

DRILL CORE STORAGE PROGRAM

by

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During 1979, the Newfoundland Department of Mines and Energy started a diamond drill core collection and storage program. The primary objective of this program is to provide well maintained and representative collections of drill core samples from as many drilling programs as possible for the future use of the mineral exploration industry, government geoscientists, university geoscientists and other geotechnical people.

I. Drill Core Collection

During the 1981 field season, the program of diamond drill core collection from abandoned drill sites in Insular Newfoundland was completed. All drill core in Insular Newfoundland that had been released by exploration companies or other owners and was salvageable has been collected. This past field season, fourteen sites were checked and 8,722.6 m of diamond drill core was collected. To date, the collection program has accumulated 55,873.9 m of core. Figure 1 shows the location of sites from which this core has been collected and Table I provides a summary of collected core.

Table II presents a summary of diamond drill core which was not recoverable. This core was not recoverable because it had been either dumped, vandalized or rendered unidentifiable and useless because of exposure to weather conditions over a period of years.

A comparison of core collected (55,873.9 m) and nonrecoverable core (42,145 m) shows a recovery rate of only 57% of drill core abandoned at drill sites.

The Department of Mines and Energy is presently considering a number of measures which could increase the recovery rate of core drilled in this province.

Included in the measures under consideration are the following:

(i) Confidential storage of company drill core in our core libraries. Confidentiality would be tied to land status and would be similar to the terms and conditions of confidentiality which presently apply to assessment reports.

(ii) Assessment credits to exploration companies to cover the cost of delivering core to our core libraries or to a road site where it may be readily collected by the core storage personnel.

It is anticipated that these measures, if implemented, would be sufficient to greatly increase the recovery rate of drill core and thereby enhance our collection. If you have drill core in safe, well maintained company storage facilities, *e.g.* at mine sites, base camps or active exploration sites, core storage personnel would like you to contact them as soon as you no longer need it.

II. Drill Core Libraries

The Department of Mines and Energy will be operating three drill core libraries after the construction and renovation program has been completed. These libraries are located in St. John's, Pasadena and Goose Bay (Figure 2).

