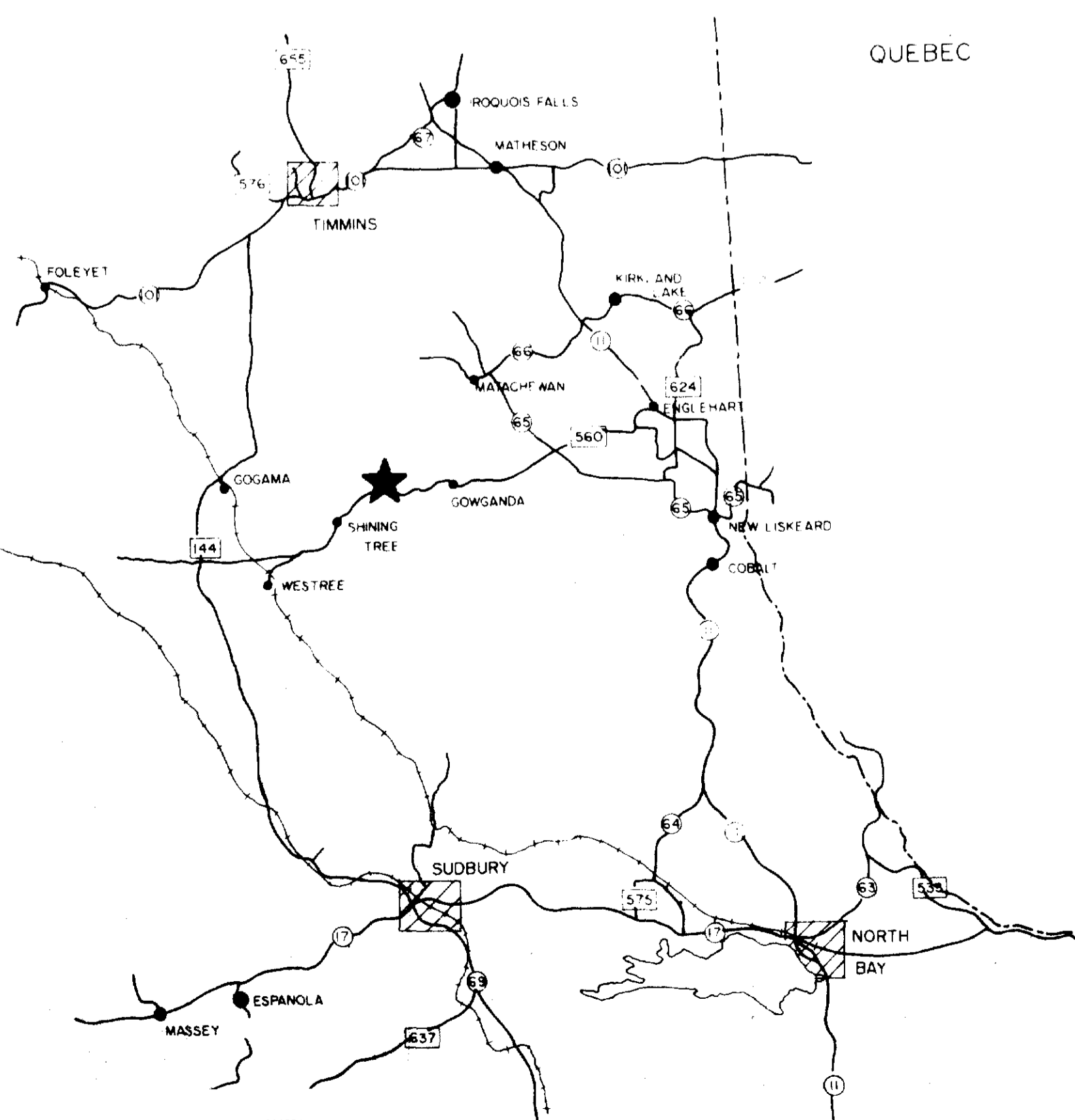
KNIGHT TWP.

TYRRELL TWP.



ONTARIO

QUEBEC



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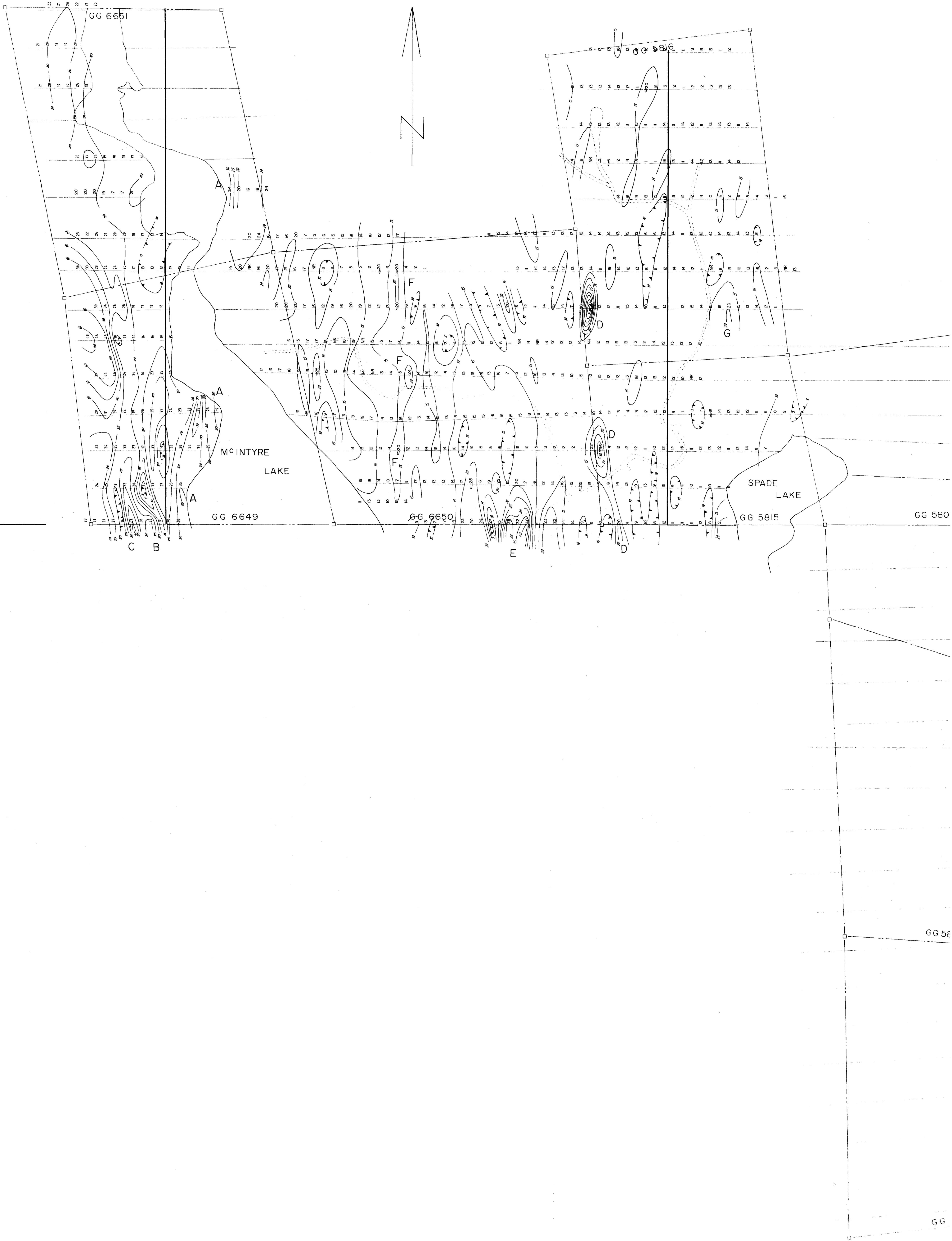
TL 53+40

TL

26 N
24 N
22 N
20 N
18 N
16 N
14 N
12 N
10 N
8 N
6 N
4 N
2 N
0 N

KNIGHT TWP.

