

CATALOGUE OF BOREHOLES
1 - SCIENTIFIC GEOTHERMAL HOLES

Alan M. Jessop

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Crustal Studies
Division of Gravity, Geothermics & Geodynamics
Earth Physics Branch
Department of Energy, Mines & Resources

THE SCIENTIFIC GEOTHERMAL DRILLING PROGRAMME

From 1962 to 1969 the Geothermal Service of the Dominion Observatory (later renamed Earth Physics Branch) drilled seventeen holes for geothermal research, as part of the Upper Mantle Project. These holes provided an excellent nucleus of the heat flow and heat generation research programme, and results from these holes have been invariably good and well above the average for geothermal research. Four of the holes were drilled in association with universities and provided research facilities that would not otherwise have been available to the universities concerned. Three of these were located on campus, at Dalhousie University, Halifax, University of Western Ontario, London, and University of Manitoba, Winnipeg. The fourth was drilled north of Montreal in association with McGill University. In 1985 an eighteenth hole was drilled in cooperation with the Geothermal Energy Programme, at a site that was of interest to both Programmes.

The sites of all holes were chosen for the optimum quality of geothermal measurements. Other interests were considered where known and where not in conflict with the prime purpose. Other users have been encouraged, of both the holes and the cores, and for this reason they have been preserved wherever possible. However, because of space limitations, some of the cores have been abbreviated, and because of new construction, some of the holes have been destroyed.

The high quality geothermal measurements provided by these eighteen holes have been supplemented by many more measurements in holes drilled for other purposes, mainly for ore mineral or oil and gas exploration. This has permitted a large Canadian geothermal data-base to be assembled, but the nature of the borrowed holes leaves many areas of the country unsampled. From about 1975 onwards the applied programmes of geothermal energy research and northern transportation research have provided further opportunities for scientific data-gathering in holes drilled for these new special purposes. These Programmes will continue to work together for mutual benefit, but the question of the scientific and national benefits of a research drilling programme are evident and will continue to be discussed by proponents of all geophysical and geological disciplines.

This report gives data of the eighteen holes drilled within the Geothermal Programme. Use of holes or core by earth scientists is encouraged. Similar lists of holes of commercial origin may follow, but the extent to which these remain available for use by others is considerably more limited.

Details of measurements in these holes and others have been published in the following papers:

Jessop, A.M., Three measurements of heat flow in Eastern Canada.
Can.J.Earth Sci.,5,61-68,1968.
Hole 2.

Beck, A.E. and Judge, A.S., Analysis of heat flow data - detailed observations in a single borehole.
Geophys.J.R.Astr.Soc.,18,145-158,1969.
Hole 4.

Jessop, A.M. and Judge, A.S., Five measurements of heat flow in southern Canada. Can.J.Earth Sci.,8,711-716,1971.
Holes 1, 3 and 7.

Cermak, V. and Jessop, A.M., Heat flow, heat generation, and crustal temperature in the Kapuskasing area of the Canadian Shield.
Tectonophysics,11,287-303,1971.
Holes 11, 12 and 13.

Jessop, A.M. and Lewis, T.J., Heat flow and heat generation in the Superior Province of the Canadian Shield.
Tectonophysics,50,55-77,1978.
Holes 14, 15, 16 and 17.

Jessop, A.M., Souther, J.G., Lewis, T.J. and Judge, A.S., Geothermal measurements in northern British Columbia and southern Yukon Territory.
Can.J.Earth Sci.,21,599-608,1984.
Holes 8, 9 and 10.

