

GEOLOGICAL REPORT ON THE OFF-LAKE PROPERTY, SENN AND FLEMING TOWNSHIPS, ONTARIO.

PAUL A. STUDEMEISTER AGASSIZ RESOURCES LTD. SUITE 1602 65 QUEEN STREET WEST TORONTO, ONTARIO M5H 2M5

JULY 1, 1985

INTRODUCTION

The property is centered on Off Lake 50 km (30 miles) northwest of Fort Frances in the Kenora Mining District of Ontario (Figure 1). The property consists of 35 contiguous unpatented claims owned 100% by Agassiz Resources Ltd. of Toronto. The claim numbers are: K771991-99, K728022-23, K728025-27, K728029-33, K751001-15, and K772000.

The best access to the Off-Lake property is by road via

Highway 615 which branches off Highway 71 north of Emo. Highway 615

crosses the north part of the claim block. The south part is reached via gravel roads leading off Highway 615. Cabin and boat rentals are available on Off Lake at the Spring Lake Lodge.

A geological survey of the property was done between June 1 and June 20, 1985. The Precambrian bedrock was mapped on a grid of parallel lines spaced 122 m (400 ft) apart. The outcrops along the shores of Off Lake and Preacher Lake were mapped by canoe. A gold occurrence on claim #728026 was mapped at 1:600 scale and sampled for gold assay.

HISTORY

Evidence for early prospecting, for which no record exists, is seen in the old trenches and pits at the north end of Off Lake.

The first record of exploration in the area was in 1956 on the

A. F. Young property of three patented claims. Claims FF10201 and

S. 150

FF10199 adjoin the Agassiz Resources claim block on the west shore of Off Lake. Three diamond-drill holes totalling 347 m (1138.5 ft) were drilled in 1956, and another two holes totalling 73 m (240 ft) were subsequently drilled in 1960. All five holes encountered minor disseminations of pyrite, chalcopyrite, and magnetite.

In 1967 a block of 50 unpatented claims covering Preacher Lake and the north end of Off Lake was optioned to Noranda Exploration Company Ltd. The company carried-out a combined magnetometer, induced polarization, and resistivity survey over the claim block to explore for base metals. In 1968 three diamond-drill holes totalling 234 m (768 ft) were drilled to test geophysical conductors. The holes encountered disseminations of pyrite, pyrrhotite, and chalcopyrite; core samples from two holes assayed ≤0.17 g/t Au (≤0.005 oz/ton Au). Noranda Exploration Company has since dropped the option, and the claims were allowed to lapse.

In 1983 Agassiz Resources Ltd. staked, survayed, and prospected its block of 35 unpatented claims on Off Lake (Christie, 1983; 1984); about 60% of the property is under lake waters. Grab samples taken in 1984 from a gold occurrence on claim #728026 assayed up to 9.01 g/t Au (0.26 oz/ton Au). In 1984 a grid of 54 line-km (33.5 line-miles) with parallel lines at 122 m (400 ft) intervals was cut over the claim block. In winter 1985 Agassiz Resources conducted

a magnetic and VLF-EM survey over the grid (Boniwell, 1985).

The survey found magnetic anomalies due mainly to mafic/felsic lithology, and a complex pattern of VLF anomalies of speculative origin. Power lines crossing the claim block interfered with the geophysical measurements.

PROPERTY GEOLOGY

The geology of an 800 km² (300 square mile) area that includes the claim block held by Agassiz Resources was mapped in reconnaisance by the Ontario Division of Mines (Blackburn, 1976). The area is underlain by an Archean assemblage of mafic to felsic metavolcanic rocks invaded by plutonic rocks of mixed composition. The metavolcanic rocks generally strike north-northeast, dip 50° to 20° east, and young to the east. The Archean rocks are partly mantled by glacial tills and other sediments of Pleistocene age.

The Archean rocks underlying the Off-Lake property are in the lower-greenschist to lower-amphibolite facies of metamorphism. The mineral assemblage varies from quartz + plagioclase + biotite + epidote + hornblende to quartz + albite + calcite + white mica + chlorite + actinolite. Epidote + hornblende rocks are harder, massive, and have a dark-brown amphibole whereas equivalent chlorite + actinolite rocks are softer, foliated, and have instead a pale-green amphibole. The chlorite + actinolite assemblage prevails in the metavolcanic rocks at the north end of the property (Figure 3). Elsewhere

on the property, the Archean rocks have an epidote + hornblende or a mixed assemblage; e.g. have a paucity of chlorite, calcite, actinolite, and white mica. The metamorphic transition is gradational across tens or hundreds of meters along the power line north of Off Lake.

Mafic Suite

The mafic metavolcanic rocks are green coloured, fine to medium grained assemblages of amphibole, epidote, plagioclase, chlorite, calcite, and accessory biotite, magnetite, pyrite, sphene, and quartz. Four general types were mapped in the field: massive lava or sill, debris flow-breccia, pillowed lava, and lithic tuff. The massive lava or sill (unit 1a & 1b) is characterized by an ophitic-like texture on weathered surface caused by feldspar laths set in a mafic matrix of amphibole + epidote + chlorite. These rocks vary from fine grained (\$1 mm) to medium grained (>1-4 mm), sometimes across a single outcrop. Porphyritic-like textures, amphibole laths in an ophitic-like textured matrix, were observed in some outcrops of units 1a & 1b. The massive lava or sill has the appearance of gabbro or diabase in the field, but evidence for an intrusive origin (xenoliths, cross-cutting relations) was not observed. Structures to suggest an extrusive origin are also lacking in the field.

The debris flow-breccia (unit 1c) has felsic clasts supported by an ophitic-like textured matrix of amphibole + epidote + plagioclase +

chlorite. The felsic clasts are lapilli to block sized, angular to subangular shaped, and chaotic in distribution. The clasts are mainly massive fine grained with up to 10% quartz + feldspar porphyroids, resembling felsic unit 2b; some clasts are medium grained quartz-feldspar porphyry like unit 2a. The unit is exposed with massive lava or sill on the power line east of Off Lake.

