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*GEOLOGICAL REPORT - PART II  
Reeves Joint Venture Property  
in  
Reeves, Sewell, Penhorwood and  
Kenogaming Townships  
Porcupine Mining Division  
for  
GLEN AUDEN RESOURCES LIMITED  
and  
GOLDROCK RESOURCES INC.  
by  
Ron Burk, M.Sc.Eng.  
October, 1988*

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SUMMARY

Geological mapping has been done on 84 claims in Sewell and Kenogaming Townships, Porcupine Mining Division, Ontario which form the northwestern portion of the 427-claim Reeves Joint Venture Property jointly held by Glen Auden Resources Limited and Goldrock Resources Inc. In addition to the mapping, 107 rock samples were collected from the claims and chemically analyzed for major oxide and trace element concentrations. The data is presented on three maps drafted at 1:2500 scale.

Mafic metavolcanic units underlie most of the area covered by the 84 claims. The eastern boundary of the claims broadly follows a major contact between the mafic units and a granodiorite pluton. Two zones of shear deformation and chlorite-carbonate alteration have been identified on the claim group. Rock samples from these zones, however, do not contain gold concentrations greater than background gold contents determined for unaltered volcanic rocks.

An overburden covered shear structure is postulated to extend from Deerfoot Lake across the claim group to the Mining Corp. gold showing located southeast of Lap Lake in Sewell Township. Should this structure exist, it would be a prospective target for future exploration work.



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*Figure 2              Location of 84-claim group*

INTRODUCTION

Geological mapping was done in May and June, 1988 on 84 contiguous, unpatented mining claims in Sewell and Kenogaming Townships, Porcupine Mining Division, Ontario. These claims are part of the 427-claim Reeves Joint Venture Property jointly held by Toronto-based junior mining companies Glen Auden Resources Limited and Goldrock Resources Inc. Mapping was done by pace-and-compass method with mapping traverses following claim lines as well as transecting all claims. To compliment the field mapping, a study was done of the lithogeochemistry of the rocks found on the claim group. Sixty-seven rock samples were analyzed for trace element concentrations, while an additional 42 samples were analyzed for major oxide and rare earth element contents. The field data is presented on geologic maps drafted at 1:2500 scale. The basic objective of the mapping program was to identify direct and/or indirect indications of gold mineralization on the claim group.

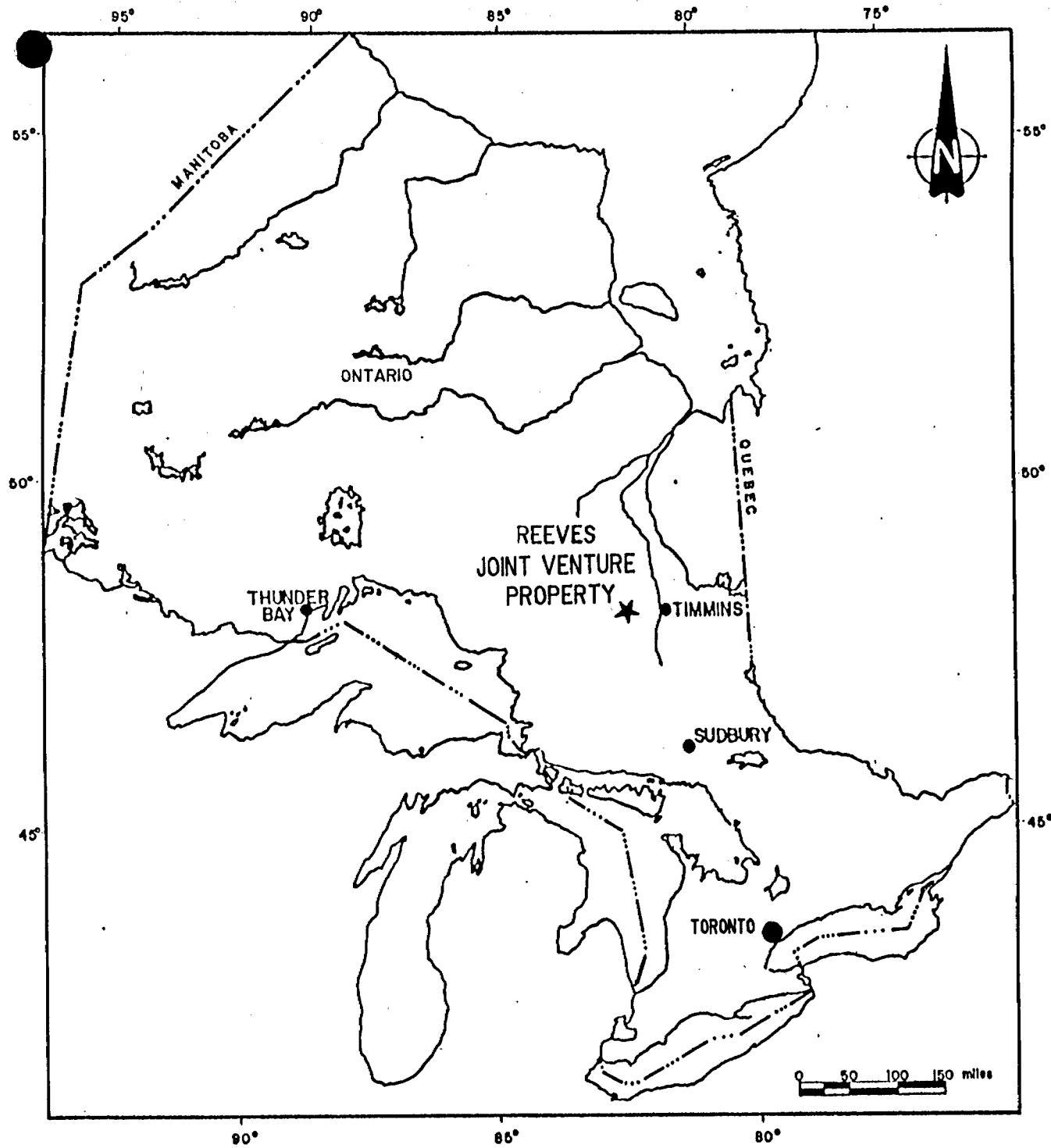
PROPERTY LOCATION AND ACCESS

The Reeves Joint Venture (RJV) property encompasses approximately 6,850 hectares broadly centred on the four-corner junction of Reeves, Sewell, Penhorwood and Kenogaming Townships, some 55 kilometers west of Timmins, Ontario (Figure 1). The group of 84 claims described in this report form the northeastern part of the RVJ property and can be accessed from Highway 101 which skirts the northern boundary of the claim group and the Kenogaming logging road.

TOPOGRAPHY AND VEGETATION

There is generally little topographic relief on the property. As is common in this area of northeastern Ontario, low ridges are interspersed with broad low-lying areas. Deerfoot Lake lies at the southwest corner of the claim group and north-flowing tributaries of the Crawford River cross the claims. Glacial overburden consisting of deposits of sand and boulder till varies in thickness across the property.

While a few stands of mature spruce occur on the claims, much of the original coniferous and mixed forest cover has been logged over and replaced by secondary growths of poplar, birch, moose maple and, locally, jack pine. Cedar woods are common in low-lying areas. Bedrock exposures constitute only a very small percentage of the total area.



Ron Barts

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for GOLDROCK RESOURCES INC./ GLEN AUDEN RESOURCES LTD. J.V.		
Title	<b>PROPERTY LOCATION MAP</b>		
	Date: Oct. 87	Scale: 1"=160 mi.	N.T.S.:
	Drawn: B.S.B.	Approved:	File: M-223.

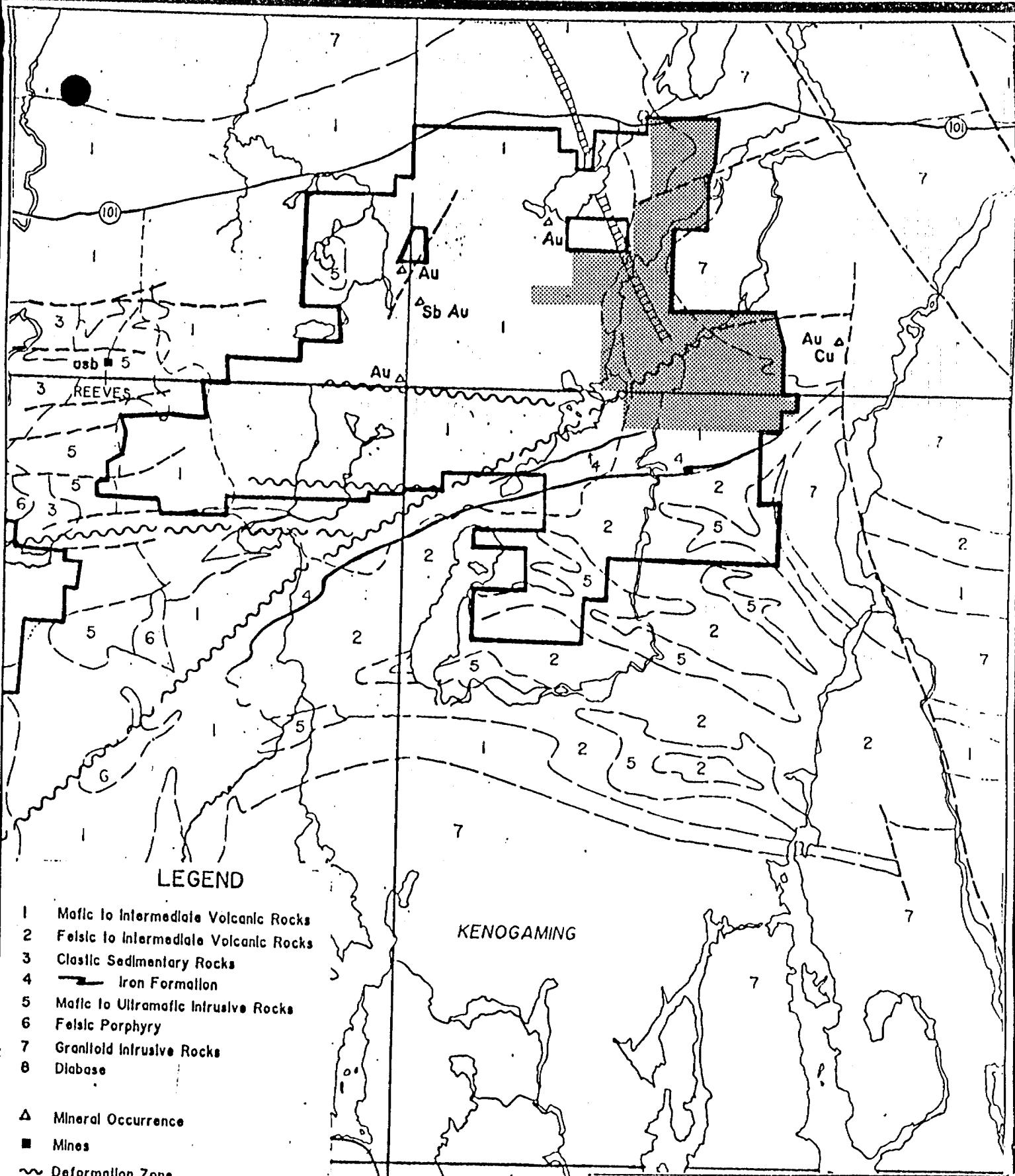
### GENERAL GEOLOGY

The Reeves Joint Venture property lies in the northern part of the Archean-age Swayze Greenstone Belt (Figure 2) and covers typical sequences of mafic submarine flows and less abundant intermediate to felsic volcanics (Milne, 1972; Burk, 1987). Exposures of sedimentary rocks are sparse on the property, although two prominent units of oxide and sulfide facies banded iron formation have been identified. Intrusive sheets and pods of ultramafic and mafic rocks are common in western and southeastern areas of the property.

The 84-claim block lies in the northeastern corner of the Swayze greenstone belt where mafic volcanic units appear to strike in a northwesterly direction, essentially wrapping around a granodiorite pluton. A number of southwesterly striking faults which transect the greenstone/granodiorite contact have been delineated on the claim block by Milne (1972).