1 - IDENTIFICATION AND POSITION

Name: Ottawa Number: 1
Location: 45 23.7N 75 42.9W 18 5026900 444000
Elevation: 84 m

2 - DRILLING OPERATIONS

Drilling Supervisor: A. M. Jessop
Drilling Company: Canadian Longyear

3 - SIZE AND DEPTH

Total depth: 602 m
Angle: -90
Diameter: 50 mm to 334 m, 47.6 mm to TD
Casing: AX to 34 m

4 - DATES OF OPERATIONS

Dates of drilling: 13.10.62 to 22.11.62
Dates of logging: Many
Last visit: Recent
Present condition: Cleaned to TD in 1983 and preserved

5 - CORES AND SAMPLES

Core taken: Total
Location of cores: EPB storage, Ottawa
Condition of cores: In 0.6 m cardboard boxes, varied.
Geological summary: Ottawa 14 m, Rockcliffe 82 m, Oxford 129 m,
March 200 m, Nepean 209 m, Precambrian 240 m.
Measurements made: Conductivity

6 - AVAILABILITY OF HOLE

Accessibility: Accessible to road vehicle
Notes for findings: On site of Earth Physics Br., Observatory Crescent,
Ottawa.
Further information: A. M. Jessop 613-995-5478

1 - IDENTIFICATION AND POSITION

| | | | |
|------------|-------------------|-------------------|---|
| Name: | Halifax | Number | 2 |
| Location: | 44 38.3N 63 35.5W | 20 4942700 453100 | |
| Elevation: | 46 m | | |

2 - DRILLING OPERATIONS

| | |
|----------------------|------------------------|
| Drilling Supervisor: | A. M. Jessop, R. Blais |
| Drilling Company: | Logan Brothers |

3 - SIZE AND DEPTH

| | |
|--------------|------------------------------------|
| Total depth: | 366 m |
| Angle: | -90 at 0 m, deviating to -45 at TD |
| Diameter: | 47.6 mm |
| Casing: | AX to 1.5 m |

4 - DATES OF OPERATIONS

| | |
|--------------------|--|
| Dates of drilling: | 13.01.63 to 24.02.63 |
| Dates of logging: | 26.02.63, 12.05.65 |
| Last visit: | 12.05.65, (xx.09.66, J. Wright) |
| Present condition: | Destroyed by new building construction |

5 - CORES AND SAMPLES

| | |
|---------------------|--------------------------------|
| Core taken: | Total |
| Location of core: | EPB storage, Ottawa |
| Condition of core: | Good |
| Geological summary: | Cambrian slate 1 m to TD |
| Measurements made: | Conductivity, core description |

6 - AVAILABILITY OF HOLE

| | |
|----------------------|---------------------------|
| Accessibility: | destroyed |
| Notes for finding: | |
| Further information: | A. M. Jessop 613-995-5478 |

1 - IDENTIFICATION AND POSITION

| | | | |
|------------|--------------------|-------------------|---|
| Name: | Penticton | Number | 3 |
| Location: | 49 19.8N 119 37.6W | 11 5467200 309200 | |
| Elevation: | 552 m | | |

2 - DRILLING OPERATIONS

| | |
|----------------------|-----------------|
| Drilling Supervisor: | A. M. Jessop |
| Drilling Company: | Boyles Brothers |

3 - SIZE AND DEPTH

| | |
|--------------|-----------------------------|
| Total depth: | 611 m |
| Angle: | -90 |
| Diameter: | 50 mm to 329 m, 38 mm to TD |
| Casing: | AX to 329 m, EX to TD |

4 - DATES OF OPERATIONS

| | |
|--------------------|--|
| Dates of drilling: | 07.03.63 to 29.03.63 |
| Dates of logging: | 30.05.63, 14.06.65, 04.08.67, 30.07.68 |
| Last visit: | 30.07.68 |
| Present condition: | Capped and preserved, small water flow from collar |

5 - CORES AND SAMPLES

| | |
|---------------------|------------------------------|
| Core taken: | Total |
| Location of cores: | EPB storage, Ottawa |
| Condition of cores: | Good |
| Geological summary: | White Lake 3 m, Marron 597 m |
| Measurements made: | Conductivity |

