OROGRANDE RESOURCES

1997 EXPLORATION PROGRAM

GRASSY LAKE PROPERTY

by

Walter Hanych

March 25, 1998

Table of Contents

List of Figures

INTRODUCTION

The following report covers the Grassy Lake property located in the Shining Tree area of Northeastern Ontario. In 1995 a study was undertaken to identify target areas for their VMS potential. As a result of this study, a group of claims totalling 33 units, referred to as the Grassy Lake property were staked within Kelvin and Kemp townships.

Under the impetus of an OPAP grant, subsequent field work led to the re-disvovery of the Kelvin Creek showing. Preiminary sampling and petrographic work reveiled an environment suitable to hosting VMS style mineralization. With this concept in mind the property was optioned to Orogrande Resources of Calgary in the spring of 1997.

In an on-going exploration campaign, during the month of October and later in November of 1997, the author of this report was commissioned to resample the Kelvin Creek showing and prospect other potential areas within the claim block.

Grassy Lake Property

Location

The property consists of a contiguous group of 7 claims totaling 33 units located in the Grassy Lake area, in the northeast quadrant of Kelvin township, claim sheet G983, and the southeast quadrant of Kemp township, claim sheet G084. The property lies within the Larder Lake Mining Division. The NTS coordinate for the property is 41P14 and it is situated between latitude 47° 45' to 47° 47'north latitude, and 81° 13' to 81° 15' east longitude.

Claims

The property consists of 7 claims totalling 33 units as listed below:

Claim number	Configuration	Units
1198163	3 x 4	12
1210813	2 x 2	4
1198162	1 x 4	4
1210814	1 x 2	2
1198161	2 x 2	4
1197769	2 x 2	4
1198160	1 x 3	3

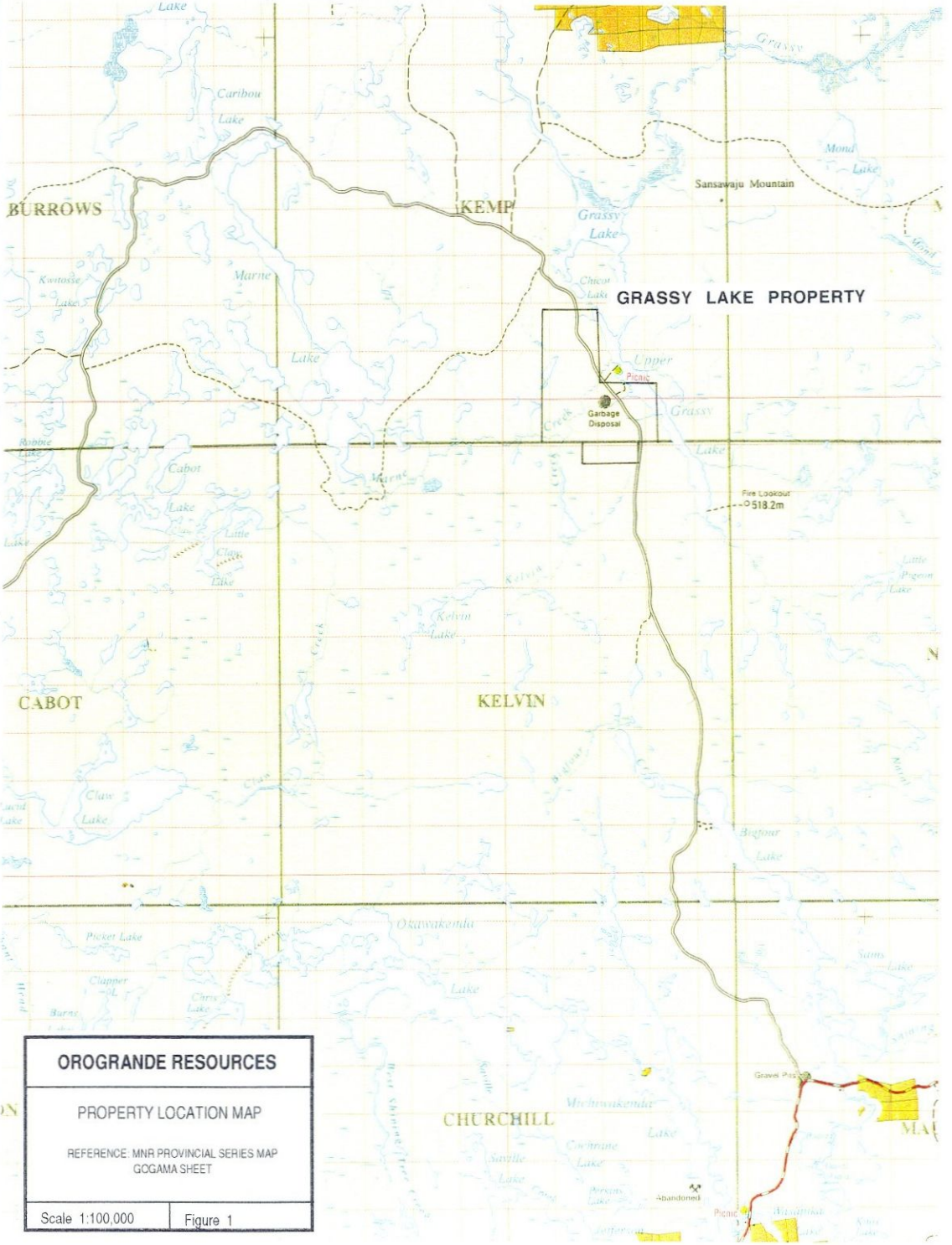
Access

Access to the property is via Hwy. 560 to the Grassy Lake road, which is located 11km east of the hamlet of Shining Tree, then northward on the Grassy Lake road for 14 km to the southern claim boundary (see figure 1).

Previous Work Performed

The area was the focus of base metal exploration in the past. The following summarizes these activities.

1965, the Consolidated Mining and Smelting Company of Canada Limited drilled two holes in Kemp township, 35 and 240 feet deep.



OROGRANDE RESOURCES

PROPERTY LOCATION MAP

REFERENCE: MNR PROVINCIAL SERIES MAP
GOGAMA SHEET

Scale 1:100,000	Figure 1

1975, Hudson Bay Oil and Gas conducted an airborne survey over Kelvin and Kemp townships. One hole was proposed to test a conductor situated within the existing claim block. There is no record of this hole having been drilled.

1991, Noranda Exploration Company conducted approximately 10 kilometers of horizontal loop and magnetic surveys over a grid situated within the claim group.

1991, ASARCO Exploration Company cut a grid with an east-west baseline and 17 crosslines totalling 12.4 meters in an area that is currently covered by claims 1198160, 1198161 and 1197769. Geological mapping, horizontal loop and magnetic surveys were completed.

1992, ASARCO Exploration Company drilled a 328 foot hole in the southeast quadrant of current claim 1198161.

1995, W. Hanych and B. Komarechka staked the area, after a review of geophysical and geological data. W. Hanych applied a partial OPAP grant (OP 95-273) to the property. Prospecting and sampling was undertaken and the Kelvin Creek showing was re-discovered. Additional claims were acquired.

1996, B. Komarechka applied OPAP grant OP 96-343. Approximately 14.5 line kilometers of grid were cut and a detailed HLEM survey was completed.

Regional Geology

The Grassy Lake property is situated in Kemp and Kelvin Townships, which lie in the southern part of the Abitibi Greenstone Belt. Metavolcanics and metasediments occur throughout the area, an upper volcanic sequence comprising of calc-alkaline mafic to intermediate to felsic flows and pyroclastics underlie Kemp Tp,while the lower part of the sequence occurs to the west of the township and consists mainly of mafic tholeiitic and calc-alkaline flows. These sequences are separated by a northwest trending fault, the Grassy Lake Fault. Locally mafic and ultramafic intrusives occur in the area (see figure 2).

Property Geology

The Grassy Lake property is underlayed by a sequence of northeast striking, steeply dipping intermediate to felsic metavolcanics and lesser metasediments and minor mafic intrusive bodies. Several north northeast trending faults bisect the volcanic-sedimentary package.