### ECONOMIC GEOLOGY AND PREVIOUS WORK

One of the earliest discoveries of gold in the North Swayze greenstone belt is located on a small property consisting of four patented claims which straddle the Reeves-Sewell township line. This gold occurrence is surrounded by the northernmost claims of the RJV property, but is located west of the 84-claim block



### LEGEND

- 1 Mafic to Intermediate Volcanic Rocks
- 2 Felsic to Intermediate Volcanic Rocks
- 3 Clastic Sedimentary Rocks
- 4 Iron Formation
- 5 Mafic to Ultramafic Intrusive Rocks
- 6 Felsic Porphyry
- 7 Granitoid Intrusive Rocks
- 8 Diabase

△ Mineral Occurrence

■ Mines

~~ Deformation Zone

— Fault

— Geological Boundary

— Highway

— Gravel Road

→ Railway

— Property Boundary

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.
10	GLEN AUDEN / GOLDRICK
	Title Figure 2 <i>Ron Burk</i>
	84-claim block within
	REEVES JOINT VENTURE PROP.
	Date: Oct 19/88 Scale: 1in - 4m N.T.S.: Fig.
	Drawn: RRB Approved: File:

reported on here. Another property with a known gold showing adjoins the 84-claim group on its eastern boundary south of Lap Lake. The gold showing on this property consists of a chloritic schist in a sheared basic syenite or gabbro which hosts pyrite-, chalcopyrite-, and gold-bearing quartz veins up to 50 cm wide. The mineralized zone was drilled by Mining Corp. of Canada (a former affiliate of Noranda Mining) in 1947, and based on 13 drill holes is estimated to contain approximately 30,000 tons of ore grading 0.172 ounces gold per ton to a depth of 500 feet (pers. comm. by Noranda Exploration staff, 1988).

Evidently little serious exploration work has been done on the group of 84 claims by other mining companies. Milne (1972) reports that Canadian Johns-Manville Co. Ltd. held 18 claims in the area north of Deerfoot Lake in the mid-1960's. Following ground geophysical surveys that company drilled a single hole on the west bank of Deerfoot Creek. At about the same time, L. Lapierre, who operated a lumber mill on Weston Lake, explored a property covering greenstone rocks located east of Sewell Lake. Four diamond drill holes totalling 1250 feet were drilled on this property, with all holes intersecting light coloured mafic metavolcanics. No significant mineralization is reported to have been encountered.

A review of the geological work done by Milne (1972) for the Ontario Department of Mines, followed by a program of

reconnaissance mapping and lithogeochemical analysis carried out by D. Pyke (1987) led Glen Auden Resources to conclude that the supracrustal sequences in the North Swayze greenstone belt are similar, texturally and compositionally, to the volcanic units of the Timmins mining camp. Based on the empirical relationship to the productive Timmins camp, the decision was made to stake a large portion of the North Swayze Belt. The 84 claims reported on here were staked as part of this objective.

Exploration work done by Glen Auden Resources on portions of the RJV property which were staked prior to the 84-claim block includes geological mapping (Burk, 1987; Frostad, 1986), lithogeochemical analysis (Burk, 1988A), magnetics interpretation (Burk, 1988B) and outcrop stripping and trenching (Burk, 1988C). A review of work done in the area of the property by previous claim-holders and mining companies is given by Burk (1987).

#### GEOLOGY OF THE CLAIMS

Geological mapping of the 84 claims in Sewell and Kenogaming Townships was done by following claim lines and pace-and-compass controlled traverses which bisected the claims. Three maps showing the observed geology and surface features have been produced at 1:2500 scale. No bedrock exposures were observed on the claims covered by Map 3, i.e., the area south of Lap Lake and east of Deerfoot Lake.

By far the most common lithology observed on the 84 claims is mafic metavolcanic rock. Massive flow units appear to predominate over pillowied flows. Only poorly defined pillowied structures were observed, with no flow-top directions being established. In the central part of the claim group (see Map 2) outcrops of mafic flow rock generally consist of massive, fine-grained actinolite and plagioclase, which are greenish-grey on fresh surfaces and weather to a pale grey or buff colour. In the northern part of the claim block (see Map 1) the volcanic rocks within one kilometer of the greenstone/granodiorite contact have developed a gneissosity to varying degrees. This fabric trends in a NNW direction, or roughly conformable to the contact, and is vertical dipping. West of Crossover Lake, within 100 meters of the intrusive contact, the mafic rock has been thermally metamorphosed to a fine-grained amphibole hornfels. In addition, there are a few exposures of strongly foliated mafic flow rock consisting largely of chlorite with minor amounts of calcite and iron carbonate. The best of these exposures is along the Crawford River a short distance south of the Sewell-Kenogaming township line.

Outcrops of intermediate to felsic volcanic rock are sparse on the claims. A few exposures of intermediate tuffaceous rock are located close to the southern boundary of claim 997161 (see Map 1). Elsewhere, pale coloured, fine-grained and hard volcanic

rock likely represents carbonatized and/or silicified mafic flow rock.

Sedimentary rocks are also rare on the claims. A single outcrop of sulfide facies iron formation was identified in the northeast corner of claim 997134 (see Map 2).

Exposures of the large granodiorite pluton underlying the eastern half of Sewell Township are largely limited to the northern part of the claim group, specifically northwest of Crossover Lake (see Map 1). Here the intrusive consists of fine- to medium-grained biotite-hornblende granodiorite. The greenstone/granodiorite contact is actually a geologically complex feature, where numerous felsic dikes extend into the volcanic rocks and there exists an abundance of mafic volcanic xenoliths within the intrusive.

On the government geology map of Sewell Township (Milne, 1972) a small body of serpentined ultramafic rock is shown to occur east of Sewell Lake at the end of an apophysis of the pluton. The recent mapping has identified an outcrop of carbonate-rich, high magnesian (probably ultramafic) rock on claim 997148, broadly in the same area of the previously mapped ultramafic body.

Two areas on the 84-claim block have indications of high strain deformation and hydrothermal activity. North of Deerfoot Lake outcrops of mafic volcanic rock in the eastern part of claim

997141 (east side of Kenogaming logging road), the western part of claim 997131 and the northeastern quadrant of claim 997118 (see Map 2) show well developed, northwest-striking foliations as well as chlorite and localized iron carbonate alteration. The other area of deformed and altered rocks is centred on the Crawford River about 200 meters south of the Sewell-Kenogaming township line. Here there are outcrops of chlorite schist which is locally crenulated and drag folded. At this latter location there are outcrops of medium-grained felsic rock probably related to the granodiorite as well as an abundance of quartz vein float.

#### LITHOGEOCHEMICAL ANALYSES

Sixty-five rock samples collected from the 84-claim group were analyzed for gold and 24 other trace elements by X-RAY Assay Laboratories of Toronto using the neutron activation technique. An additional 42 samples were analyzed by X-RAY for major oxide concentrations using the x-ray fluorescence method and rare earth element contents using ICP-MS.

The results of this sampling program are generally unimpressive. Only one sample gave a gold assay value which can be considered geochemically anomalous. This sample was collected from the single small outcrop of sulfide facies iron formation located on claim 997133 and yielded a value of 140 ppb gold. Sampling of other sulfide-bearing iron formation outcrops in the

region, notably along the Nat River iron formation in Kenogaming Township, has shown that this rock type typically contains between 50 and 150 ppb gold. Samples of mafic volcanic rock, including those taken from strongly foliated and carbonatized exposures, rarely yielded assay values greater than 10 ppb gold.

#### CONCLUSIONS

The recent program of mapping essentially supports the geological interpretation of Milne (1972) for the areas of Sewell and Kenogaming Townships covered by the 84 claims. While the number of bedrock exposures located by the mapping considerably exceeds those examined by Milne, no new rock units were identified. As shown by Milne (1972), a low- to medium-grade metamorphosed mafic flow sequence underlies most of the 84 claims. These flows appear to strike in a northwesterly direction and are truncated on the east by the granodiorite pluton.

In addition to the northwesterly trending zone of shearing and carbonate alteration identified by Milne (1972) approximately 500 meters north of Deerfoot Lake, a zone of chlorite-carbonate schist likely marking a second shear structure has been located crossing the Crawford River about 200 meters south of the Sewell-Kenogaming township line. Numerous quartz vein boulders have also been found in the vicinity of this second shear zone.

Widespread sampling of the bedrock exposures on the 84 claims failed to identify any significant gold mineralization. Even samples from the zones of shear deformation and carbonate alteration did not yield gold assay values appreciably greater than background values. A sample of sulfide-facies iron formation gave an assay value of 140 ppb gold, a value which is considered not unusual for this rock type in the region.

#### RECOMMENDATIONS

Based on the gold analyses and, to a lesser degree, the recent mapping, no specific gold exploration target areas have been identified. However, the apparent lack of prospective sites for mineralization may be attributed to the paucity of bedrock exposures.

Data from an airborne geophysical survey covering the southern half of Sewell Township (Dighem, 1983) shows a weak electromagnetic conductor trending northeastwards through Deerfoot Lake to the Mining Corp. gold occurrence located southeast of Lap Lake. It is suggested that the shear structure shown by Milne (1972) to be controlling the mineralization in this small deposit may extend southwestwards to Deerfoot Lake and can be interpreted as the source of the linear electromagnetic anomaly. It is recommended that an attempt be made to geophysically delineate this proposed structure on the ground. A

horizontal-loop electromagnetic (Max-Min) survey or possibly an induced polarization survey would potentially identify this structure. Once located geophysically, a program of trenching might be implemented to try and expose the structure along its strike length. If the overburden thickness prohibits trenching, a program of diamond drilling might be considered.

Respectfully submitted



Ron Burk, M.Sc.Eng.

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*Report on the Geology of the Kukatsh area, Reeves, Sewell, Penhorwood and Kenogaming Townships.*

CERTIFICATION

I, Ron Burk of 29 Wardencourt Drive, Agincourt, Ontario certify that;

1. I am a graduate of the University of Toronto with a Bachelor of Applied Science in Geo-Engineering
2. I am a graduate of Queen's University with a Master of Science, Geological Engineering.
3. I have been practising my profession in Canada for 5 years.
4. I have no economic interests in the property covered by this report.

Dated this October 14, 1988  
TIMMINS, Ontario



Ron Burk, M.Sc.Eng.

A P P E N D I X A

**CERTIFICATE OF ANALYSIS**  
**REPORT 6100**

TO: ROBERT S. MIDDLETON EXPLORATION  
 ATTN: DON GARNER  
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CUSTOMER No. 1078

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27-Jul-88

REF. FILE 2202-R3

Total Pages 4

42 ROCKS Proj. #M223

	METHOD	DETECTION LIMIT
WRMAJ %	WR	0.01
WRMIN PPM	WR	10.
Y PPM	ICPMS	1.
LA PPM	ICPMS	0.1
CE PPM	ICPMS	0.1
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ND PPM	ICPMS	0.1
SM PPM	ICPMS	0.1
EU PPM	ICPMS	0.05
GD PPM	ICPMS	0.1
TB PPM	ICPMS	0.1
DY PPM	ICPMS	0.1
HO PPM	ICPMS	0.05
ER PPM	ICPMS	0.1
TM PPM	ICPMS	0.1
YB PPM	ICPMS	0.1
LU PPM	ICPMS	0.05

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY .....