6 - AVAILABILITY OF HOLE

| | |
|----------------------|---|
| Accessibility | Accessible to road vehicle |
| Notes for finding: | Near the boundary of the site of the Penticton Astrophysical Observatory, in low area to right of road as approaching Observatory from north. |
| Further information: | A. M. Jessop 613-995-5478 |

1 - IDENTIFICATION AND POSITION

| | | | |
|------------|-------------------|------------|--------|
| Name: | London | Number | 4 |
| Location: | 43 00.6N 81 16.3W | 17 4761700 | 477900 |
| Elevation: | 248 m | | |

2 - DRILLING OPERATIONS

| | |
|----------------------|-------------------|
| Drilling Supervisor: | A. M. Jessop |
| Drilling Company: | Canadian Longyear |

3 - SIZE AND DEPTH

| | |
|--------------|-------------------|
| Total depth: | 594 m |
| Angle: | -90 |
| Diameter: | 46 mm |
| Casing: | BXW rods to 442 m |

4 - DATES OF OPERATIONS

| | |
|--------------------|--------------------------|
| Dates of drilling: | 18.09.63 to 21.10.63 |
| Dates of logging: | Many |
| Last visit: | Recent, by UWO personnel |
| Present condition: | Blocked near surface |

5 - CORES AND SAMPLES

| | |
|---------------------|---|
| Core taken: | Total |
| Location of core: | Univ. Western Ontario, London. |
| Condition of core: | Good |
| Geological summary: | Devonian 34 m, Silurian 329 m, Ordovician 472 m |
| Measurements made: | Conductivity, heat generation |

6 - AVAILABILITY OF HOLE

| | |
|----------------------|--|
| Accessibility | Accessible to road vehicle |
| Notes for finding: | Close to Dept. of Geophysics, U.W.O. |
| Further information: | A. M. Jessop or A. E. Beck (U.W.O.) 613-995-5478 519-679-3142 |

1 - IDENTIFICATION AND POSITION

| | | | |
|------------|-------------------|------------|--------|
| Name: | St. Jerome | Number | 5 |
| Location: | 45 49.0N 74 00.8W | 18 5073900 | 576700 |
| Elevation: | 140 m | | |

2 - DRILLING OPERATIONS

| | |
|----------------------|------------------|
| Drilling Supervisor: | A. M. Jessop |
| Drilling Company: | Heath & Sherwood |

3 - SIZE AND DEPTH

| | |
|--------------|-------------|
| Total depth: | 760 m |
| Angle: | -90 |
| Diameter: | 47.6 mm |
| Casing: | AX to 6.7 m |

4 - DATES OF OPERATIONS

| | |
|--------------------|-----------------------------------|
| Dates of drilling: | 08.02.64 to 13.04.64 |
| Dates of logging: | Several by McGill Univ., 01.11.74 |
| Last visit: | 01.11.74 |
| Present condition: | Preserved |

5 - CORES AND SAMPLES

| | |
|---------------------|-------------------------------|
| Core taken: | Total |
| Location of core: | McGill University |
| Condition of core: | Unknown |
| Geological summary: | Precambrian |
| Measurements made: | Conductivity, heat generation |

6 - AVAILABILITY OF HOLE

| | |
|----------------------|--|
| Accessibility | Accessible to 4WD vehicle, 100 m from road. |
| Notes for finding: | In grounds of Jesuit seminary, at foot of hill to right of road as approaching seminary. Access by permission of head of seminary. |
| Further information: | A. M. Jessop 613-995-5478 |

1 - IDENTIFICATION AND POSITION

| | | | |
|------------|-------------------|------------|--------|
| Name: | Roberval | Number | 6 |
| Location: | 48 31.8N 72 15.2W | 18 5378600 | 702800 |
| Elevation: | 149 m | | |

2 - DRILLING OPERATIONS

| | |
|----------------------|------------------|
| Drilling Supervisor: | R. Blais |
| Drilling Company: | Heath & Sherwood |