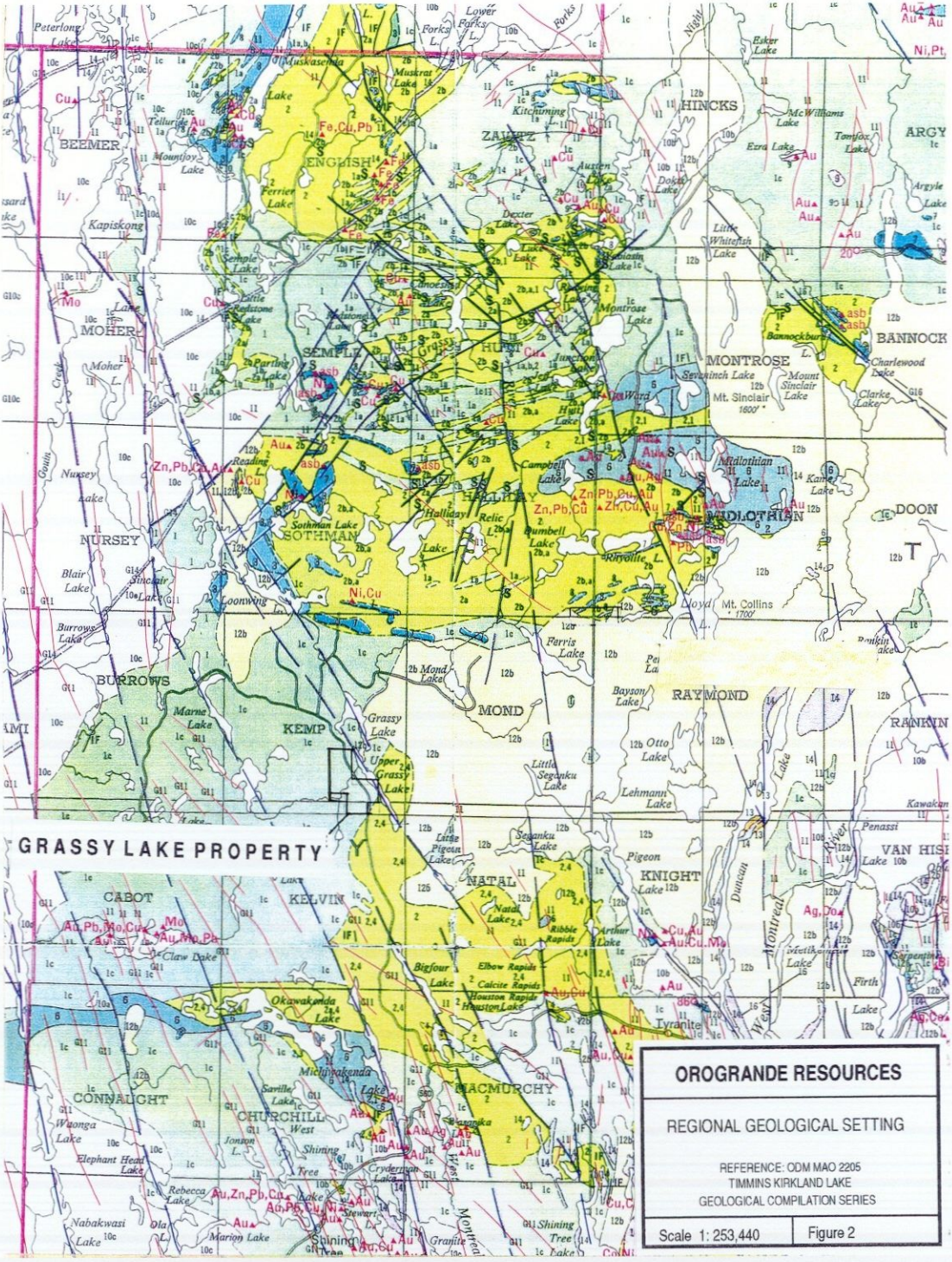
Intermediate pyroclastic rocks predominate. Typically they are matrix supported, poorly sorted lapilli-tuff with the fragments generally being andesitic.

Intermediate flows occur to a lesser extent and may contain up to 10% pyrite.

Felsic volcanic rocks occur as flows and fragmentals and have been reported in drill holes to host massive pyrite sections up to 14.3 meters thick.

A volcanoclastic coarse lapilli tuff, the product of a debris flow event occurs in the east central portion of the property.

Metasediments occur as argillite and greywacke,the former typically dark black and fissile, the latter typically grey and well bedded. (see figure 3)

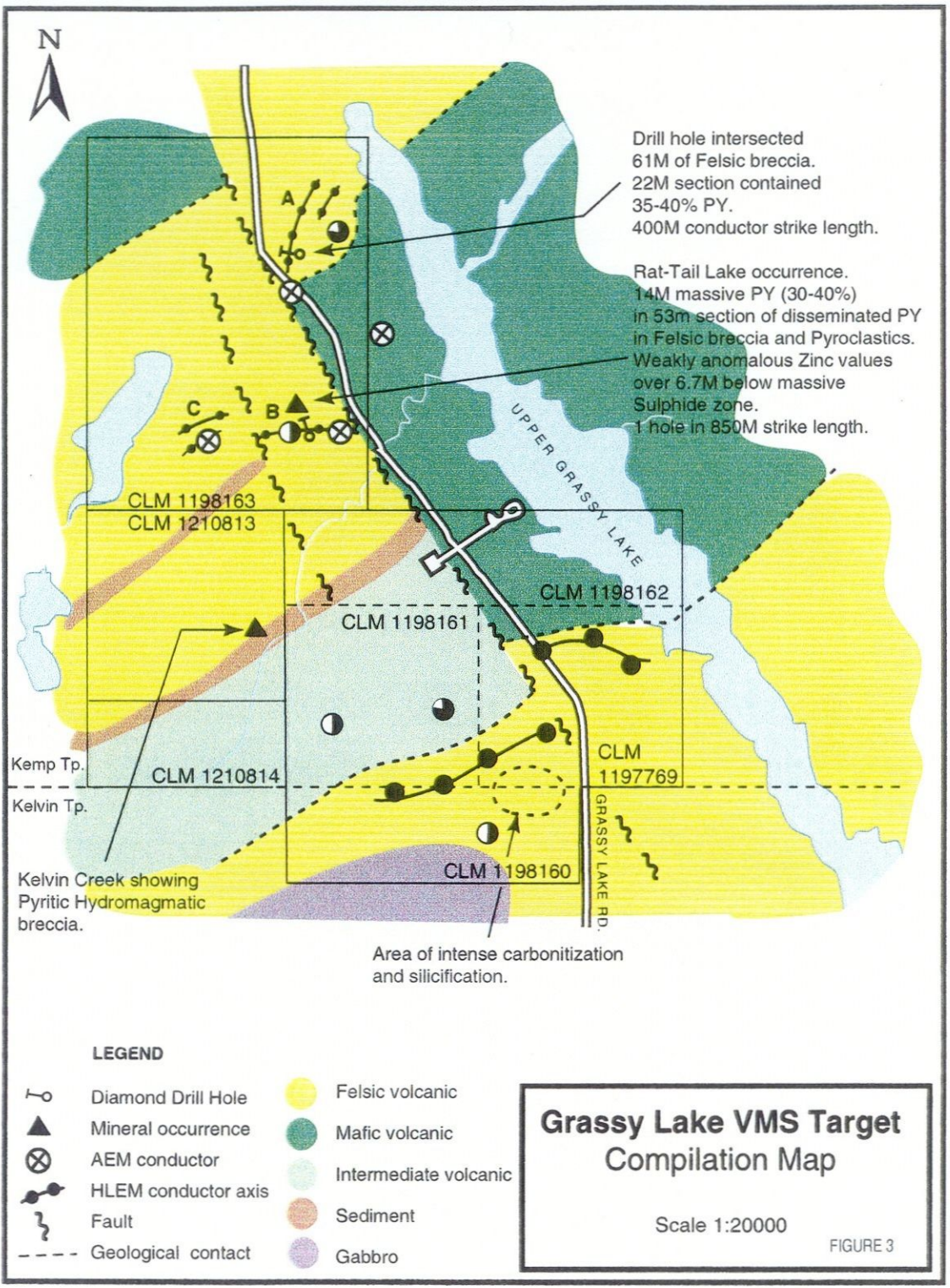


OROGRANDE RESOURCES

REGIONAL GEOLOGICAL SETTING

REFERENCE: ODM MAO 2205
TIMMINS KIRKLAND LAKE
GEOLOGICAL COMPILATION SERIES

Scale 1: 253,440 | Figure 2



Grassy Lake VMS Target
Compilation Map

Scale 1:20000

FIGURE 3

1997 Exploration Program

Kelvin Creek Showing *(figure 4)*

Between October 3 to 7 The Kelvin Creek showing was mapped and sampled. A base line at 225° was run from a start point established at 30 meters north of the number 4 post of claim 1198161. This base line was extended to the southwest for 200 metrs and pickets were established along its length every 25 meters. This base line served as a control line from which the pits and trenches were located on a map at a scale of 1:500. A total of 7 blast trenches and 9 blast pits were located. Where practical, the trenches were sampled by obtaining continuous chip samples along a predetermined length, while the pits were sampled across their widths.

