

GEOHERMAL ENERGY

(April-July 1977)

*Contains
FY. 77/78 provisional funding
allocations.*

COORDINATION OF GEOHERMAL RESEARCH

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Division of Seismology and Geothermal Studies
Earth Physics Branch
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Coordination of Geothermal Research April-July 1977

A meeting of the Geothermal Coordinating Group was held at the offices of the Geological Survey in Vancouver on 28 April 1977. J.G. Souther of the G.S.C., L.K. Law of V.G.O., T.J. Lewis and A.M. Jessop, both of E.P.B. Ottawa were present.

Further discussion between J.G. Souther and the Coordinator took place in Vancouver on 12 May 1977. In particular on this occasion a visit was made to the office of Dr. F.K. Sandercock of Fisheries and Marine Service, DOE, for a preliminary discussion of the use of hot spring water for fish breeding facilities.

The Coordinator again visited Vancouver on 1 - 4 July 1977 in order to prepare for the autumn drilling programme. Details of the drilling programme are the subject of a separate report.

Mode of operation during 1977-78

Despite the obvious operational benefits, the plan of direct cooperation with B.C. Hydro has proved to be impossible during the current year. New decisions within B.C. Hydro have made it possible for them to carry out a full programme at Meager Creek during the 1977 season. As a result of these developments the E.M.R. Geothermal programme for 1977-78 is taking the same form as last year, i.e. a list of projects, to be performed under contract and to be managed by members of E.P.B. and G.S.C. Informal cooperation is maintained with B.C. Hydro and other agencies as necessary. Scientific personal believe that a formal agreement with B.C. for operations in the year 1978-79 is desirable, and a discussion with Dr. Harry Swain has taken place.

Allocation of funds 1977-78

The allocation of funds is now as follows. The initials in parentheses against each item denote the person responsible. Initials are apparent from the list in the opening paragraph except for L.S. Collett (or designated alternate).

a) Detailed assessment of Meager Creek	K\$
1. Geological mapping of the Meager Mountain area, extension of work done in 1976 (JGS)	23
2. Magneto-telluric survey of Lillooet and Meager valleys, extension of work done in 1976 (LKL)	31
3. Seismic study of structure of lower Lillooet valley (LKL)	10
4. Seismic study of potential drill site in upper Lillooet valley (LKL)	10

b) Regional volcanological and geothermal studies	
5. Drilling in the Garibaldi volcanic belt (AMJ)	60
6. Age dating of samples from recent volcanic centres (JGS)	10
7. Collection of samples for age dating (JGS)	5
8. Completion of hot spring inventory and collection of samples (JGS)	3
c) Feasibility studies	
9. Study of the potential for space heating of the University of Regina (AMJ)	40
10. Study of possible uses of known existing hot water of industrial origin, with comparison of geothermal potential (JGS)	10
d) Instrument development	
11. Testing of Geoprobe in Lillooet valley	
i) by G.S.C. personnel (LSC)	3
ii) by Geoprobe Ltd. (LSC)	15
e) Preliminary studies of other potential resource areas	
12. Geological mapping of Franklin Glacier Complex (JGS)	<u>20</u>
	240

*leaves 40 in memo
Frank, pubs etc.*

*(151 EPB
89 GSC)*