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GEOLOGICAL REPORT
on the property of
GLEN AUDEN RESOURCES LIMITED
Groundhog Claims, Keith Township
District of Sudbury
Porcupine Mining Division, Ontario
by
Margaretha Zeeman, B.Sc.
October 31, 1988

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MINING LANDS SECTION





# TABLE OF CONTENTS

		PAGE
SUMMARY	· · · · · · · · · · · · · · · · · · ·	i
INTRODUCTION	•	1
PROPERTY DESCRIE	PTION	1
EXPLORATION HIST	TORY	2
REGIONAL GEOLOGY	· Y	6
PROPERTY GEOLOGY	Y	7
MINERALIZATION A	AND ALTERATION	9
CONCLUSIONS	• • • • • • • • • • • • • • • • • • • •	9
RECOMMENDATIONS	• • • • • • • • • • • • • • • • • • • •	10
BUDGET FOR PHASE	E 11	12
REFERENCES	• • • • • • • • • • • • • • • • • • • •	13
CERTIFICATION		
APPENDIX A:	Assay Results	
LIST OF TABLES		
Table 1 Table 2	Sample Descriptions (ppb Au) Sample Descriptions (ppm As)	
LIST OF FIGURES		
Figure 1 Figure 2 Figure 3	Property Location Map Property Location and Claim Map Property and Regional Geology Map	
LIST OF MAPS		
Groundhog Geolo	gy Map - North Sheet, - South Sheet - Southwest Sheet	•• .
Groundhog Drill	Hole Location Map	

#### SUMMARY

From July 17 to October 10, 1988 a geological mapping was carried out on Glen Auden Resources Limited's 63 contiguous claims in northwestern Keith Township. The mapping supports K.V. Prest's geological interpretation of this area. Eighty-two rock samples were collected and analysed for gold and 27 other trace elements plus selected samples underwent wholerock Six samples had anomalous gold values between 31 and analyses. 130 ppb and eight samples had anomalous arsenic values between 110 and 680 ppm. The anomalous gold and arsenic values came from a sequence of carbonatized and foliated mafic and ultramafic volcanic rocks which straddle the CN railway tracks. Further exploration work consisting of an induced polarization survey and soil sample survey is recommended in this area. A re-examination and resampling of drill core from previous drilling on the present Glen Auden property and stored in the regional core library in Timmins, Ontario is also recommeded. A budget of \$60,200 is proposed to complete this second phase of gold exploration on the property.

#### INTRODUCTION

A geological mapping program was carried out on Glen Auden Resources Limited property from July 17 to October 10, 1988. The property is located in Keith Township, Porcupine Mining Division, Ontario approximately eighty-five kilometers southwest of Timmins, Ontario (See Figure 1).

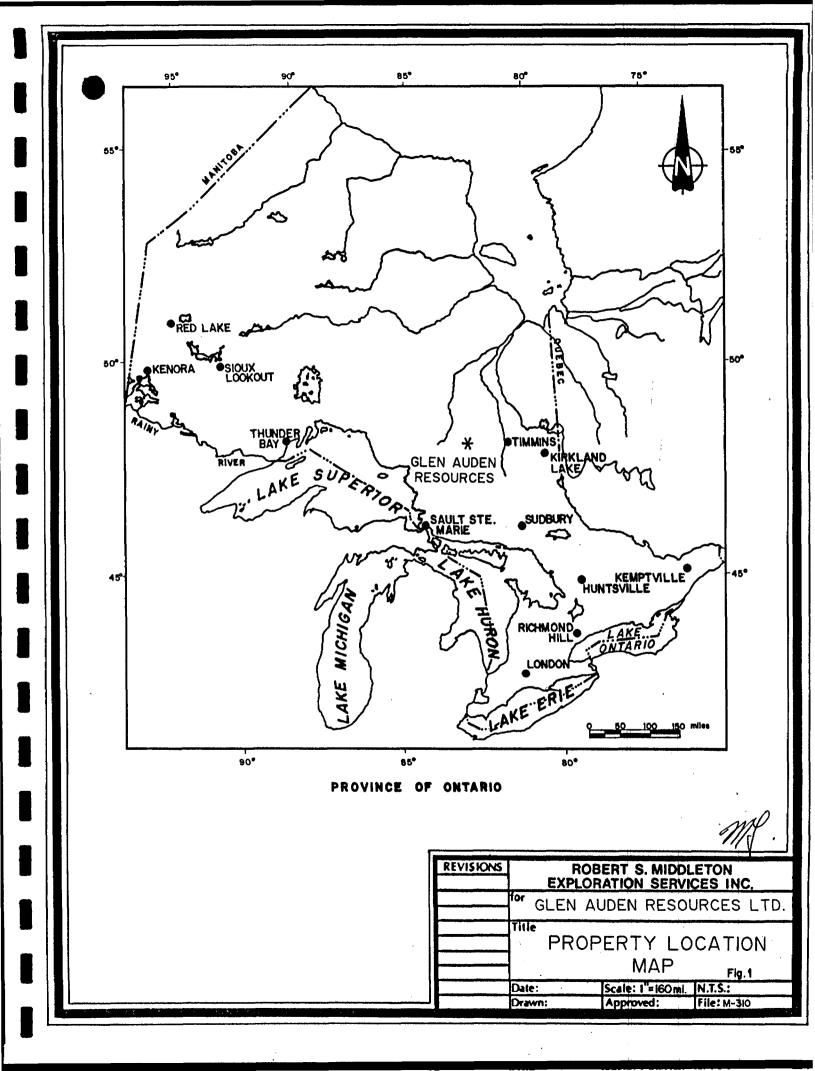
Access to the Glen Auden Resources Limited property is via the Groundhog River and Groundhog Lake, both of which may be accessed via Highway 101.

Mapping was accomplished by following claim lines and pace and compass traverses transecting the claims. Rock grab samples were routinely collected and sent to X-Ray Assay Laboratories, Toronto for geochemical analysis. All the samples were analysed for gold and 27 other trace elements by the neutron activation method. Several samples were also collected for wholerock analyses.

The objective of this mapping program was to systematically survey the property for its prospective gold potential.

#### PROPERTY DESCRIPTION

The Glen Auden Resources Limited property consists of sixty-three contiguous claims, the majority of which are situated between the Groundhog River and the eastern boundary of Keith Township (see Figure 2). The claim block covers an area of



approximately six kilometers north-south by two kilometers east-west. The southern part of the property is transected by the CN railway tracks. The claim numbers and respective expiry dates are listed below.

CLAIM NUMBERS	NO.	<u>TOWNSHIP</u>	DUE DATE
1035686-715	30	Keith	May 16, 1989
1035717-738	22	$\mathit{Keith}$	May 16, 1989
1035740	1	$\mathit{Keith}$	May 16, 1989
1035785-786	2	$\mathit{Keith}$	May 16, 1989
1071623-626	4	$\it Keith$	May 16, 1989
1087290-293	4	$\it Keith$	September 27, 1989

There is generally little topographic relief on the property. Vegetation on the property is mainly open mixed forest of poplar, birch, balsam, spruce and stripped maple with a few swampy areas of cedars and tag alders. Most of the property is covered by glacial overburden, with bedrock exposures occuring predominantly in the central sector, particularly along the CN railway tracks. A few outcrops occur along the banks of the Groundhog River.

#### EXPLORATION HISTORY

The earliest recorded geological work done in the area of the property dates back to 1899 when W.A. Parks, a geologist from the Ontario Bureau of Mines, mapped the region around Horwood and Ivanhoe Lakes. Other government geologists who have reported on the geology in what is now eastern Keith Township include W.G.

Miller (1902), T.L. Tanton (1916), E.W. Todd (1924), and K.V. Prest, whose work conducted in 1947 has been the most detailed to date.

In 1946, the first recorded private exploration work was carried out by Consolidated Mining and Smelting Company on four patented claims adjacent to, and west of the Glen Auden Resources Limited property. These claims numbered as \$2450, \$2451, \$2452 and \$2453 were mapped as being underlain by andesite and rhyolite, with an east-west trending iron formation over 200 feet wide being located at the bend in the Groundhog River. Andesite with strong shearing and a nearby diabase outcropping were mapped in the southeast corner of claim \$2452.

In 1946, Hoyle Mining Company drilled six diamond drill holes on the present Glen Auden claim numbers 1035717, 1071623 and 1035724. In 1947 they transferred their property to Keith Gold Mines Limited. From the Ontario Government Assessment Files, Report #T-73, the diamond drill hole identified as KG#4 on Groundhog Geology Map, South Sheet, of this report yielded samples which assayed trace to .005 oz/ton Au. The diamond drill hole labelled KG#6 on Groundhog Geology Map, South Sheet, intersected a 26 foot wide quartz-carbonate vein hosted by andesite which assayed .01 oz/ton Au. Core sections from drill holes KG-2, KG-4 and KG-7 are stored in the regional core library in Timmins, Ontario.

In 1947, Furdy Mica Mines Ltd. drilled ten holes east of the Groundhog River, nine of which were collared north of the railway tracks on the present Glen Auden Resources Limited claim numbers 1035694 and 1035695. 1087293. The tenth hole was drilled on a south azimuth in the northeast corner of claim 1035701 immediately south of the railway tracks. A detailed geology map was produced based on this drilling and outcrops in the area of The Purdy Mica Mines diamond drill hole labelled the drilling. PM#1 on the Groundhog Drill Hole Location Map, drilled south of the railway tracks, is the only hole which reports a drill section with assays. A 5 foot sample of weakly sheared basic lava apparently assayed .005 oz/ton Au.

Sometime between 1947 and 1955, Purdy Mica Mines drilled up to fifteen diamond drill holes just south of the railway tracks near the Groundhog River on present Glen Auden claim numbers 1087290, 1087291 and 1087292. Drill core logs are available for only four of these holes that were logged by the resident geologist and are now available in the regional core library in Timmins. These holes intersected mainly andesite which is locally carboatized and mineralized with pyrite, pyrrhotite and minor amounts of chalcopyrite. Gold assays are not reported.

The Canadian Pacific Railway, which once held part of the present Glen Auden Resources property, drilled three diamond drill holes, on the west side of the Groundhog River, but not on

the present Glen Auden property.

A magnetometer survey was conducted by Algoma Ore Properties Ltd. in 1960 on the west side of the Groundhog River north of the railway tracks. The company also drilled two holes, one on the west side of the river and the other on the east side. Hole 1A, labelled A#1A on Groundhog Geology Map, South Sheet, on the east side of the river (claim number 1071623), intersected banded iron formation throughout the hole. The core from this hole is stored in the southwest corner of patented claim number \$2450, 200 feet from the river.

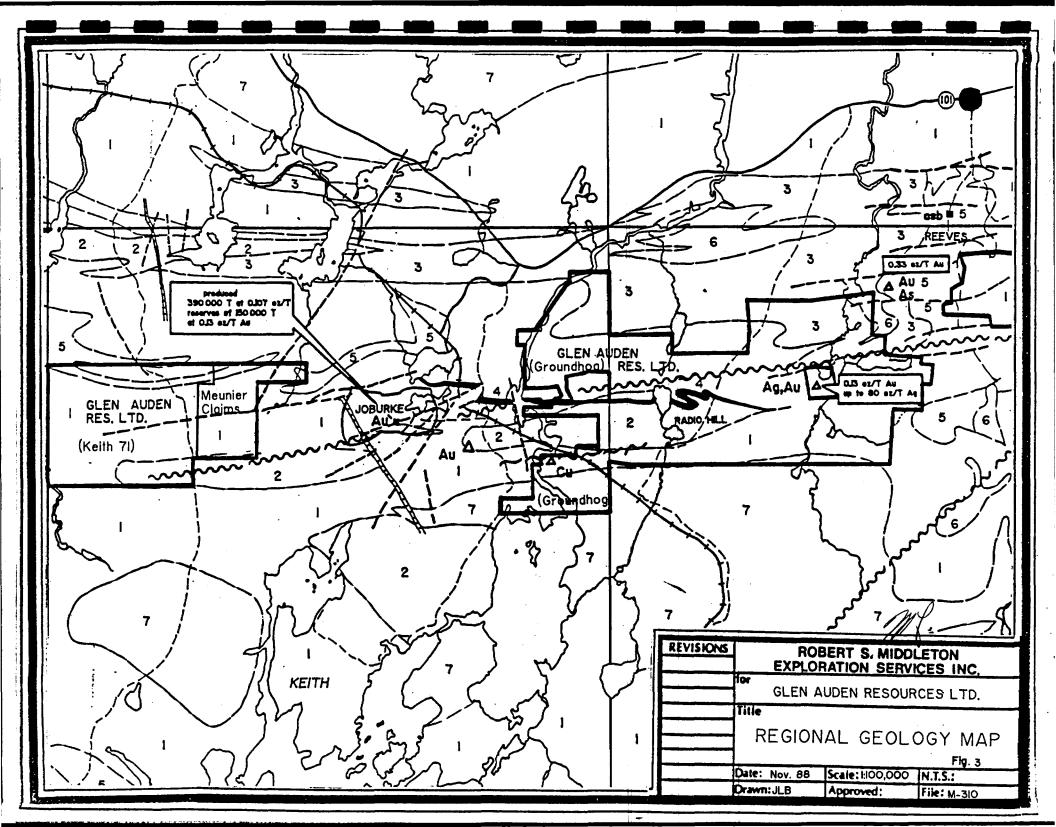
In 1966, Kukatush Mining Corporation Ltd. diamond drilled four holes, two of which were drilled on the present Glen Auden Resources Limited property. Drill hole K-7, labelled KM#7 on Groundhog Geology Map, North Sheet, and located on present claim number 1035740, intersected andesite at the top of the hole and rhyolite at the bottom. No significant mineralization was apparently encountered. Diamond dill hole K-9, identified as KM#9 on Groundhog Geology Map, South Sheet, and located on Glen Auden's claim number 1087293, intersected chloritic diorite in the top half and tuffaceous rock in the lower half of the hole. A 22 foot section of the tuff, which may be a misidentified carbonate alteration zone, contained blue quartz and fine pyrite, but again no assays were reported. All of the Kukatush drill core described here is stored at the core library in Timmins.