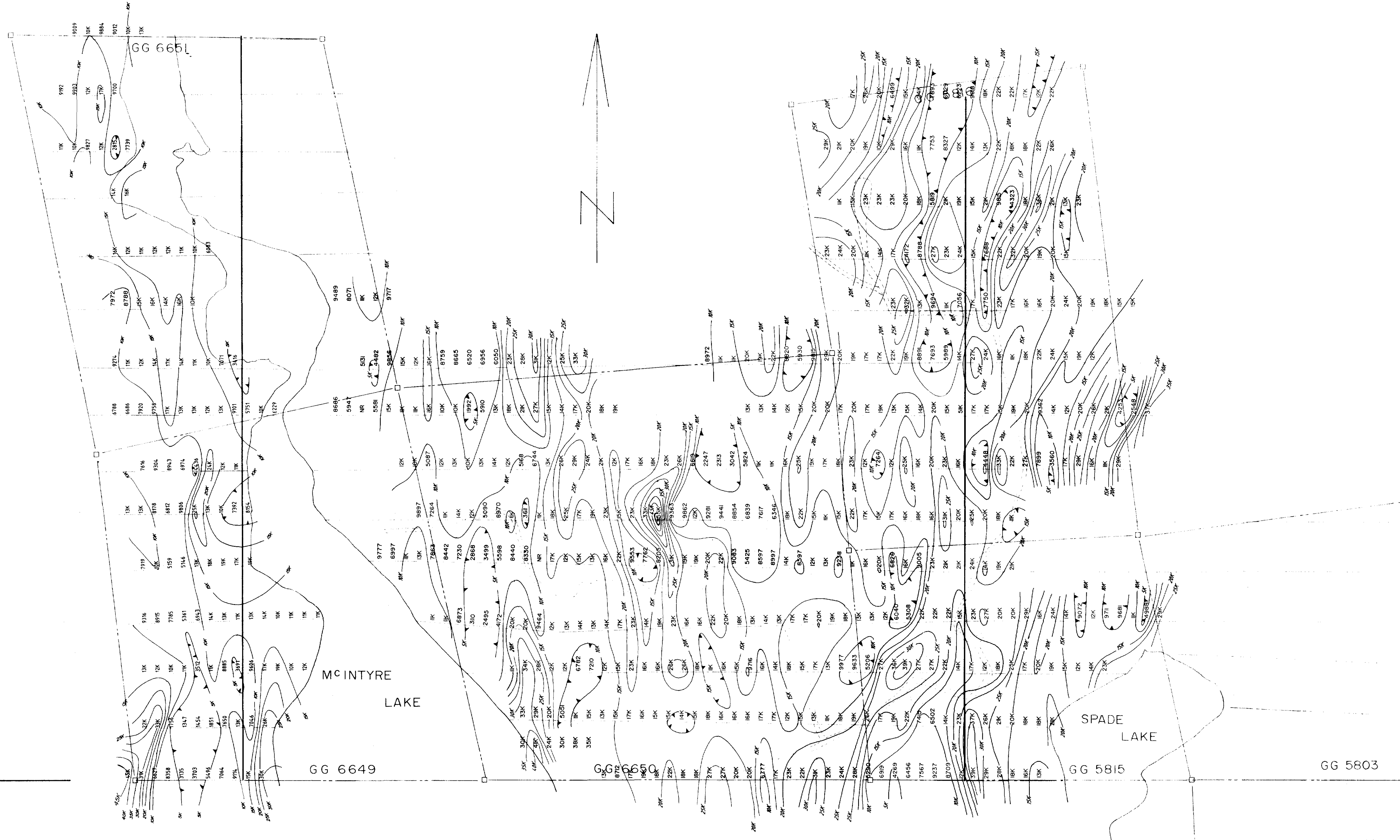
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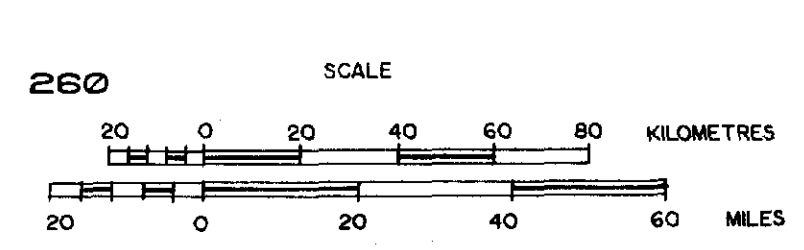
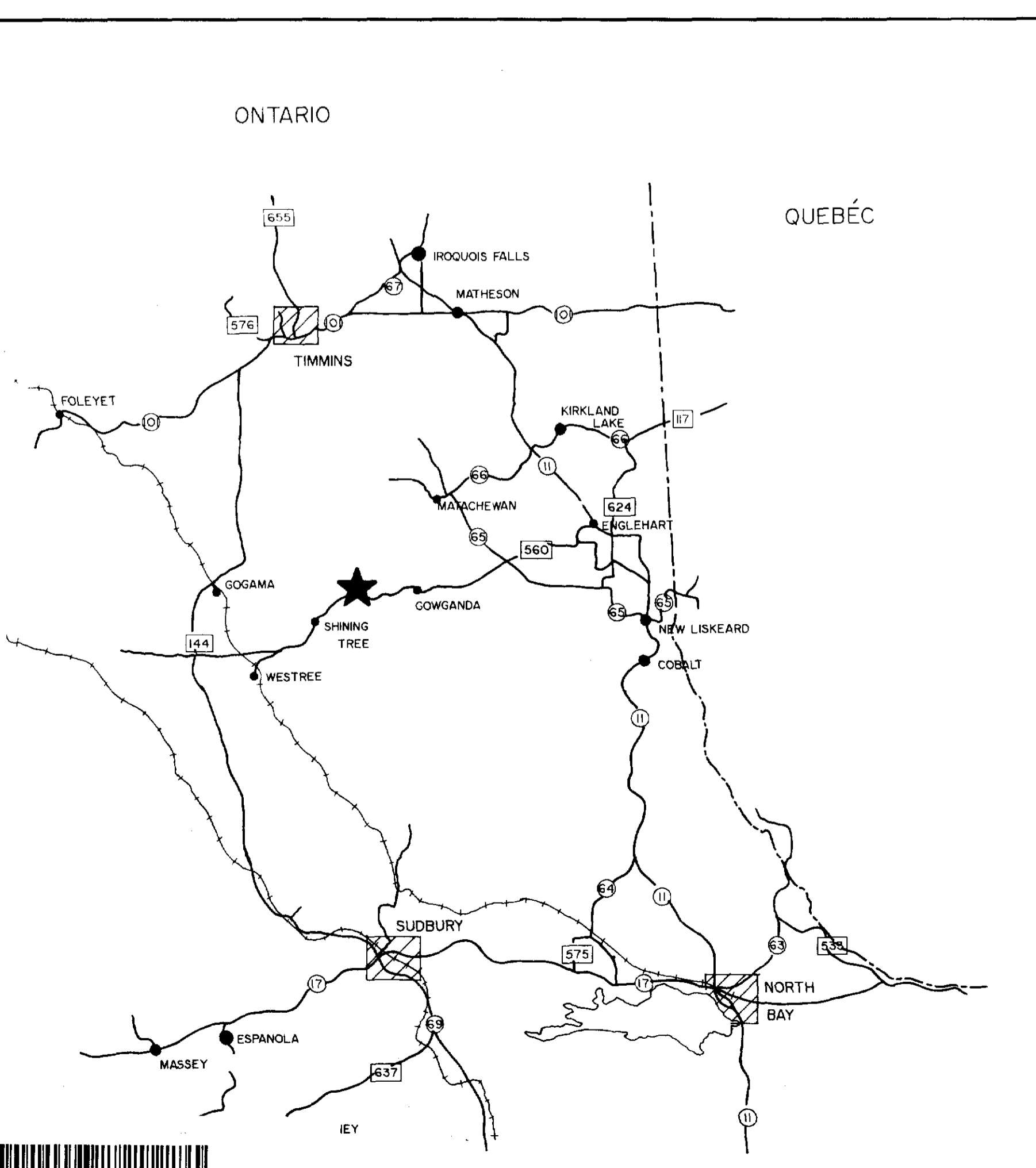
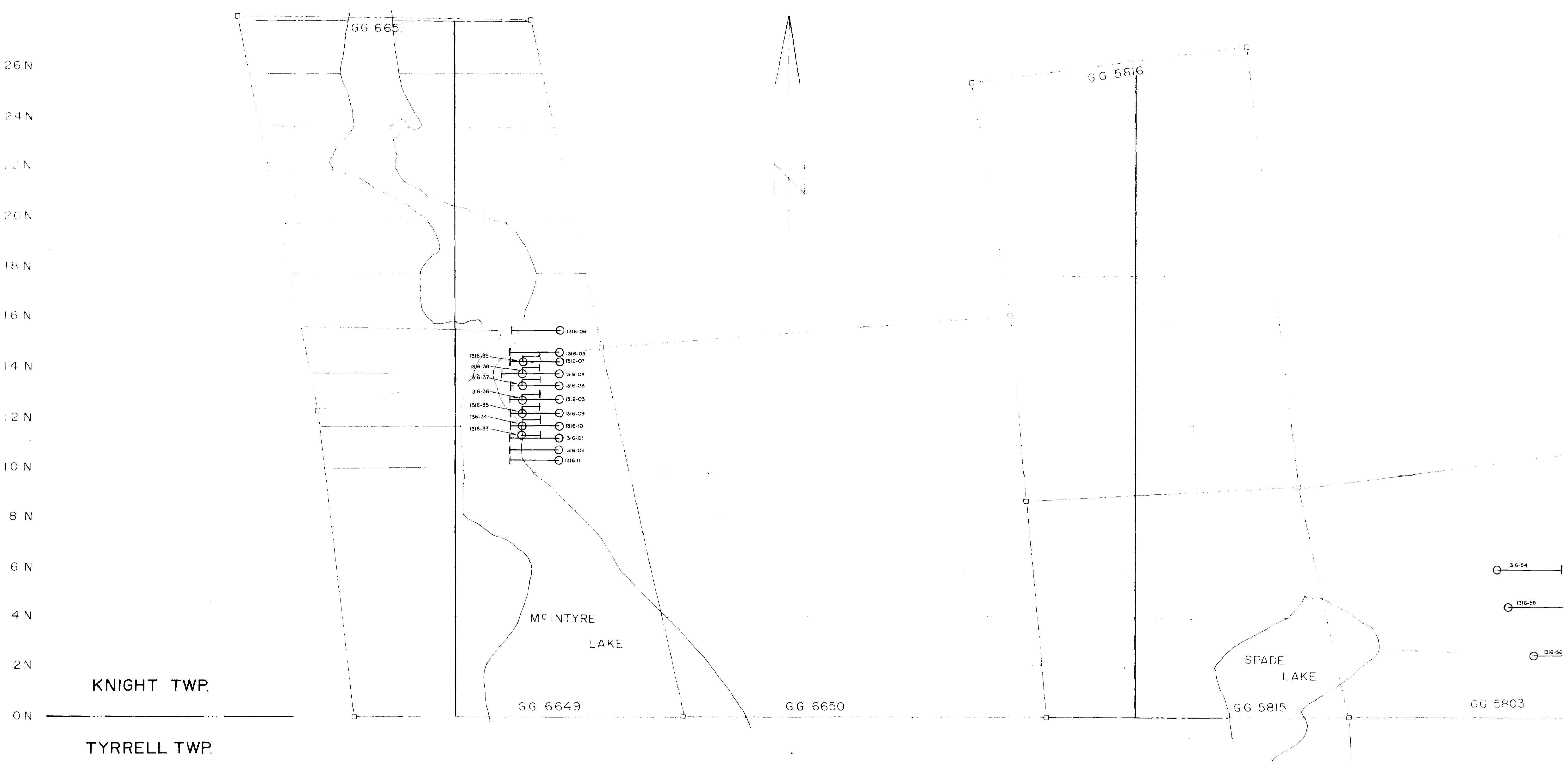
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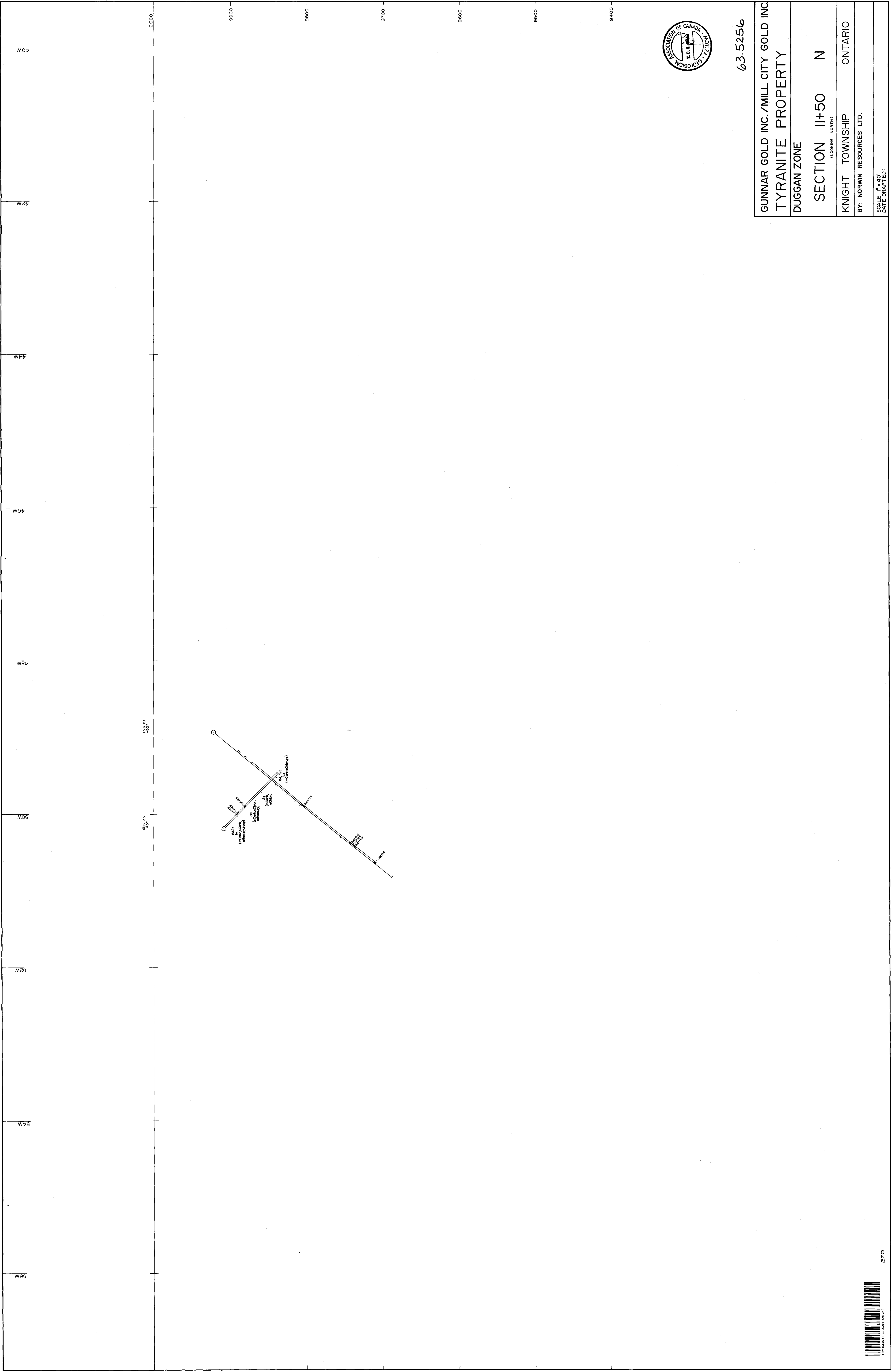
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KNIGHT TWP.
TYRRELL TWP.