Target Area "A", "B" "C" and "D". (figure 5)

These areas were prospected and sampled by compass and hip chain as well, their locations were fixed by GPS. Target "A" outcropped along a north-south trending series of hummocks, target "B" was determined to be situated in an area of thin glacial overburden while targets "C" and "D" lie within swampy ground.

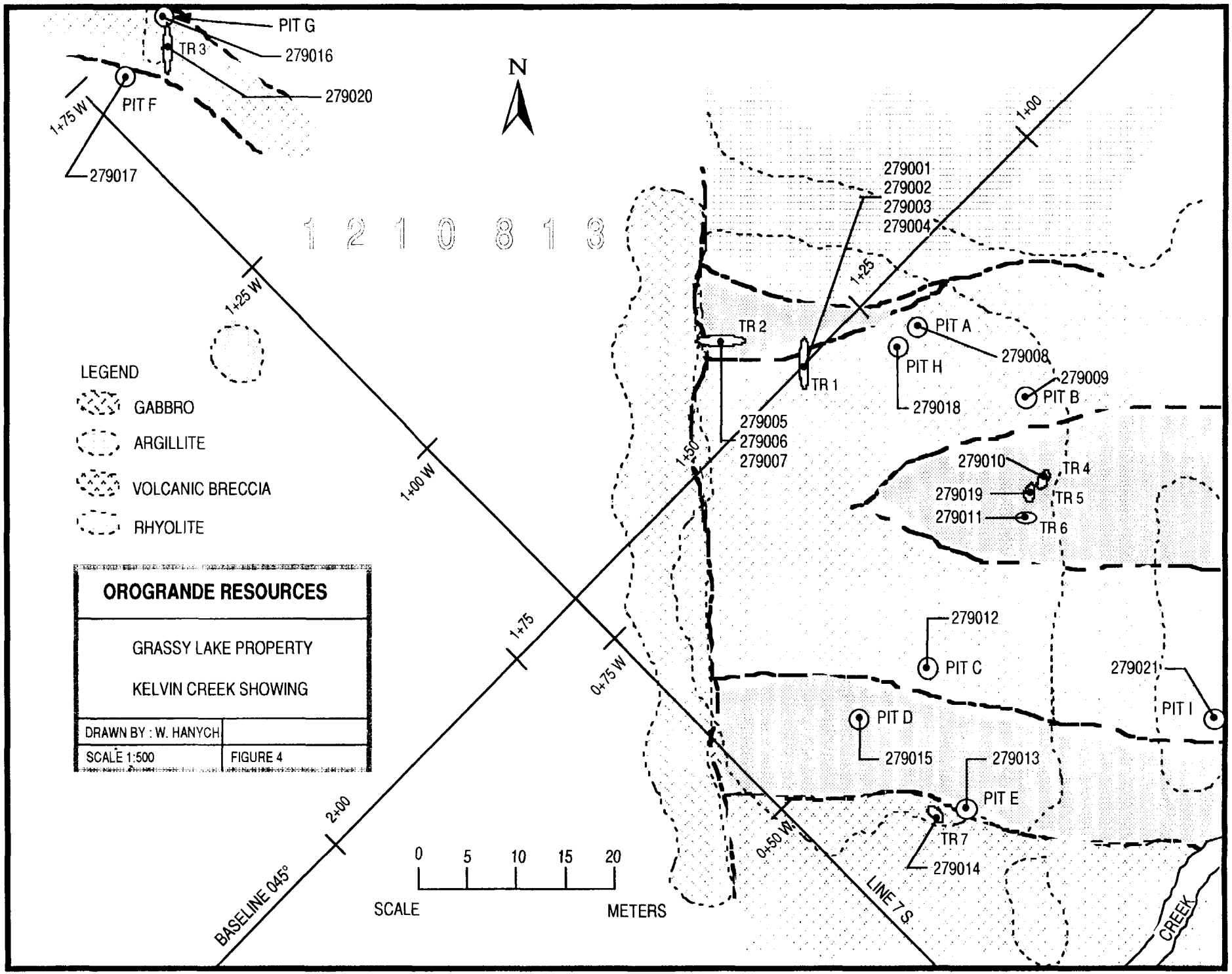
Results

Kelvin Creek Showing

The Kelvin Creek showing was discovered during the course of the 1995 program. An area approximately 200 meters by 100 meters was discovered to contain numerous trenches and pits.

Although only weakly anomalous zinc values were obtained, the rocks in this area have been interpreted to be partially the result of a hydromagmatic eruption with subsequent pyritization via a hydrothermal process in a VMS setting. Pyrite occurs as massive fragments in a matrix supported, poorly sorted lapilli-tuff and also as disseminated grains in the andesitic fragments, up to 15% pyrite has been observed in chip samples.

Although, the pits and trenches were sampled and 21 samples were collected, it was difficult to obtain a fresh sample as much of the mineralized area is intensely oxidized. The results of this sampling did not yield any significant values. It appears, that the character of the pyrite mineralization, in the form of nodules and concretions is indicative of a low temperature regime, not condusive to base metals. Nonetheless, thin


PIT G
TR 3
279016
279020
PIT F
279017
1+75 W
1+25 W
1+00 W
0+75 W
0+50 W
2+00
BASELINE 045°
N
1 2 1 0 8 1 3
279001
279002
279003
279004
1+00
1+25
1+50
1+75
TR 2
TR 1
PIT A
279008
PIT H
279018
279009
PIT B
279005
279006
279007
279010
TR 4
279019
TR 5
279011
TR 6
279012
PIT C
279021
PIT I
PIT D
279015
279013
PIT E
TR 7
279014
LINE 7 S.
CREEK
LEGEND
GABBRO
ARGILLITE
VOLCANIC BRECCIA
RHYOLITE
0 5 10 15 20
SCALE
METERS
OROGRANDE RESOURCES
GRASSY LAKE PROPERTY
KELVIN CREEK SHOWING
DRAWN BY : W. HANYCH
SCALE 1:500
FIGURE 4

section work has revealed that two minerlizing events affected the rocks. The mineralizing event in which the andesitic fragments were replaced by pyrite was as a result of a hydrothermal process. These fragments have been transported away from a vent source

Target "A"

Sample 279022 ran 6310ppm Zn. This sample was taken from the area immediately north of a gabbro body situated south centrally in claim 1198160. This area is characterized by bedrock of an intensely silicified and carbonitized fragmental. As a follow-up to this result, the area was prospected in the first week of November. At this time, 5 samples from the vicinity of 279022 were collected. Copper values ranged from 40 to 2190 ppm, averaging 597 ppm. Zinc values ranged from 35 to 4030 ppm, averaging 868 ppm.

Target "B"

This target is defined by an AEM conductor and is of interest because it lies within a postulated fault-shear zone and occurs witin 150 meters of a mapped gabbro intrusive. In the general vicinity andesite flows were observed, while in the immediate vicinity of the conductor as determined by GPS shallow overburden exists. As a result no samples were obtained from this site.

Target "C"

In 1991 ASARCO Exploration undertook an exploration program of the ground currently held by Orogrande. Their work concentrated on the area defined by conductor "C" and "D" (see figure 4). The area southeast of the conductor was determined to consist of high iron tholeiites ranging in compositon from basalt to andesite. Northwest of this conductor, a synvolcanic porphyritic calc-alkalic rhyolite was identified. To the northeast and along strike of this unit, a calc-alkalic basalt with high SiO_2 (51-61%) occurs.

This target is defined by a 700 meter long east northeast trending conductor. Unfortunately, it lies at the northern edge of cedar swamp in an area of limited outcrop. An outcrop situated 30 meters north of the conductor axis at its eastern portion, is a felsic breccia containing dark quartz fracure filling veinlets. A sample of this material (279023) ran 40 ppm Cu and 105 ppm Zn.

Target "D"

This area is favourable for VMS mineralization and a subparallel conductor("E") just northwest of conductor "D" was drilled by ASARCO. The hole was drilled northward for 377 feet and encountered brecciated graphite and felsic volcanics throughout much of its length.

The area was prospected and the old drill site was located. Much ot the target area lies within a cedar swamp with no outcrop. The scope of this investigation did not allow the opportunity to examine the area in any detail.