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SAMPLE	Y PPM	LA PPM	CE PPM	PR PPM	ND PPM	SM PPM	EU PPM	GD PPM
0001	5	3.4	7.4	1.3	5.9	1.7	0.73	1.6
0002	25	4.9	11.9	2.0	10.2	3.1	1.24	4.0
0003	15	2.2	5.3	1.0	5.0	1.6	0.82	2.3
0004	22	3.1	8.7	1.6	8.4	2.7	1.42	3.6
0005	5	5.0	13.4	2.3	12.0	3.3	1.14	2.7
0006	13	2.4	5.1	<0.1	4.4	1.5	0.80	2.0
0007	4	4.2	10.7	1.8	9.0	2.7	0.94	2.3
70266	22	31.3	79.3	11.4	47.7	7.7	2.03	5.7
70267	29	5.7	18.1	3.3	17.1	4.8	1.19	5.9
70268	15	6.3	12.0	1.7	7.3	2.0	0.88	2.5
70269	14	11.2	24.6	3.5	14.1	3.1	1.13	3.1
70270	2	<0.1	1.8	<0.1	1.2	0.5	<0.05	0.5
70271	20	5.9	17.2	2.9	13.6	3.1	0.98	3.9
70272	23	4.3	10.6	1.8	9.4	3.0	1.15	4.2
70273	7	2.1	3.5	<0.1	2.4	0.9	<0.05	1.2
70274	4	7.6	16.8	2.5	10.7	2.4	0.90	1.9
70275	5	13.4	30.0	4.2	18.0	3.0	1.16	2.2
70276	19	3.3	8.0	1.4	6.7	2.4	1.04	3.2
70277	15	3.0	7.3	1.3	6.3	2.1	0.95	2.7
70278	14	9.0	20.5	2.9	12.6	2.9	1.09	2.9
70279	19	3.0	7.7	1.4	7.3	2.5	1.02	3.2
70280	12	2.2	4.9	<0.1	4.3	1.5	0.95	1.9
70281	19	7.8	17.9	2.7	11.9	3.1	1.20	3.6
70282	7	20.3	43.4	5.9	24.8	4.2	1.41	2.9
70283	11	1.9	4.0	0.8	3.7	1.3	0.58	1.7
70284	15	14.2	30.4	4.2	17.9	3.5	1.38	3.1
70285	25	4.8	12.1	2.1	10.7	3.4	1.27	4.3
70286	15	1.6	3.9	<0.1	4.6	1.8	1.00	2.5
70287	10	25.2	56.1	7.4	30.4	4.9	1.44	3.5
70288	27	5.1	13.2	2.2	11.0	3.5	1.36	4.4
70289	15	3.6	8.6	1.5	6.8	2.0	0.87	2.5
70290	17	14.6	32.7	4.6	20.6	4.2	1.70	3.8
70291	11	19.6	44.4	5.9	25.1	4.2	1.50	3.2
70292	11	2.4	5.6	<0.1	4.6	1.4	0.59	1.8
70293	5	5.8	10.5	1.4	6.4	1.6	0.70	1.7
70294	15	14.4	32.5	4.6	20.9	4.1	1.42	3.5
70295	15	2.3	5.3	1.0	5.1	1.6	0.80	2.0
70296	23	12.1	27.4	4.0	18.3	4.4	1.61	4.8
70297	4	2.0	4.1	<0.1	3.5	1.1	0.54	1.1
70298	10	1.5	3.4	<0.1	3.4	1.2	0.63	1.6
70299	15	8.3	18.7	2.8	12.4	3.0	1.09	2.9
70300	13	27.2	57.0	7.5	30.6	5.0	1.65	3.7



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SAMPLE	TB PPM	DY PPM	HO PPM	ER PPM	TM PPM	YB PPM	LU PPM
0001	0.3	1.6	0.34	0.8	0.1	0.8	0.29
0002	0.7	5.1	1.13	3.3	0.4	2.9	0.55
0003	0.4	3.1	0.69	1.9	0.3	1.7	0.40
0004	0.8	4.1	0.96	2.8	0.5	2.6	0.51
0005	0.5	1.5	<0.05	0.8	0.2	<0.1	<0.05
0006	0.5	2.5	0.57	1.7	0.4	1.6	<0.05
0007	0.4	1.1	<0.05	0.6	0.2	<0.1	<0.05
70266	1.0	4.7	0.93	2.6	0.5	2.3	<0.05
70267	1.1	6.0	1.29	3.6	0.6	3.1	0.54
70268	0.6	2.9	0.67	2.0	0.4	1.9	<0.05
70269	0.6	3.0	0.64	1.8	0.4	1.6	<0.05
70270	0.2	<0.1	<0.05	0.4	0.2	<0.1	<0.05
70271	0.6	4.2	0.95	2.7	0.3	2.0	0.45
70272	0.8	4.6	1.03	3.1	0.6	2.8	0.56
70273	0.3	1.4	<0.05	1.0	0.3	<0.1	<0.05
70274	0.4	1.2	<0.05	0.6	0.2	<0.1	<0.05
70275	0.4	1.5	<0.05	0.8	0.2	<0.1	<0.05
70276	0.7	3.6	0.85	2.6	0.5	2.4	0.51
70277	0.6	3.2	0.73	2.1	0.4	1.9	<0.05
70278	0.6	2.8	0.64	1.8	0.4	1.7	<0.05
70279	0.7	3.9	0.85	2.5	0.5	2.4	<0.05
70280	0.5	2.4	0.54	1.6	0.4	1.5	<0.05
70281	0.7	3.9	0.88	2.6	0.5	2.5	0.52
70282	0.5	1.8	<0.05	1.0	0.3	1.1	<0.05
70283	0.3	2.2	0.53	1.4	0.2	1.1	0.32
70284	0.6	2.8	0.64	1.8	0.4	1.8	<0.05
70285	0.9	5.1	1.15	3.3	0.6	3.2	0.62
70286	0.6	3.1	0.69	2.0	0.4	1.9	<0.05
70287	0.6	2.3	<0.05	1.2	0.3	1.0	<0.05
70288	1.0	5.3	1.20	3.4	0.6	3.4	0.62
70289	0.6	3.0	0.69	1.9	0.4	1.8	<0.05
70290	0.7	3.4	0.74	2.1	0.4	1.9	<0.05
70291	0.6	2.6	0.50	1.4	0.3	1.1	<0.05
70292	0.4	2.3	0.52	1.5	0.3	1.5	<0.05
70293	0.4	1.2	<0.05	0.6	0.2	<0.1	<0.05
70294	0.6	3.2	0.67	1.9	0.4	1.7	<0.05
70295	0.4	2.8	0.66	1.8	0.2	1.7	0.40
70296	0.9	4.9	1.03	2.7	0.5	2.5	<0.05
70297	0.3	1.0	<0.05	0.6	0.2	<0.1	<0.05
70298	0.4	2.1	<0.05	1.4	0.3	1.3	<0.05
70299	0.6	3.0	0.65	1.8	0.4	1.6	<0.05
70300	0.6	2.8	0.59	1.6	0.3	1.5	<0.05

## XRF - WHOLE ROCK ANALYSIS

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SAMPLE \ %	SiO2	Al2O3	CaO	MgO	Na2O	K2O	Fe2O3	MnO	TiO2	P2O5	Cr2O3	LOI	SUM
0001	44.7	13.6	9.65	4.77	1.06	1.26	11.2	0.18	0.81	0.07	0.01	10.8	98.2
0002	46.2	12.3	11.3	6.18	1.05	0.26	17.2	0.30	1.21	0.11	<0.01	2.39	98.5
0003	47.7	14.7	10.9	7.57	2.00	0.50	12.6	0.19	0.76	0.06	0.04	1.23	98.3
0004	47.8	14.3	9.63	5.41	1.31	0.61	16.7	0.19	1.24	0.10	<0.01	3.08	100.4
0005	52.1	17.1	2.83	2.57	2.74	0.64	13.7	0.09	1.98	0.16	<0.01	5.16	99.2
0006	47.1	15.0	9.32	7.39	1.10	0.07	11.8	0.18	0.77	0.06	0.04	5.47	98.3
0007	44.8	13.7	11.0	2.84	1.95	0.32	12.5	0.27	1.46	0.12	<0.01	11.2	100.2
70266	57.0	16.1	6.60	3.51	4.19	1.32	7.67	0.14	0.88	0.23	<0.01	0.62	98.4
70267	46.9	7.09	12.0	11.6	0.88	0.40	17.8	0.16	0.40	0.02	<0.01	0.93	98.2
70268	50.3	14.6	10.9	6.71	2.03	0.53	10.9	0.21	0.74	0.06	0.04	1.54	98.6
70269	42.2	13.0	17.9	6.70	0.59	0.76	14.7	0.32	0.77	0.12	<0.01	1.00	98.1
70270	39.4	2.62	0.90	35.2	0.02	0.03	7.74	0.17	0.16	0.03	0.74	11.7	98.7
70271	48.1	4.40	12.4	10.6	0.67	0.28	20.2	0.15	0.26	0.01	<0.01	1.08	98.2
70272	47.7	13.3	9.04	7.42	0.92	0.11	15.1	0.19	1.21	0.10	0.02	3.23	98.4
70273	54.4	17.1	11.5	3.98	3.67	0.58	6.90	0.11	0.74	0.02	0.05	1.16	100.3
70274	44.5	13.5	8.53	6.30	2.47	1.11	8.88	0.16	0.85	0.10	0.02	12.5	99.0
70275	45.9	12.7	7.48	9.97	0.48	0.24	10.7	0.15	0.65	0.09	0.07	10.1	98.6
70276	49.5	12.7	9.51	7.07	3.03	0.22	12.7	0.20	1.11	0.08	0.02	1.93	98.1
70277	44.6	11.4	8.38	12.4	0.70	0.19	15.4	0.22	0.88	0.07	0.01	4.08	98.4
70278	52.5	16.0	5.87	3.22	4.55	1.49	7.54	0.10	0.93	0.14	0.02	6.08	98.5
70279	47.7	14.9	12.6	6.90	1.33	0.06	13.2	0.20	1.11	0.08	0.05	2.08	100.2
70280	47.0	15.9	11.8	5.15	2.04	0.17	10.7	0.18	0.68	0.05	0.05	4.70	98.4
70281	50.7	15.5	6.86	6.62	2.49	0.39	13.2	0.18	1.15	0.14	0.01	1.54	98.8
70282	48.4	16.5	7.55	4.04	3.63	1.12	9.57	0.12	0.79	0.24	<0.01	8.23	100.3
70283	43.8	13.6	8.96	7.83	2.34	0.15	10.6	0.18	0.60	0.05	0.05	10.7	98.9
70284	36.9	13.1	21.5	2.58	0.66	0.77	10.3	0.20	0.66	0.26	<0.01	12.5	99.5
70285	48.9	14.2	12.1	4.34	2.35	0.21	14.6	0.25	1.48	0.12	0.01	1.93	100.5
70286	41.8	12.6	12.0	6.31	0.29	0.03	18.3	0.26	1.66	0.08	<0.01	5.47	98.8
70287	59.3	15.6	3.24	2.80	5.45	0.12	9.20	0.10	0.72	0.28	0.01	1.85	98.7
70288	51.3	13.3	9.51	2.43	1.88	0.04	15.1	0.19	1.52	0.13	<0.01	3.00	98.4
70289	46.2	15.1	12.0	8.28	1.87	0.12	11.9	0.19	0.71	0.06	0.03	2.85	99.3
70290	50.7	16.7	5.46	7.50	5.88	0.12	6.51	0.11	0.97	0.29	0.01	4.85	99.1
70291	55.4	15.8	4.31	3.42	3.73	1.95	7.54	0.12	0.93	0.28	0.02	4.77	98.4
70292	55.2	16.4	10.3	2.70	1.31	0.14	9.11	0.15	0.69	0.06	0.05	2.54	98.7
70293	42.9	13.0	7.97	6.66	2.12	0.12	14.4	0.15	1.24	0.05	<0.01	9.93	98.6
70294	55.6	16.0	9.92	3.67	3.22	0.77	8.01	0.15	0.96	0.22	0.03	1.39	100.0
70295	48.3	15.0	11.4	7.79	2.18	0.41	12.2	0.20	0.82	0.06	0.05	1.62	100.1
70296	50.1	13.3	11.0	6.48	1.91	0.51	14.3	0.22	1.72	0.15	0.02	0.70	100.5
70297	50.4	15.6	8.75	2.28	1.71	0.58	8.39	0.13	0.67	0.05	0.05	9.85	98.5
70298	46.2	15.9	11.5	8.54	1.48	0.08	10.3	0.16	0.56	0.05	0.05	4.00	98.8
70299	48.2	12.5	8.03	7.42	2.88	0.25	13.3	0.17	0.64	0.13	0.07	4.77	98.4
70300	52.6	13.7	5.81	5.83	0.56	1.53	13.6	0.16	0.63	0.27	<0.01	3.54	98.4