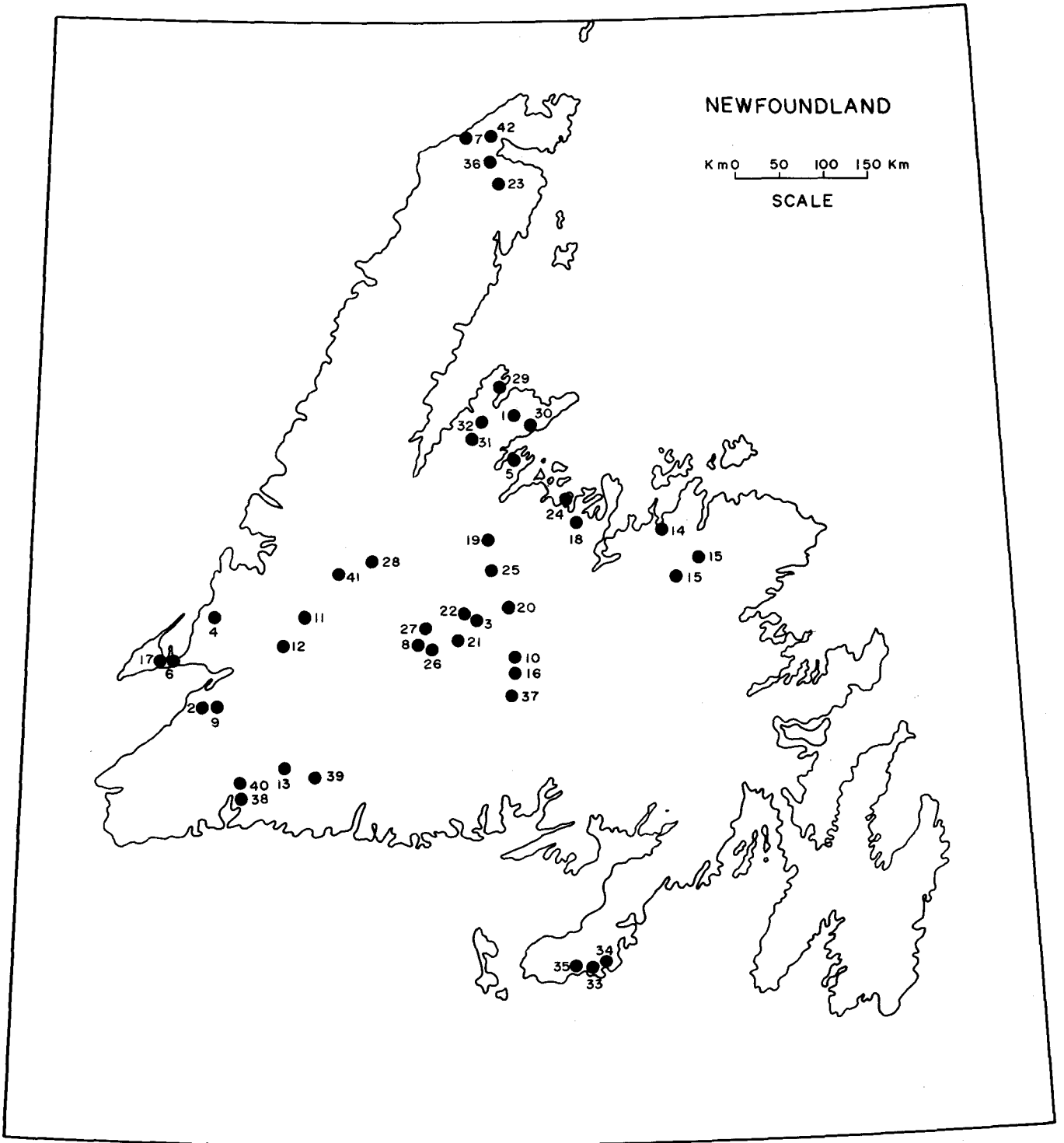


FIGURE I. CORE COLLECTION SITES

TABLE 1: SUMMARY OF CORE COLLECTED TO DATE

No.	Company	Year	Property	# of Holes	Total Metres
1	Advocate	1967	Rambler	2	1,193.0
2	Amax	1976	Fischells Area	2	1,420.3
3	Amoco	1978	Burnt Pond	4	609.6
4	Beth Canada	1978	Springer's Hill	10	911.7
5	Boylen-Cerro		Colchester	18	1,379.2
6	Canadian Ref.	1970	Aguathuna	13	850.1
7	Chevron	1979	Eddies Cove	11	481.6
8	Cominco-Hansa	1973(?)	Bobby's Pond	5	431.6
9	Hooker Chemical	1968	Fischells	1	173.4
10	HBOG	1978	Gt. Rattling Bk.	11	818.6
11	HBOG	1978	Reid Lot 223	5	306.3
12	HBOG	1978	Reid Lot 225	2	117.0
13	HBOG	1978	Top Pond	1	47.1
14	Internat. Mogul	1974	Campbellton Area	15	1,394.5
15	Internat. Mogul	1975	Gander Area	12	708.7
16	Minorex	1978	Atlantic Lake	6	439.5
17	Nfld. Mines Br.		Port au Port	?	811.5
18	Noranda	1972	Point Leamington	3	265.8
19	Noranda	1973	Gullbridge	1	54.9
20	Noranda	1975	Leonard's Lake	3	388.6
21	Noranda	1975-78	Tally Pond	2	489.2
22	Noranda	1978	Burnt Pond	2	165.0
08	Noranda	1978	Bobby's Pond	4	320.6
23	Shell	1975-76	Main Brook Area	32	1,859.3
24	Texas Gulf	1975	Seal Bay	8	1,104.9
19	Gullbridge	?	Gullbridge	213	12,473.9
25	Consol. Morr.	1976	Lake Bond	2	419.1
26	L.M. & E.	?	Lake Ambrose	6	647.7
27	Kerr Addison	1974-75	Victoria Area	5	655.3
28	Shawmont	1977-78	Hinds Brook	28	822.9
29	Advocate	?	Priests Showing	8	774.8
30	Advocate	?	Nippers Harbour	7	946.1
31	Advocate	1976	West Pond	3	144.7
32	Advocate	1975	Flatwater Pond	11	907.6
33	ALCAN	?	St. Lawrence	?	8,153.4
34	D.S. Robertson	?	Mt. Margaret Area	?	4,463.8
35	D.S. Robertson	?	Lawn Area	?	?
36	Noranda	?	Round Pond Area	?	?
37*	RIOCANEX	1976	Cold Spring Pond	1	30.0
38*+	Falconbridge		Strickland Property	?	4,427.2
39*+	Falconbridge	1981	Burgeo Road	16	1,059.2
40*	Long Lac Min.	1968	Strickland Property	18	975.3
41*	Minorex	1978-80	Deer Lake	25	1,993.3
42*	U.S. Borax	1979	Hidden Pond	11	237.6
				TOTAL:	<u>55,873.9 m</u>