The pillowed lava (unit 1d) was only observed at the northwest part of the property together with massive lava or sill. The pillows are irregular to round in shape and have pale-green salvages bearing epidote. The lithic tuff (unit 1e) refers to a fine grained, green to gray-green coloured rock that may be laminated or non-laminated. The lithic tuff commonly has lapilli-sized clasts of mafic, felsic, and locally siliceous rock.

Felsic Suite

The felsic rocks are gray coloured, fine to medium grained assemblages of quartz, plagioclase, epidote, white mica, and accessory biotite, amphibole, chlorite, pyrite, calcite, and sphene.

Three general types were mapped in the field: quartz-feldspar porphyry, quartz felsite, and pelitic tuff. The quartz-feldspar porphyry (unit 2a) is a granular textured rock of 1 to 4 mm grain size. The proportion of quartz to feldspar blasto-phenocrysts varies and an attempt to map variations in the field proved futile. The mafic minerals are 10% to 25% with biotite, and to a lesser extent, amphibole and chlorite;

pyrite is <1%.

The following suggest an intrusive origin for the quartzfeldspar porphyry (unit 2a):

- the granular texture and lack of volcanic lapilli or banding suggestive of an extrusive origin;
- 2) scattered block-sized xenoliths of mafic rock (Preacher Lake, Off Lake, along the power line);
- 3) dikes traverse the mafic suite (Preacher Lake and east of Off Lake);
- 4) contacts exposed on outcrop tend to be irregular in shape and attitude;
- 5) scattered outcrops of intrusive breccia occur on the power line east of Off Lake.

The intrusive breccia has a granular textured, quartz-feldspar matrix enclosing lapilli to block-sized clasts of mafic rock resembling unit 1; stringers of porphyry from the matrix intrude many of the mafic clasts.

The quartz felsite (unit 2b) is an aphanitic felsic rock with 1% to 20% quartz porphyroids of 1-4 mm size. The groundmass is an assemblage of fine grained quartz + epidote + plagioclase with minor white mica, biotite, chlorite, and up to 10% pyrite. These rocks are locally traversed by stockworks with 5% to 10% pyrite and <1% chalcopyrite. Many outcrops of quartz felsite have granular textures on weathered surfaces, resembling unit 2a. However, on fresh surfaces the quartz felsite has an aphanitic texture unlike unit 2a, with disseminated quartz porphyroids.

The quartz felsite lacks textures or structures to prove an extrusive or an intrusive origin. It is thought that the quartz felsite is partly extrusive because it occurs intercalated with pelitic tuff (unit 2c) and clasts resembling it occur in the debris flow-breccia (unit 1d). It appears from its distribution that the quartz felsite is a volcanic or subvolcanic phase of the quartz porphyry that experienced hydrothermal alteration, possibly capping a felsic dome or stock.

The pelitic tuff (unit 2c) is a fine grained, foliated rock of quartz + white mica + plagioclase with up to 10% disseminated pyrite. Other minerals found locally are fuchsite, talc, carbonate, and trace chalcopyrite. The pelitic rock locally appears banded and has felsic clasts; it occurs near the north end of Off Lake. Samples of pyrite-bearing quartz felsite and pelitic tuff were assayed for gold during the 1984 and 1985 field season. The two felsic units are generally slightly anomalous in gold content around Off Lake; gold content ranged from 1 ppb to 100 ppb Au. These values are not economic, but represent concentrations up to 50 times background (Christie, 1984; Table 1).

GOLD OCCURRENCE

The only known gold occurrence on the property is on Off Lake in claim #728026 (Figure 4). Gold occurs concentrated in a band of foliated felsic rock that strikes northeast, dips steeply to the

west, is 0.2 to 1 m (0.5 - 3 ft) wide, and traced along strike for 11 m (35 ft). The northeast tip plunges into the lake waters; the southwest end could not be traced along strike. The foliated band consists of fine grained quartz + white mica + pyrite rock with stringers and pods of sugary-textured quartz bearing pyrite. The band also has minor (\leq 5%) chlorite, plagioclase, and trace (\leq 1%) chalcopyrite. Pyrite is disseminated from 1% to 20%. The host rock is quartz-feldspar porphyry, medium grained granular textured quartz + plagioclase + biotite + epidote + white mica assemblage; there is no alteration phenomena associated with the contact between the foliated and host rock.

Samples were taken across the zone and its wallrocks; attempts to find the southwest continuation of the zone failed. The gold tenor across widths of 0.6 to 1.1 m (2 to 3.5 ft) varies from 2.06 to 4.30 g/t Au (0.06 to 0.13 oz/ton Au); an average along a 11 m (35 ft) strike lenght is 2.06 g/t Au (0.06 oz/ton Au). The wallrocks to the foliated zone are not auriferous (Table 1). The 1985 results confirm the erratic tenor of the foliated zone suggested by the assay results of grab samples taken in 1984 by Agassiz Resources (Christie, 1984).

CONCLUSION

The Archean geology of the Off-Lake property is summarized as follows. A mafic volcanic sequence is intruded by a quartz-feldspar porphyry pluton with a margin of quartz felsite and pelitic tuff. The margin is a partly extrusive phase of the pluton affected by hydrothermal alteration. The only known gold occurrence on the property appears to be a xenolithic band of the marginal phase engulfed by the porphyry during intrusion.

The economic potential of the property is low given the low, erratic gold tenor of the marginal phase. The gold occurrence on claim #728026 is narrow (≤ 1 m wide), low in gold tenor (~ 2.06 g/t Au), discontinuous in strike lenght (≤ 10 m?), and has barren wallrocks (≤ 0.17 g/t Au).

At this stage the recommendation is Agassiz Resources carry-out no further work on the Off-Lake property.