Recommendations

Kelvin Creek Showing

1.) The pits and trenches should be cleaned out and samples from fresh blasts be obtained.
2.) Prospest and map along strike of the volcanic breccia.

Targets"A" and "B"

1.) Map and sample the area in detail.
2.) Expose subcrop by stripping in the vicinity of target "B".

Targets "C" and "D"

To date tardet "D" was tested with one hole drilled to a relatively shallow depth and ending in a graphitic tuff at 377 feet. This conductor is 300 meters long, while conductor "D" is over 700 meters long. Given their favourable geolgical environment, the following recommendations are of consideration.
1.) Refurbish the old grid.
2.) Undertake a new EM survey or reevaluate the existing data.
3.) Drill the most favourable zones along these conductor axes.

CERTIFICATE of QUALIFICATION

I Walter Hanych of the town of Collingwood, Province of Ontario, do hereby certify that:

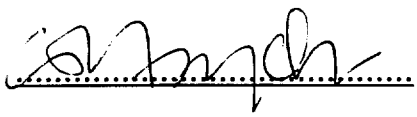
1. I am a geologist and reside at RR # 3 Collingwood, Ontario, L9Y•3Z3.

2. I graduated from Laurentian University in 1979, with an Honours Degree of Bachelor of Science in Geology.

3. I have been practising my profession since graduation.

4. I consent to the use of this report in submissions for assessment credits or similar regulatory reguirements, and to regulatory authorities.

5. That I am the author of this report and supervised the field operations, and the collection of data from which this report is generated.



Walter Hanych

Collingwood, Ontario

March 25th, 1998

REFERENCES

Hanych, W., 1995, OPAP Project Report, OP 95-273, Rat-Tail/Grassy Lake and Upper Winding Lake Properties, pp 14

Hanych, W., 1996, OPAP Project Report, OP 96-343, Rat-Tail/Grassy Lake Property, pp 6.

Babin, D., 1996, Thin Section Petrography, Samples TS-1 through TS-14, for Walter Hanych. Included in OPAP Report OP 95-273, pp 56.

Horvath, A. S. 1991-92. ASARCO Exploration, personal communications.

APPENDIX

A

SAMPLE DESCRIPTIONS

Sample Descriptions Grassy Lake Property

SAMPLE NO	DESCRIPTION
KELVIN CREEK SHOWING	
279001	Trench 1, 1.5 m, Dacite flow, pale grey-green, tr-1% py
279001	Trench 1, 1.5m, Volcanic breccia-lapilli tuff, 7% py disributed in the matrix and in the felsic fragments
279003	Trench 1, 1.5m, Volcanic breccia-lapilli tuff similar to sample 279002
279004	Trench 1, 1.5m, Lapilli tuff with 3% disseminated py
279005	Trench 2, 1.5m, Rhyolite fow containing 10-15% py diss and in clusters
279006	Trench 2, 1.5m, Dacite-rhyloite flow, 1% disseminated py
279007	Trench 2, 0.5m, Rhyolite flow, light grey, vfg and siliceous, hairline quartz fracturing, 1% diss py
279008	Pit A, 0.5m, Volcanic breccia-lapilli tuff, 10% diss py and as clusters
279009	Pit B, 0.5m, Volcanic breccia, 20% diss py and nodular (3cm x 2cm)
279010	Trench 4, 1.5m, Rhyolite flow containinf quartz amygdules, 3% fine gr py and as fragments
279011	Trench 6, 1.5m, Volcanic breccia-lapilli tuff, contians 1cm x 2cm py fragments, overall 5-7% py
279012	Pit C, 1.5m, Volcanic breccia-lapilli tuff, 10-15% py
279013	Pit E, 1.5m, Rhyoloite-dacite flow, 1% vfg diss py
279014	Trench 7, 2.0m, Volcanic breccia-lapilli tuff, 3% py as diss fine grains and as nodules
279015	Pit D, 1.0m, Rhyolite flow with 3% diss py
279016	Pit G, 0.5m, Contact area?, Volcanic breccia and rhyolite flow-exhalite, 5% py in the vol bx
279017	Pit F, 0.5m, Rhyolite flow with quartz fracture filling, py occurs as 1-2mm elliptical spheroids and as concretions 1cm x 3 cm
279018	Pit H, 0.5m, Volcanic breccia-lapilli tuff, 10-155 coarse diss py and nodular py
279019	Trench 5, 2.0m, Rhyolite flow, lapilli tuff 5-7% diss py occuring as nodules
279020	Trench 3, 1.0m, Intensely oxidized volcanic breccia, 15% diss py
279021	Pit I, 0.5m, Intensely oxidized volcanic breccia, 10-15% nodular and diss py
TARGET "A"	
279022	Intensely silicified and carbonitized lapilli tuff of dacitic composition, 1% diss py
40184	Intensely silicified and carbonitized lappilli tuff with 3% diss py and tr cp.
40185	Carbonitized lappili tuff with 1% diss po and py.
40186	Lapilli tuff with increasing mafics, trace po.
40189	Silicified and carbonitzed lapilli tuff with tr po and possibbly fuchsite.
40190	Chert fracture filling in carbonitzed tuff, tr py.
TARGET "C"	
279023	Rhyolite with dark black quartz fracture filling, tr sulph
TARGET "B" AREA	
40187	Variolitic felsic flow, very cherty, contains concretionary and disseminted py, to 3%.
40188	Cherty felsic flow, exhalite, with 1% fine disseminated py.
40192	Felsic flow with fine fracture filling py and po to 3%.
40193	Felsic flow, 3% diss py and po.
40194	Andesitic lapilli tuff, tr sulph.
40195	Amygdaloidal felsic flow, tr sulph.
TARGET "D" AREA	
40191	Moderatley silicified pyroclastic, tr sulph.

APPENDIX

B

ANALYTICAL RESULTS

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: OROGRANDE RESOURCES INC.

926 - 1122 4TH ST. S.W.
CALGARY, AB
T2R 1M1

Project : GRASSY LAKE
Comments: ATTN: GUI SALAZAR CC: WALTER HANYCH

Page Number : 1-A
Total Pages : 1
Certificate Date: 07-NOV-97
Invoice No. : I9749112
P.O. Number :
Account : NJW

CERTIFICATE OF ANALYSIS A9749112

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Mg %	Mn ppm	Mo ppm	Na %
279001	205	226	< 5	< 1	1.35	10	20	< 5	< 10	0.53	< 5	15	70	40	4.26	< 10	0.15	0.63	340	< 5	0.09
279002	205	226	< 5	< 1	1.45	20	20	< 5	< 10	0.22	< 5	20	90	55	6.80	< 10	0.17	0.65	310	< 5	0.09
279003	205	226	< 5	< 1	1.41	30	20	< 5	< 10	0.20	< 5	15	80	35	5.72	< 10	0.16	0.61	290	< 5	0.09
279004	205	226	< 5	< 1	1.52	20	20	< 5	< 10	0.23	< 5	15	90	45	5.32	< 10	0.18	0.66	310	< 5	0.10
279005	205	226	< 5	< 1	1.25	10	20	< 5	< 10	0.29	< 5	20	60	25	6.29	< 10	0.18	0.52	230	5	0.10
279006	205	226	< 5	< 1	1.57	10	< 20	< 5	< 10	0.48	< 5	5	90	25	3.52	< 10	0.08	0.78	360	< 5	0.14
279007	205	226	< 5	< 1	2.55	< 10	< 20	< 5	< 10	0.80	< 5	15	80	25	5.32	< 10	< 0.01	1.28	650	< 5	0.15
279008	205	226	< 5	< 1	0.74	10	20	< 5	< 10	0.16	< 5	10	80	40	5.39	< 10	0.17	0.24	120	< 5	0.10
279009	205	226	< 5	< 1	2.21	50	40	< 5	< 10	0.10	< 5	40	130	60	14.05	< 10	0.27	0.91	460	< 5	0.05
279010	205	226	< 5	< 1	3.07	< 10	20	< 5	< 10	0.63	< 5	20	100	30	7.67	< 10	0.18	1.58	700	< 5	0.10
279011	205	226	< 5	< 1	2.64	< 10	20	< 5	< 10	1.88	< 5	20	90	40	6.36	< 10	0.07	1.48	810	< 5	0.13
279012	205	226	< 5	< 1	1.79	10	60	< 5	< 10	0.21	< 5	20	60	35	5.89	< 10	0.26	0.65	290	< 5	0.07
279013	205	226	< 5	< 1	1.48	< 10	20	< 5	< 10	0.99	< 5	< 5	70	10	2.90	< 10	0.18	0.59	380	< 5	0.07
279014	205	226	< 5	< 1	2.33	30	80	< 5	< 10	0.33	< 5	20	70	65	8.09	< 10	0.33	0.95	400	< 5	0.06
279015	205	226	< 5	< 1	1.69	< 10	< 20	< 5	< 10	0.59	< 5	5	80	20	3.75	< 10	0.08	0.96	390	< 5	0.14
279016	205	226	< 5	< 1	1.79	10	40	< 5	< 10	0.30	< 5	20	50	20	5.89	< 10	0.24	0.73	360	< 5	0.07
279017	205	226	< 5	< 1	3.02	< 10	20	< 5	< 10	1.41	< 5	5	100	15	6.41	< 10	0.12	1.63	780	< 5	0.10
279018	205	226	< 5	< 1	1.61	20	40	< 5	< 10	0.19	< 5	15	70	30	5.57	< 10	0.24	0.68	290	< 5	0.08
279019	205	226	< 5	< 1	2.45	10	20	< 5	< 10	1.50	< 5	20	80	40	6.56	< 10	0.16	1.24	680	< 5	0.09
279020	205	226	< 5	< 1	3.06	10	20	< 5	< 10	0.37	< 5	20	90	20	9.74	< 10	0.16	1.49	740	< 5	0.08
279021	205	226	< 5	< 1	1.09	10	20	< 5	< 10	0.14	< 5	5	60	25	4.24	< 10	0.13	0.50	130	< 5	0.09
279022	205	226	< 5	< 1	1.26	< 10	80	< 5	< 10	1.90	5	15	60	85	3.93	10	0.27	0.65	1570	< 5	0.09
279023	205	226	< 5	< 1	2.49	< 10	40	< 5	< 10	3.04	< 5	20	80	40	4.80	< 10	0.13	1.25	1060	< 5	0.10