XRF W.R.A. SUMS INCLUDE ALL ELEMENTS DETERMINED. FOR SUMMATION, ELEMENTS ARE CALCULATED AS OXIDES

## XRF - WHOLE ROCK ANALYSIS

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SAMPLE \ PPM	RB	SR	Y	ZR	NB	BA
0001	40	68	11	30	<10	619
0002	15	140	36	45	13	38
0003	26	270	11	<10	<10	71
0004	35	207	31	41	<10	206
0005	35	114	19	101	20	409
0006	13	110	13	19	21	<10
0007	18	92	25	68	26	57
70266	27	526	11	107	27	426
70267	14	17	21	27	27	34
70268	11	132	12	29	22	95
70269	29	86	13	59	18	49
70270	14	<10	<10	<10	<10	23
70271	11	24	<10	46	<10	40
70272	<10	98	17	63	27	35
70273	24	185	14	16	12	136
70274	28	445	14	26	<10	286
70275	15	282	<10	<10	<10	52
70276	12	122	13	35	19	15
70277	21	80	16	38	11	54
70278	46	216	<10	82	14	397
70279	12	112	24	32	18	15
70280	<10	91	26	20	<10	35
70281	31	284	18	55	11	80
70282	45	409	13	72	16	271
70283	<10	92	10	20	<10	62
70284	46	573	<10	40	26	163
70285	15	88	25	68	15	39
70286	<10	98	<10	<10	18	<10
70287	19	136	<10	153	14	110
70288	<10	250	22	74	19	22
70289	<10	104	<10	<10	16	<10
70290	11	142	<10	95	24	53
70291	58	319	<10	91	20	923
70292	<10	343	<10	14	18	23
70293	<10	75	<10	<10	20	26
70294	27	516	<10	48	<10	209
70295	31	454	41	<10	<10	69
70296	33	155	17	74	15	152
70297	16	180	24	18	16	97
70298	<10	97	24	<10	<10	<10
70299	<10	283	12	15	<10	137
70300	42	993	23	78	16	355

A P P E N D I X B



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SAMPLE	AU PPB	NA %	CA %	SC PPM	CR PPM	FE %	CO PPM	NI PPM	ZN PPM	AS PPM
8101	<5	1.70	6	22.0	160	15.5	100	200	90	<2
8102	<5	2.10	7	24.2	240	8.45	41	<200	130	<2
8103	<5	1.70	6	31.9	290	10.5	34	<200	300	<2
8104	<5	0.47	<1	1.9	300	0.69	<5	<200	<50	<2
8105	<5	1.50	<1	13.1	210	5.06	23	<200	<50	3
8106	<5	2.00	4	31.6	20	10.5	49	<200	140	<2
8107	<5	0.99	3	30.7	120	14.7	86	300	100	4
8108	<5	0.76	10	26.9	90	13.6	62	<200	100	<2
8109	<5	0.07	1	22.9	150	14.8	83	<200	130	2
8110	<5	2.70	4	41.8	340	7.27	45	<200	<50	6
8111	<5	1.70	7	53.0	460	11.5	48	<200	160	8
8112	<5	3.90	4	22.6	40	5.69	24	<200	<50	3
8113	<5	2.60	5	46.2	410	5.07	43	<200	200	<2
8114	8	0.09	11	16.0	180	13.7	160	200	120	2
8115	<5	2.60	6	34.3	250	7.42	31	<200	70	<2
8116	<5	0.76	5	31.5	150	9.63	71	<200	210	<2
8117	7	0.14	8	61.6	220	15.9	63	<200	200	3
8118	<5	1.90	6	26.5	200	7.81	41	<200	120	<2
8119	<5	0.86	3	13.8	270	4.90	18	<200	70	<2
8120	<5	2.10	2	8.9	200	6.77	13	<200	100	<2
8121	<5	0.76	6	45.5	100	8.86	34	<200	190	3
8122	<5	0.97	6	18.1	110	8.15	17	<200	100	<2
8123	<5	0.91	8	36.9	410	7.75	45	<200	100	<2
8124	24	1.30	7	32.1	90	9.60	66	<200	110	9
8125	<5	0.05	1	7.9	140	15.1	16	<200	330	<2
8126	140	1.20	5	10.7	180	4.92	54	<200	5400	35
8127	10	1.30	4	43.8	410	7.81	57	<200	230	5
8128	55	2.40	1	9.6	100	10.3	50	<200	590	<2
8129	9	3.00	4	42.9	160	9.47	47	<200	180	<2
8130	<5	1.00	<1	48.8	50	15.6	78	<200	530	13
8131	<5	1.80	3	56.2	60	9.97	40	<200	200	11
8132	<5	2.60	3	11.4	130	4.08	24	<200	650	2
8133	8	2.60	4	23.1	290	7.84	36	<200	110	11
8134	<5	0.65	6	43.7	370	9.39	50	300	240	8
8135	<5	0.80	7	47.4	140	14.2	60	<200	290	<2
8136	<5	<0.05	<1	3.0	50	5.76	6	<200	110	<2
8137	65	0.57	2	5.1	80	2.30	25	<200	2600	16
8138	6	0.22	1	0.7	130	2.46	17	<200	80	<2
8139	<5	1.40	<1	3.7	<10	1.34	<5	<200	<50	2
8140	<5	0.08	6	23.5	2100	7.97	90	700	180	<2
8141	<5	3.20	2	5.4	40	2.07	5	<200	<50	<2
8142	<5	0.84	1	26.2	30	4.59	18	<200	120	5
8143	<5	1.50	2	6.7	70	2.16	17	<200	390	<2
8144	<5	1.10	1	9.2	110	3.03	14	<200	60	5
8145	<5	2.00	2	42.3	200	8.33	36	<200	170	5
8146	9	2.00	4	32.0	40	4.82	24	<200	150	<2
8147	<5	1.20	3	23.8	1400	6.66	65	1400	70	<2
8148	<5	2.80	<1	6.8	10	1.26	<5	<200	<50	<2
8149	<5	<0.05	4	16.4	1700	6.09	72	1600	140	<2
8150	<5	3.90	2	5.6	20	2.09	9	<200	90	5

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SAMPLE	AU PPB	NA %	CA %	SC PPM	CR PPM	FE %	CO PPM	NI PPM	ZN PPM	AS PPM
8151	<5	<0.05	5	26.7	2200	7.19	68	1200	170	<2
8152	6	0.23	<1	0.4	10	0.76	<5	<200	<50	9
8153	<5	3.00	2	4.7	20	1.92	7	<200	<50	<2
8154	<5	1.50	5	47.5	140	8.90	46	<200	250	2
8155	11	1.30	5	40.3	300	8.73	48	<200	140	2
8156	<5	2.20	5	24.7	520	8.47	50	400	190	<2
8157	<5	1.50	11	23.3	60	5.47	26	<200	<50	7
8158	<5	1.80	4	41.3	20	12.0	49	<200	250	<2
8159	<5	0.95	7	38.8	120	7.70	44	<200	190	<2
8160	<5	2.30	9	44.4	180	9.32	49	300	350	<2
8161	<5	1.80	5	40.8	50	13.6	49	<200	300	3
8162	<5	<0.05	3	10.4	3000	5.95	91	2900	110	47
8163	<5	3.60	2	7.6	40	2.79	13	<200	<50	12
8164	<5	<0.05	7	8.1	360	2.23	12	200	<50	3
8165	10	4.70	<1	1.3	10	0.66	<5	<200	<50	2
8166	750	0.42	1	9.2	40	2.28	13	<200	1000	<2
8167	160	0.25	<1	8.1	40	17.7	54	<200	670	120

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SAMPLE	SE PPM	RB PPM	MO PPM	AG PPM	SB PPM	BA PPM	LA PPM	CE PPM	SM PPM
8101	<5	<40	<5	<5	0.2	<200	8	16	3.5
8102	<5	<40	<5	<5	0.2	<100	10	18	1.9
8103	<5	<30	<5	<5	0.2	<100	19	37	3.2
8104	<5	<30	<5	<5	0.2	<100	2	3	0.4
8105	<5	<30	<5	<5	0.3	100	18	42	3.5
8106	<5	<40	<5	<5	0.2	300	45	91	9.5
8107	<5	<30	<5	<5	0.2	<100	28	54	7.8
8108	<5	<30	<5	<5	<0.2	<200	11	31	6.7
8109	<5	<30	<5	<5	<0.2	<100	6	20	2.4
8110	<5	50	<5	<5	<0.2	<100	3	11	1.4
8111	<5	<30	<5	<5	0.3	<100	4	16	3.5
8112	<5	<50	6	<5	<0.2	<100	17	42	3.3
8113	8	<40	<5	<5	0.2	<100	4	13	2.3
8114	<5	<30	<5	<5	<0.2	<200	12	32	6.9
8115	<5	40	<5	<5	0.5	400	18	34	3.4
8116	<5	<30	<5	<5	0.2	<200	3	9	1.8
8117	<5	<30	<5	<5	0.3	<100	7	25	3.7
8118	<5	<30	<5	<5	<0.2	200	9	18	2.3
8119	<5	<30	<5	<5	0.2	100	3	7	1.1
8120	<5	<30	<5	<5	0.3	200	22	39	3.7
8121	<5	<30	<5	<5	<0.2	<100	6	16	3.6
8122	<5	40	<5	<5	<0.2	500	15	28	3.8
8123	<5	<30	<5	<5	0.7	100	3	10	1.5
8124	<5	50	<5	<5	0.2	300	<1	<3	0.9
8125	<5	<30	<5	<5	0.5	<100	11	21	2.0
8126	<5	40	<5	<5	0.6	400	19	34	3.4
8127	<5	40	<5	<5	0.2	<200	2	9	1.3
8128	5	<30	<5	<5	0.5	200	10	20	2.4
8129	9	<30	<5	<5	0.4	<100	3	17	2.3
8130	<5	<30	<5	<5	0.2	<100	6	18	3.8
8131	<5	50	<5	<5	0.2	500	5	17	3.7
8132	<5	50	<5	<5	0.4	400	24	49	4.5
8133	<5	<30	<5	<5	0.4	<100	56	94	9.5
8134	<5	<30	<5	<5	0.5	<100	4	13	2.3
8135	<5	30	8	<5	<0.2	<100	5	9	2.7
8136	<5	<30	<5	<5	0.2	<100	4	7	0.8
8137	<5	<30	<5	<5	0.4	200	8	14	1.6
8138	<5	<30	<5	<5	<0.2	<100	1	<3	0.1
8139	<5	50	<5	<5	0.5	100	11	17	1.5
8140	<5	<30	<5	<5	0.4	100	1	4	0.5
8141	<5	<50	<5	<5	0.2	300	12	22	1.7
8142	<5	<30	<5	<5	<0.2	200	3	6	1.8
8143	<5	40	<5	<5	0.2	200	14	27	2.6
8144	<5	<30	<5	<5	0.2	100	21	38	3.7
8145	<5	<30	<5	<5	0.4	100	3	13	1.8
8146	<5	80	13	<5	0.7	400	4	12	1.5
8147	<5	<30	<5	<5	0.4	200	15	29	2.7
8148	<5	<30	<5	<5	<0.2	900	25	41	4.2
8149	<5	<30	<5	<5	0.2	<200	<1	3	0.5
8150	<5	60	<5	<5	1.2	600	15	24	2.7

**KRAL**

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SAMPLE	SE PPM	RB PPM	MO PPM	AG PPM	SB PPM	BA PPM	LA PPM	CE PPM	SM PPM
8151	<5	<30	<5	<5	0.5	<100	1	4	0.6
8152	<5	<30	<5	<5	0.8	100	<1	<3	<0.1
8153	<5	<30	<5	<5	0.2	400	15	20	2.0
8154	<5	<30	<6	<5	<0.2	<100	4	13	2.3
8155	<5	<30	<5	<5	0.3	100	2	<3	1.5
8156	<5	<30	<5	<5	0.3	<300	43	92	8.9
8157	<5	<30	<5	<5	0.4	200	8	17	2.4
8158	<5	<30	<5	<5	<0.2	200	5	19	3.6
8159	<5	<30	<5	<5	0.2	<100	3	14	2.2
8160	<5	50	<5	<5	0.8	<100	4	16	2.3
8161	<5	<30	<5	<5	0.2	300	5	15	3.4
8162	<5	<30	<5	<5	0.4	<100	1	<3	0.3
8163	<5	<30	<5	<5	0.4	1100	81	126	13.7
8164	<5	<30	<5	<5	0.2	<100	1	<3	1.0
8165	<5	<30	<5	<5	0.3	200	8	13	1.3
8166	<5	<30	<5	<5	<0.2	<300	1	<3	0.5
8167	<5	50	<5	<5	4.6	500	13	25	2.6