3 - SIZE AND DEPTH

| | |
|--------------|------------|
| Total depth: | 611 m |
| Angle: | -90 |
| Diameter: | 47.6 mm |
| Casing: | AX to 61 m |

4 - DATES OF OPERATIONS

| | |
|---------------------|----------------------|
| Dates of drilling: | 19.02.64 to 23.03.64 |
| Dates of logging: | 18.05.65, 03.11.67 |
| Last visit: | 03.11.67 |
| Present conditions: | Unknown |

5 - CORES AND SAMPLES

| | |
|---------------------|---------------------|
| Core taken: | Total |
| Location of core: | EPB storage, Ottawa |
| Condition of core: | Good |
| Geological summary: | Precambrian |
| Measurements made: | Conductivity |

6 - AVAILABILITY OF HOLE

| | |
|-----------------------|---|
| Accessibility | Accessible to road vehicle |
| Notes for finding: | On rock outcrop to right of approach road to Roberval Airport |
| Further informations: | A. M. Jessop 613-995-5478 |

1 - IDENTIFICATION AND POSITION

| | | | |
|------------|-------------------|-------------------|---|
| Name: | Winnipeg | Number | 7 |
| Location: | 49 48.7N 97 07.9W | 14 5519100 634400 | |
| Elevation: | 232 m | | |

2 - DRILLING OPERATIONS

| | |
|----------------------|--------------|
| Drilling Supervisor: | A. M. Jessop |
| Drilling Company: | Midwest |

3 - SIZE AND DEPTH

| | |
|--------------|---------------------------------------|
| Total depth: | 610 m |
| Angle: | -90 |
| Diameter: | 47.6 mm |
| Casing: | NX to 166 m, BX to 188 m, AX to 193 m |

4 - DATES OF OPERATIONS

| | |
|--------------------|----------------------|
| Dates of drilling: | 24.05.64 to 24.07.64 |
| Dates of logging: | Many |
| Last visit: | 20.07.81 |
| Present condition: | Preserved |

5 - CORES AND SAMPLES

| | |
|---------------------|---|
| Core taken: | Total, except for Winnipeg sandstone |
| Location of core: | Provincial storage, Winnipeg |
| Condition of core: | Unknown |
| Geological summary: | Red River 18 m, Winnipeg 133 m, Precambrian 190 m |
| Measurements made: | Conductivity, heat generation, core description |

6 - AVAILABILITY OF HOLE

| | |
|----------------------|--|
| Accessibility | Accessible to road vehicle |
| Notes for finding: | Close to door of Geology Building, University of Manitoba. |
| Further information: | A. M. Jessop or D. Hall 613-995-5478, 204-474-9371 |

1 - IDENTIFICATION AND POSITION

| | | | |
|------------|--------------------|------------|--------|
| Name: | Dease Lake | Number | 8 |
| Location: | 58 38.9N 130 00.6W | 09 6501100 | 441400 |
| Elevation: | 829 m | | |

2 - DRILLING OPERATIONS

| | |
|----------------------|--------------|
| Drilling Supervisor: | A. M. Jessop |
| Drilling Company: | Midwest |

3 - SIZE AND DEPTH

| | |
|--------------|----------|
| Total depth: | 291 m |
| Angle: | -90 |
| Diameter: | 47.6 mm |
| Casing: | AX to TD |

4 - DATES OF OPERATIONS

| | |
|--------------------|------------------------------|
| Dates of drilling: | 05.06.66 to 12.07.66 |
| Dates of logging: | 06.08.66, 18.07.67, 30.07.68 |
| Last visit: | 30.07.68 |
| Present condition: | Unknown |

5 - CORES AND SAMPLES

| | |
|---------------------|---|
| Core taken: | Total |
| Location of cores: | GSC storage, Vancouver |
| Condition of cores: | Abbreviated |
| Geological summary: | Permian Phyllites, 3 m to TD |
| Measurements made: | Conductivity, heat generation, core description |