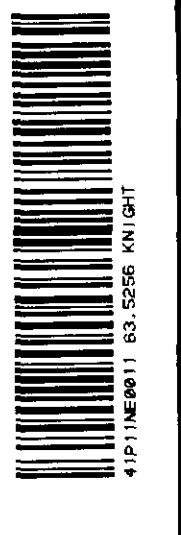
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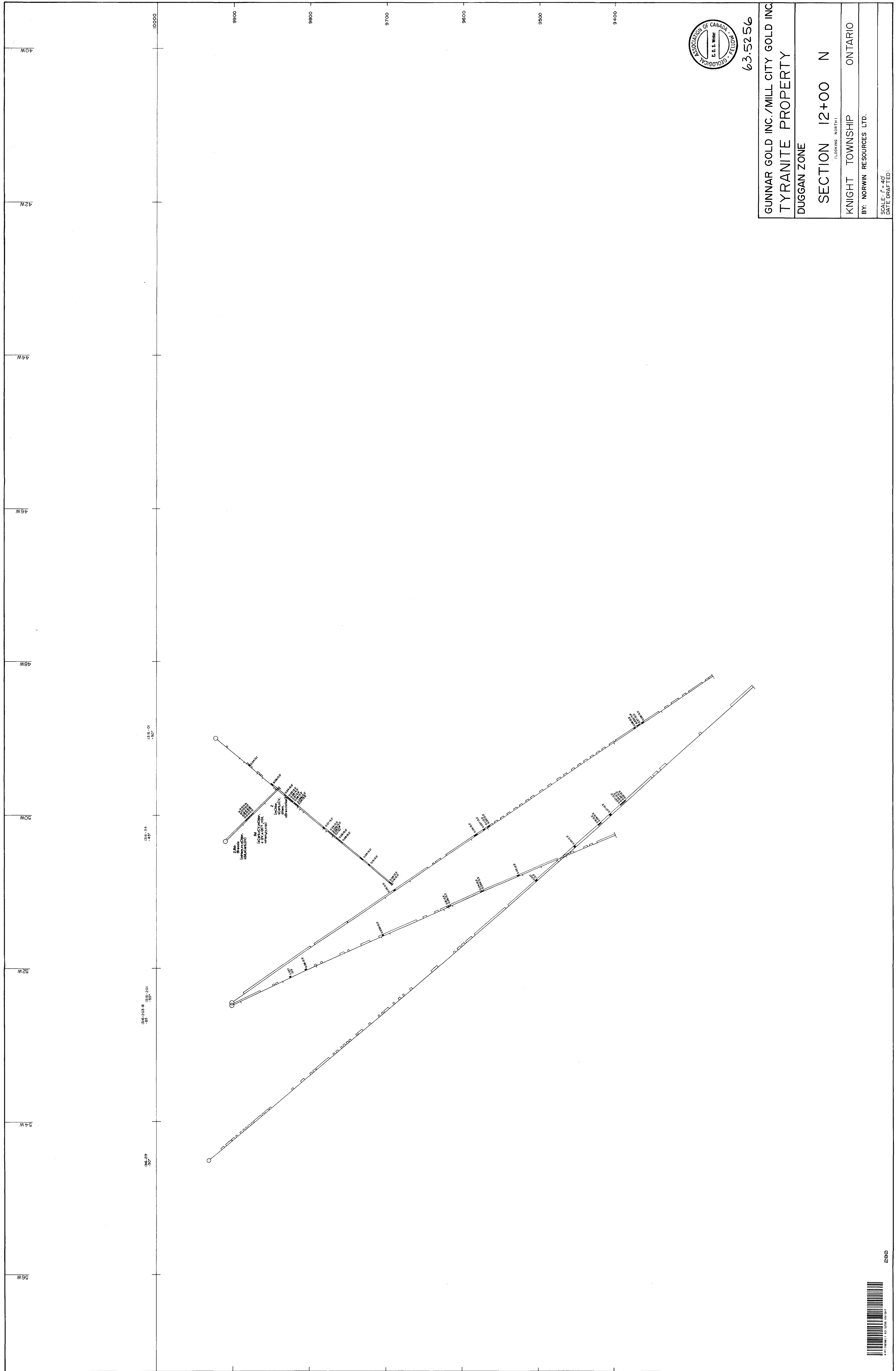




63.5256

GUNNAR GOLD INC./MILL CITY GOLD INC.	
TYRANITE PROPERTY	
DUGGAN ZONE	
SECTION 11+50	N
(LOOKING NORTH)	
KNIGHT TOWNSHIP	ONTARIO
BY: NORWIN RESOURCES LTD.	
SCALE: 1" = 40'	
DATE DRAFTED:	





63.5256

GUNNAR GOLD INC./MILL CITY GOLD INC
 TYRANITE PROPERTY
 DUGGAN ZONE
 SECTION 12+00 N
 (LOOKING NORTH)
 KNIGHT TOWNSHIP ONTARIO
 BY: NORWIN RESOURCES LTD.
 SCALE: 1" = 40'
 DATE DRAFTED:

0M87-6-L-238





63.5256

GUNNAR GOLD INC./MILL CITY GOLD INC

TYRANITE PROPERTY

DUGGAN ZONE

SECTION 12+50 N

(LOOKING NORTH)

KNIGHT TOWNSHIP ONTARIO

BY: NORWIN RESOURCES LTD.

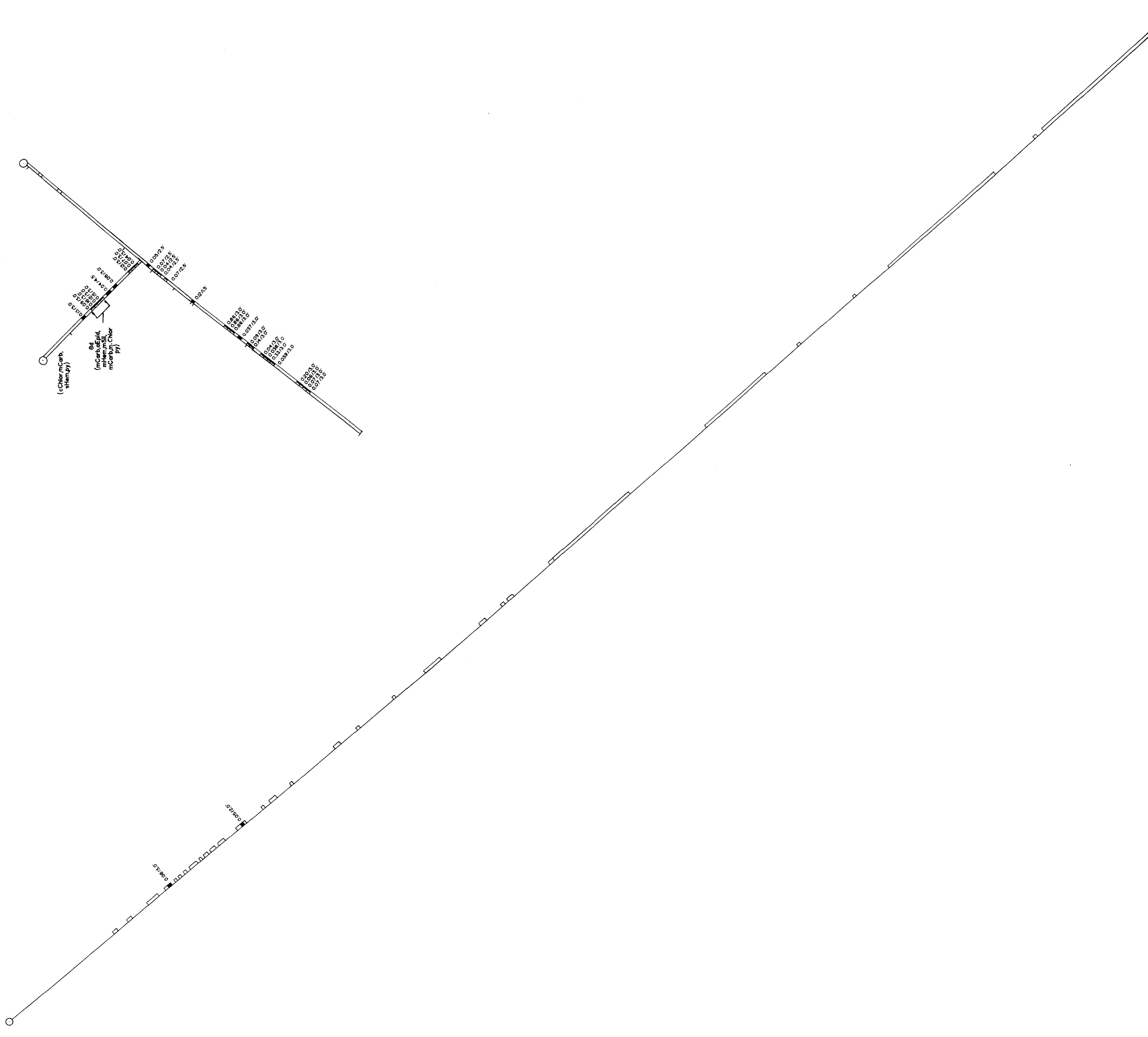
SCALE 1" = 40'