REFERENCES

- Blackburn, C. E. (1976): Geology of the Off Lake Burditt Lake area,
 Ontario Division of Mines, Geoscience Report 140, 62 p.
- Bonivell, J. B. (1985): Interpretation of geophysical data from the Off Lake grid, Kenora Mining Division, Ontario, Excalibur International Consultants Ltd., Company report, 12 p.
- Christie, B. J. (1983): The Off Lake Burditt Lake area reconnaisance project a summary of field work, Agassiz Resources Ltd., Company report.
- Christie, B. J. (1984): Preliminary report on the geology of the Off
 Lake claim group, Senn and Fleming Townships, Northwestern Ontario,
 Agassiz Resources Ltd., Company report, 31 p.

CERTIFICATE

- I, PAUL ALEXANDER STUDEMEISTER, of Sudbury in the Province of Ontario, certify as follows with respect to my report on the Off-Lake property dated July 1, 1985:
- I graduated from the University of California at Berkeley in 1977 with a B. A. degree in geology, and from the University of Western Ontario in 1982 with a Ph.D. degree in geology.
- 2) I carried-out the geological survey between June 1 and June 30, 1985 and was assisted in the field by Mr. John Ferguson of London, Ontario.

July 1, 1985 Sudbury, Ontario Paul A. Studemeister Geologist, Ph.D. Agassiz Resources Ltd. Suite 1602

Paul Studeneite

65 Queen Street Toronto, Ontario M5H 2M5

TABLE 1: Gold Assays of Samples from the Off-Lake Property (1985)

| | | | GOLD | ASSAY ¹ |
|----------------------|-------|--|-----------------|--------------------|
| SAMPLE NUMBER | TYPE | DESCRIPTION | (OZ PER TON/FT) | (GM PER TONNE/MT) |
| 3827 | Grab | Mafic pyritic rock | nil | nil |
| 3828 | Grab | Mafic pyritic schist | 0.005 | 0.17 |
| 3829 | Grab | Pyritic quartz-felsite | ni l | ni l |
| 3830 ² | Chips | Pyritic (5%) felsic rock | 0.07/3.5 | 2.40/1.1 |
| | | | 0.05/3.5 | 1.71/1.1 |
| 3831 ² | Chips | Pyritic (2%) felsic rock | 0.06/2 | 2.06/0.6 |
| 3832 | Chips | Pyritic (2%) felsic rock | 0.01/1.5 | 0.34/0.5 |
| 3833 | Grab | Pyritic (1-3% Py) quartz felsite | nil | nil |
| 3834 | Grab | Pyritic mafic rock with | nil | nil |
| | | trace (<1%) Po + Cpy | | |
| 3835 | Grab | Pyritic (5% Py) mafic rock | ni l | nil |
| 3836 | Grab | Pyritic (5% Py) mafic rock | nil | nil |
| 3837 | Grab | Pyritic felsic rock | 0.01 | 0.34 |
| 3838 | Float | Quartz felsite with 1-3% Py | 0.002 | 0.07 |
| 3839 | Float | Pyritic (5-10% Py) mafic schist | 0.005 | 0.17 |
| 3840 | Float | Pyritic (5% Py) mafic schis | t nil | nil |
| 3841 ² | Grab | Pyritic felsic rock | 0.02 | 0.67 |
| | | | 0.02 | 0.67 |
| 3842 ² | Chips | Quartz-felsdpar porphyry (wallrock) | 0.005/8 | 0.17/2.4 |
| 3843 ² | Chips | Pyritic (1-3% Py) felsic rock | 0.03/3 | 1.03/0.9 |
| 3844 ² | Chips | Quartz-feldspar porphyry (wallrock) | 0.002/~5 | 0.07/∿1.5 |
| 3845 ² | Chips | Pyritic (1-5% Py) felsic | 0.13/2.5 | 4.46/0.8 |
| | | rock | 0.12/2.5 | 4.11/0.8 |
| 3846 ² ,3 | Chips | Pyritic felsic rock | 0.06/35 | 2.06/10.7 |
| 3847 ² | Grab | Quartz-feldspar porphyry (wallrock) | 0.005 | 0.17 |
| 3848 ² | Grab | Quartz-feldspar porphyry | 0.005 | 0.17 |

| | 1 |
|------|--------|
| GOLD | ASSAY1 |

| SAMPLE NUMBER | TYPE | DESCRIPTION | (OZ PER TON/FT) | (GM PER TONNE/MT) |
|---------------|------|--|-----------------|-------------------|
| 3852 | Grab | Pyritic (3-5% Py) quartz felsite | 0.005 | 0.17 |
| 3853 | Grab | Pyritic (3-5% Py) quartz felsite | nil | nil |
| 3864 | Grab | Pyritic felsic rock | 0.002 | 0.07 |
| 3865 | Grab | Pyritic (10% Py) felsic rock with fuchsite | 0.002 | 0.07 |

⁽¹⁾ Gold assay in oz/ton by Swastika Laboratories Ltd (June 1985).

⁽²⁾ Sample from gold occurrence on claim #728026.

⁽³⁾ Chips taken along strike of pyritic felsic band, distance refers to strike length.