* Collected in 1981

+ In temporary, Confidential Storage

TABLE II: SUMMARY OF NONRECOVERABLE CORE

Company	Year	Property	# of Holes	Total Metres
Asbestos Corp.	1946	Lewis Hills	6	614
Asbestos Corp.	1947	Lewis Hills	11	804
Asbestos Corp.	1947	Lewis Hills	5	178
Atlantic Coast Copper	1961	Lady Pond	4	310
Atlantic Coast Copper	1962	Lady Pond	4	396
Atlantic Coast Copper	1964	Lady Pond	1	122
Atlantic Coast Copper	1967	Little Bay	2	419
Atlantic Coast Copper	1968	Little Bay	5	783
Atlantic Coast Copper	1968	Little Bay Mine	15	4,264
Canadian Johns Manville	1976	Baie Verte-West Pond	18	1,778
COMINCO	1947	Tilt Cove	11	2,448
Kerr Addison Mines	1972	Crooked Pond Grid	3	267
Kerr Addison Mines	1972	Rambler South #1	3	219
Kerr Addison Mines	1972	Rambler South #3 Grid	?	31
Kerr Addison Mines	1972	Rambler South #2 Grid	?	61
Kerr Addison Mines	1973	Flatwater Pond Grid 'F'	2	175
Kerr Addison Mines	1973	Flatwater Pond Grid 'A'	1	115
Kerr Addison Mines	1973	Rambler West Grid #1	2	214
Kerr Addison Mines	1973	Rambler South Grid #1	3	363
Kerr Addison Mines	1973	Rambler South Grid #2	2	214
Kerr Addison Mines	1973	Crooked Pond Grid	4	541
Kerr Addison Mines	1973	Rambler South Grid #3	11	1,553
Kerr Addison Mines	1973	Green Cove Grid	1	90
Kerr Addison Mines	1973	Flatwater Grid G	1	98
Kerr Addison Mines	1973	South Brook Grid #1	1	152
Kerr Addison Mines	1973	Rambler South #3 Ext.	8	1,149
Long Lac Min. Expl.	1969	York Harbour	13	1,601
Long Lac Min. Expl.	1970	York Harbour	140	3,734
McIntyre Porcupine Mines	1968	Gull Pond	7	785
M.J. Boylen Eng. Co.	1956	Miles Cove	13	1,671
NALCO	1970	Sleepy Cove	3	136
NALCO	1956	Lockport	9	1,144
NALCO	1968	Lockport	3	699
New Jersey Zinc	1956	Lake Bond	21	4,016
New Jersey Zinc	1955	Lake Bond	6	207
New Jersey Zinc	1955	Lake Bond	4	591
Noranda	1975	Sandy Lake	2	183
Noranda	1969	Hinds Brook	1	65
Noranda	1974	Burnt Pond	10	1,365
Noranda	1975	Tally Pond	9	1,305
Noranda	1976	Tally Pond	7	969
Northern Canada Mines	1964	Hearn Property	4	347
Texas Gulf	?	Trail Pond	1	56
Allied Chemical Corp.	1972-73	Rocky Pond	2	405
Allied Chemical Corp.	1972-73	Anchor Droque	15	1,989
Allied Chemical Corp.	1972-73	Shearstick Brook	4	311
RIOCANEX	1976	Cold Spring Pond	4	634
New Jersey Zinc	1970	Main Brook Area	7	1,494
COMINCO	1966	Canada Bay	3	83
Long Lac Min. Expl.	1968	Strickland Property	?	620
NALCO	1954	Spar Pond	4	377