DATE DRAFTED:

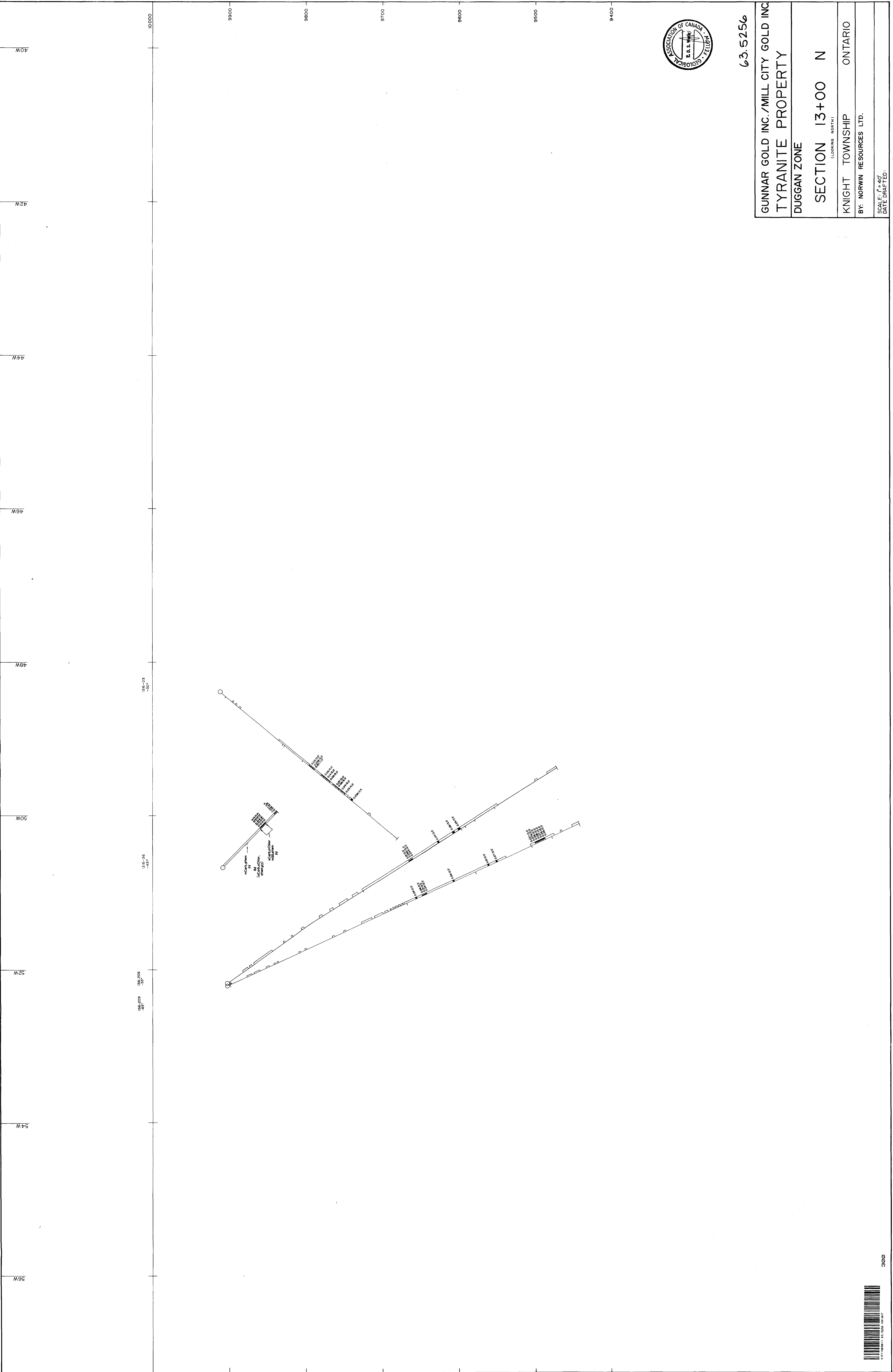
0M87-6-L-2.38

10000
9900
9800
9700
9600
9500
9400

40W
42W
44W
46W
48W
50W
52W
54W
56W



2500



63.5256

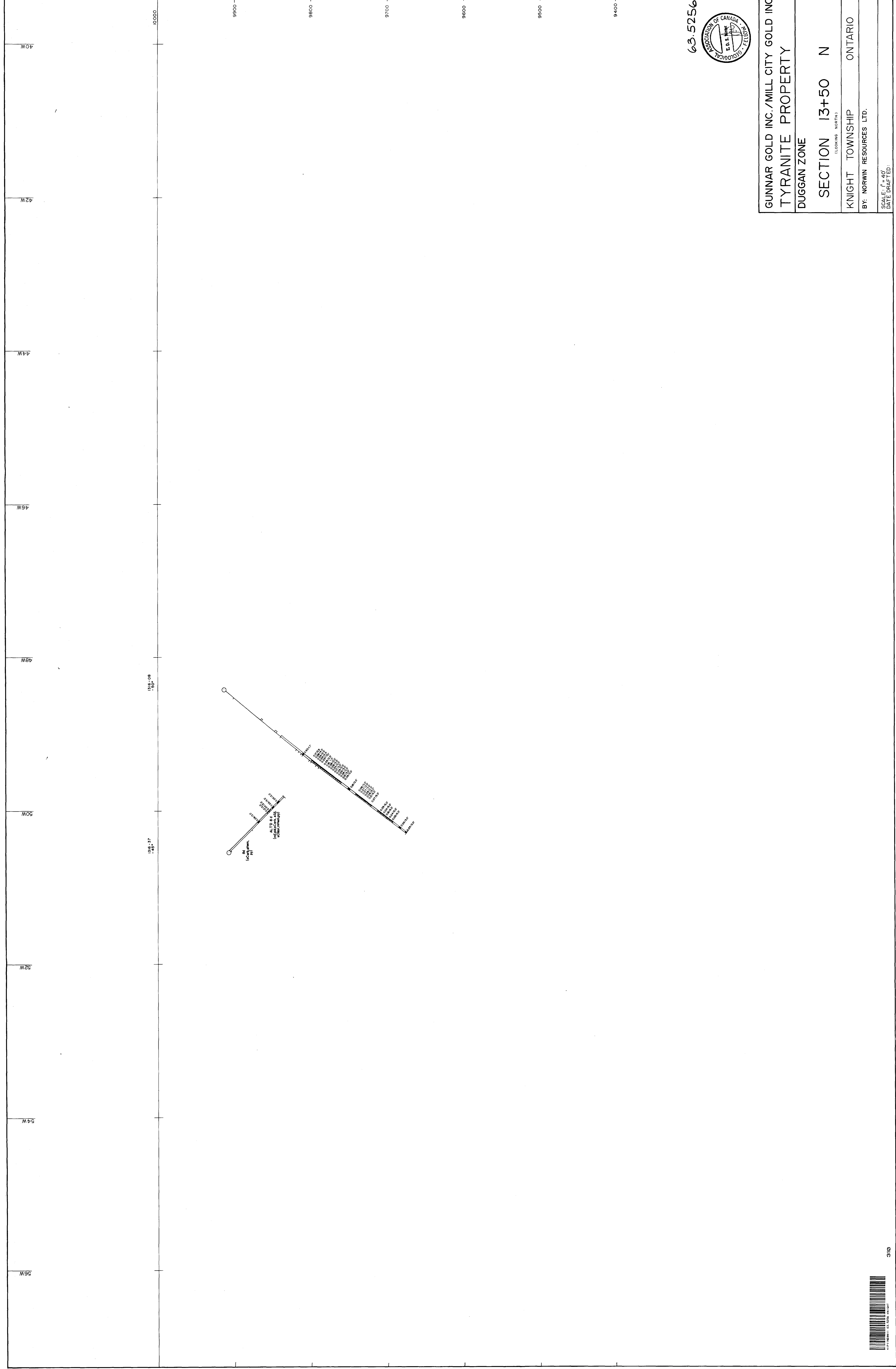
GUNNAR GOLD INC./MILL CITY GOLD INC.
 TYRANITE PROPERTY
 DUGGAN ZONE
 SECTION 13+00 N
 (LORNING NORTH)
 KNIGHT TOWNSHIP ONTARIO
 BY: NORWIN RESOURCES LTD.