6 - AVAILABILITY OF HOLE

| | |
|----------------------|---|
| Accessibility | Accessible within 100 m by road vehicle |
| Notes for findings: | East of Hwy 37 and North of Half Moon Creek. Take trail off road at top of rise from bridge, for approx. 100m and walk down bank towards creek. |
| Further information: | A. M. Jessop, T. J. Lewis, or J. G. Souther 613-995-5478, 604-656-8210, 604-666-0528 |

1 - IDENTIFICATION AND POSITION

Name: Hotailuh Number 9
Location: 58 09.6N 129 51.9W 09 6446600 449100
Elevation: 1170 m

2 - DRILLING OPERATIONS

Drilling Supervisor: A. M. Jessop
Drilling Company: Midwest

3 - SIZE AND DEPTH

Total depth: 427 m
Angle: -90
Diameter: 47.6 mm
Casing: AX to TD

4 - DATES OF OPERATIONS

Dates of drilling: 18.07.66 to 07.09.66
Dates of logging: 11.09.66, 24.07.67, 30.07.68, 09.09.72
Last visit: 09.09.72
Present condition: Unknown

5 - CORES AND SAMPLES

Core taken: Total
Location of core: GSC storage, Vancouver
Condition of core: Abbreviated
Geological summary: Granitic intrusives of Hotailuh Batholith
Measurements made: Conductivity, heat generatio, core description

6 - AVAILABILITY OF HOLE

Accessibility: Accessible within 100 m by road vehicle
Notes for findings: About 100 m west of Hwy 37, 7 km south of Gnat Lakes.
Further information: A. M. Jessop, T. J. Lewis or J. G. Souther
613-995-5478, 604-656-8210, 604-666-0528

1 - IDENTIFICATION AND POSITION

Name: Buckley Lake Number 10
Location: 57 53.6N 130 51.3W 09 6418100 390000
Elevation: 899 m

2 - DRILLING OPERATIONS

Drilling Supervisor: T. J. Lewis
Drilling Company: Midwest

3 - SIZE AND DEPTH

Total depth: 427 m
Angle: -90
Diameter: 47.6 mm
Casing: AX to TD

4 - DATES OF OPERATIONS

Dates of drilling: 25.08.66 to 15.09.66
Dates of logging: 19.07.67, 18.06.71
Last visit:
Present condition: Unknown

5 - CORES AND SAMPLES

Core taken: Total
Location of core: GSC storage, Vancouver
Condition of cores: Abbreviated
Geological summary: Andesitic breccias and Greywackes
Measurements made: Conductivity, heat generation, core description

6 - AVAILABILITY OF HOLE

Accessibility: Accessible by helicopter or by aircraft to Buckley Lake and trail for approx 3 km.
Notes for findings: In clearing 50 m NW of small lake on saddle 2 km W of SW corner of Buckley Lake. 2 km ENE of Stinking Lake
Further information: A. M. Jessop, T. J. Lewis or J. G. Souther
613-995-5478, 604-656-8210, 604-666-0528

1 - IDENTIFICATION AND POSITION

| | | | |
|------------|-------------------|------------|--------|
| Name: | Cochrane | Number | 11 |
| Location: | 46 06.2N 80 56.6W | 17 5438700 | 504100 |
| Elevation: | 250 m | | |

2 - DRILLING OPERATIONS

| | |
|----------------------|------------------|
| Drilling Supervisor: | A. M. Jessop |
| Drilling Company: | Heath & Sherwood |

3 - SIZE AND DEPTH

| | |
|--------------|---------------|
| Total depth: | 474 m |
| Angle: | -90 |
| Diameter: | 47.6 mm to TD |
| Casing: | EX to 469 m |

4 - DATES OF OPERATIONS

| | |
|--------------------|----------------------|
| Dates of drilling: | 28.10.67 to 21.11.67 |
| Dates of logging: | 30.05.69 |
| Last visit: | 30.05.69 |
| Present condition: | Unknown |