CERTIFICATION: Ian A Bridden

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: OROGRANDE RESOURCES INC.

926 - 1122 4TH ST. S.W.
CALGARY, AB
T2R 1M1

Project : GRASSY LAKE
Comments: ATTN: GUI SALAZAR CC: WALTER HANYCH

Certificate Date: 07-NOV-97
Invoice No. : I9749112
P.O. Number :
Account :NJW

CERTIFICATE OF ANALYSIS A9749112

SAMPLE	PREP CODE		Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
279001	205	226	25	900	5	10	< 5	10	0.03	< 20	< 20	20	< 20	90
279002	205	226	50	900	5	< 10	< 5	10	0.01	< 20	< 20	20	< 20	40
279003	205	226	25	800	10	< 10	< 5	5	0.01	< 20	< 20	20	< 20	40
279004	205	226	25	800	5	< 10	< 5	15	0.03	< 20	< 20	20	< 20	115
279005	205	226	25	700	< 5	< 10	< 5	10	0.15	< 20	< 20	20	< 20	20
279006	205	226	30	900	< 5	< 10	5	15	0.25	< 20	< 20	60	< 20	25
279007	205	226	30	800	< 5	< 10	15	15	0.55	< 20	< 20	180	< 20	45
279008	205	226	25	600	5	< 10	< 5	10	0.03	< 20	< 20	< 20	< 20	55
279009	205	226	40	400	15	< 10	< 5	10	< 0.01	< 20	20	20	< 20	190
279010	205	226	40	700	< 5	< 10	< 5	15	0.01	< 20	< 20	60	< 20	80
279011	205	226	35	800	< 5	< 10	5	20	0.45	< 20	< 20	80	< 20	160
279012	205	226	25	800	5	< 10	< 5	5	< 0.01	< 20	< 20	20	< 20	185
279013	205	226	10	600	< 5	< 10	< 5	15	< 0.01	< 20	< 20	< 20	< 20	140
279014	205	226	35	700	5	< 10	< 5	15	0.01	< 20	< 20	20	< 20	220
279015	205	226	25	900	< 5	< 10	< 5	15	0.18	< 20	< 20	60	< 20	30
279016	205	226	20	500	< 5	< 10	< 5	15	0.02	< 20	< 20	20	< 20	55
279017	205	226	30	600	< 5	< 10	< 5	20	0.02	< 20	< 20	60	< 20	125
279018	205	226	25	900	5	< 10	< 5	5	0.01	< 20	< 20	20	< 20	105
279019	205	226	35	900	< 5	< 10	5	15	0.29	< 20	< 20	60	< 20	100
279020	205	226	30	600	< 5	< 10	< 5	10	0.04	< 20	< 20	60	< 20	160
279021	205	226	20	600	5	< 10	< 5	15	< 0.01	< 20	20	20	< 20	35
279022	205	226	25	500	< 5	10	5	35	< 0.01	< 20	< 20	< 20	< 20	6310
279023	205	226	45	1000	< 5	< 10	5	30	0.21	< 20	< 20	80	< 20	105

CERTIFICATION: Ian R...

Chemex Labs Ltd.

*Analytical Chemists * Geochemists * Registered Assayers*

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: OROGRANDE RESOURCES INC.

926 - 1122 4TH ST. S.W.
CALGARY, AB
T2R 1M1

Project : GRASSY LK
Comments: ATTN: GUY SALAZAR CC: WALTER HANYCH

Certificate Date: 28-JAN-98
Invoice No. : I9811106
P.O. Number :
Account : NJW

CERTIFICATE OF ANALYSIS A9811106

SAMPLE	PREP CODE		Au ppb AFS	Pt ppb AFS	Pd ppb AFS	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Mg %	Mn ppm
40184	205	226	16	35	52	3	1.13	10	60	< 5	10	1.83	5	20	60	2190	5.47	< 10	0.20	0.72	1480
40185	205	226	< 2	< 5	4	< 1	2.25	30	80	< 5	< 10	1.41	< 5	25	70	325	5.14	< 10	0.31	1.13	850
40186	205	226	< 2	5	4	< 1	1.90	20	80	< 5	< 10	1.00	< 5	20	50	260	3.70	< 10	0.34	0.77	530
40187	205	226	< 2	< 5	< 2	< 1	3.42	< 10	60	< 5	< 10	4.32	< 5	50	90	95	6.75	< 10	0.23	1.68	1700
40188	205	226	< 2	< 5	< 2	< 1	1.37	< 10	20	< 5	< 10	3.73	< 5	5	70	90	2.02	< 10	0.18	0.47	760
40189	205	226	< 2	< 5	4	< 1	0.45	< 10	40	< 5	< 10	5.21	< 5	10	30	170	2.97	< 10	0.21	0.64	1020
40190	205	226	< 2	< 5	2	< 1	0.56	10	40	< 5	< 10	1.41	< 5	10	80	40	2.13	< 10	0.21	0.17	590
40191	205	226	< 2	< 5	< 2	< 1	2.61	< 10	20	< 5	< 10	2.18	< 5	20	70	60	4.59	< 10	0.22	1.66	610
40192	205	226	< 2	< 5	2	< 1	2.25	10	60	< 5	< 10	5.45	< 5	20	80	70	3.51	< 10	0.19	0.87	1340
40193	205	226	< 2	< 5	< 2	< 1	2.02	< 10	80	< 5	< 10	2.38	< 5	15	80	50	2.96	< 10	0.25	0.63	680
40194	205	226	< 2	< 5	2	< 1	4.61	< 10	20	< 5	< 10	5.33	< 5	40	90	70	7.80	< 10	0.12	2.30	1780
40195	205	226	< 2	< 5	< 2	< 1	4.81	< 10	20	< 5	< 10	5.92	< 5	40	220	125	7.38	< 10	0.10	2.77	1900

CERTIFICATION: Hartt Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: OROGRANDE RESOURCES INC.