SCALE: 1" = 40'
 DATE DRAFTED:

0M87-6-L-238



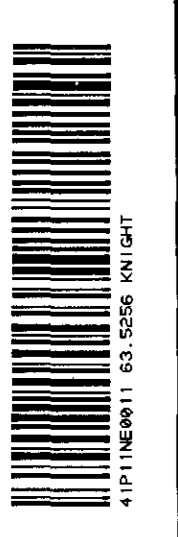
5302



63.5256



GUNNAR GOLD INC./MILL CITY GOLD INC
 TYRANITE PROPERTY
 DUGGAN ZONE
 SECTION 13+50 N
 (LOOKING NORTH)
 KNIGHT TOWNSHIP ONTARIO
 BY: NORWIN RESOURCES LTD.
 SCALE: 1" = 40'
 DATE DRAFTED:



310

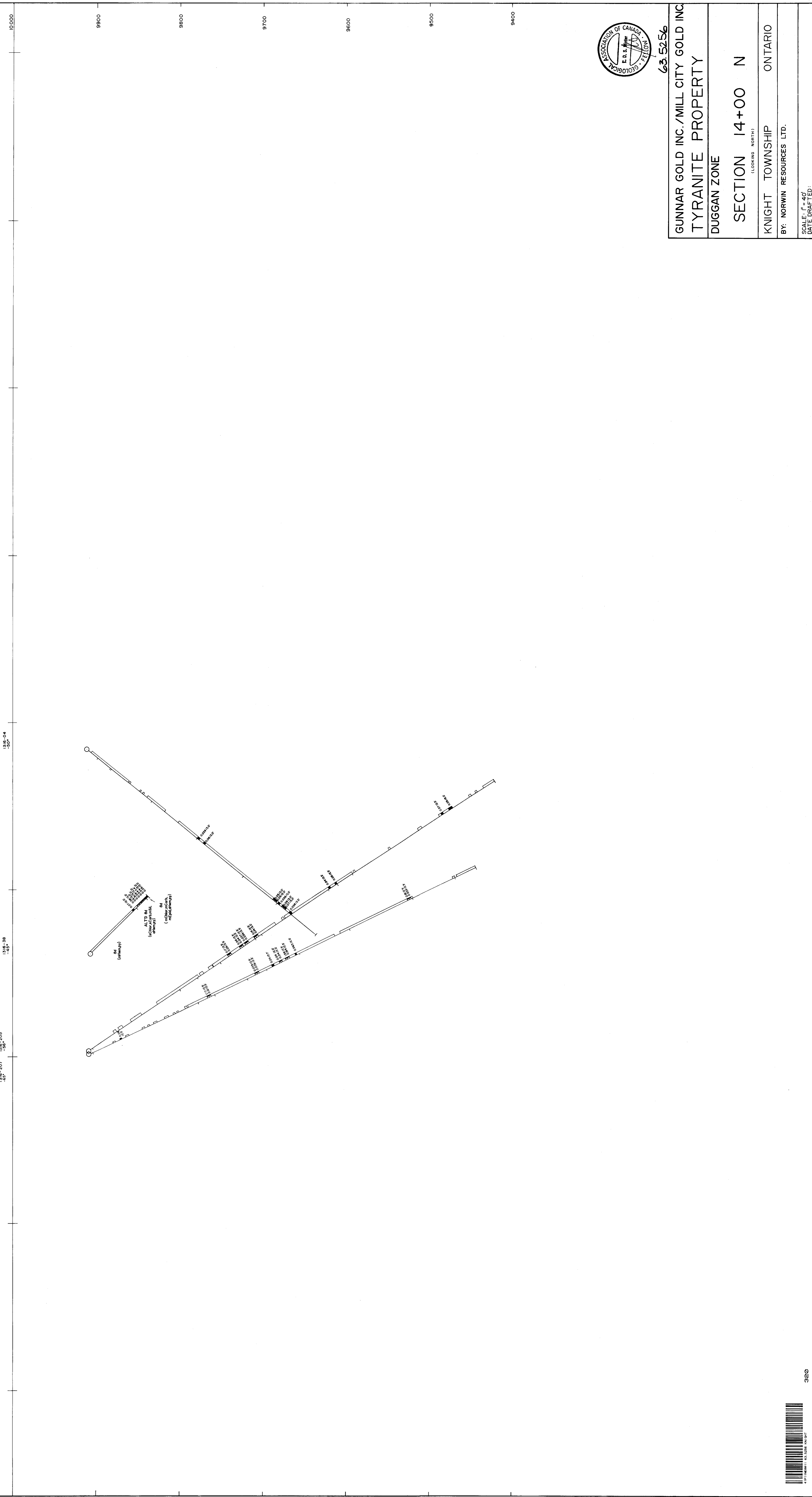
0M87-6-L-258



63-5256

GUNNAR GOLD INC./MILL CITY GOLD INC.
 TYRANITE PROPERTY
 DUGGAN ZONE
 SECTION 14+00 N
 (LOOKING NORTH)
 KNIGHT TOWNSHIP ONTARIO
 BY: NORWIN RESOURCES LTD.
 SCALE: 1" = 40'
 DATE DRAFTED:

0187 - 6 - L - 28



320

4W

2W

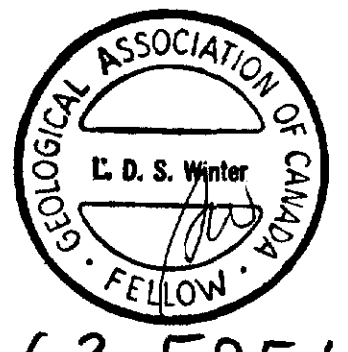
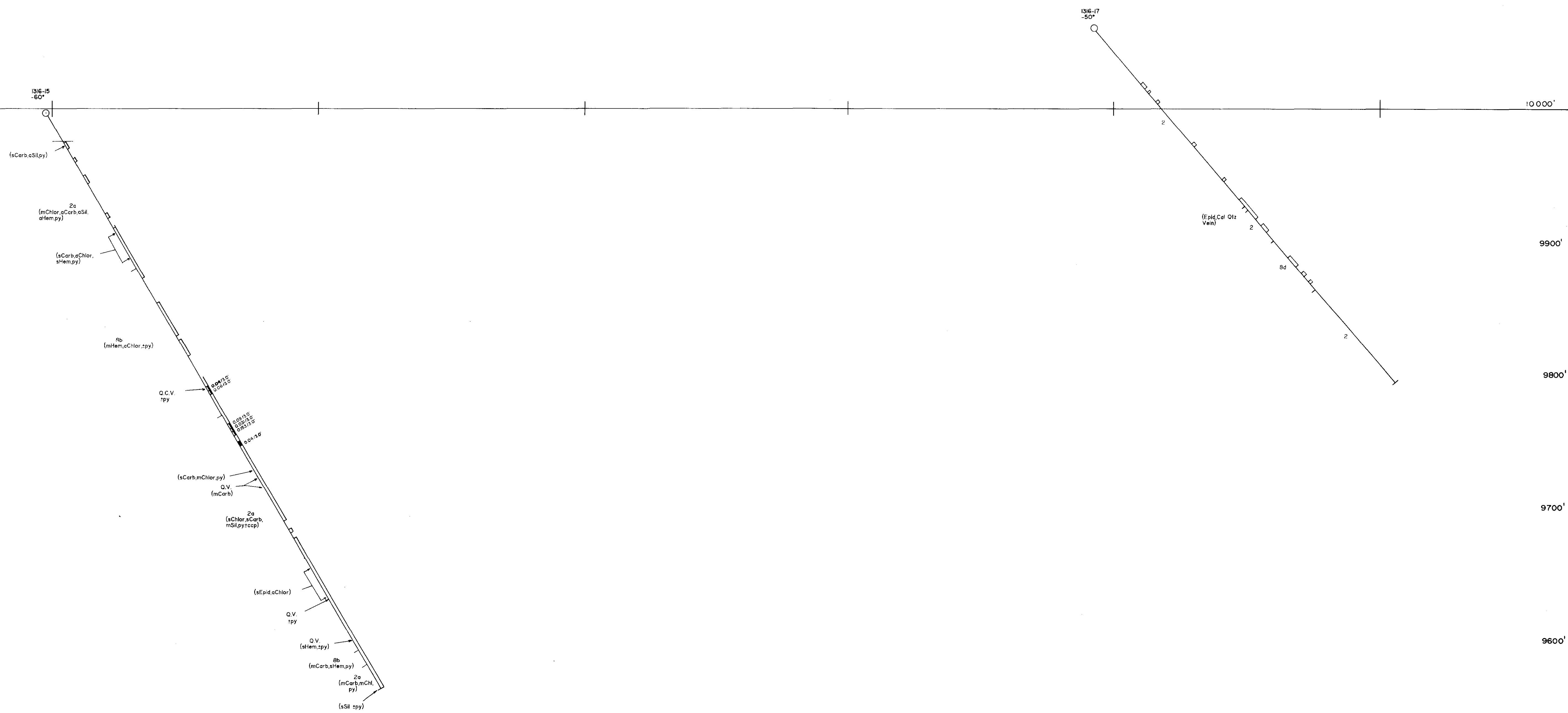
0

2E

4E

6E

8E



63.5256

GUNNAR GOLD INC. / MILL CITY GOLD INC.	
TYRANITE PROPERTY	
NORTH LENS	
MAIN NORTH-SOUTH STRUCTURE	
D.D.H SECTION 0+00 N (LOOKING NORTH)	
KNIGHT TOWNSHIP	ONTARIO
BY: NORWIN RESOURCES LTD.	
SCALE: 1" = 40'	
DATE DRAFTED:	



6W

6W

4W

2W

0

2E

4E

136.16
40°

10,000'

9900'

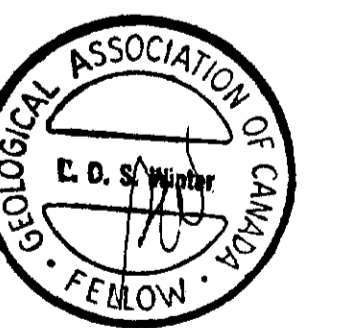
9800'

9700'

9600'

9500'

(Co,Chlor,py)



63-5256

GUNNAR GOLD INC. / MILL CITY GOLD INC. TYRANITE PROPERTY	
NORTH LENS MAIN NORTH-SOUTH STRUCTURE D.D.H SECTION 1+00 S <small>(LOOKING NORTH)</small>	
KNIGHT TOWNSHIP	ONTARIO
BY: NORWIN RESOURCES LTD.	
SCALE: 1" = 40' DATE DRAFTED:	



350

0487-6-L-238

10W

8W

6W

4W

2W

00

2E

136-50
-50'

10000'

9900'

9800'

9700'

9600'

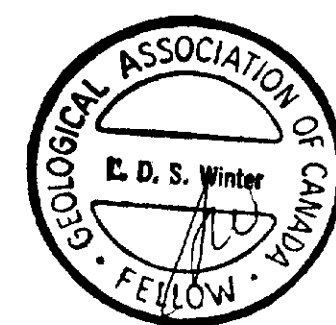
9500'

(SerpasChosToc)

(mCarbMChlorpy)

(sCort,Hempy)

7



63.5256

GUNNAR GOLD INC. / MILL CITY GOLD INC.
TYRANITE PROPERTY

SOUTH POD LENS
MAIN NORTH-SOUTH STRUCTURE
D.D.H SECTION 8+00 S
(LOOKING NORTH)

TYRRELL TOWNSHIP ONTARIO

BY: NORWIN RESOURCES LTD.