5 - CORES AND SAMPLES

| | |
|---------------------|-----------------------------------|
| Core taken: | Total |
| Location of core: | EPB storage, Ottawa |
| Condition of core: | Good |
| Geological summary: | Gneisses of the Superior Province |
| Measurements made: | Conductivity, heat generation |

6 - AVAILABILITY OF HOLE

| | |
|----------------------|---|
| Accessibility | Close to road, closest approach by vehicle through field. |
| Notes for findings: | Leave Cochrane on Hwy 574, east for 1 km, north for 4 km, east for 4.5 km, on north side of road, at top of small rise and in corner of field |
| Further information: | A. M. Jessop 613-995-5478 |

1 - IDENTIFICATION AND POSITION

| | | | |
|------------|-------------------|------------|--------|
| Name: | Kapuskasing | Number | 12 |
| Location: | 49 25.0N 82 22.8W | 17 5474500 | 399900 |
| Elevation: | 230 m | | |

2 - DRILLING OPERATIONS

| | |
|----------------------|------------------|
| Drilling Supervisor: | A. M. Jessop |
| Drilling Company: | Heath & Sherwood |

3 - SIZE AND DEPTH

| | |
|--------------|-----------------------|
| Total depth: | 607 m |
| Angle: | -90 |
| Diameter: | 47.6 mm to TD |
| Casing: | Surface casing to 2 m |

4 - DATES OF OPERATIONS

| | |
|--------------------|----------------------|
| Dates of drilling: | 25.11.67 to 12.01.68 |
| Dates of logging: | 19.07.68, 28.05.69 |
| Last visit: | 28.05.69 |
| Present condition: | Unknown |

5 - CORES AND SAMPLES

| | |
|---------------------|-----------------------------------|
| Core taken: | Total |
| Location of core: | EPB storage, Ottawa |
| Condition of cores: | Good |
| Geological summary: | Gneisses of the Superior Province |
| Measurements made: | Conductivity, heat generation |

6 - AVAILABILITY OF HOLE

| | |
|----------------------|---|
| Accessibility | By walking through private farm. Ground wet. |
| Notes for findings: | Apply at farm 1.5 km east of Brunetville crossroad. Hole is about 500 m south of road in bush covered area. |
| Further information: | A. M. Jessop 613-995-5478 |

1 - IDENTIFICATION AND POSITION

| | | | |
|------------|-------------------|------------|--------|
| Name: | Hearst | Number | 13 |
| Location: | 49 41.4N 83 32.1W | 17 5507000 | 317200 |
| Elevation: | 260 m | | |

2 - DRILLING OPERATIONS

| | |
|----------------------|------------------|
| Drilling Supervisor: | A. M. Jessop |
| Drilling Company: | Heath & Sherwood |

3 - SIZE AND DEPTH

| | |
|--------------|----------|
| Total depth: | 658 m |
| Angle: | -90 |
| Diameter: | 47.6 mm |
| Casing: | EX to TD |

4 - DATES OF OPERATIONS

| | |
|--------------------|----------------------|
| Dates of drilling: | 17.01.68 to 08.03.68 |
| Dates of logging: | 20.07.68, 29.05.69 |
| Last visit: | 29.05.69 |
| Present condition: | Unknown |

5 - CORES AND SAMPLES

| | |
|---------------------|-----------------------------------|
| Core taken: | Total |
| Location of cores: | EPB storage, Ottawa |
| Condition of cores: | Good |
| Geological summary: | Gneisses of the Superior Province |
| Measurements made: | Conductivity, heat generation |

6 - AVAILABILITY OF HOLE

| | |
|----------------------|--|
| Accessibility | On private land, accessible to vehicle through light bush. |
| Notes for finding: | Drive east on Hwy 11 from Hearst for 8.2 km beyond river, north for 2 km and west for 1 km. Hole is on gentle rise, 100-200 m north of road. |
| Further information: | A. M. Jessop 613-995-5478 |