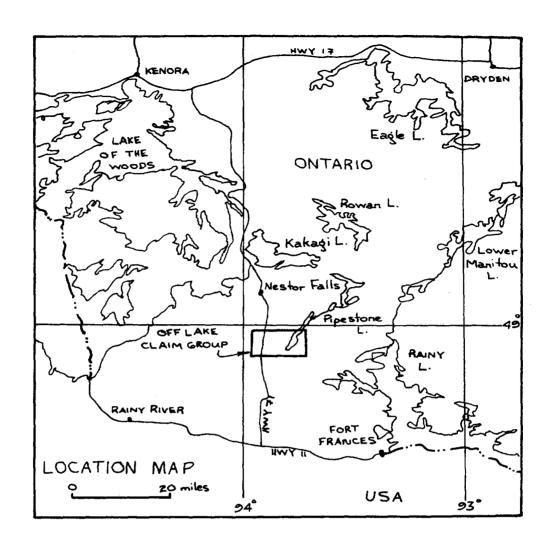


FIGURE 1: Location of the Off-Lake Property near Fort Frances, Ontario, Canada

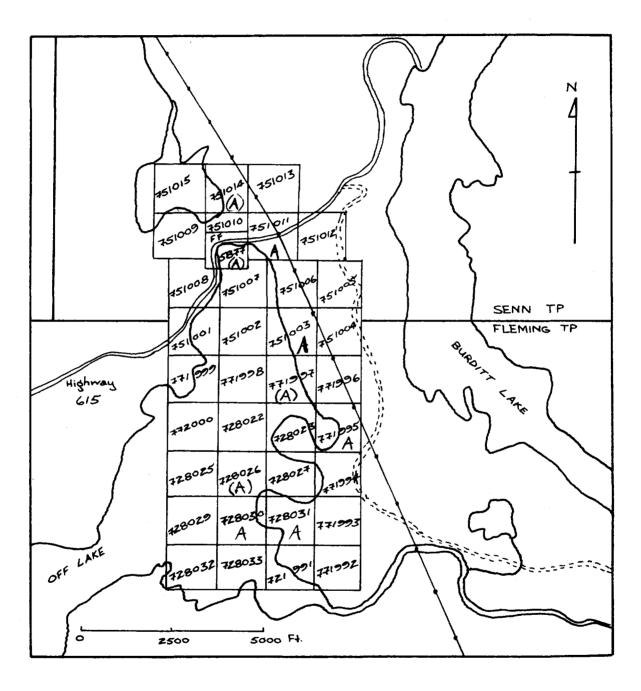


FIGURE 2: Detailed Location of the Off-Lake Property



Ministry of

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)





900

Minning Act Do not use shaded areas below SENN + FLENING TW GEOLOGICAL SURVEY M- 2068 Prosper for's Licence No. AGASSIZ RESOURCES 1602 - 65 QUEEN STREET W., TORONTO, ONTARIO Date of Survey (from & tc) Total Miles of line Cut AGASSIZ Name and Address of Author (of Geo Technical report)

| redits Requested per Each (| Claim in Columns at i | ight | Mining Claims Traversed (L | ist in numo | grical seque nc ol | |
|---|------------------------------------|-------------------|----------------------------|-------------------------|----------------------------|---------------------|
| Special Provisions | Geophysical | Days per Claim | Mining Claim Prefix Number | Expend. Days Cr. | Mining Claim Profis Number | Expend. Days Cr. |
| For first survey: | - Electromagnetic | | K 77 1991. | 1 & | K 751005 | |
| Enter 40 days, (This includes line cutting) | · Magnetometei | | 77 19920 | 1 | 751006 | |
| For each additional survey: using the same grid: | Radiometric | | 77 1993. | | 751007 | سنك |
| Enter 20 days (for each) | Other | | 77 1594. | | 751008 | |
| | Geological | 20 | 771995. | | 751009 | |
| | Geochemica! | | 771996. | | 751010 | |
| Man Days | Geophysical | Days per Claim | 771997. | 1 | 751011 | |
| and enter to pel to have | Electromagnetic | , | 771958. | 1 | 751012 | |
| SEP 031 | 085 Magnetometer | : | 7719990 | 1 | 751013 | ļ |
| SEL A 2 | - Radiometric | | 728022 | | 751014 | |
| MINING LANDS | SECOLUM | | 728023 | 1 | 751015 | |
| Williamen - | Geological | 8 | 728025. | 1 | 772 000 | |
| | Geochemical | | 728 026 | 1 | | L |
| Airborne Credits | | Days per Claim | 728027. | 1 | | |
| Note: Special provisions | Electromagnetic | | 728029 | | | |
| credits do not apply to Airborne Surveys. | Magnetometer | | 728 030 | 1 | | |
| | Radiometric | | 72803). | | KENORA MENING DIV. | |
| xpenditures (excludes powe | er stripping) | | 728032 | | 7) To be see as W 17 | |
| Type of Work Performed ASSAY (ROCK | + CHIP) | | 728033° | . 1 | AUG 1 4 1985 | العا |
| Performed on Claim(s) | | | 75 1001. | 1.25 | | T |
| | | | 751002 | 1.45 | | 4.5.G |
| | | | 751003 | | 500 Jevison | Jomes |
| Calculation of Expenditure Days | • | Total | 751004 | | See work The | |
| Total Expenditures | | s Credits | F37007* | L | | <u></u> |
| \$ 303,75 | ÷ [15] = [2 | O.25 | 72802 | 2 | Total number of mining | 35 |
| nstructions Total Days Credits may be ap | | | | | record of work | |
| choice. Enter number of days in columns at right. | s credits per claim se lect | ed | For Office Use O | ./ | Nining Recorder | # |
| | | | Recorder aug | 4/85 | ne john He | 4) |
| AUVUST 11,1985 P | and Staden or Agent (| Signature) | 1000,25 Date Approved | as Hec oroed | t | |
| Certification Verifying Repo | | | L | | <u> </u> | |

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true. Name and Postal Address of Person Certifying P. A. STUDENFISTER 1602 - 65 QUEEN ST. W. TORONTO M5H 2 M5

Date Certified AUDUST 11, 1985

Certified by (Signature)

1362 (81/9)

Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey GEOLOGICAL Technical Days Technical Days Credits No. of Claims Days per Claim Line-cutting Days **Total Credits** 35 280 40 280 8 Type of Survey Technical Days Line-cutting Days Technical Days Credits No. of Claims Days per Claim **Total Credits** X 7 = + Type of Survey Technical Days Credits Technical Days Line-cutting Days Days per Claim No. of Claims **Total Credits** Х = = Type of Survey Technical Days Technical Days Credits Line-cutting Days No. of Claims Days per Claim Total Credits

X



Name and Postal Address of Person Certifying

P.A. STUPEMEISTER /602 - 65 QUEEN ST.W.