Dome Exploration in 1980 conducted a ground magnetometer survey over their property which included the northern portion of the present Glen Auden property. A very strong magnetic high trending east-northeast and widening eastwards was outlined. The source of the magnetic anomaly was interpreted to be magnetic iron formation, which coincides with a unit of banded iron formation that outcops on the east side of the Groundhog River on Glen Auden's claim number 1035785.

#### REGIONAL GEOLOGY

The Glen Auden Resources Limited property is situated within the northern part of the Swayze Greenstone Belt. The dominant rock types in this region are mafic to intermediate volcanic rocks with minor felsic volcanic assemblages (see Figure 3). East-west trending sediments and iron formations run across the northern part of the region. Two large granitoid plutons intrude the volcanic and sedimentary rocks towards the south.

A major east-west trending shear zone cuts through the northern part of the area, in part paralleling a major iron formation. Several faults parallel and splay off from this shear zone. In and near this major shear zone are several gold showings, one of which developed into the Joburke Mine a few kilometers west of Glen Auden's property (see Figure 2). The Joburke Mine, presently being re-examined by Noranda Mines Ltd.,



has produced 390,000 tons at 0.107 oz/ton and has reserves of 150,000 tons of 0.13 oz/ton.

The metamorphic grade is of greenschist facies.

#### PROPERTY GEOLOGY

The recent mapping program essentially supports K.V. Prest's (1950) interpretation of the geology for the area of Glen Auden's property. The geology of the property is only detailed in the central part due to lack of bedrock exposure elsewhere.

Based on previous mapping, diamond drilling and magnetometer surveying the northern and central portion of the Glen Auden property is underlain by mafic to intermediate volcanic rocks which strike east-west. Two east-west striking magnetite iron formations occur within this belt of mafic to intermediate flows. Based on Dome Exploration's magnetometer survey the northernmost iron formation appears to thicken towards the east. The south iron formation unit crosses the Glen Auden property where it is a single claim wide (no.1071623) and is well exposed on the east bank of the Groundhog River on patented claim numbers \$2450 and \$2451. K.V. Prest shows this iron formaion as being fault displaced on Glen Auden's property (see map 1950-4, Prest, 1950).

Medium grained mafic rocks in the areas discussed above may represent synvolcanic intrusions or slowly cooled sections of thick flows.

around the CN Railway tracks has the greatest abundance of outcrops on Glen Auden's property. An east-west striking sequence of mafic volcanic rock, up to 700 meters wide, exposed in this wellarea. South of the railway tracks on claim numbers 1087290, 1087291 and 1087292 there are several outcrops of moderately to strongly foliated mafic flow rock which locally strongly altered by iron carbonate. striking felsic dyke, in which a number of exposures consists of quartz-feldspar porphyry, intrudes the foliated and carbonatized Zones of disseminated iron sulfide mineralization volcanic rock. as several pods of massive pyrrhotite containing minor of chalcopyrite occur along the margins of the felsic amounts dyke. great deal of work has been done in this area with trenches and a shallow shaft on claim number 1087291. numerous the railway tracks the sequence of mafic volcanic rock units of possible ultramafic rock consisting of tale, carbonate and minor local green mica alteration. A great deal of diamond drilling has been done by Purdy Mica Mines in this area.

Between the two areas of mafic volcanic rocks lies an 800 meter wide sequence of intermediate to felsic extrusive rock and is shown best on Prest's map 1950-4. On claims adjoining the west boundary of the Glen Auden property there are outcrops of agglomerate and bedded tuffs as well as flow units.

The southern portion of Glen Auden's property appears to be

underlain by a granodiorite pluton.

## MINERALIZATION AND ALTERATION

82 rock samples were collected from Glen Auden's property and were analyzed for gold and 27 trace elements by X-Ray Assay Laboratories of Toronto using the neutron activation method.

Six samples had anomalous gold values between 31 and 130 ppb gold. These samples were from the zone of strong iron carbonate alteration and sulfide mineralization on claim numbers 1087290 and 1087291. Refer to Table 1 for descriptions of these samples.

Anomalous concentrations of arsenic were found in eight samples taken from talc-chlorite schist, i.e., altered ultramafic rock, quartz-feldspar porphyry dyke rock and a magnetic diorite located within the sequence of carbonatized and foliated mafic and ultramafic rocks which straddle the CN railway tracks. The anomalous arsenic values varied from 110 to 780 ppm As. Refer to Table 2 for descriptions of these samples.

#### CONCLUSIONS

1. High strain deformation and hydrothermal alteration is most prominent in the south-central portion of Glen Auden's property within a westerly trending zone 200-300 meters wide in the vicinity of the CN railway tracks. Outcrops of mafic and possibly ultramafic volcanic rock are commonly talcose and/or chloritic and show moderate to strong degrees of iron carbonatization. Minor amounts of green chromium mica (fuchsite) occurs in talc-bearing rocks. On a regional sense, these rocks and the intermediate to felsic volcanic rocks to the north appear to correlate with the litho-

T A B L E 2

## SAMPLE DESCRIPTIONS

AMPLE NO.	CLAIM NO.	PPM AS	SAMPLE DESCRIPTION
8368	1035695	780	Moderately magnetic diorite with quartz stringers
8378	1087291	310	Sericite-chlorite-talc schist with strong fe-carbonate alteration
8384	1035694	110	Talc-chlorite schist with trace pyrite.
8329	1035695	560	Carbonatized ultramafic rock with strong fe-carbonate alteration, strong pervasive calcium-carbonate alteration, localized moderate green mica alteration and trace pyrite.
8330	1035695	310	Talc-chlorite schist with moderate to strong fe-carbonate alteration.
8331	1087293	680	Quartz-carbonate vein parted by ankerite and green mica, no visible sulfides.
8336	1035736	520	Quartz feldspar porphyry with quartz veins with fe-carbonate halo, green mica partings and weak talc alteration, no visibl sulfides.

T A B L E 1

SAMPLE DESCRIPTIONS

SAMPLE NO.	CLAIM NO.	PPB AU	SAMPLE DESCRIPTION
8361	1087291	130	From pit with strong fe-carbonate alteration of mafic volcanic rock with pyrite lenses (20-25% py).
8363	1087290	91	Intermediate to mafic volcanic rock with weak to moderate localized fe-carbonate alteration and trace pyrite.
8376	1087291	31	From shaft with massive pyrrhotite and 2-3% pyrite.
8380	1087291	61	From pit of quartz-feldspar porphyry with strong fe-carbonate alteration, 40% black-grey graphite mylonite and 10-15% pyrite.
8381	1087290	51	Strongly foliated mafic volcanic rock with moderate pervasive calcium carbonate alteration and dolomite stringers.
8385	1087290	82	Nafic volcanic, strongly gossaned with 10-15% localized pyrite.

stratigraphic sequence of rocks found at the Joburke gold mine, located a few kilometers west of the property.

- 2. A dyke of felsic rock, locally displaying a quartz-feldspar porphyritic texture, has intruded the carbonatized mafic and ultramafic rocks. The dyke is carbonatized and weakly pyritic. Small pods or zones of iron sulfide mineralization, both disseminated and massive, occur at the margins of the dyke. The dyke strikes in an east-west direction and has been traced along strike for more than 1500 meters.
- 3. Samples from carbonatized and, to varying degrees pyritic rock yielded barely anomalous amounts of gold. The highest assay value obtained was 130 ppb gold. Eight samples from similarly altered and mineralized rock contain anomalous amounts of As, the highest value being 780 ppm As. Samples with high gold values did not correlate with those samples of high arsenic values.
- 4. Two diamond drill hole intersections in the central part of the property on claim numbers 1071623 and 1035724 yeilded samples which assayed .005 oz/ton gold and .01 oz/ton gold. One to ten percent disseminated pyrite occurred within most of these samples. One sample which yeilded .01 oz/ton gold was a quartz-carbonate vein with no visible sulfides.
- 5. The absence of alteration and deformation zones elsewhere on the property may simply be a function of the scarcity of outcrops for large areas of the property.

#### RECOMMENDATIONS

It is recommended that future exploration on the Groundhog property be concentrated on the sequence of rocks which show pervasive carbonate alteration, localized sulfide mineralization, and which were determined to contain anomalous gold and arsenic values. Another proposal is that the contact zone between ductily deformed mafic and ultramafic rocks and acid volcanic rocks constitutes a prospective area for gold mineralization.

The structural competency contrast between the two volcanic sequences is conducive to the formation of dilatant structures, i.e., eventual vein systems. The following recommendations are proposed:

- 1. Lincutting with a grid of 22 km covering the central portion of the property and lines spaced at 100m intervals. The trend of the lines would be north-south to cross the stratigraphy.
- 2. An induced polarization (IP) survey over the entire grid would detect disseminated sulfide mineralization which is associated with gold mineralization in some of the diamond drill core sampled previously. The survey should be done with an "a" spacing at 25m and n=1,2,3,4 should be read, using a pole dipole array.
- 3. A soil sampling program over the grid would potentially detect secondary dispersions of gold and gold indicator elements such as As, Cu and Zn from a blind mineralized zone. The survey should be done at 25m spacings and B horizon samples should be collected.
- 4. Much of the core that was drilled on Glen Auden's property is available in the Regional Core Library in Timmins, Ontario. This core should be examined and resampled.
- Contingent on the results of the ground geophysics and sampling results, a diamond drill program should follow.

1484

BUDGET FOR PHASE II	
Linecutting: 22 km @ \$250./km	\$ 5,500
I.P. Survey: 11 km @ \$1,450./km	15,950
Soil Sampling: 15 days @ \$400./day	6,000
Mob and Demob	1,900
Assaying: 880 soil samples @ \$20./sample 100 drill core and rock grab samples @ \$20./sample	17,600 2,000
Geologist: 7 days @ \$250./day	1,750
Reports	4,000
Subsistence & Contingencies	<u>5,500</u>
TOTAL	\$60,200

Respectfully submitted

Margaretha Zeeman, B.Sc.

## REFERENCES

HARDING, W.D. 1937

Geology of the Horwood Lake Area, Ontario Department of Mines, Vol.46, part 2, 34pg., accompanied by Map No.46a, Horwood Lake Area.

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MILLER, W.G. 1903

Iron Ranges of Northern Ontario; Ontario Department of Mines, Vol.12, 315pg.

PARKS, W.A. 1899

Niven's Base Line, 1899; Ontario Bureau of Mines, Vol.9, pp.132-135, 141 and 142.

PREST, V.K. 1950

Geology of the Keith-Muskego Township Area; Ontario Department of Mines, Vol.59, part 7, 44pg., accompanied by Map No.1950-4, scale 1:12,000.

TANTON, T.L. 1916

Reconnaissance along Canadian Northern Railway between Gogama and Oba, Sudbury and Algoma Districts, Ontario; Geological Survey of Canada, Summary Report 1916, 180pg. accompanied by preliminary Map No.1697

TODD, E.W. 1924

Groundhog River Area; Ontario Department of Mines, Vol.33, part 6, 17pg.