SCALE: 1" = 40'
DATE DRAFTED:



10W

8W

6W

4W

2W

00

2E

136-48 -50°
10
(Serp,Coeb)
10
(Serp,Coeb)

10
(Serp,Coeb)

10000'

9900'

9800'

9700'

9600'

9500'



63.5256

GUNNAR GOLD INC./MILL CITY GOLD INC.	
TYRANITE PROPERTY	
SOUTH POD LENS	
MAIN NORTH-SOUTH STRUCTURE	
D.D.H SECTION 9+00 S <small>(LOOKING NORTH)</small>	
TYRRELL TOWNSHIP	ONTARIO
BY: NORWIN RESOURCES LTD.	
SCALE: 1" = 40'	
DATE DRAFTED:	



370

0M87-6-L-238

10W

8W

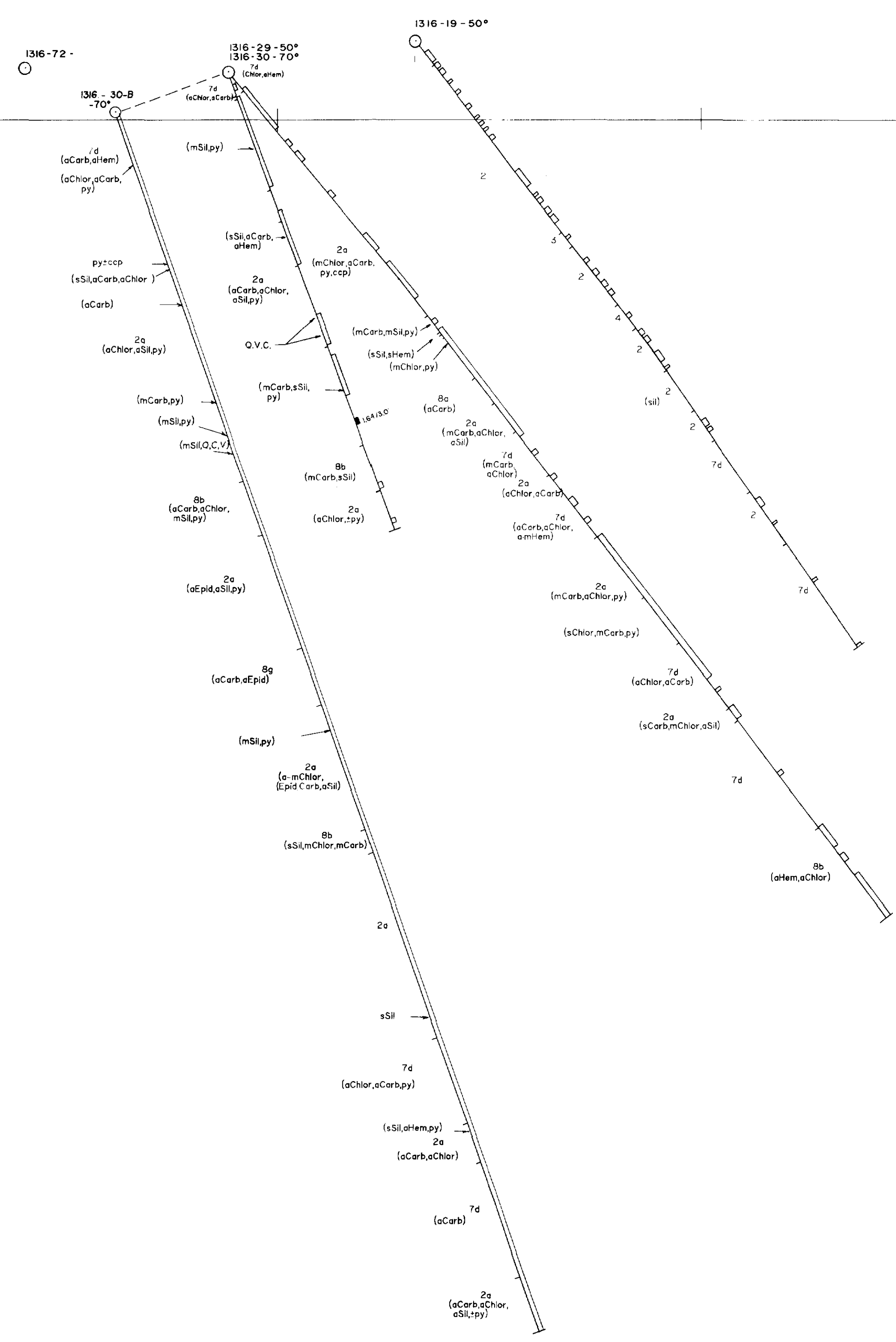
6W

4W

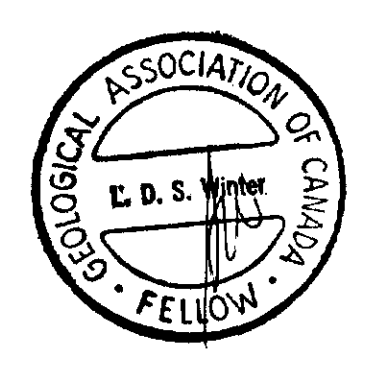
2W

00

2E



10000'
9900'
9800'
9700'
9600'
9500'



63.5256

GUNNAR GOLD INC. / MILL CITY GOLD INC.	
TYRANITE PROPERTY	
SOUTH POD LENS	
MAIN NORTH-SOUTH STRUCTURE	
D.D.H SECTION 15+00 S <small>(LOOKING NORTH)</small>	
TYRRELL TOWNSHIP	ONTARIO
BY: NORWIN RESOURCES LTD.	
SCALE: 1" = 40' DATE DRAFTED:	



10W

8W

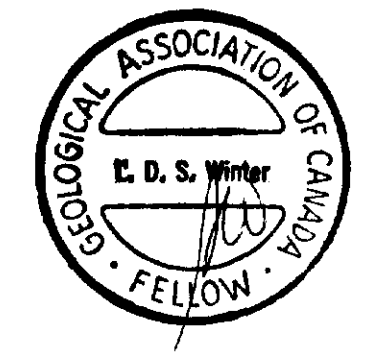
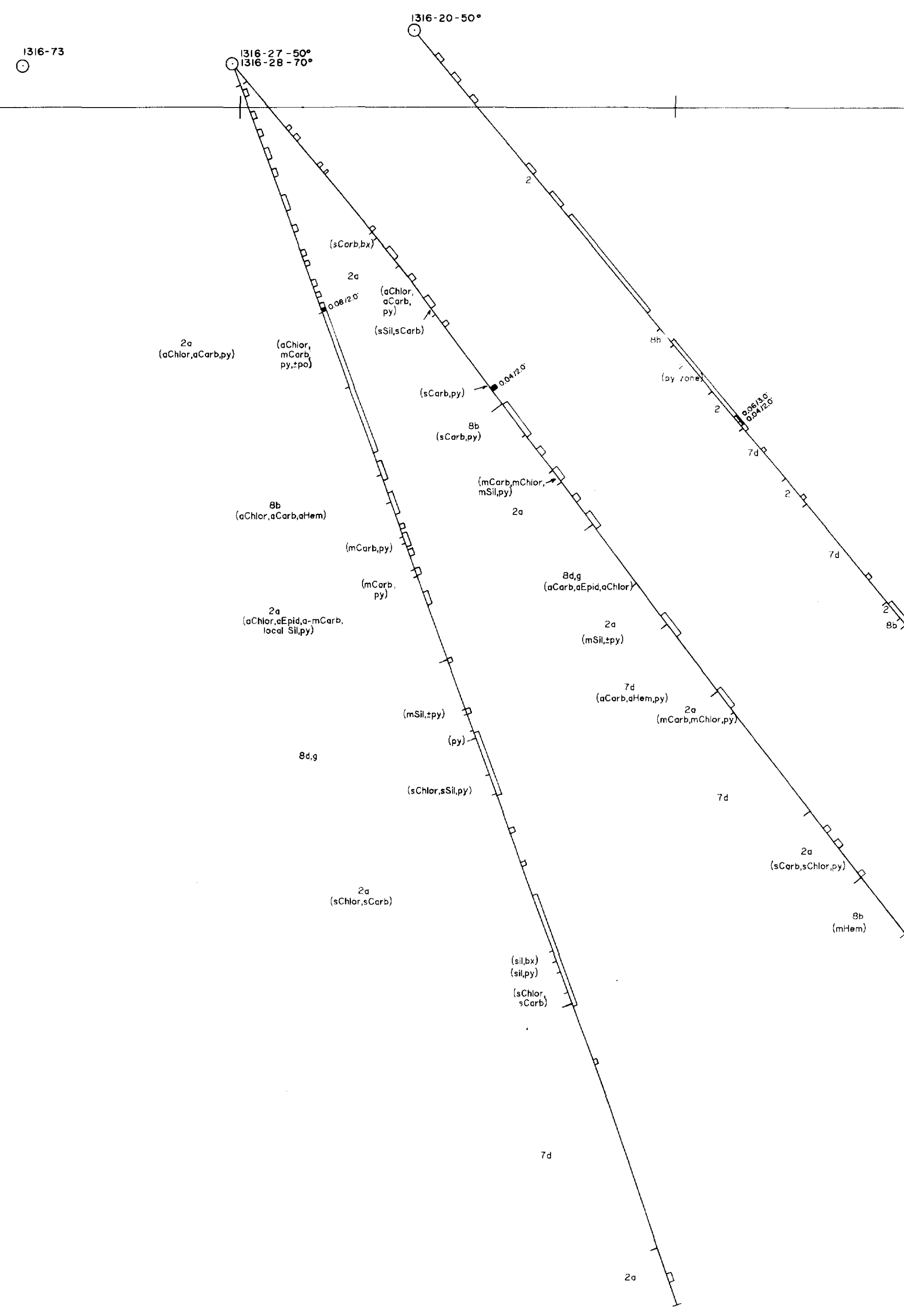
6W