Report of Work

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

TORONTO

1985

MSH

Consisted by (Signature)

Paul Studenes the

- 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.

| | | | Minin | g Act | | | shaded areas below. | |
|--|---------------------------|-------------------|-----------------------|---------------------|-----------------------|-------------|------------------------------------|--|
| lyne of Survey(s) | | | | - | Township o | | 71476 T | .< |
| GEOLOGICAL | SURVEY | | | | PEND | Prospecto | MING TWP | ٠٠. |
| Address AGASSIZ (| RESOURCES | LIMITE | W) | | | T | 1421 | |
| 1602-65 Q | UEEN STREE | T W | TORG | Date of Survey | UTARIO (from & to) | t \ | Total Miles of line | Cut |
| AGASSIZ RE | | | | Day Mo. | 35 20 C | No. Yr. | 33.5 | |
| P. A. STUDEMEIS | | | | N ST. W. | TORON | NO | M5H 21 | M5 |
| redits Requested per Each C | | | | laims Traversed (| | | ence) | |
| Special Provisions | Geophysical | Days per Claim | Prefix | fining Claim Number | Expend. Days Cr. | Prefix | lining Claim Number | Expend. Days Cr. |
| For first survey: | Electromagnetic | | | | Days Ci. | Frettix. | | Days Cr. |
| Enter 40 days. (This includes line cutting) | - Magnetometer | | LK. | 771991 | | | 751005 | |
| For each additional survey: | - Radiometric | | s a min inse | 771992 | <u> </u> | | 751006 | |
| using the same grid: | - Other | | | 771993 | | | 751007 | - |
| Enter 20 days (for each) | Geological | | | 771994 | <u> </u> | | 751008 | |
| | Geochemical | 20 | | 771995 | | | 751009 | |
| Man Days | | Days per | | 771996 | | | 751010 | ļ |
| Complete reverse side | Geophysical | Claim | | 771997 | | | 751011 | |
| and enter total(s) here | - Electromagnetic | | | 771998 | | | 751012 | ļ |
| | - Magnetometer | | | 771999 | <u> </u> | | 751013 | ļ |
| | - Radiometric | | | 728022 | | , s | 751014 | |
| | - Other | | | 728023 | | Į, į | 751015 | |
| | Geological | 8 | | 728025 | | | 772000 | |
| | Geochemical | | | 728026 | | | | |
| Airborne Credits | | Days per Claim | | 728027 | | | | |
| Note: Special provisions | Electromagnetic | | | 728029 | | ** | | |
| credits do not apply to Airborne Surveys. | Magnetometer | | | 728030 | | | | |
| | Radiometric | | | 728031 | | | | |
| xpenditures (excludes powe | er stripping) | | | 728032 | | | | |
| Type of Work Performed ACSAY | ROCK AND CI | الاعبد | | 728035 | | | | 1 |
| Performed on Claim(s) | ROCK AND C | 111 2 | | | | | | |
| | | | | 751001 | | | | |
| | | | ł | 751002 | | | | |
| Calculation of Expenditure Days | • | Total | | 751003 | | | | |
| Total Expenditures | | s Credits | L | 751004 | Ц | | | <u> </u> |
| \$ 303.75 | <u> </u> | 7.25 | | | | | mber of mining vered by this work. | 35 |
| Total Days Credits may be an choice. Enter number of days | | | | For Office Use C | Only | 7 | <u> </u> | |
| in columns at right. | coccurs per claim selecti | | Total Day Recorded | s Cr. Date Recorded | | Mining Re | corder | · · · · · · · · · · · · · · · · · · · |
| Date Reg | orded Holder or Agent (| Signature) | | Date Approved | as Recorded | Branch Di | irector | ······································ |
| JULY 2 1985 P | and Studener | 1 | | | | <u>L</u> | | |
| Certification Verifying Repo | rt of Work | | | | | | | |
| I hereby certify that I have a or witnessed same during and | | - | | | of Work annex | red hereto, | having performed th | ne work |

- PROCEDURE RECORD GEOCHEMICAL SURVEY

| anple, coc. mp |
|----------------|
| 3 |
| SAMPLE. |
| se antacted |
| See |
| taken |
| hich samples |
| from w |
| of claim: |
| Numbers |

| ANALYTICAL METHODS Values expressed in: per cent □ p. p. m. □ p. p. b. □ p. p. b. □ cu, Pb, Zn, Ni, Co, Ag, Mo, As, (circle) Others | nalysis (uction Metho ytical Metho ents Used | Field Laboratory Analysis No. (| Commercial Laboratory (27test. Name of Laboratory_Swast/lka t.m. t.m. Extraction MethodAnalytical MethodReagents Used | General FOLD ANALYSES BY SWASTIKA LAB. LTD. OF SWASTIKA, OUT. | |
|---|---|--|---|---|--|
| Total Number of Samples 27 Type of Sample D-CK+ CH-P (Nature of Material) Average Sample Weight - 1 L B Method of Collection MANVAL | Horizon Development Sample Depth Script FACE Terrain | Drainage Development. Estimated Range of Overburden Thickness | (Includes drying, screening, crushing, ashing) Mesh size of fraction used for analysis | General | |

_tests)



Ministry of Natural Resources

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

| | MINING CI AIMS TD AVE | List numerically | | | (prefix) (nur | | 16- ++1991-++1 | K-77200 | 4-728022-23 | |
|--|--------------------------------------|--|------------------------------|--|-------------------------------------|--|--|-------------------------|-------------------------|--|
| Type of Survey(s) VEOL ObicAL + Expenditures | Township or Area SENN + FLEMING TWPS | Claim Holder(s) AVASSIZ RESOURCES LTD. | 1602-65 QUEEN ST. W. TONONTO | Survey Company Ab-ASS12 RESOURCES LTD. | Author of Report P. A. STUDENEISTER | Address of Author 1602 - 65 QUEEN ST. W. TORUNTO | Covering Dates of Survey 01/06/85 30/06/85 | (linecutting to office) | Total Miles of Line Cut | |