Previous work researched from the assessment files in Timmins, Ontario are as follows:

Company (year)	<u>File No.</u>
Algoma Ore (1961)	T-218
Canadian Pacific Railway (1959)	T-498
Consolidated Mining and Smelting (1946)	T - 32
Dome Exploration (1980)	T-2338
Keith Gold (1947)	T - 73
Kukatush Mining Corporation (1966)	T-1310
Purdy Mica Mines (1955)	T-83
Radiohill Mines (1967)	T-1362

#### **CERTIFICATION**

I, Margaretha Zeeman, of 136 Cedar Street South, in the city of Timmins, Province of Ontario, certify as follows concerning my report of the Glen Auden Resources Limited, Keith Township Groundhog Claims property, Province of Ontario and dated October 31, 1988:

- I am a graduate of Laurentian University at Sudbury, Ontario, with a B.Sc. (Honours) Geology, obtained in 1986.
- 2. I have been practising in Canada for the past 18 months.
- I have no direct interest in the properties, leases, or securities of Glen Auden Resources Limited, nor do I expect to receive any.
- 4. I was personally responsible for the interpretation of the geological data described in this report.

Dated this October 31, 1988 TIMMINS, Ontario

Margaretha Zeeman, B.Sc.

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Geologist

APPENDIX

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#### CERTIFICATE OF ANALYSIS

REPORT

6252

TO: ROBERT S. MIDDLETON EXPLORATION

ATTN: RON BURK

BOX 1637

136 CEDAR STREET SOUTH

TIMMINS, ONTARIO P4N 7W8

CUSTOMER No.

1078

DATE SUBMITTED

8-Aug-88

REF. FILE 2320-K2

Total Pages 5

34 ROCKS Proj. M-310

	METHOD	DETECTION LIMIT		METHOD	DETECTION LIMIT
AU PPB	NA	5.	AG PPM	NA	5.
NA X	NA	0.05	SB PPM	NA	0.2
WRMAJ X	WR	0.01 ,	BA PPM	NA	100.
CA %	NA	1.	LA PPM	NA '	1.
SC PPM	NA	0.1	CE PPM	NA	3.
CR PPM	NA	10.	SM PPM	NA	0.1
WRMIN PPM	WR	10.	EU PPM	NA	0.2
FE %	NA	0.02	YB PPM	NA	0.2
CO PPM	NA	5.	LU PPM	NA	0.05
NI PPM	NA	200.	HF PPM	NA	1.
ZN PPM	NA	50.	TA PPM	na	1.
AS PPM	NA	2.	W PPM	NA	4.
SE PPM	NA	5.	IR PPB	NA	20.
RB PPM	NA	30.	TH PPM	NA	0.5
MO PPM	NA	5.	U PPM	NA	0.5

DATE 20-SEP-88

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY

## A-RAY ASSAY LABORATORIES LIMITED

## ASSAY RESULTS

## TABLE 1

SAMPLE	AU PPB	NA %	CA %	SC PPM	CR PPM	FE %	CO PPM	NI PPM	ZN PPM	AS PPM
8301	⟨8	1.90	7	52.6	270	7.98	42	<200	150	2
8302	⟨8	1.70	4	48.8	150	9.05	46	⟨300	140	<2
8303	<7	2.50	7	34.2	10	12.4	60	300	190	8
8304	<7	1.30	6	38.9	2000	9.23	73	<b>600</b> .	190	<2
8305	8	0.35	5	33.8	1700	11.8	110	800	200	<2
8306	10	. 4.20	3	23.7	180	7.15	33	<300	170	<2
8307	<5	0.05	6	30.1	2600	7.31	78	1900	110	2
8308	<5	<0.05	6	20.8	2500	9.04	74	1000	220	₹2
8309	⟨5	<0.05	3	14.2	1800	6.17	92	2700	120	<2
8310	<i>&lt;6</i>	0.82	7	36.2	1400	10.9	77	700	280	5
8311	<i>&lt;5</i>	<0.05	6	25.5	2400	9.32	110	1100	170	10
8312	9	4.10	6	23.1	110	4.91	29	<300	100	3
8313	<6	3.00	2	11.8	110	3.06	10	<200	90	7
8314	<7	3.60	3	9.1	110	3.43	18	<200	130	5
8315	<6	2.10	8	36.4	1100	10.2	58	300	210	<2
8316	<5	3.00	<1	3.7	10	0.71	₹5	<200	<50	<2

SAMPLE	AU PPB	NA %	CA %	SC PPM	CR PPM	FE %	CO PPM	NI PPM	ZN PPM	AS PPM
8317	<i>&lt;5</i>	1.50	1	3.0	<10	0.99	<5	<200	<50	
8318	<i>&lt;5</i>	0.25	4	20.6	1800	6.18	65	1400	120	110
8319	<8	6.00	<1	7.2	30	3.87	25	<300	100	2
8320	<5	0.33	6	25.7	2000	7.78	97	1500	110	58
8321	<i>&lt;5</i>	0.28	6	28.1	2300	8.39	110	1700	120	64
8322	₹5	<0.05	15	20.1	2000	7.04	93	2100	100	92
8323	<i>&lt;5</i>	0.13	3	31.4	3000	9.42	130	2100	90	5
8324	<i>&lt;5</i>	0.18	7	28.5	2300	8.53	110	1700	80	3
8325	<i>&lt;5</i>	0.07	<1	0.5	30	0.27	<5	<200	<50	3
8326	<i>&lt;5</i>	0.14	5	27.4	2600	8.94	130	2800	50	<i>&lt;2</i>
8327	<i>&lt;5</i>	0.06	5	29.4	2900	9.59	130	3000	80	18
8323	<14	5.70	5	5.2	90	1.94	13	<400	<160	3
8329	<i>&lt;5</i>	0.64	4	31.9	1600	8.11	8 <i>3</i>	1100	70	560
8330	11	<0.05	6	18.6	1900	6.89	100	2300	80	310
8331	<i>&lt;5</i>	0.07	5	19.3	1700	5.97	67	1100	100	680
8332	<5	0.16	7	<i>20.6</i>	2200	7.60	110	2300	60	9
8333	<i>&lt;5</i>	1.30	6	26.6	2300	8.26	9 <i>5</i>	1300	<50	2
8334	<i>&lt;6</i>	1.90	3	19.2	1500	7.18	84	1900	<60	ž 5
8335	<11	1.50	14	50.9	390	9.67	66	<300	<90	3

SAMPLE	AU PPB	NA %	CA %	SC PPM	CR PPM	FE %	CO PPM	NI PPM	ZN PPM	AS PP
8336	<14	2.80	⟨3	26.1	1500	7.49	87	1300	<110	520
8337	<14	2.60	5	64.6	150	9.18	50	<400	160	57
8338	<11	1.80	4	46.2	420	7.46	60	<400	90	20
8339	<5	<0.05	<1	1.0	<10	23.5	<i>&lt;5</i>	<200	150	24
8340	<5	<0.05	<1	1.2	<10	18.7	<i>&lt;5</i>	<200	200	49
8341	<14	3.70	5	60.1	240	10.1	64	<i>&lt;500</i>	<120	⟨2
8342	<6	0.74	10	33.2	2700	9.85	100	1700	180	2
8343	<i>&lt;6</i>	0.10	5	29.8	2800	9.13	79	1600	170	5 <i>0</i>
8344	<7	2.50	10	46.5	190	8.36	38	<200	150	<2
8345	12	2.80	10	64.4	180	10.4	51	<300	240	<i>&lt;2</i>
8346	<i>&lt;6</i>	0.42	6	36.2	2700	10.3	100	1600	190	<b>₹</b> 2
8347	<i>&lt;6</i>	0.37	7	37.1	2900	10.0	100	1800	230	<2
8348	<i>&lt;8</i>	2.20	8	53.5	40	13.8	65	<300	210	4
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X-RAY ASSAY LABORATORIES

## ASSAY RESULTS

# TABLE 2

			-						
SAMPLE	SE PPM	RB PPM	MO PPM	AG PPM	SB PPM	BA PPM	LA PPM	CE PPM	SM PPM
8301	<i>&lt;5</i>	<40	<5	<i>&lt;5</i>	0.5	<200	3	11	2.1
8302	<7	<50	<5	<5	0.2	<300	<i>3</i>	13	
8303	<5	<i>&lt;50</i>	5	<5	0.5	<100	5	•	2.2
8304	<5	<40	<5	<i>&lt;5</i>	0.2	<200	1	23	3.3
8305	<5	<30	<5	<5	0.4	<100	<i>5</i>	<3	1.2
8306	<5	<60	<i>&lt;5</i>	⟨5	<0.2	<200		13	1.5
8307	<i>&lt;5</i>	<30	<i>&lt;5</i>	<5	0.4	<200	13	27	3.6
8308	<i>&lt;5</i>	<30	<i>&lt;5</i>	< <i>5</i>	0.5		<1	6	0.6
8309	<5	<30	<5	< <i>5</i>		<100	2	11	1.2
8310	<6	<40	< <i>5</i>	<i>₹5</i>	0.4	<200	2	6	0.9
8311	<i>&lt;5</i>	⟨30	<b>₹</b> 5		0.6	<100	5	14	3.0
8312	⟨5			<5	0.5	<100	1	<i>&lt;3</i>	1.2
		100	<i>&lt;5</i>	<i>&lt;5</i>	0.6	500	13	30	3.4
8313	<5	70	10	<5	0.4	700	32	68	5.3
8314	<7	<i>&lt;50</i>	<5	<i>&lt;5</i>	0.9	1000	89	141	12.4
8315	8	<40	<i>&lt;5</i>	<i>&lt;5</i>	0.4	<100	8	15	3.4
8316	<5	<40	<5	<i>&lt;5</i>	0.5	600	31	58	6.8

SAMPLE	SE PPM	RB PPM	MO PPM	AG PPM	SB PPM	BA PPM	LA PPM	CE PPM	SM PPM
8317	5	100	<5	<5	0.5	600	26	43	5.9
8318	<5	<30	<i>&lt;5</i>	<b>&lt;6</b>	0.2	<100	1	<i>3</i>	0.6
8319	<i>&lt;5</i>	<70	<i>&lt;5</i>	<i>&lt;5</i>	0.8	200	69	128	10.1
8320	<i>&lt;5</i>	<30	<i>&lt;5</i>	<i>&lt;5</i>	0.3	<100	1	10	0.9
8321	<i>&lt;5</i>	<30	<5	<5	0.3	<100	2	5	1.1
8322	<i>&lt;5</i>	<30	<5	<5	0.3	<100	<i>&lt;</i> 1	<3	0.6
8323	<5	<30	<5	<b>&lt;</b> 5	0.8	<100	1	9	0.8
8324	<5	<30	<i>&lt;5</i>	<i>&lt;5</i>	0.9	<100	10	24	1.6
8325	<5	<30	<5	<i>&lt;5</i>	0.7	<100	<1	<i>&lt;3</i>	<0.1
8326	<5	<30	<i>&lt;5</i>	<i>&lt;5</i>	<0.2	<100	1	7	0.7
8327	6	<30	<i>&lt;5</i>	<i>&lt;5</i>	1.0	<100	<1	6	0.6
8328	<9	<110	<i>&lt;6</i>	<i>&lt;5</i>	0.5	1100	14	14	2.0
8329	<5	30	<i>&lt;5</i>	<5	1.7	200	1	5	0.9
8330	<5	<30	<5	<5	1.2	<100	2	8	0.9
8331	<i>&lt;5</i>	50	<5	<5	4.6	300	1	3	0.6
8332	<5	<30	<i>&lt;5</i>	<5	0.3	<100	1	<3	0.6
8333	<5	<30	<i>&lt;5</i>	<5	0.5	<100	2	10	1.2
8334	<5	<40	<i>&lt;5</i>	<i>&lt;5</i>	0.7	<100	25	51	6.6
8335	<7	<i>&lt;60</i>	<i>&lt;5</i>	67	0.6	<300	3	9	2.1
8336	<9	<80	<7	<16	6.1	500	33	46	5.2

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SAMPLE	SE PPM	RB PPM	MO PPM	AG PPM	SB PPM	BA PPM	LA PPM	CE PPM	SM PPM	
8337	<8	80	8	<11	0.6	<300	6	13	2.7	
8338	<7	210	<b>&lt;6</b>	<i>&lt;5</i>	1.4	800	14	38	3.7	
8339	<5	30	<5	<b>&lt;</b> 5	0.4	<100	4	8	1.0	
8340	<5	<30	<5	<i>&lt;5</i>	0.4	<100	<i>3</i>	6	0.6	
8341	18	⟨80	<i>&lt;6</i>	<i>&lt;5</i>	0.5	300	4	11	2.1	
8342	<5	<30	<5	<i>&lt;5</i>	<0.2	<100	2	<3	1.1	
8343	<i>&lt;5</i>	<30	<5	<7	0.4	<100	1	8	0.7	
8344	<5	<40 <sub>.</sub>	<i>&lt;5</i>	<b>&lt;</b> 5	0.5	<200	2	9	1.8	
8345	<i>&lt;6</i>	<40	<i>&lt;5</i>	<5	<0.2	200	2	14	2.1	
8346	<i>&lt;5</i>	<30	<5	<5	0.4	<100	2	13	1.4	
8347	<5	⟨30	<i>&lt;5</i>	<5	0.3	<100	··. 2	13	1.4	
8348	<5	<40	<5	<5	0.2	200	21	43	5.6	