926 - 1122 4TH ST. S.W.
CALGARY, AB
T2R 1M1

Project : GRASSY LK
Comments: ATTN: GUY SALAZAR CC: WALTER HANYCH

Certificate Date: 28-JAN-98
Invoice No. : I9811106
P.O. Number :
Account : NJW

CERTIFICATE OF ANALYSIS A9811106

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
40184	205	226	< 5	0.08	60	400	< 5	50	5	30	< 0.01	< 20	< 20	< 20	< 20	4030
40185	205	226	< 5	0.07	50	500	15	10	5	50	< 0.01	< 20	< 20	20	< 20	115
40186	205	226	< 5	0.09	45	400	< 5	< 10	5	30	< 0.01	< 20	< 20	20	< 20	70
40187	205	226	5	0.07	120	2200	15	< 10	10	80	< 0.01	< 20	< 20	60	< 20	100
40188	205	226	5	0.10	20	400	< 5	< 10	< 5	35	< 0.01	< 20	< 20	20	< 20	100
40189	205	226	5	0.09	50	400	< 5	20	5	70	< 0.01	< 20	< 20	< 20	< 20	35
40190	205	226	< 5	0.07	5	400	< 5	10	< 5	20	< 0.01	< 20	< 20	< 20	< 20	90
40191	205	226	5	0.07	45	700	< 5	< 10	< 5	30	< 0.01	< 20	< 20	20	< 20	90
40192	205	226	5	0.11	40	400	< 5	10	< 5	50	< 0.01	< 20	< 20	20	< 20	85
40193	205	226	< 5	0.15	35	600	< 5	< 10	< 5	35	< 0.01	< 20	< 20	20	< 20	180
40194	205	226	10	0.10	70	2000	< 5	10	15	105	< 0.01	< 20	< 20	160	< 20	200
40195	205	226	10	0.10	125	200	< 5	< 10	30	120	< 0.01	< 20	< 20	180	< 20	95

CERTIFICATION: David Bickle

Ontario Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use)
W9880.00197
Assessment Files Research Imaging

41P14SE2001 2.18304 KEMP 900

Section 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, assessment work and correspond with the mining land holder. Questions about this form Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury,

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240.
- Please type or print in ink.

2.18304

1. Recorded holder(s) (Attach a list if necessary)

Name: WALTER HANUCH.	Client Number: 300751
Address: P.O. BOX 688	Telephone Number: 705. 445.6440
COLLINGWOOD, ON. L9Y.4E8.	Fax Number: 705. 445.6440
Name	Client Number
Address	Telephone Number
	Fax Number

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

Geotechnical: prospecting, surveys, assays and work under section 18 (regs) | Physical: drilling stripping, trenching and associated assays | Rehabilitation

Work Type: RECONNAISANCE MAPPING, PROSPECTING. DETAILED MAPPING. SAMPLING.	Office Use
	Commodity
	Total $ Value of Work Claimed: 8949
Dates Work Performed From: Day 03 Month 10 Year 97 To: Day 01 Month 12 Year 97	NTS Reference
Global Positioning System Data (If available) — Township/Area: KELVIN & KEMP.	Mining Division: Larder Lake
M or G-Plan Number: 9983 & 9084	Resident Geologist District: Kirkland Lake

Please remember to:
- obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name: WALTER HANUCH.	Telephone Number: 705. 445.6440
Address: P.O. BOX 688 COLLINGWOOD, ON L9Y.4E8	Fax Number: 705. 445.6440.
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

RECEIVED
MAR 27 1998 11:30
GEOSCIENCE ASSESSMENT OFFICE

4. Certification by Recorded Holder or Agent

I, WALTER HANUCH. (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent: W. Hanuch.		Date: March 25/98
Agent's Address: P.O. BOX 688 COLLINGWOOD, ON L9Y. 4E8	Telephone Number: 705 445.6440	Fax Number: 705. 445.6440

0241 (03/97)

DEEMED JUNE 25/98

[redacted]

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mini land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this for

W9880. 00197

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.		Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim. 2.18304	Value of work assigned to other mining claims.	Bank. Value of wo to be distributed at a future date
eg	TB 7827	16 ha	$26,825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	1234568	2	$ 8,892	$ 4,000	0	$4,892
1	1210813	4	4905	1600	3305	
2	1198160	3	2426	1200	1226	
3	1197769	4	809	809		
4	1198161	4	809	809		
5	1198162	4	0	0		
6	1210814	2	0	0		
7	1198163	12	0	4531		
8						
9						
10						
11						
12						
13						
14						
15						
	Column Totals		8949	8949	4531	

I, WALTER HANUSIK (Print Full Name), do hereby certify that the above work credits are eligible und subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing	Date
[signature]	March 25/98

6. Instruction for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish t prioritize the deletion of credits:

- ☐ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ☐ 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

RECEIVED
MAR 27 1998
GEOSCIENCE ASSESSMENT OFFICE

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

0241 (03/97)

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use): W9880.00197

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

2.18304

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
GEOLOGICAL MAPPING & SAMPLING	9 DAYS	514/DAY	4627
GEOTECHNICAL REPORT	6 DAYS	321	1926
Associated Costs (e.g. supplies, mobilization and demobilization).			
ANALYSIS		$35/SAMPLE	1120
COMPUTER DRAFTING			225
REPRODUCTION			75
Transportation Costs			
FUEL			450
Food and Lodging Costs			526
		Total Value of Assessment Work	8,949

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK × 0.50 = Total $ value of worked claimed.

Note:
- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

RECEIVED
MAR 27 1998
GEOSCIENCE ASSESSMENT OFFICE

Certification verifying costs:

I, WALTER HANYCH (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as HOLDER/AGENT (recorded holder, agent, or state company position with signing authority). I am authorized to make this certification.

Signature	Date
	March 25/98

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9846
Fax: (705) 670-5881

Visit our website at:
www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

August 12, 1998

WALTER HANYCH
PO BOX 688
COLLINGWOOD, ONTARIO
L9Y-4E8

Dear Sir or Madam:

Submission Number: 2.18304

Subject: Transaction Number(s):	W9880.00197	**Status** Approval After Notice

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Bruce Gates by e-mail at gatesb2@epo.gov.on.ca or by telephone at (705) 670-5856.

Yours sincerely,

ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Correspondence ID: 12646

Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.18304

Date Correspondence Sent: August 12, 1998 **Assessor:** Bruce Gates

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9880.00197	1210813	KELVIN, KEMP	Approval After Notice	August 08, 1998

Section:
12 Geological GEOL

The 45 days outlined in the Notice dated June 24, 1998 have passed.

Assessment work credit has been approved as outlined on the attached Distribution of Assessment Work Credit sheet.

Correspondence to:
Resident Geologist
Kirkland Lake, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):
WALTER HANYCH
COLLINGWOOD, ONTARIO

Distribution of Assessment Work Credit

The following credit distribution reflects the value of assessment work performed on the mining land(s).

Date: August 12, 1998

Submission Number: 2.18304

Transaction Number: W9880.00197

Claim Number	Value Of Work Performed
1210813	3,952.00
1198160	1,955.00
1197769	652.00
1198161	652.00
Total: $	7,211.00