1 - IDENTIFICATION AND POSITION

| | | | |
|------------|-------------------|-------------------|----|
| Name: | Jackfish | Number | 14 |
| Location: | 48 51.5N 86 58.5W | 16 5411400 501800 | |
| Elevation: | 280 m | | |

2 - DRILLING OPERATIONS

| | |
|----------------------|------------------|
| Drilling Supervisor: | A. M. Jessop |
| Drilling Company: | Heath & Sherwood |

3 - SIZE AND DEPTH

| | |
|--------------|----------|
| Total depth: | 611 m |
| Angle: | -90 |
| Diameter: | 47.6 mm |
| Casing: | EX to TD |

4 - DATES OF OPERATIONS

| | |
|--------------------|------------------------------|
| Dates of drilling: | 19.03.68 to 18.05.68 |
| Dates of logging: | 22.07.68, 01.06.69, 16.08.70 |
| Last visit: | 16.08.70 |
| Present condition: | Unknown |

5 - CORES AND SAMPLES

| | |
|---------------------|-----------------------------------|
| Core taken: | Total |
| Location of core: | EPB storage, Ottawa |
| Condition of core: | Good |
| Geological summary: | Gneisses of the Superior Province |
| Measurements made: | Conductivity, heat generation |

6 - AVAILABILITY OF HOLE

| | |
|----------------------|---|
| Accessibility | Accessible to vehicle |
| Notes for finding: | Driving west on Hwy 17, 6 km beyond power line near Jackfish Lake, turn north on bush road. Hole is in small clearing on right after about 100 m. |
| Further information: | A. M. Jessop 613-995-5478 |

1 - IDENTIFICATION AND POSITION

| | | | |
|------------|-------------------|-------------------|----|
| Name: | Otoskwin River | Number | 15 |
| Location: | 51 49.5N 89 35.9W | 16 5744500 320900 | |
| Elevation: | 340 m | | |

2 - DRILLING OPERATIONS

| | |
|----------------------|------------------|
| Drilling Supervisor: | A. M. Jessop |
| Drilling Company: | Heath & Sherwood |

3 - SIZE AND DEPTH

| | |
|--------------|----------|
| Total depth: | 612 m |
| Angle: | -90 |
| Diameter: | 47.6 mm |
| Casing: | EX to TD |

4 - DATES OF OPERATIONS

| | |
|--------------------|----------------------|
| Dates of drilling: | 29.11.68 to 20.01.69 |
| Dates of logging: | 03.06.69, 14.08.70 |
| Last visit: | 14.08.70 |
| Present condition: | Unknown |

5 - CORES AND SAMPLES

| | |
|---------------------|-----------------------------------|
| Core taken: | Total |
| Location of core: | EPB storage, Ottawa |
| Condition of core: | Good |
| Geological summary: | Gneisses of the Superior Province |
| Measurements made: | Conductivity, heat generation |

6 - AVAILABILITY OF HOLE

| | |
|----------------------|--|
| Accessibility | Within 100 m by vehicle |
| Notes for findings: | Follow Hwy 99 north from Pickle Lake junction about 55 km to Otoskwin River crossing. Hole is about 30 m to left of road, 100 m beyond bridge. |
| Further information: | A. M. Jessop 613-995-5478 |

1 - IDENTIFICATION AND POSITION

Name: Minchin Lake Number 16
Location: 50 42.7N 90 28.8W 15 5620600 677900
Elevation: 395 m

2 - DRILLING OPERATIONS

Drilling Supervisor: A. M. Jessop
Drilling Company: Heath & Sherwood

3 - SIZE AND DEPTH

Total depth: 610 m
Angle: -90
Diameter: 47.6 mm
Casing: EX to TD

4 - DATES OF OPERATIONS

Dates of drilling: 01.02.69 to 12.03.69
Dates of logging: 04.06.69, 13.08.70
Last visit: 13.08.70
Present condition: Believed to have been destroyed by road reconstruction