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X-RAY ASSAY LABORATORIES

ASSAY RESULTS

# TABLE 3

SAMPLE	EU PPM	YB PPM	LU PPM	HF PPM	TA PPM	W PPM	IR PPB	TH PPM	U PPM
8301	<0.2	1.7	0.31	<1	<1	<4	<20	<0.5	<0.9
8302	<0.2	2.3	0.36	2	<1	<4	<20	1.1	<1.0
8303	1.3	1.9	0.31	1	3	<4	<20	0.8	⟨0.9
8304	<0.2	1.7	0.20	1	<1	<4	<20	<0.5	1.2
8305	0.3	1.2	0.18	1	<1	<4	<20	<0.5	<0.8
8306	<0.2	1.7	0.24	3	<i>&lt;2</i>	<4	<20	1.3	1.4
8307	<0.2	0.9	0.10	<1	<1	<4	(20	<0.5	<0.7
8308	<0.2	0.8	0.09	1	<b>&lt;1</b>	<4	<20	<0.5	<0.7
8309	<0.2	0.4	0.06	<1	<1	<4	<20	<0.5	<0.6
8310	<0.2	1.6	0.23	1	<1	<4	<20	<0.5	<0.8
8311	<0.2	0.9	0.11	1	<1	<4	<20	<0.5	<0.7
8312	1.2	1.7	0.38	3	⟨2	<4	<20	1.8	1.0
8313	<0.6	0.9	0.15	3	<1	<4	<20	3.9	٤٥.8
8314	2.6	0.7	0.11	6	<i>&lt;2</i>	<4	<20	8.9	1.8
8315	<0.2	2.0	0.30	3	<1	<4	<20	0.5	
8316	<0.6	2.8	0.53	5	<1	<4	<20		1.0
8317	0.5	2.0	0.33	3	2	<b>K</b> 4	<20	6.5 5.5	1.8 1.4

SAMPLE	EU PPM	YB PPM	LU PPM	HF PPM	TA PPM	W PPM	IR PPB	TH PPM	U PPM
8318	<0.2	0.8	0.12	1	<1	<4	⟨20	<0.5	<0.7
8319	2.4	0.4	0.12	4	⟨2	<4	<20	6.1	<1.1
8320	0.3	0.8	0.15	<1	<1	<4	<20	<0.5	<0.7
8321	0.3	1.1	0.14	<1	<1	<4	<20	<0.5	<0.7
8322	0.3	0.7	0.10	<1	<1	<4	<20	<0.5	0.8
8323	<0.2	0.9	0.16	1	<1	<4	<20	<0.5	<0.8
8324	0.5	1.1	0.18	<1	<1	<b>K4</b>	<20	<0.5	<0.7
8325	<0.2	<0.2	<0.05	<1	<1	<4	<20	<0.5	<0.5
8326	0.3	0.8	0.11	<1	<1	<4	<20	<0.5	<0.7
8327	0.2	1.0	0.12	<1	<1	<4	<20	<0.5	<0.7
8328	<1.5	0.5	0.09	4	<4	<4	<20	3.4	2.6
8329	0.4	1.1	0.13	1	<1	<4	<20	<0.5	<0.9
8330	(0.2	0.6	0.09	<1	<1	<4	<20	<0.5	<0.7
8331	0.4	0.7	0.12	<1	<1	<4	<20	<0.5	<0.7
8332	0.2	0.6	0.12	<1	<1	<4	<20	<0.5	<0.6
8333	<0.2	0.8	0.17	<1	<1	<4	<20	<0.5	: <0.7
8334	1.2	1.2	0.19	2	<1	<4	<20	2.5	1.7
8335	<0.7	2.0	0.30	1	⟨2	<4	<20	<0.8	2.5
8336	1.8	1.0	0.15	3	<3	<4	<20	4.2	2.2
8337	1.1	2.5	0.50	1	⟨2	<5	<20	<0.9	<2.1

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SAMPLE	EU PPM	YB PPM	LU PPM	HF PPM	TA PPM	W PPM	IR PPB	TH PPM	U PPM
8338	⟨0.8	1.7	0.31	1	⟨2	5	⟨20	<0.8	<1.8
8339	1.3	0.8	0.12	<1	<1	<4	<20	<0.5	<0.5
8340	0.5	0.4	0.09	<1	<1	<4	<20	<0.5	<0.5
8341	<1.0	1.8	0.35	2	<i>&lt;3</i>	6	<20	<0.9	<2.2
8342	<0.2	1.3	0.18	<1	<1	<4	<20	<0.5	<0.8
8343	<0.2	0.7	0.11	<1	<1	<4	<20	<0.5	(0.8
8344	<0.5	2.3	0.34	. 1	<1	<4	<20	<0.5	(0.9
8345	<0.2	2.3	0.42	1	<1	<4	<20	<0.6	<1.0
8346	<0.2	1.3	0.20	1	<1	<4	<20	<0.5	<0.8
8347	<0.2	1.5	0.20	<1	<1	<4	<20	<0.5	(0.8
8348	2.4	4.1	0.73	4	<1	<4	<20	3.7	1.7

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# X-RAY ASSAY LABORATORIES WHOLE ROCK ANALYSIS

## TABLE 4

SAMPLE	SI02	AL203	CAO	MGO	NA2O	K20	FE203	MNO	T102	P205	LOI	SUM	
												·	
8302	48.6	12.6	6.84	6.89	1.97	0.02	12.0	0.20	0.97	0.07	8.70	99.0	
8303	47.6	13.1	8.75	5.10	2.92	0.09	16.5	0.20	1.70	0.10	3.08	99.2	
8304	46.9	9.34	7.40	15.4	1.59	0.04	12.0	0.20	0.54	0.05	4.47	98.2	
8306	54.0	15.7	4.46	5.72	5.14	0.07	9.39	0.10	0.75	0.15	2.85	98.4	
8307	45.2	5.57	7.11	23.3	<0.01	0.02	9.90	0.17	0.41	0.04	6.54	98.7	
8308	47.6	2.43	8.71	20.6	<0.01	0.02	12.2	0.18	0.56	0.06	5.70	98.4	
8310	49.7	6.99	10.1	13.5	0.82	0.17	13.7	0.24	0.94	0.07	2.39	98.8	
8311	45.8	5.28	8.02	21.0	0.06	0.02	12.0	0.20	0.64	0.07	5.23	98.7	
8312	57.0	18.2	5.95	3.21	4.79	0.30	6.22	0.18	0.77	0.14	3.39	100.2	
8313	61.6	15.6	3.26	1.89	3.75	2.24	4.01	0.06	0.67	0.19	5.85	99.3	
8315	50.1	9.20	11.2	8.21	2.51	0.18	14.0	0.25	1.07	0.09	1.54	98.5	
8316	77.8	11.8	0.51	0.09	4.11	1.49	0.85	0.03	0.11	0.03	1.62	98.6	
8319	56.6	18.4	1.24	4.47	7.93	0.26	5.26	0.03	0.76	0.56	3.08	98.7	
8320	36.3	5.51	6.74	17.5	0.33	0.07	8.92	0.16	0.31	0.03	23.2	99.4	
8322	31.9	4.00	13.0	15.8	0.02	0.01	8.31	0.24	0.24	0.03	25.9	99.7	
8323	42.4	7.31	3.60	22.5	<0.01	0.01	10.7	0.16	0.42	0.04	11.5	99.0	

SAMPLE	S102	AL203	CAO	MGO	NA2O	K20	FE203	MNO	TIO2	P205	LOI	SUM	
8326	42.1	4.99	3.87	27.9	0.16	0.03	10.3	0.18	0.35	0.03	8.16	98.4	
8333	40.4	7.67	4.38	15.1	1.41	0.09	10.6	0.18	0.42	0.05	18.5	99.2	
8335	47.9	15.2	12.5	5.77	1.65	0.15	11.7	0.20	0.77	0.06	2.77	98.7	
8341	44.0	17.7	4.14	7.48	3.94	0.23	12.4	0.15	0.97	0.08	7.54	98.7	
8342	44.7	7.24	9.58	20.2	0.60	0.09	11.0	0.18	0.40	0.04	3.85	98.2	
8345	50.6	13.5	10.5	7.05	2.90	0.24	11.8	0.24	0.69	0.06	1.00	98.6	
8347	45.7	7.56	8.65	19.9	0.34	0.05	11.3	0.19	0.45	0.04	4.08	98.6	
8348	51.0	12.8	9.32	4.65	2.30	0.72	15.6	0.23	1.25	0.14	0.70	98.8	

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## X-RAY ASSAY LABORATORIES

## WHOLE ROCK ANALYSIS

### TABLE 5

SAMPLE/PPM	CR	RB	SR	Y	ZR	NB	BA
8302	160	18	67	14	37	25	47
8303	47	27	168	20	44	16	30
8304	2010	<10	<10	15	<10	12	41
8306	185	<10	180	27	91	13	42
8307	2940	23	<10	<10	14	11,	69
8308	2590	11	<10	<10	23	13	43
8310	1370	18	70	20	45	24	53
8311	2340	<10	<10	<10	23	12	39
8312	112	13	220	25	100	21	239
8313	124	74	504	<10	99	<10	706
8315	1090	20	98	17	49	18	37
8316	28	75	241	26	85	<10	545
8319	60	<10	426	<10	173	19	229
8320	1810	20	53	<10	<10	15	62
8322	1720	15	164	<10	<10	<10	23
8323	2550	18	30	12	<10	32	54
8326	2350	11	<10	<10	<10	<10	20
8333	2410	13	<10	<10	17	<10	122
8335	353	20	82	19	<10	27	<10
8341	254	14	69	14	31	11	190
8342	2330	<10	11	<10	12	<10	35
8345	158	<10	60	<10	18	23	47
8347	2470	<10	<10	20	<10	11	38
8348	43	32	103	25	101	26	237

									•	
SAMPLE	AU PPB	NA X	CA X	SC PPM	CR PPM	FE X	CO PPM	NI PPM	ZN PPM	AS PPM
8357	<6	1.00	6	34.6	60	6.06	34	<200	60	<2
8358	<5	0.17	1	3.5	30	2.64	32	<200	50	<2
8359	6	0.22	<1	3.0	<10	1.33	11	<200	300	70
8360	15	0.45	<1	11.3	<b>30</b> ,	3.38	12	<200 ·	· · · · · 160	48
8361	130	0.61	<1	2.9	30	16.8	730	900	<50	20
8362	<5	<0.05	2	9.1	1300	3.27	91	3400	50	15
8363	91	0.81	2	41.3	310	5.79	37	<200	110	<2
8364	16	<0.05	9	16.6	1700	5.69	87	2100	70	23
8365	<5	3.20	<1	3.4	20	1.21	6	<200	<50	<2
8366	<5	3.20	2	6.7	30	2.70	13	<200	60	2
8367	<6	2.40	3	16.7	680	6.31	62	500	80	3
8368	<b>&lt;7</b>	0.42	7	23.4	2600	7.82	110	550D	90	780
8369	<6	<0.05	1	28.3	2800	9.24	120	2400	60	5
8370	<6	0.12	6	28.4	2700	9.33	120	2800	60	9
8371	<6	0.59	8	35.5	3000	9.27	97	1700	80	3
8372	<5	0.23	<1	0.9	40	0.29	<5	<200	<50	2
8373	11	<0.05	5	28.5	2600	8.04	130	2100	120	16
8374	<7	0.09	<1	33.4	850	20.7	120	500	230	7
8375	<7	<0.05	<1	8.0	70	46.8	71	1300	<50	<2
8376	31	<0.05	<1	10.4	, 60	47.4	110	1500	80	75
8377	<5	0.48	1	26.0	300	9.41	33	300	100	45
8378	<5	<0.05	6	13.5	1600	6.46	96	3000	100	310
8379	<5	2.70	1	2.8	40	0.84	5	<200	90	11
8380	61	0.24	<1	11.9	30	5.21	110	200	570	78
8381	51)	0.79	3	28.2	1700	14.2	86	1500	250	19
8382	<b>&lt;</b> 5	4.40	2	4.7	30	1.63	7 .	<200	100	11
8383	<5	2.00	1	5.5	20	1.31	6 -	<200	360	8
8384	<5	0.07	7	3.9	260	2.74	21	200	70	130
8385	82	1.10	10	13.1	50	18.0	25	<200	140	3
8386	<b>&lt;6</b>	0.27	9	6.0	50	20.3	42	<200	190	<5
8387	<5	1.10	14	60.3	. 420	8.47	39	<200	90	. <3
8388	<5	<0.05	<1	1.1	10	0.52	<5	<200	·<50	6
8389	14	0.75	6	20.6	150	3.78	27	<200	140	11
8390	13	0.18	4	19.3	1300	10.1	39	300	120	18