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SAMPLE	EU PPM	YB PPM	LU PPM	HF PPM	TA PPM	W PPM	IR PPB	TH PPM	U PPM
8101	<0.2	2.0	0.30	1	<1	<4	<20	0.6	<0.6
8102	<0.2	1.2	0.21	2	<1	<4	<20	8.6	2.1
8103	<0.2	2.0	0.33	1	<1	<4	<20	2.5	<0.5
8104	<0.2	0.2	<0.05	<1	<1	<4	<20	<0.5	<0.5
8105	<0.2	0.7	0.14	1	<1	16	<20	0.7	0.6
8106	3.0	1.6	0.24	2	<1	<4	<20	1.1	0.8
8107	1.3	2.3	0.28	2	<1	<4	<20	2.2	0.8
8108	1.7	3.7	0.54	1	<1	<4	<20	0.8	<0.5
8109	<0.2	1.6	0.15	2	<1	<4	<20	1.8	0.9
8110	<0.2	1.3	0.21	1	<1	<4	<20	<0.5	<0.7
8111	1.1	2.9	0.43	1	<1	<4	<20	<0.5	<0.5
8112	<0.2	1.4	0.28	1	<2	<4	<20	1.4	<0.7
8113	1.2	1.8	0.30	1	<1	<4	<20	<0.5	<0.5
8114	1.3	3.4	0.47	1	<1	<4	<20	0.5	<0.5
8115	0.5	1.4	0.20	1	<1	12	<20	1.1	<0.5
8116	0.9	1.8	0.29	1	<1	<4	<20	<0.5	<0.5
8117	1.1	2.5	0.43	<1	<1	5	<20	<0.5	0.8
8118	1.3	1.1	0.12	1	<1	<4	<20	0.7	<0.5
8119	0.3	0.7	0.14	1	<1	<4	<20	<0.5	<0.5
8120	1.1	0.7	0.14	2	<1	<4	<20	2.2	<0.5
8121	1.1	3.2	0.46	2	1	<4	<20	<0.5	<0.6
8122	1.4	1.3	0.22	2	<1	<4	<20	1.9	0.8
8123	<0.2	1.4	0.20	1	<1	<4	<20	<0.5	<0.5
8124	<0.3	0.9	0.15	<1	<1	8	<20	0.7	<0.6
8125	0.6	1.0	0.17	2	<1	<4	<20	1.9	<0.5
8126	0.6	1.3	0.23	3	<1	<4	<20	2.1	<0.5
8127	<0.2	1.5	0.23	1	<1	<4	<20	<0.5	<0.5
8128	1.3	1.0	0.23	2	<1	<4	<20	1.5	0.9
8129	<0.2	2.0	0.30	1	<1	<4	<20	<0.5	<0.5
8130	1.1	3.6	0.51	2	<1	<4	<20	<0.5	<0.5
8131	0.9	3.9	0.63	3	<1	<4	<20	<0.5	1.6
8132	<0.2	1.6	0.30	2	<1	7	<20	3.1	1.3
8133	2.5	1.5	0.22	1	<1	<4	<20	5.0	<0.5
8134	0.8	2.1	0.32	2	<1	<4	<20	<0.5	<0.6
8135	1.1	2.4	0.40	2	<1	<4	<20	<0.5	<0.5
8136	0.2	0.4	0.08	1	<1	<4	<20	0.8	<0.5
8137	0.4	0.6	0.11	1	<1	<4	<20	1.0	<0.5
8138	<0.2	<0.2	<0.05	<1	<1	<4	<20	<0.5	<0.5
8139	0.5	0.4	0.10	3	<1	<4	<20	2.3	0.7
8140	<0.2	0.8	0.12	<1	<1	<4	<20	<0.5	<0.5
8141	<0.2	0.5	0.10	3	<1	4	<20	1.9	1.2
8142	0.7	2.1	0.29	1	<1	<4	<20	<0.5	<0.5
8143	0.4	0.8	0.15	2	1	<4	<20	1.8	<0.5
8144	0.9	0.5	0.08	<1	<1	<4	<20	2.2	<0.5
8145	<0.2	2.1	0.38	1	2	<4	<20	<0.5	<0.5
8146	<0.5	1.3	0.34	<1	<1	4	<20	<0.5	<0.5
8147	<0.2	0.7	0.19	1	<1	<4	<20	1.3	<0.7
8148	0.9	0.8	0.12	2	<2	<4	<20	4.4	1.3
8149	<0.2	0.6	0.09	<1	<1	<4	<20	<0.5	<0.5
8150	<0.2	0.5	0.11	2	<1	<4	<20	2.2	<0.5

XRAL

12-JUL-88

REPORT 5485

REF.FILE 1834-T1

PAGE 6 OF 6

SAMPLE	EU PPM	YB PPM	LU PPM	HF PPM	TA PPM	W PPM	IR PPB	TH PPM	U PPM
8151	<0.2	0.9	0.15	<1	<1	<4	<20	<0.5	0.9
8152	<0.2	0.2	<0.05	<1	<1	<4	<20	<0.5	<0.5
8153	0.8	0.5	0.09	3	<1	<4	<20	2.2	0.8
8154	0.8	2.0	0.30	1	2	<4	<20	<0.5	<0.5
8155	<0.2	1.7	0.26	1	<1	<4	<20	<0.5	<0.5
8156	1.5	1.3	0.22	2	<1	<4	<20	2.3	<0.5
8157	0.9	1.4	0.29	1	<1	<4	<20	0.7	<0.5
8158	1.0	3.8	0.59	2	<1	<4	<20	0.6	1.2
8159	<0.2	2.0	0.31	<1	<1	<4	<20	<0.5	<0.5
8160	<0.2	2.2	0.34	1	<1	<4	<20	<0.5	<0.5
8161	<0.2	3.4	0.53	2	<1	<4	<20	<0.5	<0.5
8162	<0.2	0.3	<0.05	<1	<1	<4	<20	<0.5	<0.6
8163	3.7	1.5	0.30	4	<2	<4	<20	13.0	3.7
8164	0.6	0.8	0.12	<1	<1	<4	<20	<0.5	<0.5
8165	<0.2	0.2	<0.05	1	<2	<4	<20	1.4	<0.5
8166	-0.2	0.5	0.10	<1	<1	7	<20	<0.5	<0.5
8167	-0.5	0.9	0.12	2	<1	<4	<20	1.4	<0.6



Ontario



42A04NW0011 2.11869 SEWELL

900

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines

880 Bay Street  
3rd Floor  
Toronto, Ontario  
(416) 965-4888

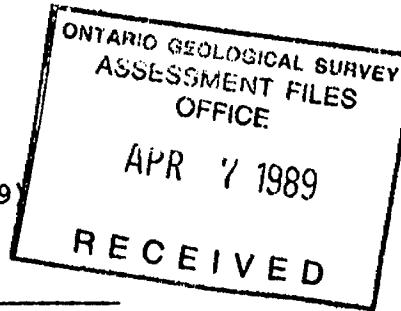
March 31, 1989

Your File : W8906-046/053  
Our File : 2.11869

Mining Recorder  
Ministry of Northern Development and Mines  
60 Wilson Avenue  
Timmins, Ontario  
P4N 2S7

Dear Sir:

Re: Data for Assaying submitted under Section 77(19)  
of the Mining Act R.S.O. 1980 on Mining Claims  
P 993733 et al, in Sewell/Kenogaming



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

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

Yours sincerely,

W.R. Cowan  
Provincial Manager, Mining Lands  
Mines & Minerals Division

RM  
Encl:

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

cc: Resident Geologist  
Timmins, Ontario



Ministry of  
Northern Development  
and Mines

Technical Assessment  
Work Credits

File  
2.11869

Date  
March 31, 1989

Mining Recorder's Report of  
Work No. W8906-046/053

Recorded Holder

GLEN AUDEN RESOURCES LIMITED

Township or Area

SEWELL/KENOGAMING

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed	
Geophysical	\$5647.00 spent on samples taken from mining claims:	
Electromagnetic _____ days	P 993733 997161	
Magnetometer _____ days	997102 997163	
Radiometric _____ days	997115 997183	
Induced polarization _____ days	997118 - 119 997186	
Other _____ days	997127 1027090 - 091	
997130 - 131		
997133 - 135 inclusive		
997141		
997146 to 148 inclusive		
997150		
997152 to 155 inclusive		
997157 - 158		
Man days <input type="checkbox"/>	Airborne <input type="checkbox"/>	376.46 days credit allowed which may be grouped in accordance with Section 76(6) of the Mining Act R.S.O. 1980
Special provision <input type="checkbox"/>	Ground <input type="checkbox"/>	
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.		
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.		

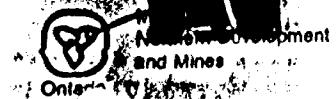
Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey

insufficient technical data filed





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

DOCUMENT No.  
**W 8906-053**

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

**211869**

Mining Act

Type of Survey(s)

**Assaying**

Claim Holder(s)

Glen Auden Resources Limited

Address

90 P.O. Box 1637 Timmins, Ontario P4N 7W8.

Survey Company

R.S. Middleton Exploration Services Inc.

Date of Survey (from & to)

Day | Mo. | Day | Mo. | Day | Mo.

Total Miles of line Cut

Name and Address of Author (of Geo-Technical report)

R. Burk, P.O. Box 1637 Timmins Ontario P4N 7W8

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey using the same grid: Enter 20 days (for each)	- Radiometric	
FEB 15 1989	- Other	
MINING LANDS SECTION	Geological	
Complete reverse side and enter total here	Geochemical	
	Geophysical	
	- Electromagnetic	
	- Radiometric	
	Geological	
	Geochemical	
Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed

**Assaying: P-993733, P-997102, P-997115**

Performed on Claim(s) P-997118 - 119 inc. P-997130

P-997131, P-997133-135 inc., P-997141, P-997-146 - 148 inc., P-997150, P-997152 - 155 inc.  
P-997158, P-997161, P-997186, P-1027090-091.

Calculation of Expenditure Days Credits

Total Expenditures	÷	15	=	376
--------------------	---	----	---	-----

Instructions

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

\* Expenditures  
Credits to be obtained from original submission of Assaying  
Credits made November 17, 1988.

103 days  
Assaying credit remaining

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

8

Date

Dec. 13/88

Recorded Holder or Agent (Signature)

*Cynthia Abernethy*

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying

*Cynthia Abernethy R.S. Middleton Exploration Services Inc.*  
P.O. Box 1637 Timmins Ont. P4N 7W8 Date Certified Dec 14/88 Certified by (Signature) *Cynthia Abernethy*

For Office Use Only		
Total Days Cr Recorded	Date Recorded	Mining Work Order
140	DEC 13/88	Branch Director
Date Approved as Recorded		

INVOICE TO: GLEN AUDEN RESOURCES LIMITED

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • 416.445.5809

COPY TO:

C/O ROBERT S. MIDDLETON EXPLORATION  
ATTN: DON GARNER  
BOX 1637  
136 CEDAR STREET SOUTH  
TIMMINS, ONTARIO P4N 7W8

SUBMITTED TO:

ROBERT S. MIDDLETON EXPLORATION  
ATTN: DON GARNER  
BOX 1637  
136 CEDAR STREET SOUTH  
TIMMINS, ONTARIO P4N 7W8

SAME

CUSTOMER NO. 1078

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBMIT
6100	06-Sep-88	2202	27-JUL-

TERMS

TERMS NET 30 DAYS

1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

CLIENT P.O. NO.	PROJECT NO.	TYPE OF SAMPLES SUBMITTED
	H223	ROCK

NO OF PKGS	SHIPPED VIA	SHIPMENT NO.	WAY BILL NO.	SHIPPED FROM
1 BOX	ONR		X411961	TIMMINS

QUANTITY	DESCRIPTION / METHOD	CODE NUMBER	UNIT COST	AMOUNT
1. 42	REE BY ICP/MS	12, 0, 0, 0, 0	75.00	3150.00
2. 42	WHOLE ROCK ANALYSIS	6, 0, 0, 0, 0	25.00	1050.00
3. 42	CRUSHING & MILLING	1, 0, 0, 0, 0	3.50	147.00
<i>Courier Via Canada Post Sept 4/88</i>				
				SUB-TOTAL \$ 4347.00

MISC CHARGES	SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES	
	4.50				\$ 4.50

ORIGINAL INVOICE WITH YOUR PO REPLY

TOTAL IN CANADIAN FUNDS \$ 4351.50

INVOICE TO: (Flex) Auden Resources Ltd.