5 - CORES AND SAMPLES

Core taken: Total
Location of core: EPB storage, Ottawa
Condition of core: Good
Geological summary: Gneisses of the Superior Province, komatiite layer
Measurements made: Conductivity, heat generation

6 - AVAILABILITY OF HOLE

Accessibility: Destroyed
Notes for finding:
Further information: A. M. Jessop 613-995-5478

1 - IDENTIFICATION AND POSITION

| | | | |
|------------|-------------------|------------|--------|
| Name: | English River | Number | 17 |
| Location: | 49 38.6N 91 19.3W | 15 5500100 | 621200 |
| Elevation: | 420 m | | |

2 - DRILLING OPERATIONS

| | |
|----------------------|------------------|
| Drilling Supervisor: | A. M. Jessop |
| Drilling Company: | Heath & Sherwood |

3 - SIZE AND DEPTH

| | |
|--------------|----------|
| Total depth: | 614 m |
| Angle: | -90 |
| Diameter: | 47.6 mm |
| Casing: | EX to TD |

4 - DATES OF OPERATIONS

| | |
|--------------------|----------------------|
| Dates of drilling: | 16.03.69 to xx.04.69 |
| Dates of logging: | 05.06.69, 15.08.70 |
| Last visit: | 15.08.70 |
| Present condition: | Unknown |

5 - CORES AND SAMPLES

| | |
|---------------------|-----------------------------------|
| Core taken: | Total |
| Location of cores: | EPB storage, Ottawa |
| Condition of cores: | Good |
| Geological summary: | Gneisses of the Superior Province |
| Measurements made: | Conductivity, heat generation |

6 - AVAILABILITY OF HOLE

| | |
|----------------------|--|
| Accessibility | Within 100 m by vehicle |
| Notes for findings: | Hole is in trees to west of Hwy 99, about 1 km south of the English River bridge, down road embankment and into an area of young trees (1969). |
| Further information: | A. M. Jessop 613-995-5478 |

1 - IDENTIFICATION AND POSITION

| | | | |
|------------|-------------------|------------|--------|
| Name: | Wedgeport | Number | 18 |
| Location: | 43 45.4N 66 00.0W | 20 4849000 | 258500 |
| Elevation: | 25 m | | |

2 - DRILLING OPERATIONS

| | |
|----------------------|------------------------------|
| Drilling Supervisor: | J. A. Leslie, under contract |
| Drilling Company: | Logan Drilling Ltd. |

3 - SIZE AND DEPTH

| | |
|--------------|-----------|
| Total depth: | 483 m |
| Angle: | -90 |
| Diameter: | 60 mm |
| Casing: | NW to 3 m |

4 - DATES OF OPERATIONS

| | |
|--------------------|--|
| Dates of drilling: | 03.01.85 to 16.01.85 |
| Dates of logging: | 16.01.86, 17.01.86, 29.01.86, 13.02.86 |
| Last visit: | 13.02.86 |
| Present condition: | Preserved |

5 - CORES AND SAMPLES

| | |
|---------------------|--------------------------------------|
| Core taken: | Total |
| Location of core: | N.S.D.M.E. storage, Stellarton, N.S. |
| Condition of core: | Good |
| Geological summary: | Granites of the Wedgeport batholith |
| Measurements made: | none so far |

6 - AVAILABILITY OF HOLE

| | |
|----------------------|---|
| Accessibility | Accessible to vehicle |
| Notes for findings: | South on Hwy 334 about 8 km from junction of Hwy 3, west on Black Pond Road for about 700 m. Hole is to south of road, 10 m from centre line. |
| Further information: | M. J. Drury or J. A. Leslie 613-995-5478, 902-835-5009 |