SAMPLE	SE PPM	RB PPM	MO PPM	AG PPM	SB PPM	BA PPM	LA PPM	CE PPM	SM PPM
8357	<5	<30	<5	<5	2.8	<200	5	14	1.7
8358	<5	<30	<5	<5	0.2	<100	<1	<3	0.2
8359	<5	80	<b>&lt;</b> 5	<5	0.4	600	12	21	2.0
8360	<5	<30	<5	<5	0.2	300	10	20.	2.0
8361	<5	<30	8	<5	0.7	<100	4	11	0.7
8362	<b>&lt;</b> 5	<30	<5	<b>&lt;</b> 5	0.4	<100	<1	<3	0.2
8363	5	100	<5	<5	0.7	800	4	12	1.6
8364	<5	<30	<5	<5	0.2	<100	1	<3	0.6
8365	<5	130	<5	<5	0.3	700	11	21	1.8
8366	<b>&lt;</b> 5	50	<5	<5	0.9	500	19	31	3.2
8367	<b>&lt;</b> 5	<30	<5	<5	1.5	400	37	61	5.0
8368	7	<30	<5	13	1.6	<100	1	<3	0.6
8369	<5	<30	<5	<5	0.4	<100	<1	<3	0.5
8370	<5	<30	<5	<5	0.7	<100	1	6	0.7
8371	, <b>&lt;</b> 5	<30	<5	<5	0.3	<100	1	<3	0.9
8372	<5	<30	<5	<5	0.2	100	1	<3	0.2
8373	<5	<30	<5	<5	0.3	<100	<1	7	0.7
8374	7	<30	<5	<5	0.4	100	6	15	1.9
8375	5	<30	<5	<5	<0.2	<100	1	<3	0.3
8376	8	<40	<5	<5	0.3	<100	1	<3	0.4
8377	<b>&lt;</b> 5	70	<5	<5	0.2	1100	2	-6	1.3
8378	<5	<30	<5	<5	1.1	<100	<1	<3	0.3
8379	<5	90	<5	<5	0.3	800	11	16	1.6
8380	6	60	<5	<5	0.4	1000	14	25	3.0
8381	<b>&lt;</b> 5	<30	<5	<5	<0.2	100	1	10	1.1
8382	<5	120	<5	<5	0.5	800	17	21	2.4
8383	<5	110	<5	<5	1.3	900	24	35	3.5
8384	<5	40	<5	<5	0.3	100	2	4	0.9
8385	11	<30	<5	<5	1.6	200	13	22	3.2
8386	<5	120	<5	<5	0.3	200	11	22	2.0
8387	<5	<30	<5	<5	0.6	300	2	8	2.2
8388	<5	<30	<5	<5	0.3	100	3	5	0.4
8389	<5	40	<5	<5	<0.2	300	1	4	1.2
8390	<5	<30	5	<5	0.5	200	3	7	1.2

20-SEP-88

REPORT 6252

REF.FILE 2320-K2

PAGE 3 OF

SAMPLE	EU PPM	YB PPM	LU PPM	HF PPM	TA PPM	W PPM	IR PPB	TH PPM	U PPM
8357	0.6	1.8	0.24	- <i></i> <1	<1	<4.	<20	0.6	<0.9
8358	<0.2	<0.2	<0.05	<1	<1	<4	<20	<0.5	<0.5
8359	0.5	0.6	0.11	2	<1	<4	<20	1.9	0.6
8360	0.5	0.8	0.12	2	<1	<4	<20	1.4	<0.6
8361	<0.2	<0.3	<0.05	<1	<1	<4	<20	0.5	<1.0
8362	<0.2	0.2	<0.05	<1	<1	<4	<20	<0.5	<0.6
8363	0.7	1.8	0.34	1	<1	<4	<20	<0.5	<1.0
8364	0.5	0.5	0.12	<1	<1	<4	<20	<0.5	<0.8
8365	0.6	0.2	<0.05	2	<1	<4	<20	2.1	1.1
8366	0.8	0.5	0.10	3	<1	<4	<20	2.7	1.3
8367	1.2	0.9	0.10	2	<1	<4	<20	4.9	1.7
8368	0.5	0.7	0.13	<1	<1	<4	<20	<0.5	<1.1
8369	0.2	0.9	0.20	<1	<1	<4	<20	<0.5	<1.0
8370	<0.2	0.8	0.10	<1	<1	<4	<20	<0.5	<1.0
8371	0.7	1.1	0.16	<1	<1 ,	<4	<20	<b>&lt;0.5</b>	<1.0
8372	<0.2	<0.2	<0.05	<1	<1	<4	<20	<0.5	<0.5
8373	0.3	0.8	0.10	<1	<1	<4	<20	<0.5	<1.0
8374	0.5	1.3	0.20	1	<1	<4	<20	0.9	<1.0
8375	0.2	0.2	0.10	<1	<1	<4	<20	<0.5	<1.2
8376	0.3	0.2	0.06	<1	<1	<4	<20	<0.5	<1.3
8377	0.5	1.3	0.22	1	<1	<4	<20	<0.5	<0.8
8378	0.2	0.5	0.06	<1	<1	<4	<20	<0.5	1.4
8379	0.3	0.2	<0.05	2	<1	<4	<20	1.9	1.2
8380	0.7	1.1	0.19	2	<1	<5	<20	1.9	<0.9
8381	0.4	0.8	0.14	<1 -	<1	13	<20	<0.5	1.9
8382	<0.2	0.5	0.06	3	<1	<4	<20	3.1	1.4
8383	1.2	0.4	0.05	3	<1	<4	<20	4.0	1.3
8384	0.5	0.5	0.06	<1	<1	<4	<20	<0.5	<0.6
8385	2.0	3.5	0.58	4	1	<5	<20	2.7	1.5
8386	1.0	2.2	0.35	2	<1	<5	<20	2.8	2.3
8387	0.6	1.7	0.34	2	<1	<9	<20	<0.5	<1.4
8388	0.2	<0.2	<0.05	<1	<1	<4	<20	<0.5	<0.5
8389	0.5	1.2	0.17	<1	<1	<5	<20	<0.5	<0.9
8390	0.3	0.7	0.15	1	<1	<4	<20	0.6	<0.7

MPLE \ X	\$102	AL203	CAO	MGO	NA20	K20	FE203	MNO	T102	P205	LOI	SUM
8357	50.3	13.8	10.8	6.84	1.80	0.57	12.9	0.28	0.78	0.08.	1.70	99.9
8359	85.7	7.22	0.47	0.50	0.16	2.05	1.70	0.03	0.19	0.04	1.85	100.0
8362	35.9	1.92	3.10	32.1	<0.01	0.03	4.72	0.36	0.12	0.03	21.3	99.8
8363	59.4	17.0	3.07	2.66	1.00	3.28	8.42	0.14	1.15	0.12	3.85	100.3
8365	73.4	14.6	0.66	0.89	4.31	2.67	1.63	0.02	0.25	0.07	1.62	100.3
8366	63.1	16.5	3.16	2.05	4.66	1.56	4.19	0.05	0.56	0.16	4.00	100.1
8369	39.2	7.32	2.62	26.7	<0.01	0.01	11.6	0.08	0.39	0.04	11.3	99.7
8370	43.0	6.46	5.76	23,6	0.04	0.06	11.3	0.17	0.38	0.04	8.00	99.2
8371	43.7	7.97	7.84	20.9	0.55	0.08	11.5	0.18	0.42	0.03	5.00	98.6
8378	33.8	3.48	6.98	23.2	<0.01	0.04	8.97	0.22	0.21	0.02	23.3	100.5

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



XRF - WHOLE ROCK ANALYSIS

20-SEP-88

REPORT 6

REFERENCE FILE 232

PAGE 5 of 5

MPLE \ PPM	CR	RB	SR	Y	ZR	NB	BA
8357	85	33	135	21	18	21	218
8359	18	79	18	<10	56	13	824
8362	1540	22	43	<10	<10	<10	46
8363	331	96	129	19	30	15	982
8365	41	101	321	<10	58	<10	863
8366	43	55	435	<10	102	20	557
8369	2750	13	69	12	<10	18	79
8370	2450	19	12	22	<10	<10	26
8371	2770	16	13	<10	<10	18	49
8378	1790	<10	102	<10	<10	19	16







Mining Lands Section

Your file: W8906-47,49 Our file: 2.11889

Toronto, Ontario

M5S 1Z8

3rd floor, 880 Bay Street

Telephone: (416) 965-4888

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

May 16, 1989

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

Dear Sir:

Re: Notice of Intent dated April 14, 1989 Geological Survey submitted on Mining Claims P 1035686 et al

in the Keith Township.

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

DK:eb Enclosure

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

R.S. Middleton Exploration Service Timmins, Ontario

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES

OFFICE MAY 1 9 1989

RECEIVED

Resident Geologist Timmins, Ontario 500



garage es

## **Technical Assessment Work Credits**

**AMENDED** 

 2.1188
Mining Recorder's Repo

File

	1 2.11889
April 14, 1989	Mining Recorder's Report of Work No. W8906-47

Recorded Holder	
GLEN AUDEN RESOURCES LIMIT	EU
KEITH TOWNSHIP	Name of the second of the seco
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic days	P 1035686 to 93 incl 1035695 to 708 incl.
Magnetometer days	1035710 to 15 incl 1035717 to 19 incl
Radiometric days	1035721 1035723 to 29 incl.
Induced polarizationdays	1035732 to 25 Ther. 1035732 to 34 incl 1071623-24
Other days	1071626 1035737
Section 77 (19) See "Mining Claims Assessed" column	1035/3/
Geological 20 days	
Geochemicaldays	
Man days Airborne	
Special provision X Ground X	
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
Special credits under section 77 (16) for the following	g mining claims
15 days Geological	10 days Geological 5 days Geological P 1035709 P 1035720
P 1035694 1035730-31	P 1035709 P 1035720 1035722
1035738	1035735-36
1035786	1035740
1071625	1035785
No credits have been allowed for the following mining	g claims
not sufficiently covered by the survey	insufficient technical data filed



# Technical Assessment Work Credits

2.11889

Peb 22, 1989

Mining Recorder's Report of Work No W8906-049

Recorded Holder	
Glen Auden Resources Li	mi tea
Keith	
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic days	
Magnetometer days	P - 1087290 to 92 inclusive.
Radiometric days	
Induced polarization days	
Other days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological 20 days	
Geochemicaldays	
Man days Airborne	
Special provision 🙀 Ground 🙀	
Credits have been reduced because of partial coverage of claims.	
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
10 days Geological	
P - 1087293	
t No credits have been allowed for the following mining	claims
not sufficiently covered by the survey	insufficient technical data filed
	•

Ministry of Northern Developmer and Mines	Report of Wor		W 8906			Please type or print. If number of mining claims traverexceeds space on this form, attach a l
Ontario	Geochemical and				Note: -	Only days credits calculated in "Expenditures" section may be ente
(	2.1/88	'/	Mining Act		_	in the "Expend. Days Cr." column Do not use shaded areas below.
Type of Survey(s)	: 110	7			Township (	
Claim Holder(s)	i Happing	· • • • • • • • • • • • • • • • • • • •			1 1/ 6.17	Prospector's Licence No.
Cilca Au	den Prisou	( ( 'e <u>) 4</u>	Limited			T 1916
Address P.O. Rox	1637 Tin	a saa tii	as Duta		17211	7W8.
Survey Company			Date	of Survey	(from & to)	Total Miles of line Cut
Name and Address of Author (o	dleton Exp	orat	ion Serv. 166	§ 1 KB. 10	K. 1881	(G. 196).
M. Zeeman		37	Timmins	Ont	arto	PARITINE.
Credits Requested per Each (			Mining Claims Tr			
Special Provisions	Geophysical	Days per Claim	Mining Cla	im imber	Expend. Days Cr.	Mining Claim Expen
For first survey:	- Electromagnetic				0073 01.	Pretix Number Days
Enter 40 days. (This includes line cutting)			108	1290		
,	• Magnetometer		EBOT RANK	:291		
For each additional survey: using the same grid:	- Radiometric		LOE	1292		
Enter 20 days (for each)	- Other		108	1293	]]	
	Geological	20				
	Geochemical		10.5			FECCES
Man Days	Geophysical	Days per Claim				RECORDED
Complete reverse side	- Electromagnetic	Claim				
and enter total(s) here	 					FEB-1-1989
	- Magnetometer		* TO F	3E		
RECEIV	- Radiometric		Jucu	UDEO		
	- Other		WILL	THE		
FEB 15 1	1989 logical		188666 188	IOLW	NO V	
	Geochemical		3 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
AirborneMHVING LANDS	SECTION	Days per	1.62 55 550 3	पात्रा		
Note: Special provisions	Electromagnetic	Claim	ON			
credits do not apply	-		12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HELK	-	
to Airborne Surveys.	Magnetometer		1968			
	Radiometric		SOM LEAM	2 marps	na	
Type of Work Performed	er stripping)	<del> </del>	(A): (R)	)		
Abe of Mork Laugunday	710			اممرما		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Performed on Claim(s) FP	EB 1 1989			logicá	ľ	
			Reb		·	
<u>C1</u>	ischir 21.	J	- North	ten la		
Calculation of Expenditure Days	s Credits To			Zcem.	440	
Total Expenditures	Days C		dated City	<u>aber3l</u>	/E·은 )	
\$	÷ 15 =					Total number of mining claims covered by this
Instructions						report of work.
Total Days Credits may be an choice. Enter number of days		der's		fice Use O	nly	1.
in columns at right,			Total Days Cr. Date Recorded	Hecorded	lao	Mining Prorder
Date Rec	corded Holder or Agent (Sig	nature	an Date	Approved	as Recorded	Branch Director
An 31/88 3	dille rother		0			source of aterior
Certification Verifying Repo	rt of Work					700 N 100
I hereby certify that I have a or witnessed same during and		-		he Report o	of Work annex	red hereto, having performed the work
Name and Postal Address of Pers			· · · · · · · · · · · · · · · · · · ·		-1 ·	<del> </del>