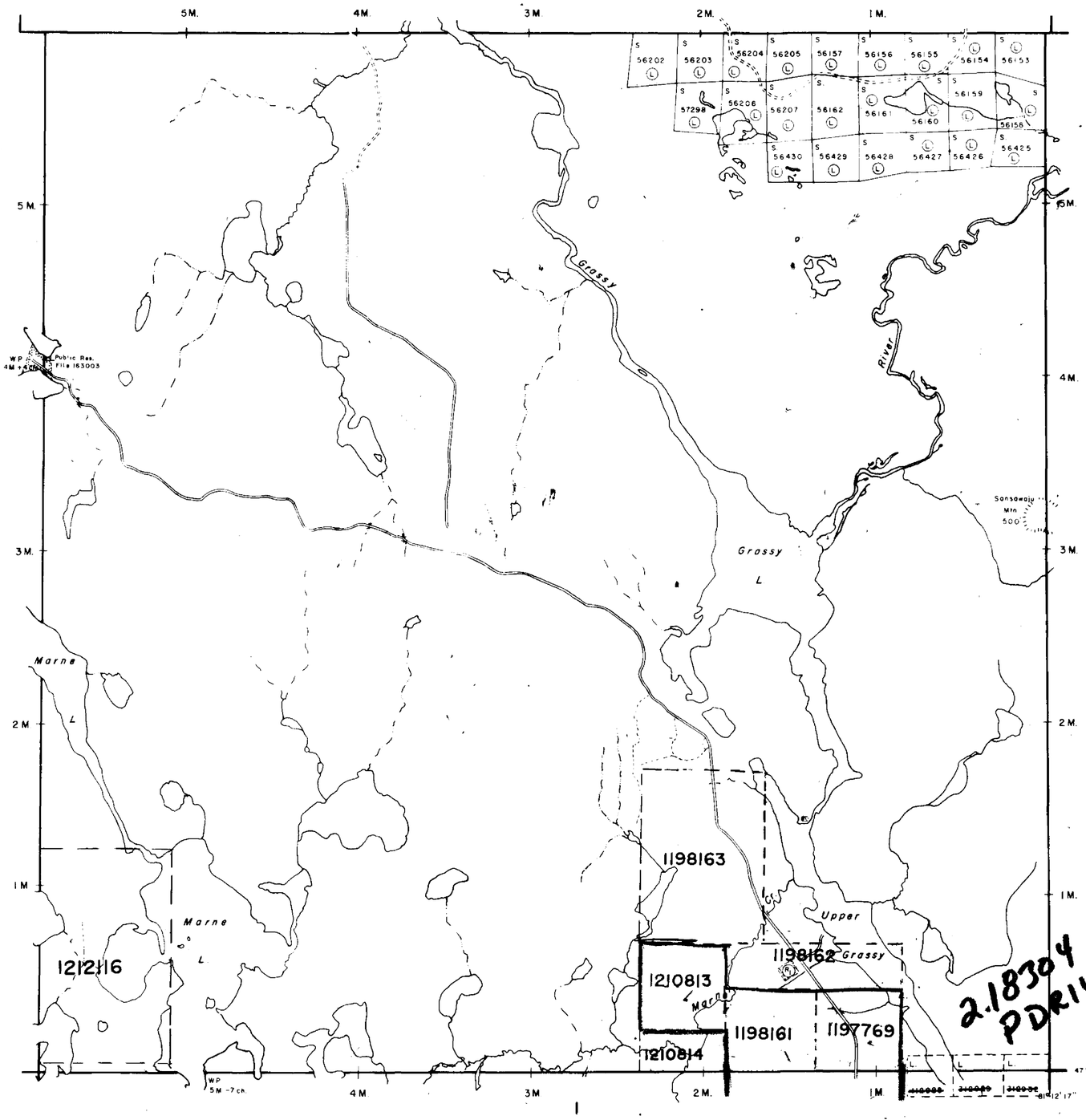
Correspondence ID: 12646

TRIM LINE

geology reference-COBALT

RESIDENT GEO.

SOTHMAN TWP. M.1121



BURROWS TWP. M.691

MOND TWP. M.870

KELVIN TWP. M.964

COPY OF THIS MYLAR ARCHIVED MAY 15/92
ARCHIVED NOV 1/96

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

■ Trapline Cabin

Areas withdrawn from staking under Section 43 of the Mining Act, R.S.O. 1970.

Order No.	File	Date	Disposition
(R) W.66/76	188517	19/11/76	S.R.O.

DATE OF ISSUE
JUN 03 1998
PROVINCIAL RECORDING OFFICE - SUDBURY

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

LEGEND

PATENTED LAND	(P) or ●
PATENTED FOR SURFACE RIGHTS ONLY	◔
LEASE	(L)
LICENSE OF OCCUPATION	L.O.
CROWN LAND SALES	C.S.
LOCATED LAND	Loc.
CANCELLED	C.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
HIGHWAY & ROUTE NO.	(17)
ROADS	
TRAILS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	

*used only with summer resort locations or when space is limited

TOWNSHIP OF

KEMP

DISTRICT OF
SUDBURY

LARDER LAKE
MINING DIVISION

SCALE : 1 INCH 40 CHAINS (1/2 MILE)

DR. K INAMOTO	PLAN NO. G.0984
DATE JUNE '71	

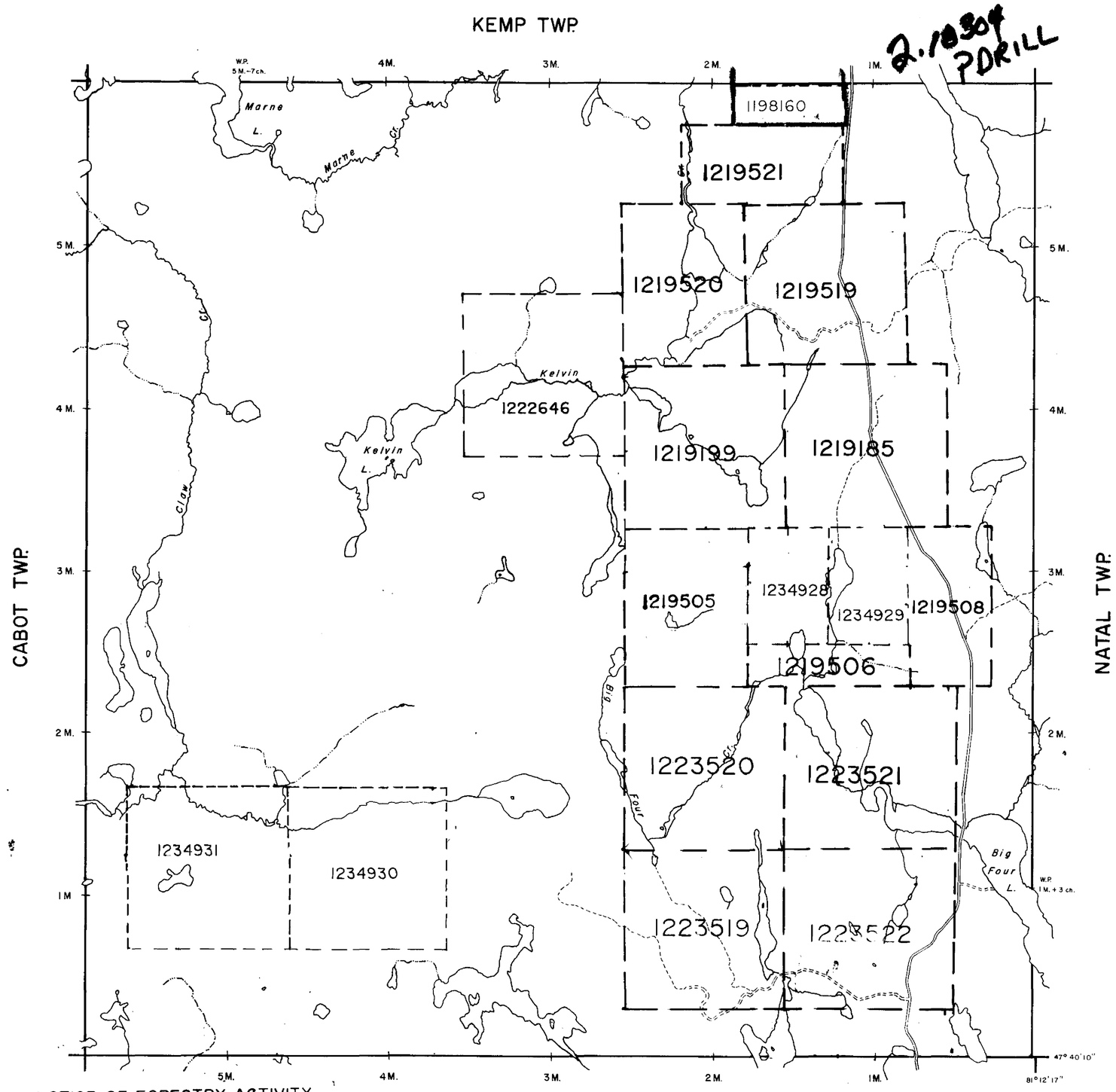
ONTARIO #3

MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

41P14SE2001 2.18304 KEMP 200

TRIM LINE

KEMP 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	OC
RESERVATION	(R)
CANCELLED	⊗
SAND & GRAVEL	(S)

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

METRES 0 200 1000 (1 KM) 2000 (2 KM)

DATE OF ISSUE
JUN 03 1998
PROVINCIAL RECORDING OFFICE - SUDBURY

TOWNSHIP

KELVIN

M.N.R. ADMINISTRATIVE DISTRICT

TIMMINS

MINING DIVISION

LARDER LAKE

LAND TITLES / REGISTRY DIVISION

TIMISKAMING

Ontario Ministry of Natural Resources — Ministry of Northern Development and Mines