1886 LESLIE STREET • DON MILLS ONTARIO M3E 3W6 • (416) 445-5801

COPY 10

ROBERT S. MIDKILETON EXPLO  
ATIN: RUM BURX  
BOX 1437  
136 WAR STREET SOUTH  
TIMMINS, ONTARIO P4N 7W8

SAME Consider  
-to Carolyn

**SUBMITTED TO:**

ROBERT S. MIDDLETON EXPLORATION  
ATTN: RON BURK  
BOX 1637  
136 CEDAR STREET SOUTH  
TIMMINS, ONTARIO P4N 7W8

CUSTOMER NO. 1078

July 22)

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBM.
5485	12-Jul-88	1834	27-Jun-

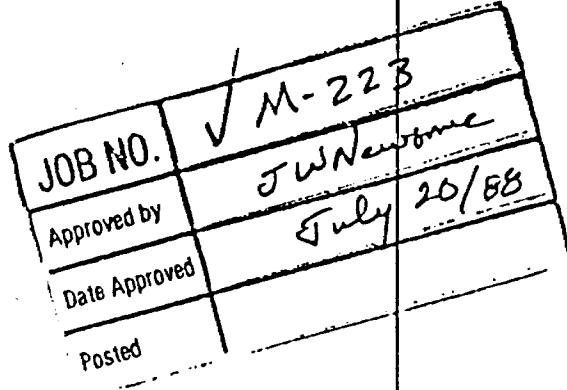
THE JOURNAL OF CLIMATE Vol. 17, No. 10, October 2004, pp. 2001–2012

TERMS NET 30 DAYS  
1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

CLIENT P.O. NO. M223 TYPE OF SAMPLES SUBMITTED ROCK

NO OF PKGS 2 BOXES	SHIPPED VIA ONR	WAY BILL NO X410925	SHIPPED FROM TIMMINS
-----------------------	--------------------	------------------------	-------------------------

QUANTITY	DESCRIPTION METHOD	CODE NUMBER	UNIT COST	ITEM #
1. 67	L-VIAL, 02-6 (LOT)	14,20, 0, 0, 0	15.00	1005.0
2. 33	CRUSH & AGATE MILL	1, 0, 0, 0, 0	5.00	165.0
3. 34	CRUSH & CHROME MILL	1, 0, 0, 0, 0	3.50	119.0



GIB-TOTAL

\$ 1285.00

<b>MISC CHARGES</b>	SHIPPING CHARGE <b>6.50</b>	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES	\$ <b>6.50</b>
	OTHER			SURCHARGE - RUSH SERVICE	

**ORIGINAL INVOICE**

**TOTAL  
CANADIAN  
Funds**

11295.5

MINING LANDS: PLEASE COMPLETE THIS FORM & RETURN IT WITH REPORT  
TO THE ASSESSMENT FILES OFFICE

DATE REMOVED:  
(from AFO)

Mar 9/89

DATE RETURNED:  
(to AFO')

REPORT #: 2.11869

FICHE NO. : \_\_\_\_\_ (where applicable)

REASON FOR REQUESTING REPORT (complete #1-4 below):

1. INFORMATION ADDED TO EXISTING PAGES OF REPORT:

IF YES, SPECIFY PAGES: 6

: \_\_\_\_\_

: \_\_\_\_\_

2. a) PAGES/MAPS ADDED TO THIS REPORT: 6 TOTAL PAGES ADDED

: \_\_\_\_\_ TOTAL MAPS ADDED

b) TYPE OF PGS ADDED: 1 CORRESPONDENCE

: \_\_\_\_\_ WORK REPORTS (AMENDED)

: 2 WORK RPTS (NEW)

: \_\_\_\_\_ MISSING PAGES OF TEXT

: 3 OTHER (PLEASE SPECIFY)

*(1 statement + 2 invoices)*

3. a) REMOVAL OF PGS FROM REPORT: \_\_\_\_\_ TOTAL PGS REMOVED

b) TYPE OF PAGES REMOVED : \_\_\_\_\_ CORRESPONDENCE

: \_\_\_\_\_ WORK REPORTS

: \_\_\_\_\_ PGS OF TEXT

: \_\_\_\_\_ OTHER (PLEASE SPECIFY)

4. REPORT NEEDED FOR REFERENCE ONLY:

NO INFORMATION ALTERED :

NO INFORMATION ADDED :

NO INFORMATION DELETED :



Ontario

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines

Mining Lands Section  
3rd floor, 880 Bay Street  
Toronto, Ontario  
M5S 1Z8

Telephone: (416) 965-4888

December 20, 1988

Your file: W8806-50117  
Our file: 2.11869

ONTARIO GEOLOGICAL SURVEY  
ASSESSMENT FILES  
OFFICE

DEC 21 1988

RECEIVED

Mining Recorder

Ministry of Northern Development and Mines  
60 Wilson Avenue  
Timmis, Ontario  
P4N 2S7

Dear Sir:

Re: Notice of Intent dated December 1, 1988 - Geological Survey  
submitted on Mining Claims P 997102 et al in Sewell & Kenogaming Townships

The assessment work credits, as listed with the above-mentioned Notice of Intent,  
have been approved as of the above date.

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

Yours sincerely,

W.R. Cowan  
Provincial Manager, Mining Lands  
Mines & Minerals Division

R.M.  
RM:pl  
Enclosure

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

Resident Geologist  
Timmis, Ontario

Glen Auden Resources Limited  
c/o P.O. Box 1637  
Timmis, Ontario  
P4N 7W8

R.S. Middleton Exploration Services  
P.O. Box 1637  
Timmis, Ontario  
P4N 7W8



Ministry of  
Northern Development  
and Mines

Technical Assessment  
Work Credits

File  
2.11869

Date  
December 1, 1988

Mining Recorder's Report of  
Work No. W8806-50117

Recorded Holder

Glen Auden Resources Limited

Township or Area

Sewell and Kenogaming Townships

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b>	
Electromagnetic _____ days	
Magnetometer _____ days	P 997102 to 131 inclusive
Radiometric _____ days	997133 to 158 inclusive
Induced polarization _____ days	997160 to 165 inclusive
Other _____ days	997182-183 997186 1027088 to 102 inclusive 993731 to 733 inclusive
<b>Section 77 (19) See "Mining Claims Assessed" column</b>	
Geological 20 days	
Geochemical _____ days	
Man days <input type="checkbox"/>	Airborne <input type="checkbox"/>
Special provision <input checked="" type="checkbox"/>	Ground <input checked="" type="checkbox"/>
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

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

5 days Geological

P 997101

No credits have been allowed for the following mining claims

not sufficiently covered by the survey

insufficient technical data filed



Ministry of  
Northern Development  
and Mines

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

DOCUMENT No.

W8806.50117

Mining Act

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

Dec 9

Type of Survey(s)

Geological Mapping

Township or Area

Sewell & Kenogaming Twps

Claim Holder(s)

Glen Auden Resources Limited

Prospector's Licence No.

T-1915

Address

90 P.O. Box 1637 Timmins Ontario

Survey Company

R.S. Middleton Exploration Services

Date of Survey (from & to)

10 05 88 | 30 06 88

Total Miles of line Cut

Name and Address of Author of Geo-Technical report

R. Burk P.O. Box 1637 Timmins Ont P4N 7W8

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	Radiometric	
	Other	
	Geological	
	Geochemical	
RECEIVED		
JCT 20 1988		

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	997101		P	997124	
	997102			997125	
	997103			997126	
	997104			997127	
	997105			997128	
	997106			997129	
	997107			997130	
	997108			997131	
	997109			997133	
	997110			997134	
	997111			997135	
	997112			997136	
	997113			997137	
	997114			997138	
	997115			997139	
	997116			997140	
	997117			997141	
	997118			997142	
	997119			997143	
	997120			997144	
	997121			997145	
	997122			997146	
	997123			997147	

Expenditures (excludes power-shipping)

RECORDED

Type of Work Performed

Performed on Claim(s)

OCT 20 1988

Calculation of Expenditure Days Credits

Total Expenditures      Total Days Credits

\$  ÷ 15 =

Instructions

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

Date

Reported Holder or Agent (Signature)

Oct 20/88.

Cynthia Abernethy

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying

CYNTHIA ABERNETHY P.O. Box 1637 Timmins ONTARIO P4N 7W8

Date Certified

Oct 20/88.

Certified by (Signature)

Cynthia Abernethy

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

84

For Office Use Only	
Total Days Cr. Recorded	Date Recorded
11600	Oct 20/88
Date Approved as Recorded	Branch Director
	See revised statement.

Miner's Record

White



Ministry of  
Northern Development  
and Mines

### Report of Work

(Geophysical, Geological,  
Geochemical and Expenditures)

DOCUMENT No.

W 8806-50117

Mining Act

Instructions: — Please type or print.

— If number of mining claims traversed exceeds space on this form, attach a list.

— Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.

— Do not use shaded areas below.

Township or Area

Severn Kenogaming

Prospector's license No.

T-1915

Type of Survey(s)

Geological Mapping

Claim Holder(s)

Glen Aiden Resources Limited

Address

Survey Company

Date of Survey (from & to)

Day | Mo. | Yr. | Day | Mo. | Yr.

Total Miles of line Cut

Name and Address of Author (of Geo-Technical report)

Credits Requested per Each Claim in Columns at right

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

Man Days	Geophysical	Days per Claim
RECEIVED JCT 20 1988	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

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

Expenditures (excludes power tripping)

RECORDED

Type of Work Performed

Performed on Claim(s)

OCT 20 1988

Calculation of Expenditure Days Credits

Total Expenditures	\$	÷	15	=	Total Days Credits
--------------------	----	---	----	---	--------------------

Instructions

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

Date Recorded Holder or Agent (Signature)

Oct 20/88 Cynthia Abernethy

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying

CYNTHIA ABERNETHY

Mining Claims Traversed (List in numerical sequence)			
Mining Claim Prefix	Expend. Days Cr.	Mining Claim Prefix	Expend. Days Cr.
P	997148	P	1027091
	997149		1027092
	997150		1027093
	997151		1027094
	997152		1027095
	997153		1027096
	997154		1027097
	997155		1027098
	997156		1027099
	997157		1027100
	997158		1027101
	997160		1027102
	997161		993731
	997162		993732
	997163		993733
	997164		
	997165		
	997182		
	997183		
	997186		
	1027088		
	1027089		
	1027090		

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

For Office Use Only		
Total Days Cr. Recorded	Date Recorded	Mining Recorder
		<i>B White</i>

Date Certified

Oct 20/88

Certified by (Signature)

*Cynthia Abernethy*



## REFERENCE

### AREAS WITHDRAWN FROM DISPOSITION

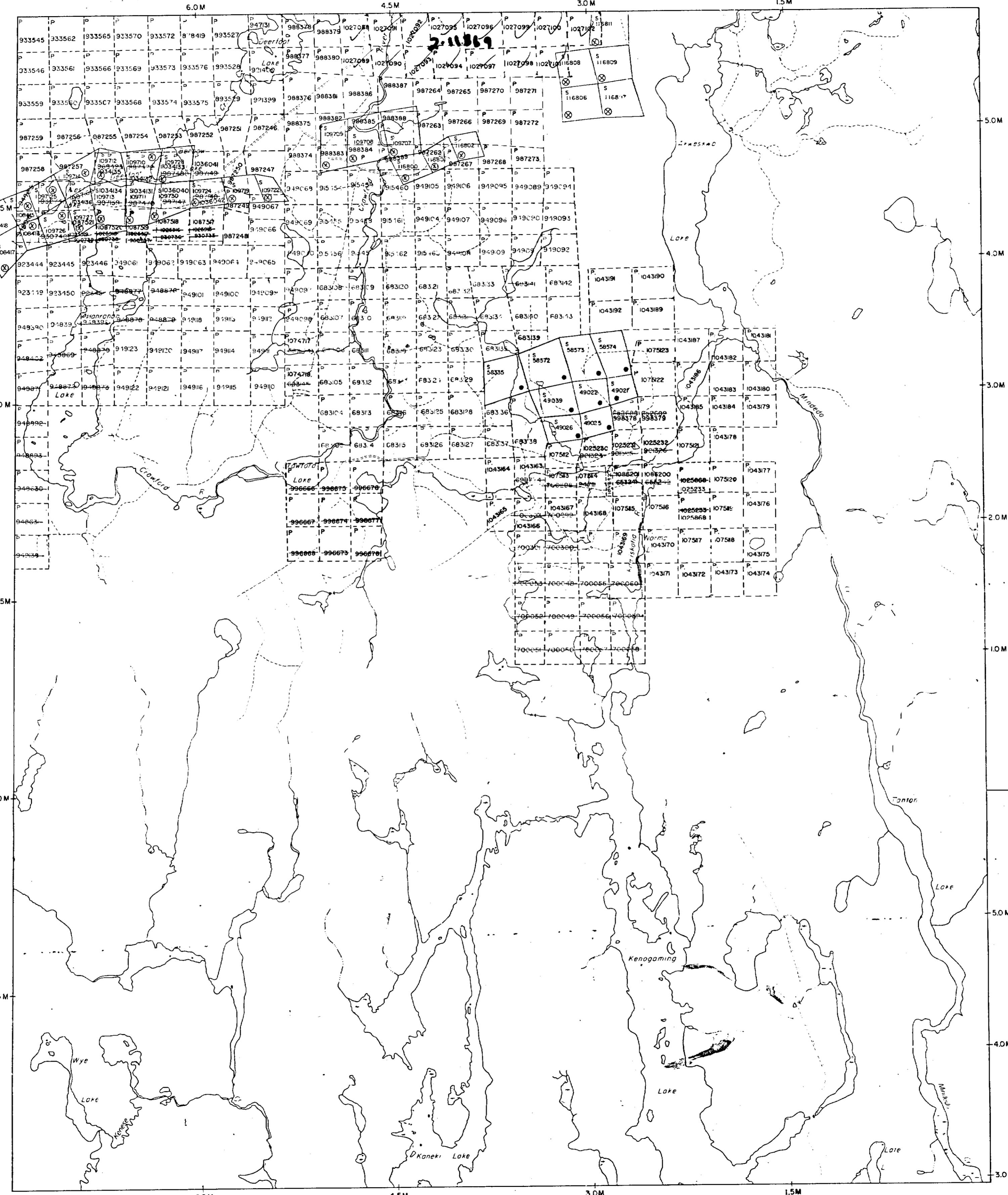
M.R.O. - MINING RIGHTS ONLY

S.R.O. - SURFACE RIGHTS ONLY

M.+S. - MINING AND SURFACE RIGHTS

Description Order No. Date Disposition File

## SEWELL TWP.



## LEGEND

HIGHWAY AND ROUTE NO

OTHER ROADS

TRAILS

SURVEYED LINES

TOWNSHIPS, BASE LINES, ETC.