Ministry of Northern Developmen and Mines	Report of Wo		DOCU W &	MENT No. in 1906 047	-	exceeds sp	of mining claim ace on this form, a	ittach a list.
Ontario	Geochemical ar		tures)		Note: -	Only day	s credits calculat ures" section may xpend. Days Cr.	ed in the
Type of Survey(s)	2.118	87	Mining	Act		Do not use	shaded areas below	
Geological M	Oppina	•			Township o			Ì
1	_	····	1			Prospecto	's Licence No.	
Address	Resources_1	-					915	
P.O. Box 1637	f Timming	: Onto	≥no_	P4N 7W8	, , , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·		
R.S. Middletow	Exploration	ou Ser	v. Inc	13 07 8	BI IO	0.88.	Total Miles of line	Cut
					24N 71	. 6		
M. Zeeman.  Credits Requested per Each C	P.O. BOX 16			SONI. R			ncel	
Special Provisions	Geophysical	Days per Claim		lining Claim Number	Expend. Days Cr.		ining Claim Number	Expend. Days Cr.
For first survey:	- Electromagnetic	Ciami	P		Days Cr.	Pretix		Josys Cr.
Enter 40 days. (This includes line cutting)	- Magnetometer			1035686-		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1035709.	
	- Radiometric			1035687-	l	1.3	1035710	
For each additional survey: using the same grid:	- Other			1035688 -	<del>  </del>		1035711	-
Enter 20 days (for each)	Geological			1035689 -			1035712	
·	Geochemical	20	17.0	1035690 -	<del></del>		1035713-	-
Man Days		Days per		1035691-	<del></del>		1035714	-[
Complete reverse side	Geophysical	Claim		1035692			1035715-	
Marie Service Control	• Electromagnetic		ti gira. I	1035693-			1035717	-
KULIVE	- Magnetometer			1035694-		2.0	1035718	
DEC 1 1000	Radiometric			10.35695			1035719	
DEC 7 1388	Other			1035696			1035720	
	Geological		3	1035697			1035721	
	Geochemical			10.35698:			1035722	
Airborne Credi RECEI	VED	Days per Claim		1035699			1035723	
Note: Special provisions	Electromagnetic			1035700-			1035724	
credits do hapanglo	Magnetometer			1035701-			1035725	
MINING LANDS	HAN-			1035702-			1035726	
Expenditures (exclude power	<b>ISANGITOE</b>		1	1035703			1035727	
Type of Work Performed				1035704			1035728	
Performed on Claim(s)	DEC - 1 1988		4.3	1035705			1035729	
		_					1035730	
1				1035706			1035731	-
Calculation of Expenditure Days  Total Expenditures	•	Total s Credits		1035707 1035708	1		1025722	
\$	] + [15] = [	Creats	L	10-25408	<u> </u>	Total sur	they of mining [	<u></u>
Instructions	<u> </u>						ber of mining vered by this work.	63
Total Days Credits may be ap choice. Enter number of days				For Office Use O	nly		$n$ . $\Lambda$	.59
in columns at right.			Total Day Recorded	s Cr. Date Recorded	188	Mining	WILLER	
	orded Holder or Agent (	Signatural	1, 10,1	Date Approved	1	ilitatich Di	BOOK TOWN	and a
	pittick ibera	chil	17100			يعتريها	car dalor	
Certification Verifying Report		nowledge of 1	the facts set	forth in the Report	of Work annex	ed hereto	naving performed t	he work
or witnessed same during and	or after its completion	•		·				

y of	
Athern Developmen	t
and Mines	

## Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

D00	UMENT	No inst
W	8906	047

Mining Act

Please type or print.

Note: -

- Do not use shaded areas below.

If number of mining claims traversed

or 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.

Expend. Days Cr.

(( 3 of 2)

Type of Survey(s) .					Township o			
Geological Mi	apping			The second in the same findings are again dispulsed.	Keu	th		
Colon Andon	Resources L	nutco				·	S Licence No 1915	<b>&gt;.</b>
P.O. Box 163				121.0				
Survey Company	C1(1)(1)(1)2	CICIOI	10 1 714	Date of Survey	(from & to)	۱	Total Miles of	l line Cut
Survey Company  K. C. H. M. C. T. F. F. Name and Address of Authorite	exployation Sci	nces 1	NC	137797	38 1 98 1 V	0,88.		
M. Zeeman P.	1.Box 1637 T	ımmın	s Cut.	PUN TWB.				
Credits Requested per Each	Claim in Columns at r	ight		aims Traversed (I		ical seque	ncel	
Special Provisions	Geophysical	Days per Claim	M	ining Claim	Expend.	M	ining Claim	E:
For first survey:	- Electromagnetic	Ciaini	Prefix	Number	Days Cr.	Prefix	Number	D <sub>i</sub>
Enter 40 days. (This includes line cutting)		<b> </b>	7 3/2	1035733		1,555,573	<del> </del>	
merades inte catting,	- Magnetometer			1035734	<u> </u>		•	
For each additional survey:	- Radiometric			1035735				j
using the same grid: Enter 20 days (for each)	- Other		10 mar 10 M	1035736				
cities 20 days froi eachy	Geological	20	1	10,26,334				
		20_		1032737				
Man Days	Geochemical			1035738-				
•	Geophysical	Days per Claim	63.23	1035740	-			
COMPANION OF THE PROPERTY OF T	· Electromagnetic		4	1025785	_	Contract of		
	- Magnetometer		7	1035.30		·	<b>———</b>	
W. W.		·	34.34	1000TON-		(P) (1)		
1 JEC 1 1988	• Fadiometric		interval	1071623				
	- Cuher		11	1071624		10-31		
The state of the s	-Ceological			1071625				
Carrier Control of the Control of th	Geochemical					7		
othorna- Credits		Days per		1071626		111		<b></b>
Alex Constant		Claim		1007 END				
Note: Special provisions cradits do not apply	Electromagnetic			1081241	, Ab	20	-	<b>h</b> -
to Airborne Surveys.	Magnetometer			1087292	A UH		ECOLDE	$\nu$ $\perp$ .
	Radiometric			1087293	CA AFTE	化知	way ca	HHED
penditures (excludes pow	er stripping)	·····		108 1010	1.00	MUN	NED)	51.
operat Work Performed			1		- Car			
rtormed on Claim(s)	<del></del>		37. 27.	RECOR	חבים	100		
			***	LOOR		13843		ļ
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<u> </u>	0			DEC -1	1988			
Calculation of Expenditure Day  Total Expenditures	•	Total Credits				****		
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S	+ [15] =		<u>L</u>			claims cov	nber of mining rered by this	'\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Instituctions Total Days Credits may be a	poortioned at the claim h	older's				report of v	vork.	<u> </u>
choice. Enter number of day in columns at right.			Total Dave	For Office Use O	nly	Mining Rec	corder	-:>'
Constinue of Figure.			Recorded				A	المرس
Mow mly 3/200	cogded Holder or Agent I	Signatur (1)	1	Date Approved	as Recorded	Branch Dir	wash to	mont
11014 MLV 07/3	unilpungibil	netty:	· L			De Su	NON	· .

	DEC - 1 1988		
Fo	r Office Use Only	Total number of mining claims covered by this report of work.	63
al Days Cr orded	Date Recorded	Mining Recorder	No.
	Date Approved as Recorded	Branch Direction	man
ets set fort	h in the Report of Work anne	xed hereto, having perform	ed the work

I hereby certify that I have a personal and intimate knowledge of the facor witnessed same during and/or after its completion and the annexed report is true.

Certification Verifying Report of Work

mic and Pastal Address of Person Certifying

Ministry of Northern Development and Mines

### Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

Instructions: - Please type or pri	Instructions:		Please	type	or	prir
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- 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

(Yazz 10f2)	Mining Act — Do not use shade	i, Days Cr." columns. d'areas below.
Geological Mapping Claim Holder(s)	2.11889 Township or Area	
Glan Auden Resources	Limited T-1915	nce No.
P.O. Box 1637 Timmir	ns Ontario PAN 7W8.	
R.S. Middleton Explorat	rouserv. Inc 127 Oct 88   Lay   NO. 188	Miles of line Cut
Name and Address of Author (of Geo-Technical repor	1637 TIMMINS ONT. P4N 7W8.	
Credits Requested per Each Claim in Columns at	· · · · · · · · · · · · · · · · · · ·	

M. Zeeman.	1.0. ROX 16	37711
Credits Requested per Each C	Claim in Columns at ri	ght
Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days, (This	- Electromagnetic	
includes line cutting)	- Magnetometer	
For each additional survey using the same Rd: E C E Enter 20 days (for each)	VED Other	
DEC	∠ઃ <b>1988</b> ઃ।	20
	Geochemical	
Man Days MINING LAN	DS. SECTION	Days per Claim
Complete reverse side	• Electromagnetic	'
KICE INE	- Magnetometer	
UEC 1 1988	- Padiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits		Days per Claim
Note: Special provisions	Electromagnetic	<u> </u>
credits do not apply to Airborne Surveys.	Magnetometer	
	Radiometric	
Expenditures (excludes powe	er stripping)	
Type of Work Performed		

credits do not apply		
to Airborne Surveys.	Magnetometer	
	Radiometric	
Expenditures (excludes pow	er stripping)	
Type of Work Performed		
Performed on Claim(s)		
		_
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Calculation of Expenditure Days	s Credits	Total
Total Expenditures		Days Credits
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Instructions		
Total Days Credits may be as	poortioned at the cla	im holder's

THIND			TW8.
	laims Traversed (L	ist in nu	merical sequ
Prefix	fining Claim Number	Expend. Days Cr.	Prefix
		2070 071	
	1035686		
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	1035690		
	1035691		
	1035692.		
	1035693		9.21
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1. Fug. 1	1035695		
	1035696		
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	1035706		
	1035707		i Lina
	1035708		
			Total n

er	ical sequence)	
	Mining Claim Prefix Number	Expend. Days Cr.
	30,780,040	7
	1035709	
-	1035710	
	1035711	
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	1035724	
	1035725	1
		<del> </del>
	1035726	<b> </b>
	1035727	]
	1035728	
	1035729	
	1035730	
	1035731	
٠	1035732	1
		ļ
	Total number of mining claims covered by this	12

Total i	number of mining
	covered by this
report	of work,

63	
	•

	Total Days Cr. Recorded	Date Recorded	Mining	Recorder	-
Resorded Holder or Agent (Signature)		Date Approved as Recorded	Branch	Director	<del> </del>
ertification Verifying Report of Work					

For Office Use Only

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

Name and Postal Address of Person Certifying



Ministry of Northern Development and Mines

#### **Report of Work**

(Geophysical, Geological, Geochemical and Expenditures) Instructions: - Please type or print.