_tests)

MINING CLAIMS TRAVERSED
List numerically

| SPECIAL PROVISIONS CREDITS REQUESTED | DAYS Geophysical per claim. |
|---|--------------------------------|
| NTED 40 done (in due de | -Electromagnetic |
| ine cutting) for first | -Magnetometer |
| urvey. | -Radiometric |
| SNTER 20 days for each | -Other |
| idditional survey using | Geological 20 |
| ame grid. | Geochemical |

If space insufficient, attach list

K-728025-

| Radiometric | Park Tweenth | 25812 | Claim Holder | | | | |
|-----------------|----------------------------------|-----------------|---------------------------------|--|--|--|--|
| Electromagnetic | DATE: #Wwsr 11, 1585_ SIGNATURE: | Qualifications. | Date | | | | |
| ter | UST 11, 15 | | rveys Type | | | | |
| Magnetometer. | DATE: AW | Res. Geol | Previous Surveys File No. Ty | | | | |

OLLICE ORE ONLY

837 (5/79)

TOTAL CLAIMS. : į : AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

| SELF POTENTIAL | , , , |
|---|--|
| Instrument | Kange |
| Survey Method | |
| Corrections made | |
| RADIOMETRIC | |
| Instrument | |
| Values measured | |
| Energy windows (levels) | |
| Height of instrument | Background Count |
| Size of detector | |
| Overburden | |
| | (type, depth – include outcrop map) |
| <u>OTHERS</u> (SEISMIC, DRILL WELL LOGGING ETC.) | ING ETC.) |
| Type of survey. | |
| Instrument | |
| Accuracy | |
| Parameters measured | |
| | |
| Additional information (for understanding results). | results) |
| | |
| | |
| AIRBORNE SURVEYS | |
| Type of survey(s) | |
| Instrument(s) | |
| Accuracy | (specify for each type of survey) |
| | (specify for each type of survey) |
| Alferalt used | |
| Navigation and flight path recovery method | P |
| | |
| Aircraft altitude | Line Spacing |
| Miles flown over total area | Over claims only |
| | CATALOGUE CATALO |



SWASTIKA LABORATURIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS → ASSAYERS → CONSULTANTS

Certificate of Analysis

| Certificate No. | 60284 | · | | Date: _ | June 2 | 20 1985 | |
|-----------------|---------------|----------------|------------|----------|---------------|-----------------|--|
| Received June | 14/85 | 37 | Samples of | ore | - | | |
| Submitted by | Agassiz Resou | rces Ltd., Tor | onto, Onta | rio Att' | n: Mr. I | P. Studemeister | |

| ed by <u>Agassi</u> | z Resources Ltd., | Toronto, Untario Attin: Mr. P. Studemeister |
|---------------------|-------------------|---|
| SAMPLE NO. | GOLD Oz./ton | SAMPLE NO. GOLD Oz./ton |
| 3827 | Nil | 3849 Nil |
| 3828 | 0.005 | 3852 0.005 |
| 3829 | Nil | 3853 Nil |
| 3830 | 0.07 0.05 | |
| 3831 | 0.06 | |
| 3832 | 0.01 | |
| 3833 | Nil | |
| 3834 | Nil | |
| 3835 | Nil | |
| 3836 | Nil | |
| 3837 | 0.01 | |
| 3838 | 0.002 | |
| 3839 | 0.005 | |
| 3840 | Nil | |
| 3841 | 0.02 0.02 | |
| 3842 | 0.005 | |
| 3843 | 0.03 | 3864 0.002 |
| 3844 | 0.002 | 3865 0.002 |
| 3845 | 0.13 0.12 | |
| 3846 | 0.06 | |
| 3847 | 0.005 | |
| 3848 | 0.005 | 4 LI |

G. Lebel — Manager



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0 TELEPHONE: (705) 642-3244

SWASTIKA LABORATORIES LTD. 1.5% late charge over 30 days (enmual rate 18%) 306.00 99.00 38/62 hor AMOUNT UNIT PRICE \$ 8.50 DESCRIPTION Oart. No. 60284 June 20/05 Torm: \$303.75 OFF LAKE-PROPERTY: 27 0,556 24.25 Att'n: Mr. P. Studemaister 27 x 8.50 = \$ 229.50 Myassiz Resources Limited 1904 - 372 Bay Street Sample bandling 27 + 2.75 = Tomonto, Ontardo Au Assays MSHI 2MB AIV U SPUIN une 21/85 BOLD TO 88

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS FACTURE / INVOICE

Total

ESTABLISHED 1928



TH THANKS

1985 10 18

Your File: 174-85 Our File: 2,8357

Mining Recorder
Ministry of Northern Affairs and Mines
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9

Dear Sir:

RE: Notice of Intent dated October 1, 1985 Geological Survey and Data for Assaying on Mining Claims K 771991, et al, in Fleming and Senn townships

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

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

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-4888

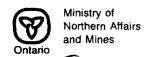
DK/mc

cc: Agassiz Resources Limited Toronto, Ontario

Mr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario P.A. Studemeister Toronto, Ontario

Resident Geologist Kenora, Ontario

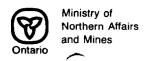
Encl.