Date	Number
MAY, 1992	G-983

NOTICE OF FORESTRY ACTIVITY

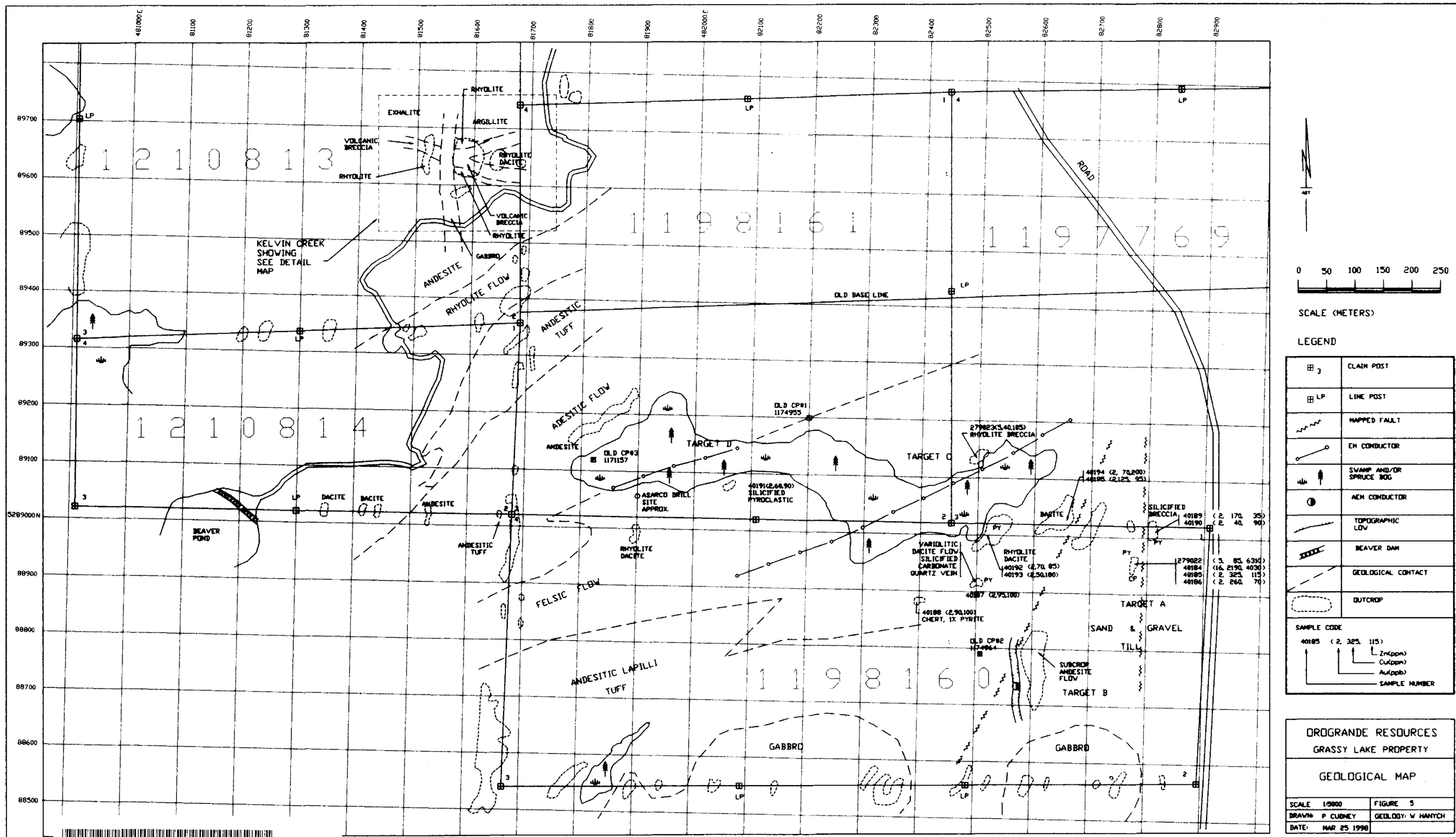
THIS TOWNSHIP / AREA FALLS WITHIN THE SHININGTREE MANAGEMENT UNIT AND MAY BE SUBJECT TO FORESTRY OPERATIONS. THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT: P.O. BOX 129, LOW AVENUE, GOGAMA, ONT., POM IWO, 705-894-2000

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

TRIM LINE

KEMP TWP.

G-983



LEGEND

⊞ 3	CLAIM POST
⊞ LP	LINE POST
~~	MAPPED FAULT
———	EM CONDUCTOR
	SWAMP AND/OR SPRUCE BOG
◑	AEM CONDUCTOR
	TOPOGRAPHIC LOW
	BEAVER DAM
	GEOLOGICAL CONTACT
	OUTCROP

SAMPLE CODE

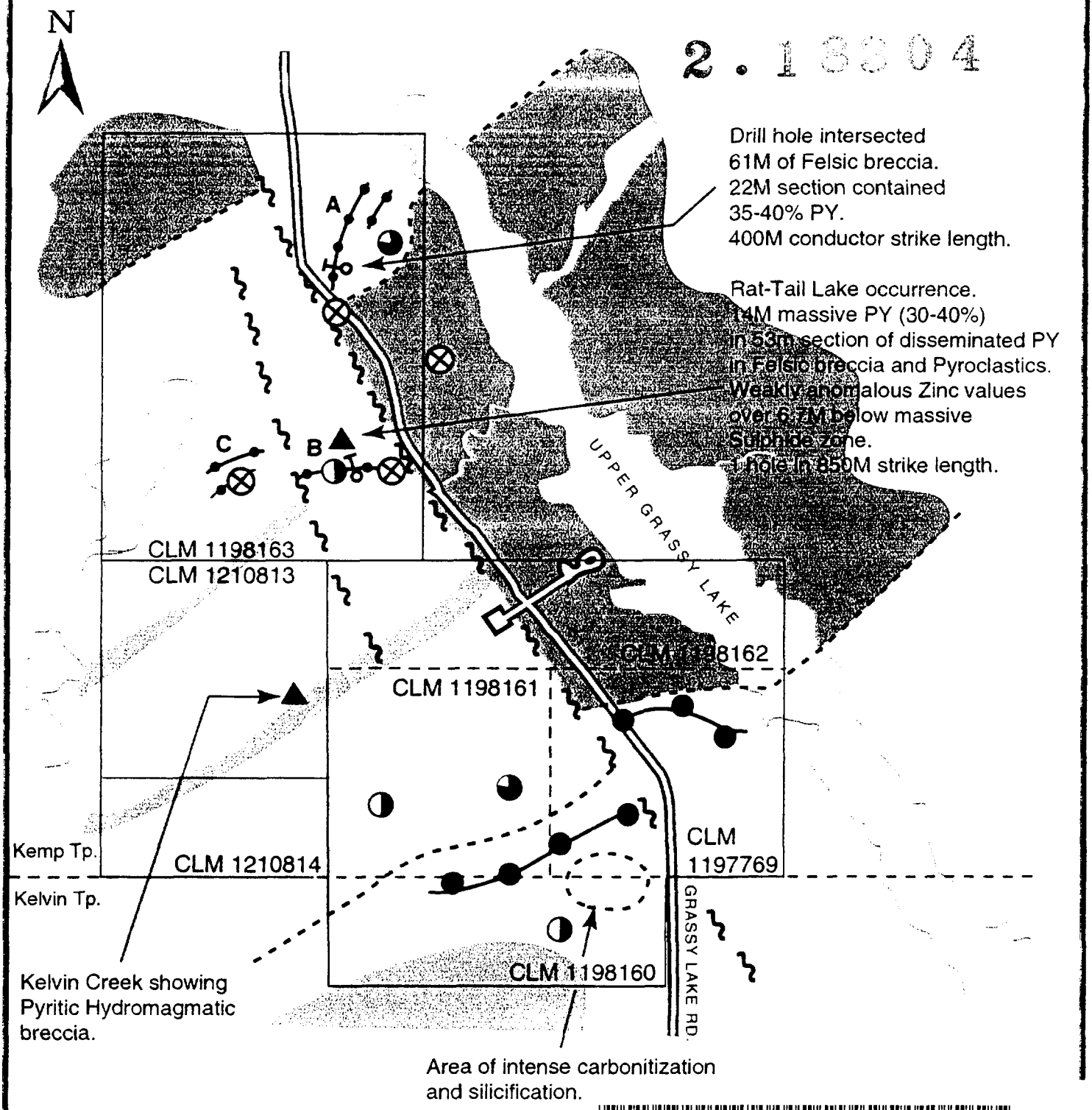
40185 (2, 325, 115)
- Zn(ppm)
- Cu(ppm)
- Au(ppb)
- SAMPLE NUMBER

DROGRANDE RESOURCES
GRASSY LAKE PROPERTY

GEOLOGICAL MAP

SCALE 1:5000	FIGURE 5
DRAWN P CUDNEY	GEOLOGY: W HANYCH
DATE: MAR 25 1998	

41P14SE2001 2.18304 KEMP



LEGEND

- Diamond Drill Hole
- Mineral occurrence
- AEM conductor
- HLEM conductor axis
- Fault
- Geological contact
- Felsic volcanic
- Mafic volcanic
- Intermediate volcanic
- Sediment
- Gabbro

41P14SE2001 2.18304 KEMP

230

Grassy Lake VMS Target
Compilation Map

Scale 1:20000

FIGURE 3