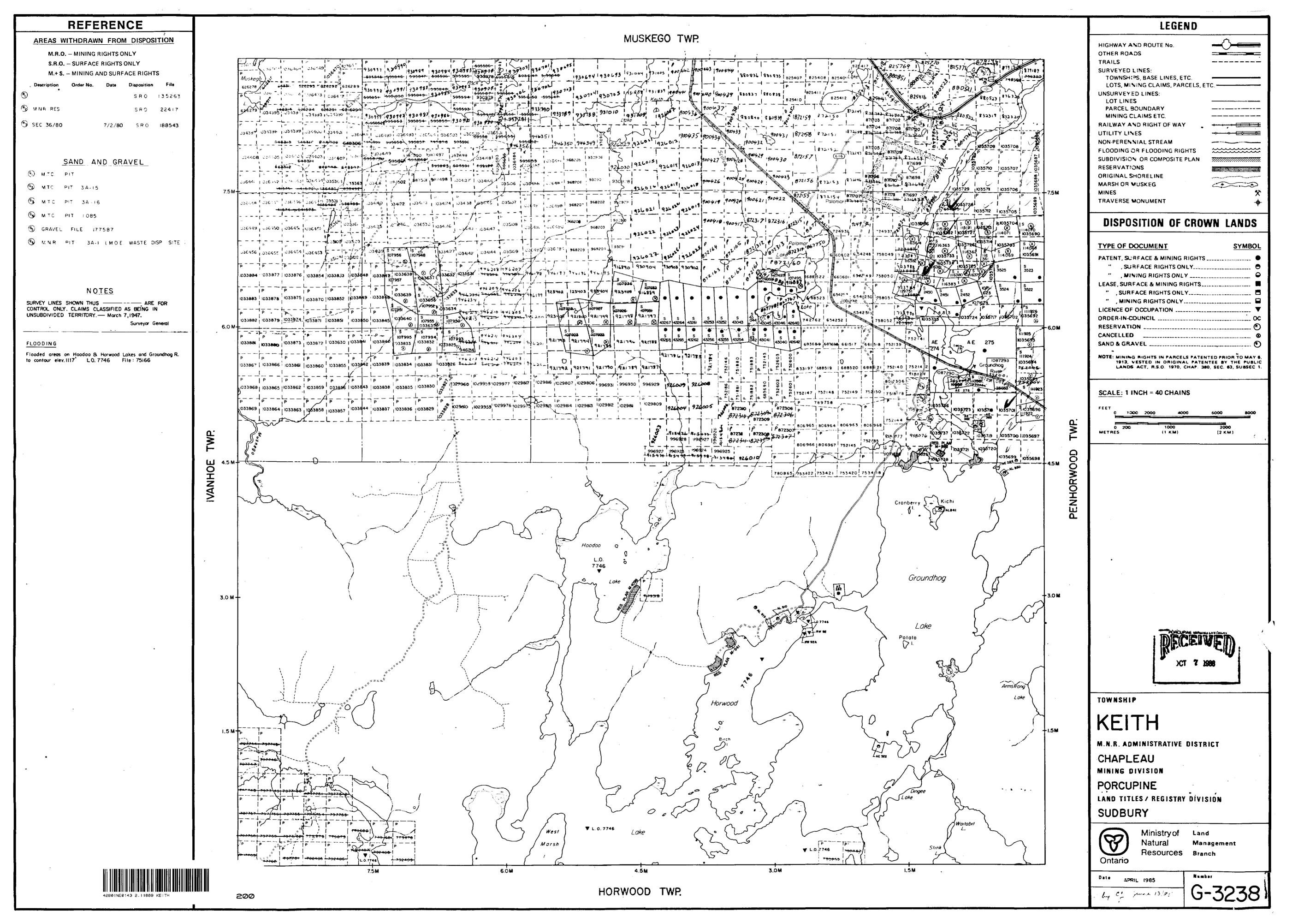
If number of mining claims traversed exceeds space on this form, attach a list.

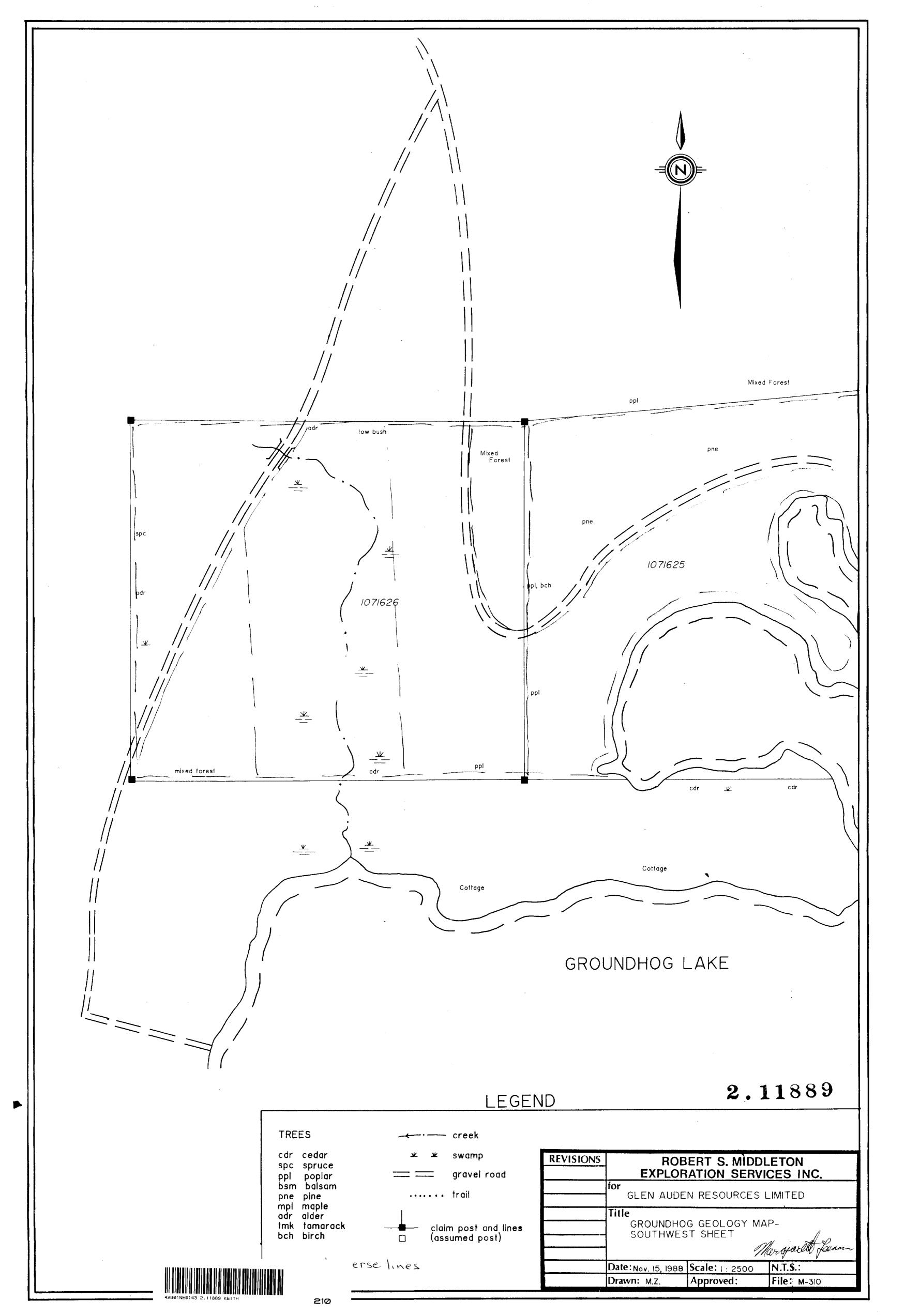
Note: — Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.

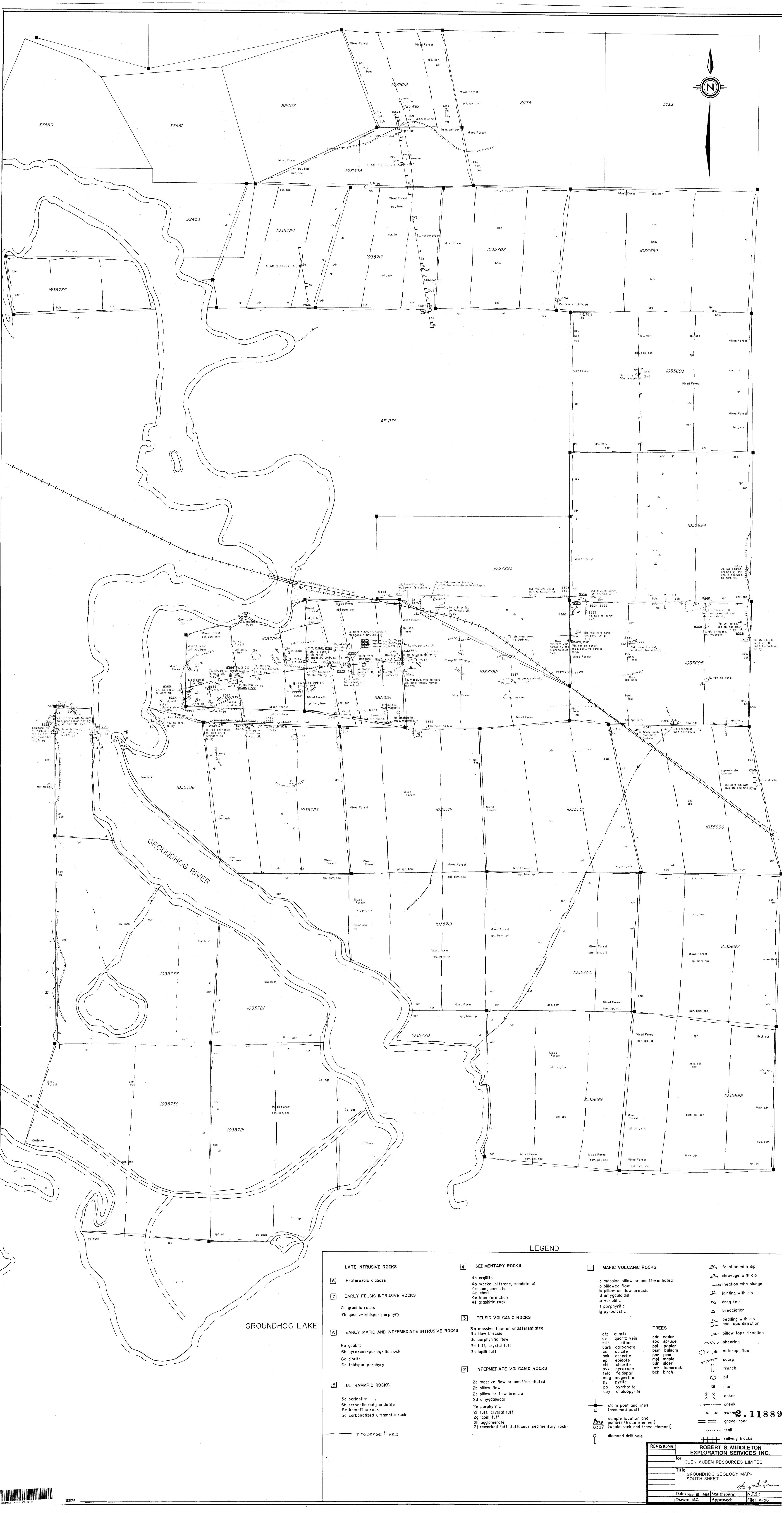
( 2) 2 of 2,	)		Mining	Act	-	11	se shaded areas belo	
Type of Survey(s)	· ·				Township o	1.		
Geological MC	upping	<del></del> -		,	Key		or's Licence No.	
Glen Auden	Resources L	nuteo	<u> </u>				1915	
P.O. Box 1637				7W8				
ISurvey Company				Date of Survey	(from & to)		Total Miles of lin	e Cut
R.S. Middleton E Name and Address of Author to	YPIOYATION DCI	vices 1	nc.	_		10.   Yr.		
M. Zeeman P.C	1.Box 1637 T	immin	is Out.	PUN TWB.				
Credits Requested per Each (				ims Traversed (L		ical sequ	ience)	
Special Provisions	Geophysical	Days per Claim		ning Claim Number	Expend. Days Cr.		Mining Claim Number	Expend. Days Cr.
For first survey:	- Electromagnetic		7.6112		0070 01.	Freitz	Iddinger	Days Ci.
Enter 40 days. (This includes line cutting)				1035733		977.04 TO		
more of the outling,	- Magnetometer			1035734		1.5		
For each additional survey: using the same grid:	- Radiometric			1035735				
Enter 20 days (for each)	- Other			1035736				
	Geological	20		1035737				
	Geochemical	~		1035738				
Man Days	Geophysical	Days per		1035730				_
- Complete reverse side	- Electromagnetic	Claim		102274C				
Date Shart Fall Hart				1035185				
KICH BUYELL	- Magnetometer	ļ		1035786				
) IEC	- Radiometric			071623		2.5		
OCC 1 1388	- Other			1071624				
	eological			1071625				
	Geochemical			1071626			4	
Airborne Credits		Days per Claim		1087290		1		
Note: Special provisions	Electromagnetic			1007 201			) <del></del>	
credits do not apply	-			108+291	ļ		<b>&amp;</b>	
to Airborne Surveys.	Magnetometer			1087292				
	Radiometric			1087293				
Expenditures (excludes pow	er stripping)					100	ž.	
Type of Work Performed				Andrew An				
Performed on Claim(s)								
					<del> </del>	1	\$	
				a massa an anama a massa a financia de la compania			§	
Calculation of Expenditure Days	s Credits					3.40	Ż.	
Total Expenditures	•	Total s Credits	199.63			33.4		
\$	+ 15 =		**************************************	1	·		umber of mining	/ -
Instructions						claims c report c	overed by this f work.	63
Total Days Credits may be ap choice. Enter number of day				For Office Use C		]		
in columns at right.			Total Days Recorded	Cr. Date Recorded		Mining	Recorder	
Deten / Re	conded Holder or Agent (	Signature)	<u> </u>	Date Approved	as Recorded	Branch (	Director	
1 Ovembir 31/28	Cintuadoe	retty	`					
0 30 11 11 11 16	1 (11)	7				-11		