Technical Assessment Work Credits

| | File 2.8357 |
|-----------------|--|
| Date 1985 10 01 | Mining Recorder's Report of Work No. 174-85 |

| Recorded Holder | |
|---|---|
| AGASSIZ RES | SOURCES LIMITED |
| Township or Area FLEMING ANI | SENN TOWNSHIPS |
| Type of survey and number of Assessment days credit per claim | Mining Claims Assessed |
| Geophysical | |
| Electromagnetic | \$303.75 SPENT ON ANALYSES OF SAMPLES TAKEN FROM MINING CLAIMS: |
| Magnetometer | |
| Radiometric | K 771995 - days 771997 - 728026• |
| Induced polarization | _days 728030 - 31 • |
| Other | 751003 • 751010 - 11 751014 |
| Section 77 (19) See "Mining Claims Assessed" col | |
| Geological | days |
| Geochemical | _ days |
| Man days Airborn | e 20 1/4 ASSESSMENT WORK DAYS ARE ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) |
| Special provision | of the mining act. |
| Credits have been reduced because of partial coverage of claims. | |
| Credits have been reduced because of correction to work dates and figures of applicant. | ons |
| | |
| Special credits under section 77 (16) for the foll | owing mining claims |
| | |
| | |
| | |
| | |
| No credits have been allowed for the following i | nining claims |
| not sufficiently covered by the survey | insufficient technical data filed |
| | |
| | |
| | |



Technical Assessment Work Credits

| | | 1 |
|---|------------|-----------------------------|
| | | 2.8357 |
| D | ate | Mining Recorder's Report of |
| | 1985 10 01 | Work No. 174-85 |

| Recorded Holder | |
|------------------|----------------------------|
| | AGASSIZ RESOURCES LIMITED |
| Township or Area | |
| | FLEMING AND SENN TOWNSHIPS |

| FLEMING AND SENN T | TOWNSHIPS | |
|--|--|--|
| Type of survey and number of Assessment days credit per claim | Mining Claims Assessed | |
| Geophysical | | |
| Electromagnetic days | K 771991 to 97 inclusive 771999 | |
| Magnetometer days | 728023 728026 - 27 | |
| Radiometricdays | 728030 - 31 751001 | |
| Induced polarization days | 751003 to 06 inclusive 751008 to 15 inclusive | |
| Other days | 772000 | |
| Section 77 (19) See "Mining Claims Assessed" column | | |
| Geologicaldays | | |
| Geochemical days | | |
| 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 m | nining claims | |
| | | |
| | | |
| | | |
| | | |
| No credits have been allowed for the following mining cl | laims | |
| Not sufficiently covered by the survey insufficient technical data filed | | |
| | | |
| K 771998 728022 | | |
| 728025 | | |
| 728029 | | |
| 728032 - 33 | | |
| 751002 | | |
| 751007 | | |
| | | |

00/ 11/85

1985 10 01

Your File: 174-85 Our File: 2.8357

Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9
Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

5.E. Yundt Director

Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3

RD, KDK/mc

Encls.

cc: Agassiz Resources Limited Suite 1602 65 Queen Street West Toronto, Ontario M5H 2M5

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

cc: P.A. Studemeister
Suite 1602
65 Queen Street West
Toronto, Ontario
M5H 2M5



Notice of Intent for Technical Reports

1985 10 01

2.8357/174-85

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

1985 08 23 File: 2.8357

Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9

Dear Sir:

We received reports and maps on August 13, 1985 for a Geological Survey submitted under Special Provisions (credit for Performance and Coverage) and Data for Assaying on Mining Claims K 771991, et al, in Senn and Fleming Townships.

This material will be examined and assessed and a statement of assessment work credits will be issued.

We do not have a copy of the report of work which is normally filed with your office prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-4888

A. Barr:mc

cc: Agassiz Resources Limited
Suite 1602
65 Queen Street West
Toronto, Ontario
M5H 2M5
Attention: P.A. Studemeister

Mining Lands Section

Control Sheet

| TYPE OF SURVEY | GEOPHYSICAL GEOLOGICAL GEOCHEMICAL EXPENDITURE |
|------------------------|--|
| MINING LANDS COMMENTS: | |
| | |
| | - |
| | L Senn + Fleming> |
| Lad. | Jugardo |
| \ | Signature of Assessor |