TOTAL: 42,145 m

FIGURE 2
PROVINCE OF
NEWFOUNDLAND

Mi 20 0 20 40 60 80 100 Mi

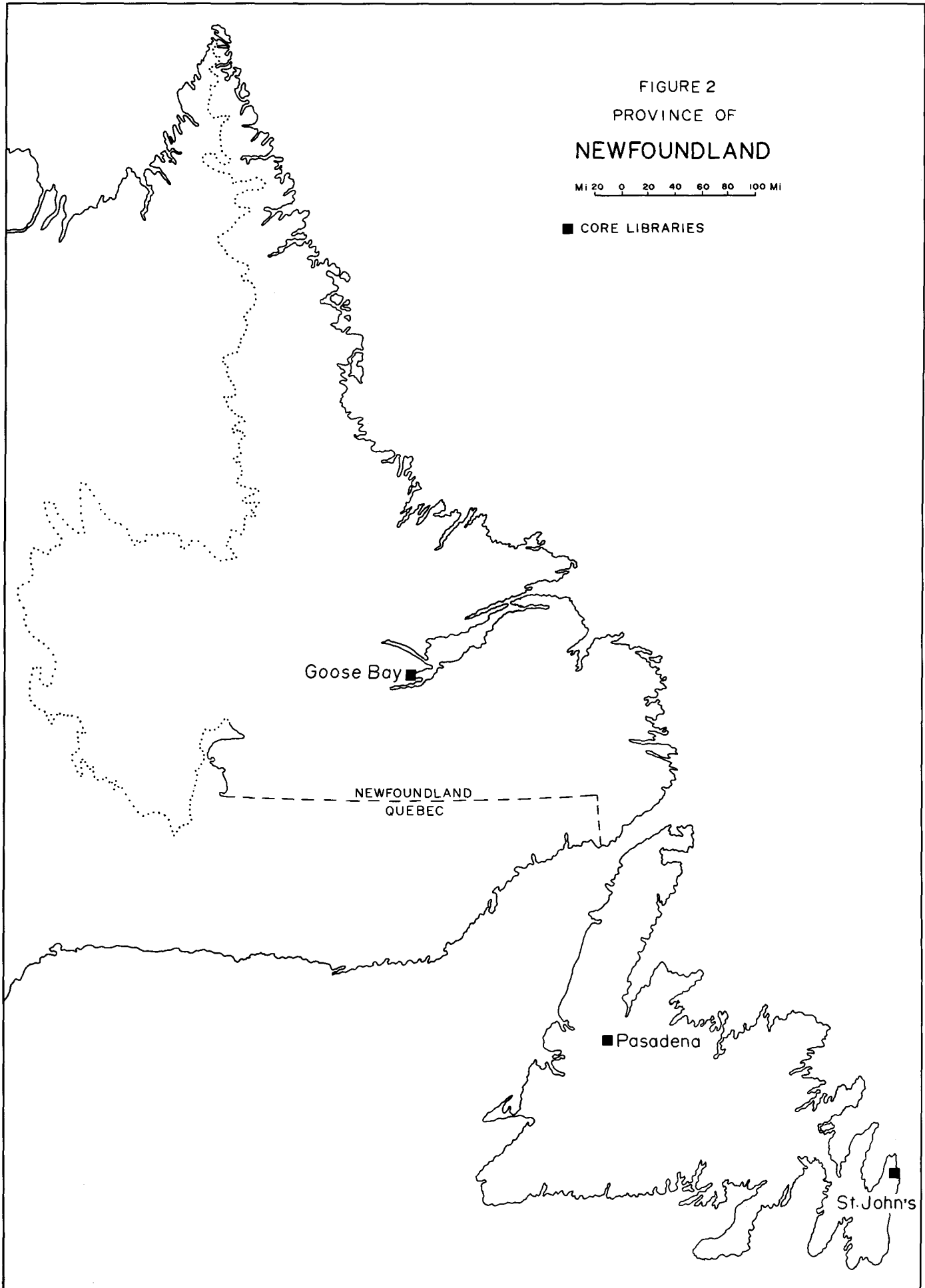
■ CORE LIBRARIES

Goose Bay ■

NEWFOUNDLAND
QUÉBEC

■ Pasadena

■ St. John's



The St. John's core library is now fully operational and is staffed on a full-time basis, except during the field season. Approximately 10,000 m of drill core has been cataloged and placed on the rack system in the St. John's library. Most of this core is from the St. Lawrence area. Drill hole logs and location maps have been prepared for cataloged core. The St. John's library contains rock cutting equipment, core splitters, a stereomicroscope, a magnetic susceptibility meter, a resistivity meter, an ultraviolet light and a McPhar TV-1 scintillometer. These facilities and equipment are available for use on approved projects by exploration geologists, university researchers, the staff of the Department and other interested persons.

The Pasadena core library is presently under construction and is expected to be operational by July, 1982. This library will contain equipment and facilities similar to the St. John's library, but will have a capacity of 200,000 m of core; the St. John's library has a capacity of about 60,000 m of core. The Pasadena library will have facilities for storing radioactive core and a humidity controlled room for storing salt core.

A contract was let in late 1981 for the renovation of an existing building (#54) in Goose Bay to convert it to a drill core library. This building will have an initial capacity of 60,000 m of drill core, with space available for future expansion. Renovations to this building are expected to be completed by the summer of 1982. The building is presently available for storage of drill core in parts of it not being renovated.

III. Future Plans

Future plans include moving drill core from temporary storage sites in Pasadena and Springdale into the Pasadena library and a drill core collection program in Labrador during the 1982 field season. A computerized diamond drill hole index (inventory) system is being developed, and drill hole logs and location maps will be made available in published form when all three core libraries are fully operational.

We encourage all companies now drilling or planning drilling programs to contact us about drill core storage. Store with us and save yourselves the cost of facilities.