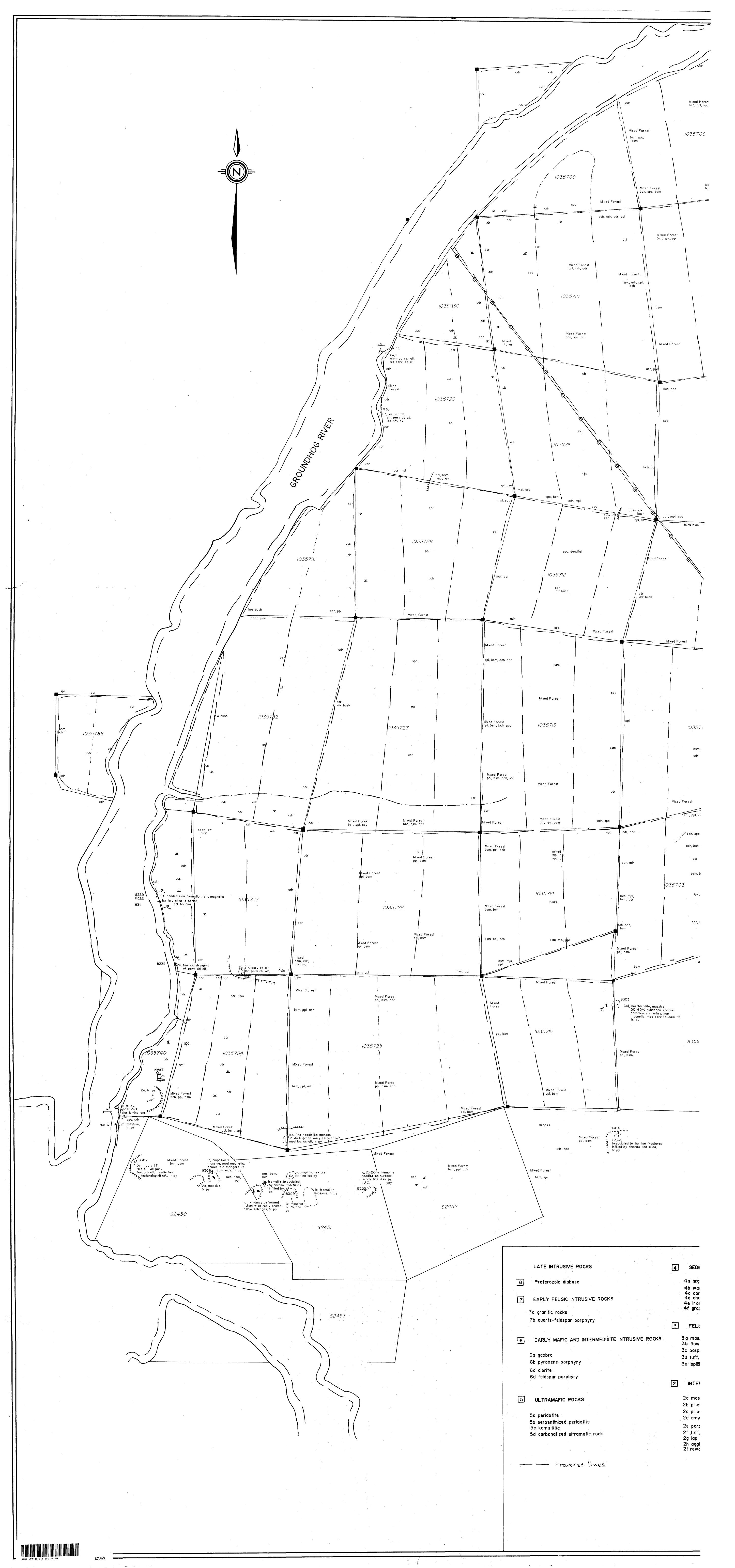
that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work

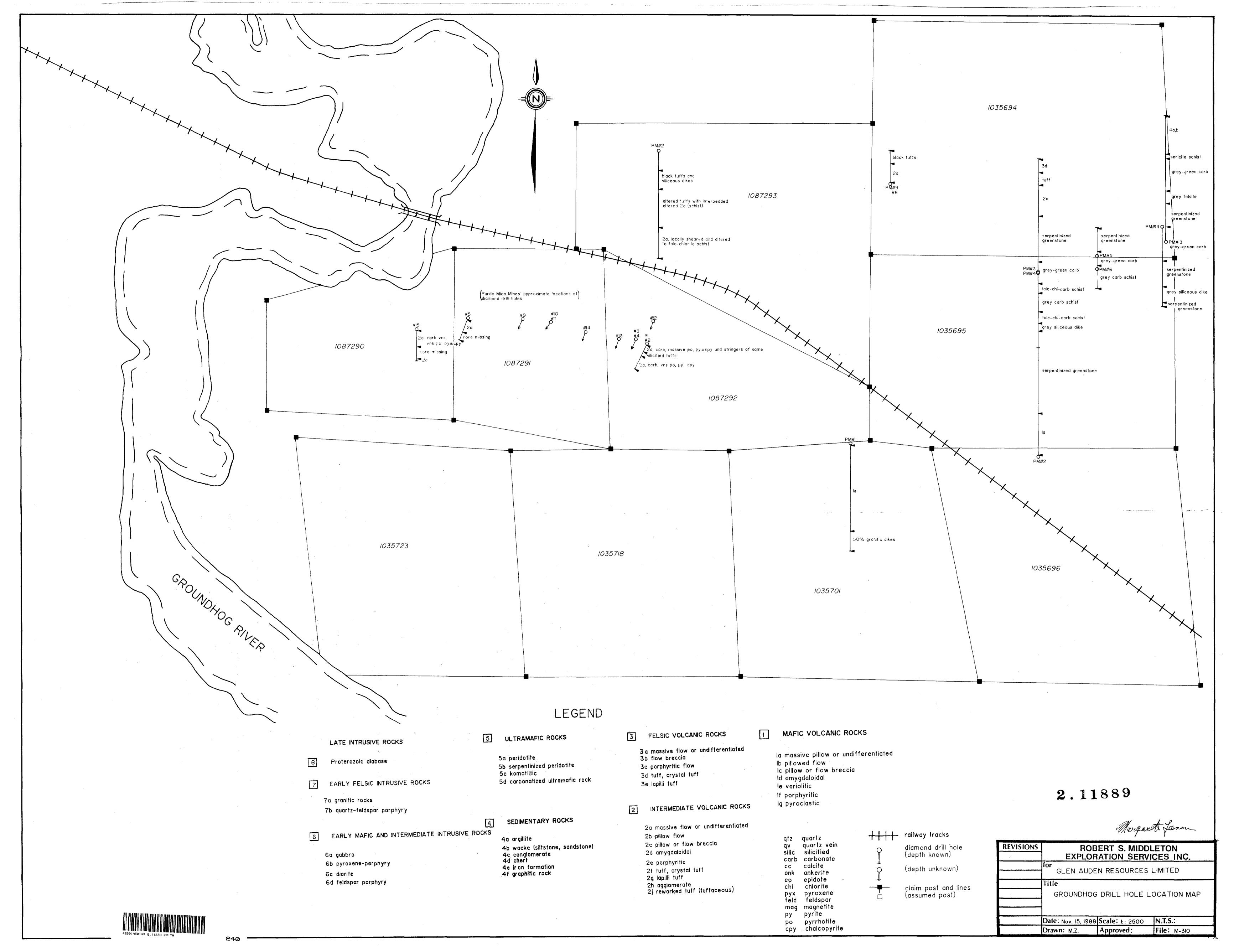
that I have a personal and intimate knowledge of the rock to need a same during and/or after its completion and the annexed report is true. Name and Postal Address of Person Certifying

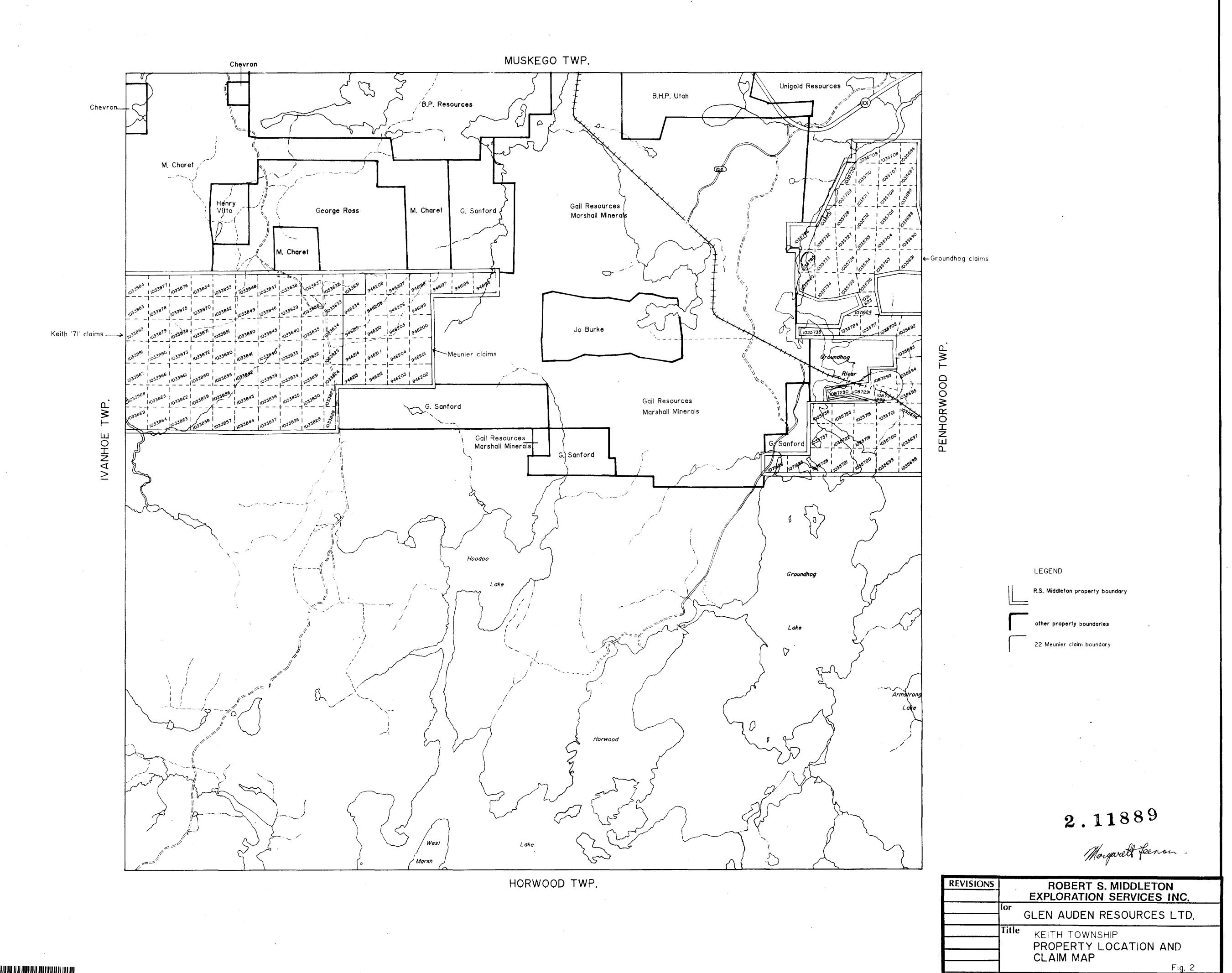












Date: Nov. 88 | Scale:1: 31,640 | N.T.S.:

Drawn: JLB

Approved:

File: M-310