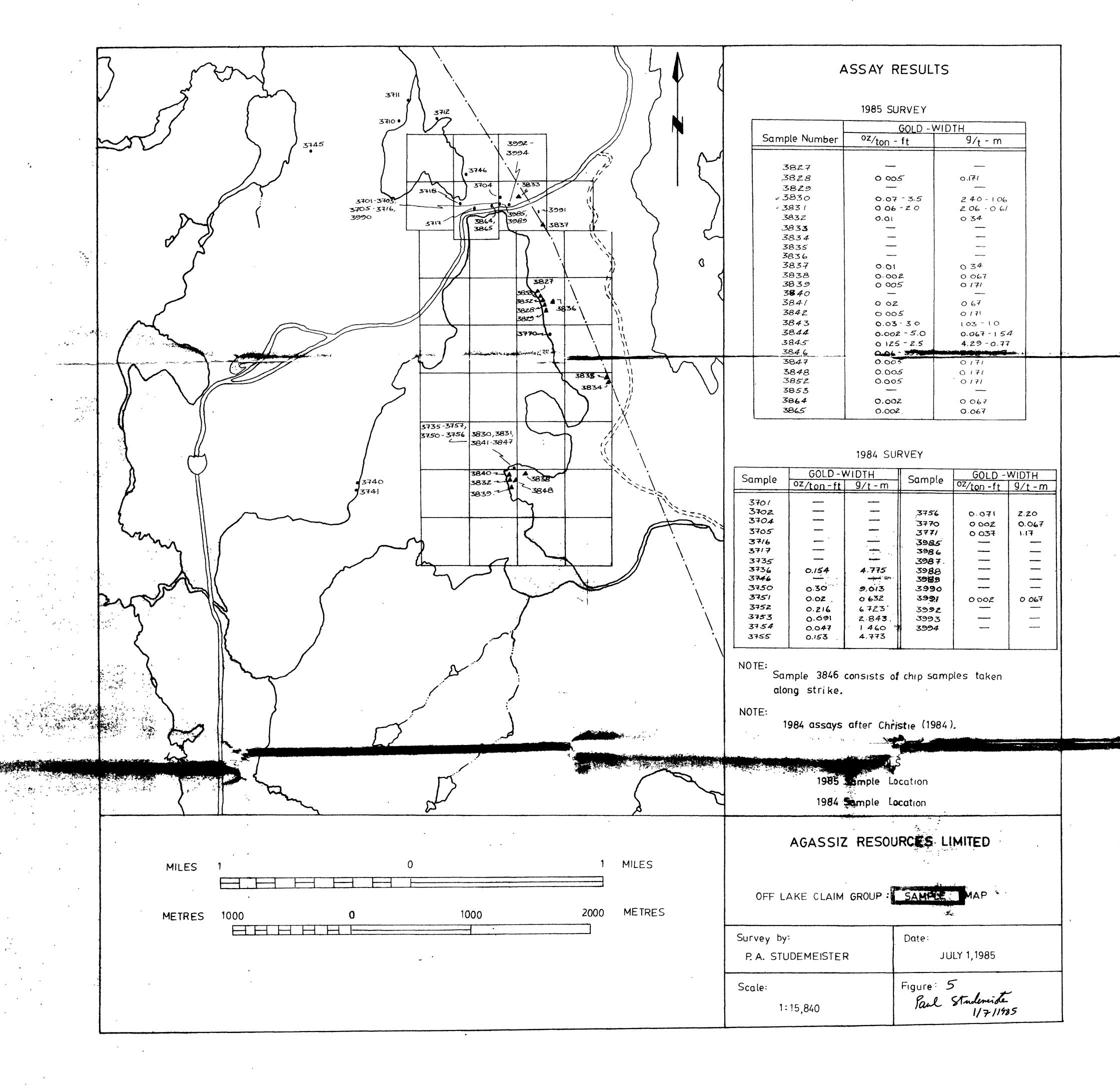
Date

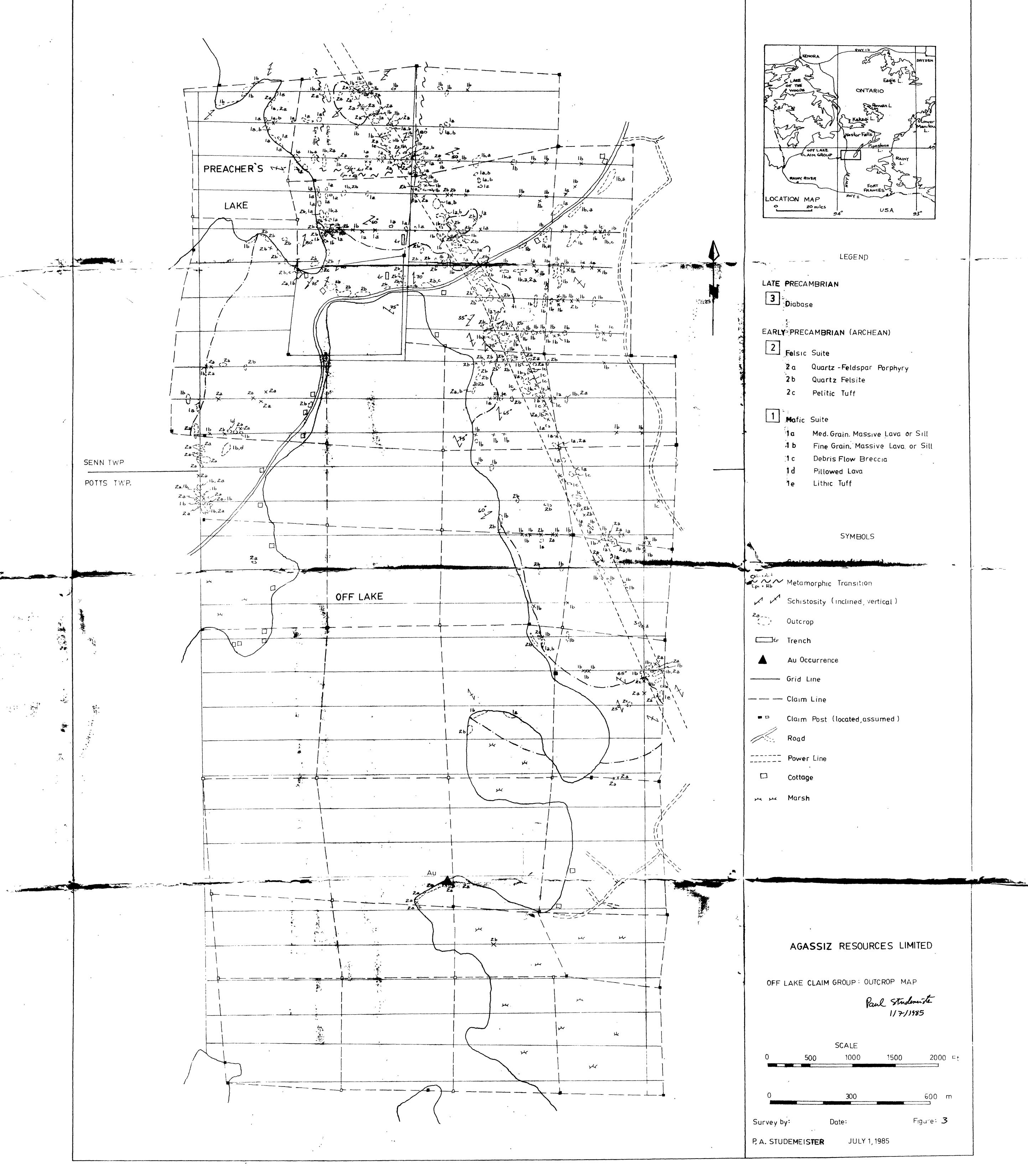
NOTES 111111 M 2103 . M 2068 SENN Tp 400 surface rights reservation along the shores of a lakes and tivers SANC & GRAVEL Gravel File 178418 RAINY LAKE INDIAN RESERVE No 17 B 210 Σ POTTS Effective as liner Hug 24,1984 FLEMING RAINY RIVER *A * , , * KENORA Ministry of Natural (A) 10 12 9 11 Resources SI H. Maying Pr KINGSFORD Tp M 2089

200

PANCY TO M 2015

M.2083





SOCIAMORO S RAFE EN ING