LOTS, MINING CLAIMS, PARCELS, ETC.

UNSURVEYED LINES

LOT LINES

PARCEL BOUNDARY

MINING CLAIMS, ETC.

RAILWAY AND RIGHT OF WAY

UTILITY LINES

NON-PERENNIAL STREAM

FLOODING OR FLOODING RIGHTS

SUBDIVISION OR COMPOSITE PLAN

RESERVATIONS

ORIGINAL SHORELINE

MARSH OR MUSKEG

MINES

TRAVERSE MONUMENT

## DISPOSITION OF CROWN LANDS

### TYPE OF DOCUMENT

### SYMBOL

PATENT SURFACE & MINING RIGHTS

" SURFACE RIGHTS ONLY

" MINING RIGHTS ONLY

LEASE, SURFACE & MINING RIGHTS

" SURFACE RIGHTS ONLY

" MINING RIGHTS ONLY

LICENCE OF OCCUPATION

ORDER-IN-COUNCIL

RESERVATION

CANCELLED

SAND & GRAVEL

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1972, CH. P-380, SEC. 63, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 3000 4000 5000 6000 8000  
0 200 1000 2000 METRES

TOWNSHIP  
**KENOGAMING**  
M.N.R. ADMINISTRATIVE DISTRICT  
TIMMINS  
MINING DIVISION

NOV 4 1988

PORCUPINE :  
LAND TITLES / REGISTRY DIVISION

SUDBURY

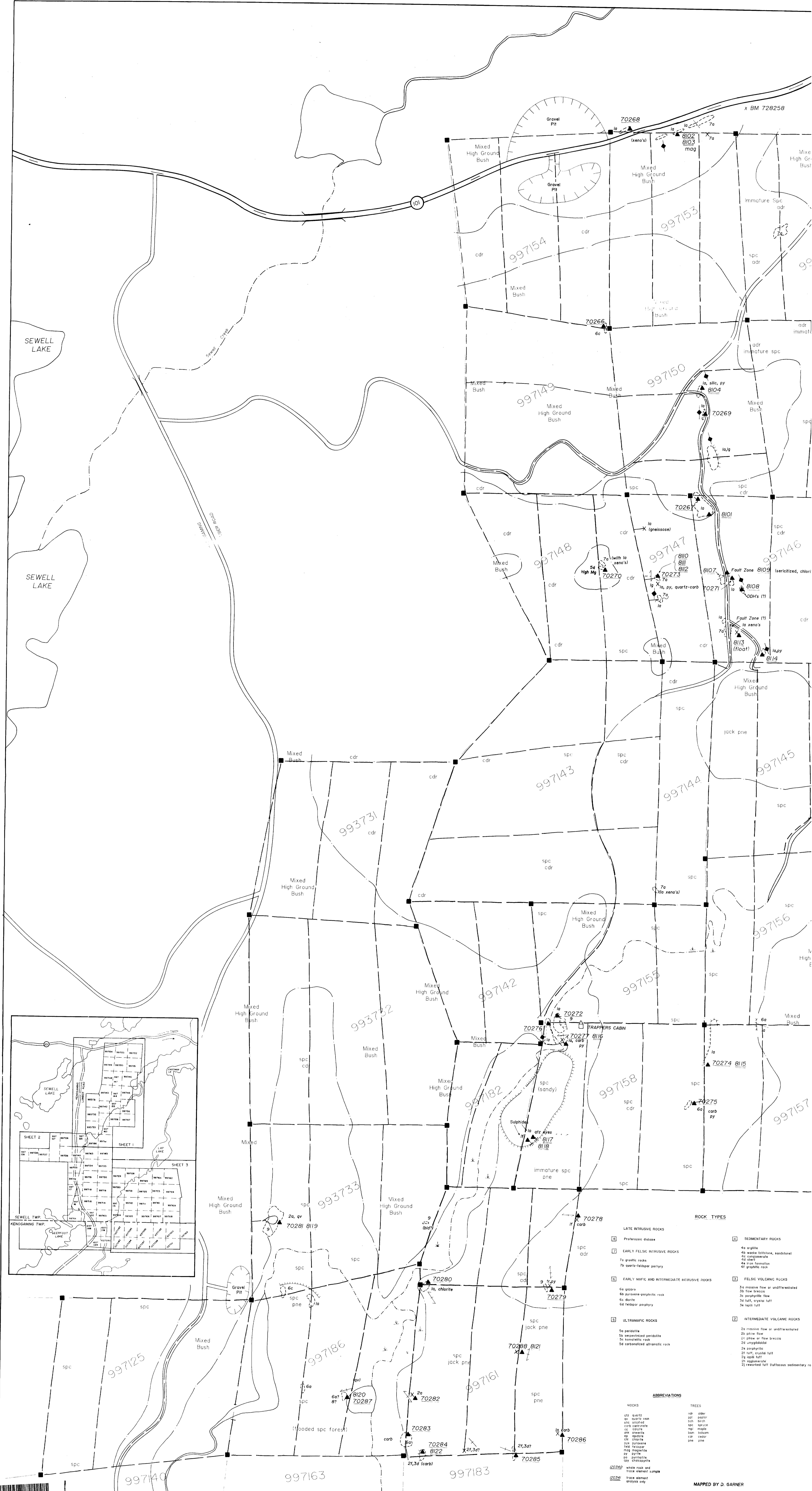
Ministry of Natural Resources Ontario Land Management Branch

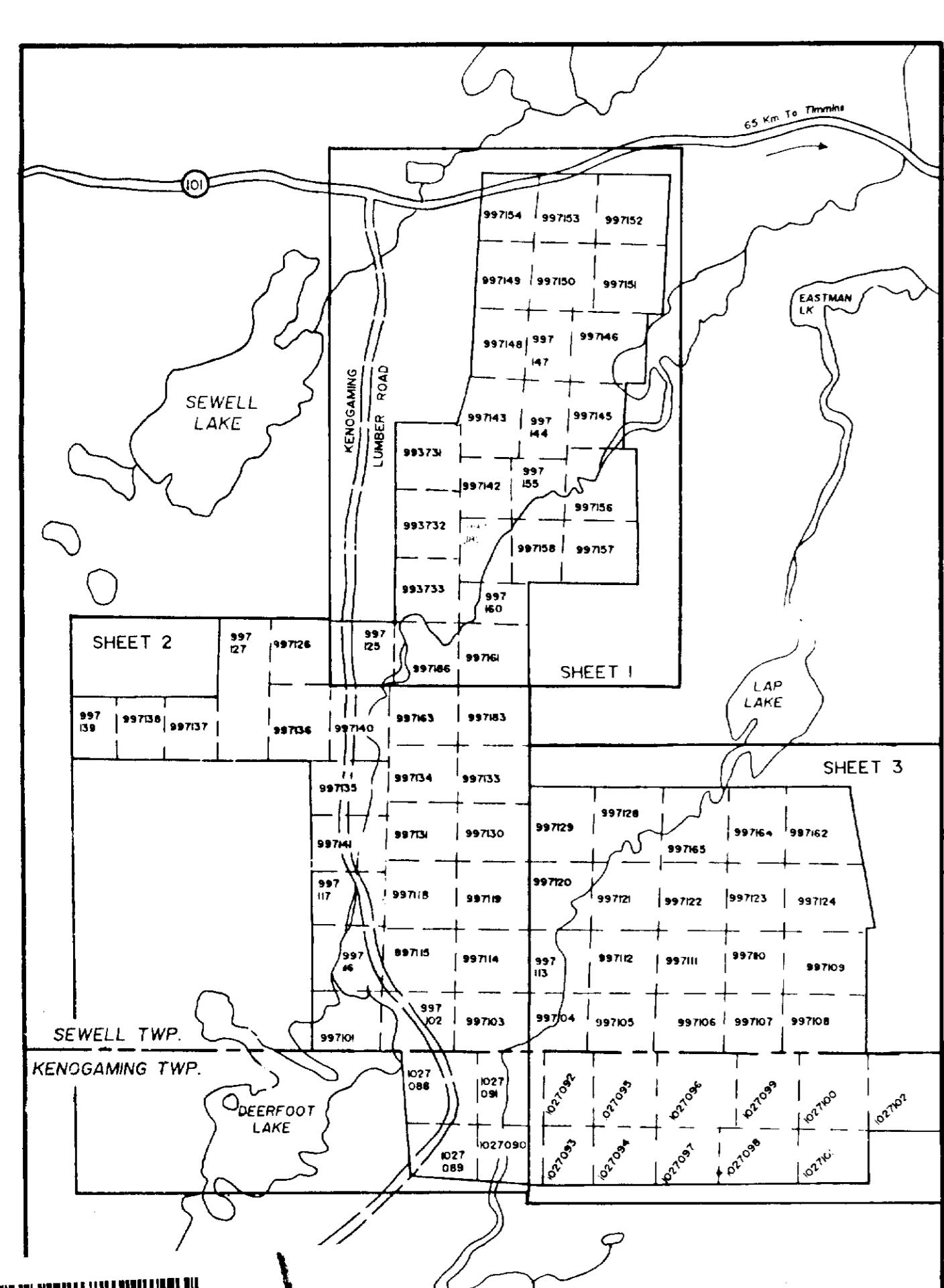

Date APRIL 1985

RECEIVED APR 22/87 38

Number G-3239







- ROCK TYPES

LATE INTRUSIVE ROCKS

8 Proterozoic diabase

7 EARLY FELSIC INTRUSIVE ROCKS

7a granitic rocks

7b quartz-feldspar porphyry

6 EARLY MAFIC AND INTERMEDIATE INTRUSIVE ROCKS

6a gabbro

6b pyroxene-porphritic rock

6c diorite

6d feldspar porphyry

5 ULTRAMAFIC ROCKS

3 FELSIC VOLCANIC ROCKS

3a massive flow or undifferentiated

3b flow breccia

3c porphyritic flow

3d tuff, crystal tuff

3e lapilli tuff

2 INTERMEDIATE VOLCANIC ROCKS

2a massive flow or undifferentiated

2b pillow flow

2c pillow or flow breccia

2d amygdaloidal

2e porphyritic

2f tuff, crystal tuff

2g lapilli tuff

2h conglomerate

2j reworked tuff (luffaceous sedimentary rock)

- 5a peridotite
- 5b serpentinized peridotite
- 5c komatiitic rock
- 5d komatiitic olivine

- 4** SEDIMENTARY ROCKS

  - 4a argillite
  - 4b wacke lsiltstone, sandst
  - 4c conglomerate
  - 4d chert
  - 4e iron formation
  - 4f graphitic rock