4W

2W

00

2E

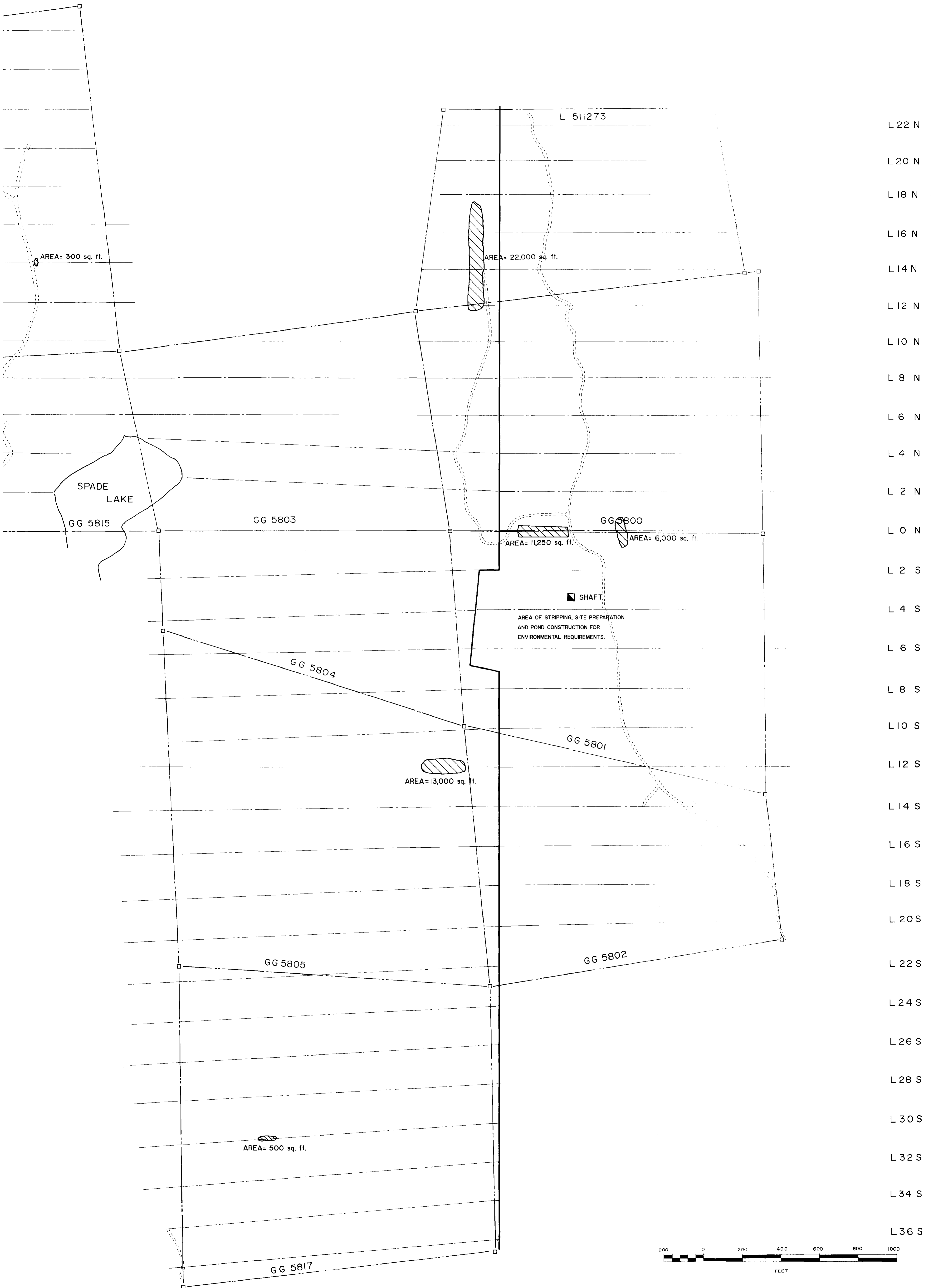


63.5256

GUNNAR GOLD INC. / MILL CITY GOLD INC.	
TYRANITE PROPERTY	
SOUTH POD LENS MAIN NORTH-SOUTH STRUCTURE	
D.D.H SECTION 16+00 S <small>(LOOKING NORTH)</small>	
TYRRELL TOWNSHIP	ONTARIO
BY: NORWIN RESOURCES LTD.	
SCALE: 1" = 40' DATE DRAFTED:	



24 W 22 W 20 W 18 W 16 W 14 W 12 W 10 W 8 W 6 W 4 W 2 W R 2 E 4 E 6 E 8 E 10 E 12 E 14 E



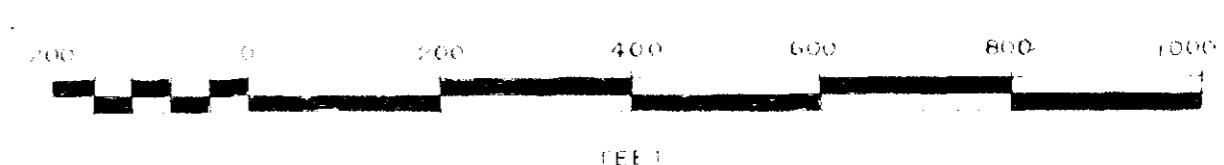
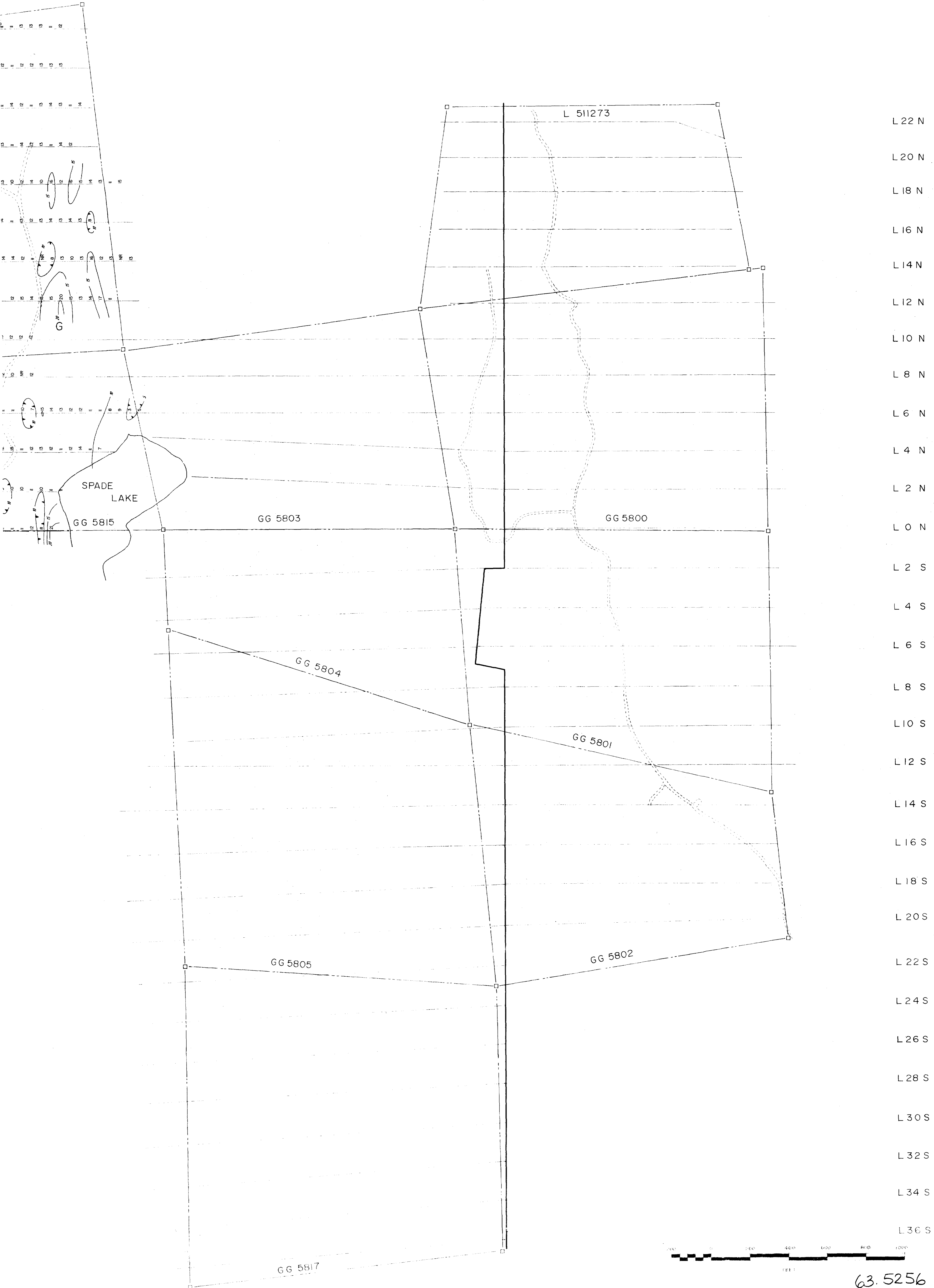
AREAS STRIPPED IN 1978 PROGRAMME
GUNNAR GOLD / MILL CITY GOLD INC.
 TYRANITE PROPERTY
 KNIGHT and TYRRELL Twps. 63-5256

Scale: 1" = 200' July 1987

Prepared by Norwin Resources Ltd.