- SYMBOLS**

  - gneissosity
  - foliation with dip
  - ← cleavage with dip
  - lineation with plunge
  - jointing with dip
  - ~ drag fold
  - ▲ rock sample
  - /— bedding with dip  
and tops direction
  - /— pillow tops direction
  - ~— shearing
  - x rock outcrops
  - /— scarp
  - ~— vegetation boundary
  - +— wet lowland
  - creek
  - △ △ esker
  - gravel road


## ABBREVIATIONS

py pyrite  
po pyrrhotite  
cpy chalcopyrite

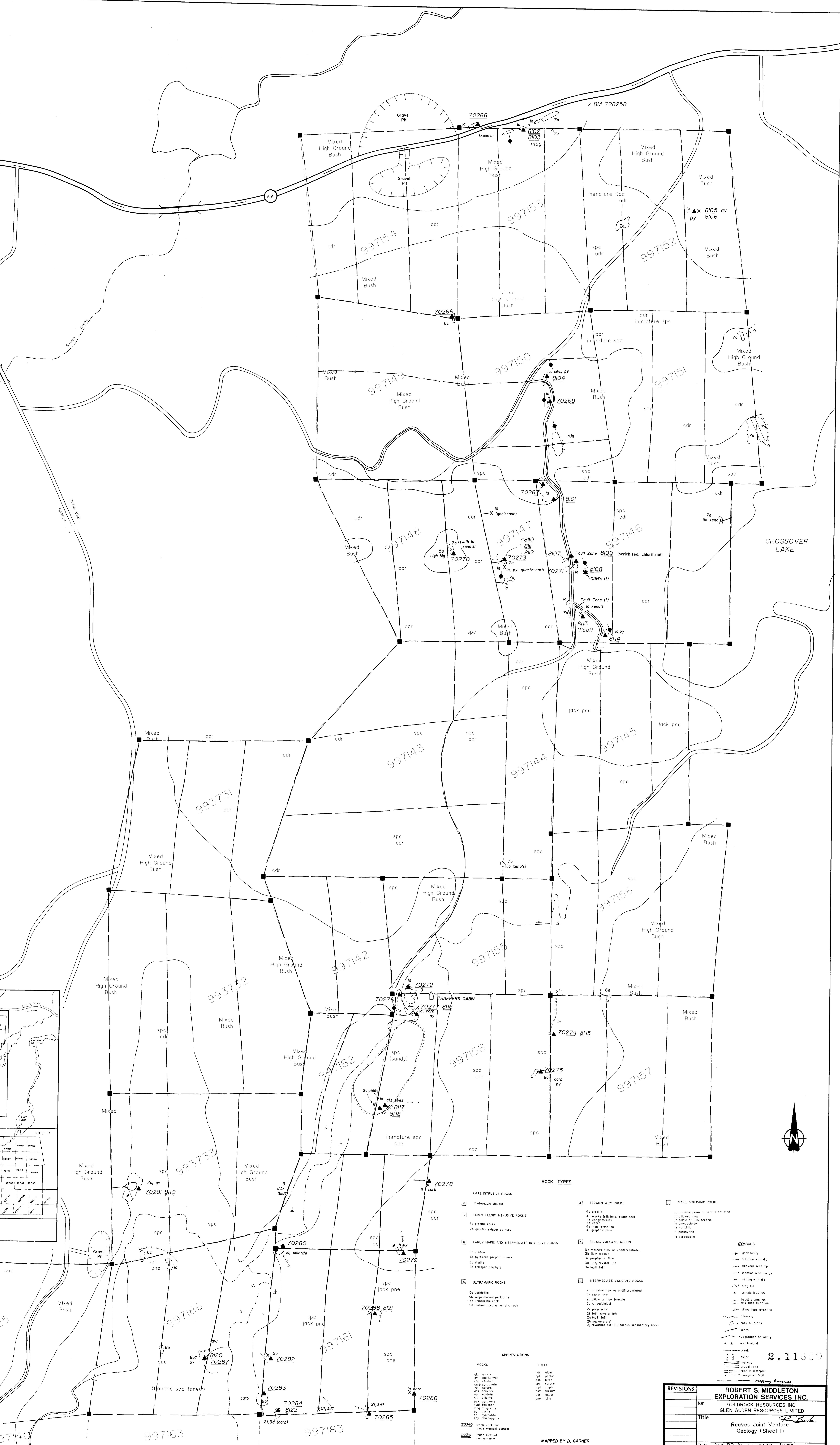
120340 whole rock and  
trace element sample

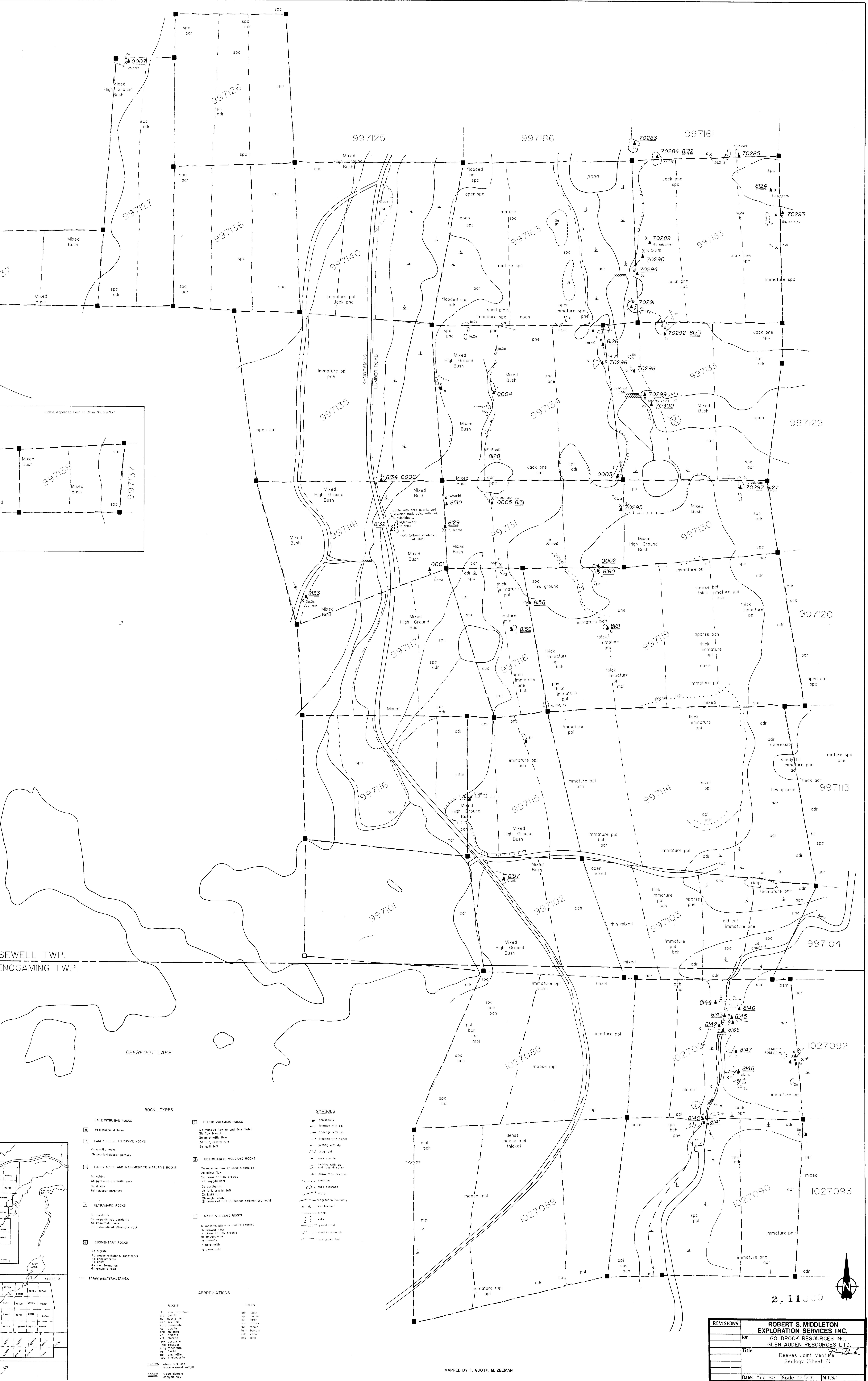
120341 trace element

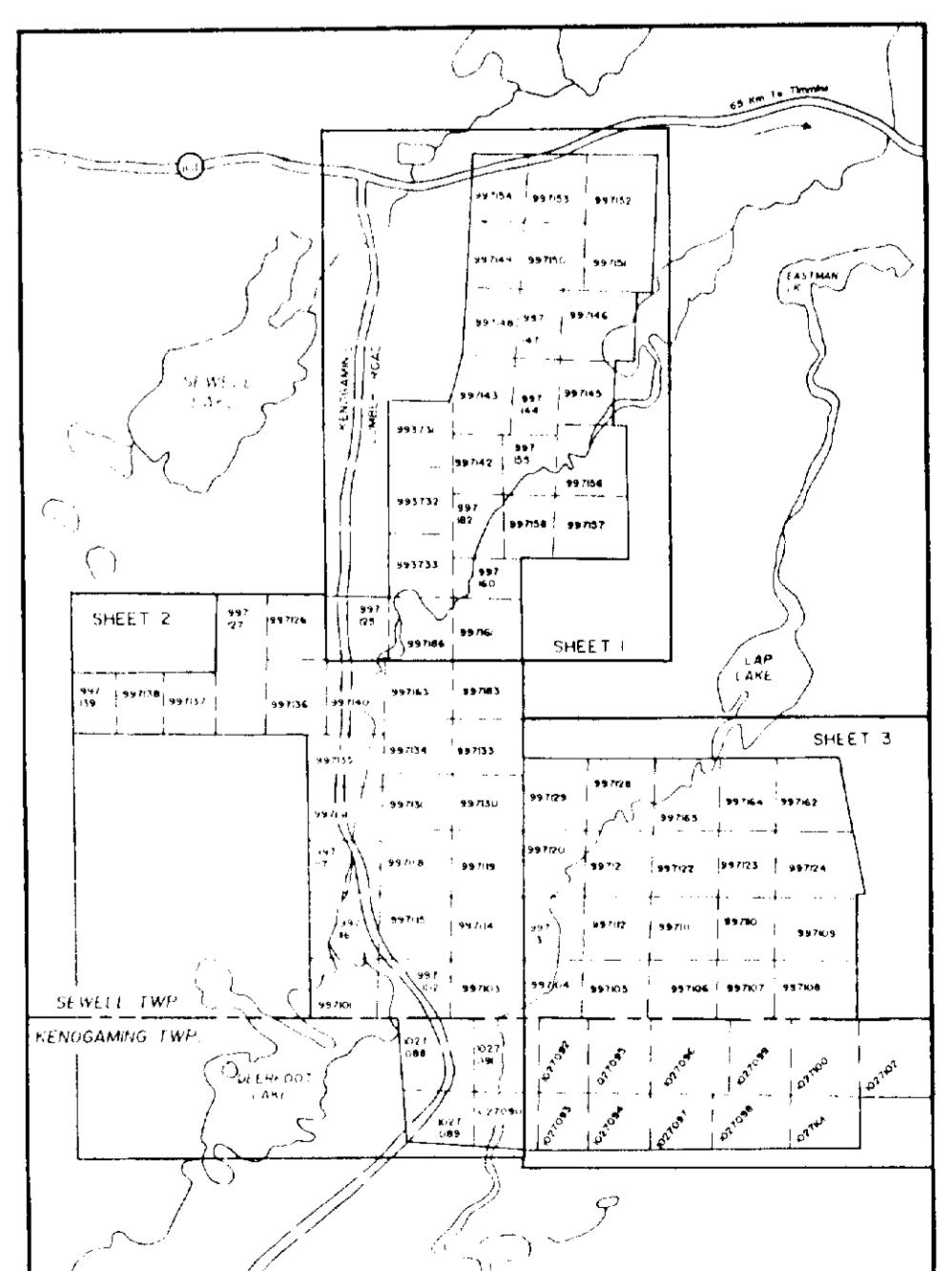

MAPPED BY T. GUOTH, M. ZEEMAN



## — Mapping Traverses.







2.11639

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for GOLDROCK RESOURCES INC. GLEN AUDEN RESOURCES LTD.		
Title	Reeves Joint Venture Geology (Sheet 3)		
	Date: Aug 88	Scale: 1:2500	N.T.S.:
	Drawn: BSB	Approved:	File: N-263