24 W 22 W 20 W 18 W 16 W 14 W 12 W 10 W 8 W 6 W 4 W 2 W B 2 E 4 E 6 E 8 E 10 E 12 E 14 E



63.5256

GUNNAR GOLD / MILL CITY GOLD INC.
 TYRANITE PROPERTY
 KNIGHT and TYRRELL Twps
GRADIENT I.P. SURVEY
 CHARGEABILITY PLOT

Scale: 1" = 200' July 1987

Prepared by Norwin Resources Ltd

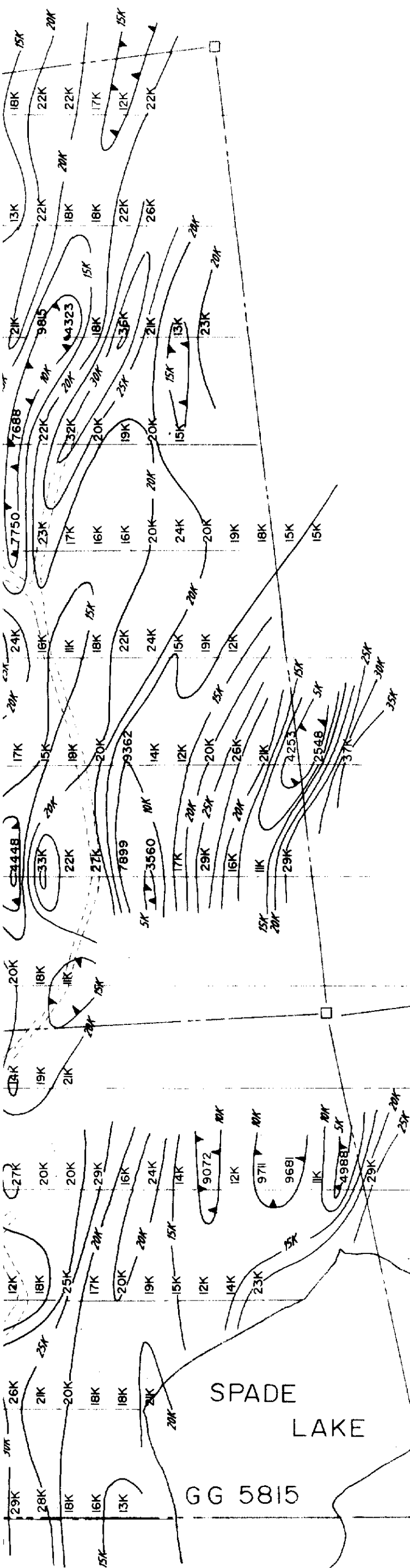
OM87-6-L-238

LEGEND

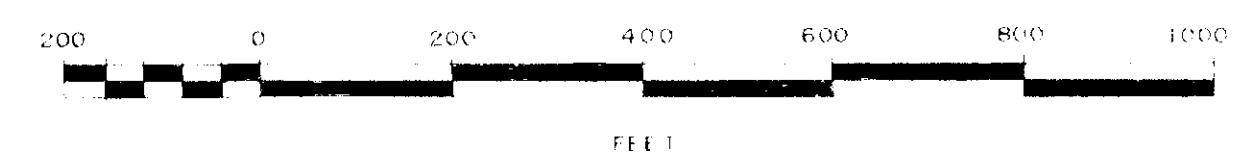
REFLECTED TIME CORRECTED
 ELECTRODE ARRAY: GRADIENT
 PULSE DURATION: 2 sec. on 2 sec. off
 DELAY TIME: 500 ms
 FREQUENCY: 150 Hz
 RECEIVER: General PPI-8
 TRANSMITTER: General PPI-8 20/1A
 UNITS: chargeability - millivoltmeter
 resistivity - ohm-meters

ELECTRODE ARRAY

24 W 22 W 20 W 18 W 16 W 14 W 12 W 10 W 8 W 6 W 4 W 2 W R 2 E 4 E 6 E 8 E 10 E 12 E 14 E



L 22 N
L 20 N
L 18 N
L 16 N
L 14 N
L 12 N
L 10 N
L 8 N
L 6 N
L 4 N
L 2 N
L 0 N
L 2 S
L 4 S
L 6 S
L 8 S
L 10 S
L 12 S
L 14 S
L 16 S
L 18 S
L 20 S
L 22 S
L 24 S
L 26 S
L 28 S
L 30 S
L 32 S
L 34 S
L 36 S



63.5256

GUNNAR GOLD / MILL CITY GOLD INC.

TYRANITE PROPERTY
KNIGHT and TYRRELL Twps.

GRADIENT I.P. SURVEY
RESISTIVITY PLOT

Scale: 1" = 200' July 1987

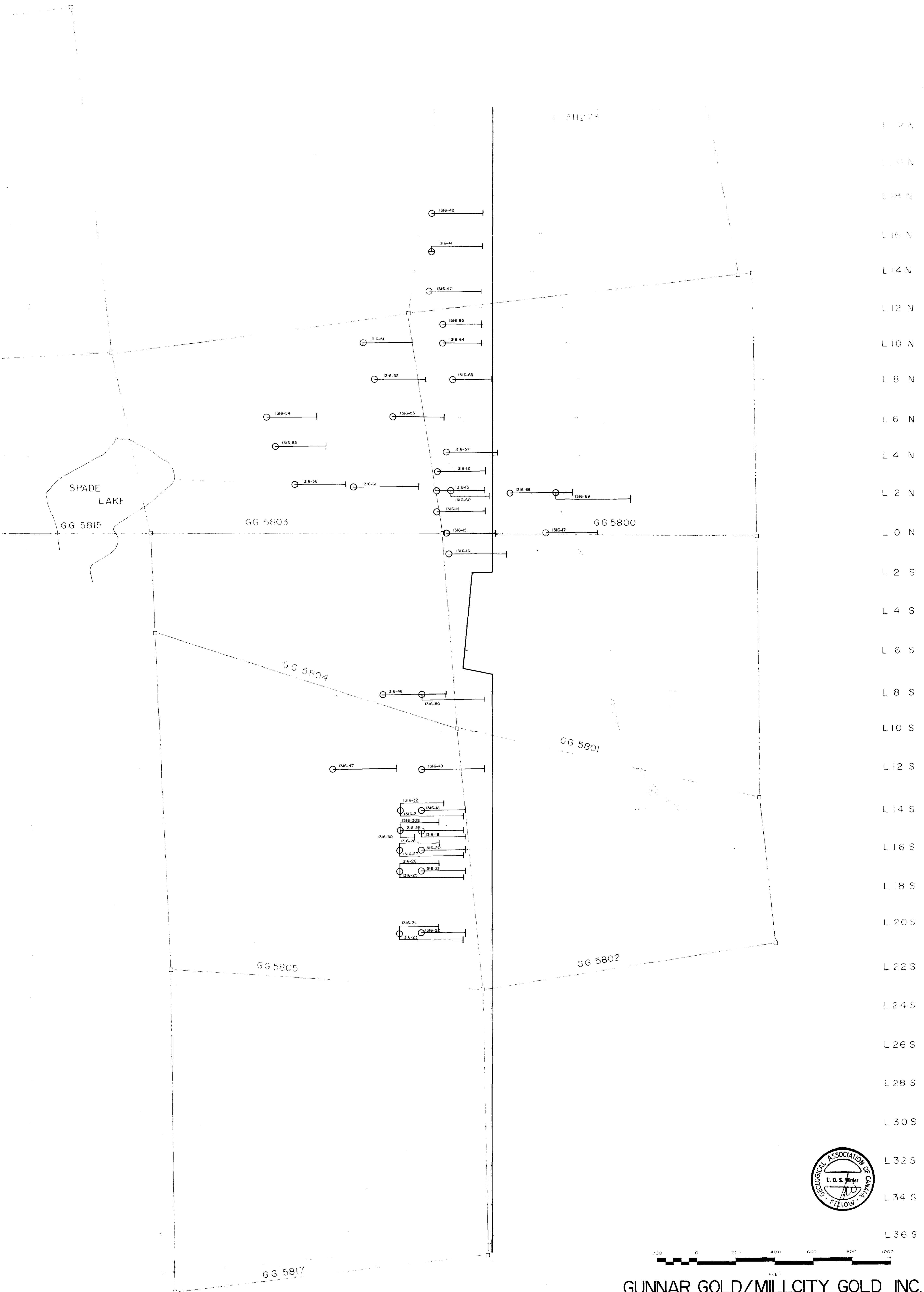
Prepared by Norwilt Resources Ltd.

LEGEND

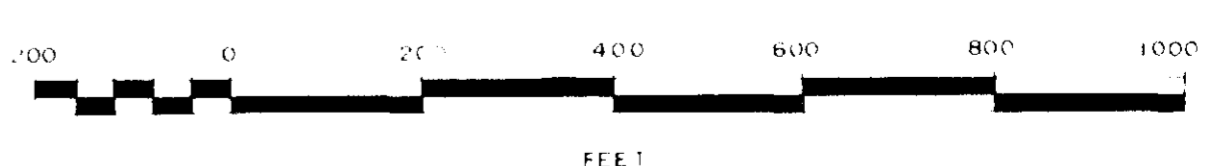
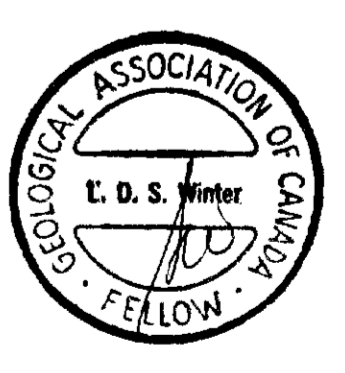
HP 11000: TIME DOMAIN
ELECTRODE ARRAY: GRADIENT
PULSE DURATION: 2 sec on 2 sec off
DELAY TIME: 300 ms
INTEGRATION TIME: 450 ms
RECEIVER: Schlumberger
TRANSMITTER: Schlumberger
UNITS: resistivity - ohm-meters
resistivity - ohm-meters

ELECTRODE ARRAY

24 W 22 W 20 W 18 W 16 W 14 W 12 W 10 W 8 W 6 W 4 W 2 W B 2 E 4 E 6 E 8 E 10 E 12 E 14 E



L 2 N
L 4 N
L 6 N
L 8 N
L 10 N
L 12 N
L 14 N
L 16 N
L 18 N
L 20 N
L 22 N
L 24 N
L 26 N
L 28 N
L 30 N
L 32 N
L 34 N
L 36 N
L 2 S
L 4 S
L 6 S
L 8 S
L 10 S
L 12 S
L 14 S
L 16 S
L 18 S
L 20 S
L 22 S
L 24 S
L 26 S
L 28 S
L 30 S
L 32 S
L 34 S
L 36 S



GUNNAR GOLD/MILLCITY GOLD INC.
JOINT VENTURE 63.5256

TYRANITE PROPERTY
KNIGHT and TYRRELL Twps.

Scale: 1" = 200'

Prepared by Norwin Resources Ltd