

CONTRACTOR: UNIVERSITY OF ALASKA

APPENDIX A

For the contract period January 1, 1978 through September 30, 1978.

Article A-1 RESEARCH TO BE PERFORMED BY CONTRACTOR

(a) The scope of the work under this contract is unclassified, and the Contractor under this contract with the Department of Energy will perform research consisting of the following in accordance with the Contractor's Proposal No. GI 78-52, dated January 1978, incorporated herein by reference:

The Contractor shall assemble data describing low- and moderate-temperature resources in the State of Alaska from existing U.S.G.S., University of Alaska, Alaska Division of Geological and Geophysical Surveys, and Alaska Division of Oil and Gas reports and well log files; as well as from petroleum company sources, unpublished Geophysical Institute work and other geothermal data sources. Relevant Geophysical Institute geochronologic laboratory studies which have already been initiated, but are not complete due to lack of funding, shall also be completed and the results incorporated into the data base. The data shall be published in a report designed for the use of energy planners, energy companies and potential users of non-electric geothermal energy.

(b) The scope of work shall include such other studies, investigations, and services as may be mutually agreed upon.

Article A-II - WAYS AND MEANS OF PERFORMANCE

(a) Items for which support will be provided as indicated in Article A-III:

Salaries

Principal Investigator, D. Turner, Assoc.	\$14,148
Prof. of Geology (4 mo. at \$3,537)	
Prof. Lab Technician (4 mo. at \$2,296)	9,184
Laboratory Assistant (3 mo. at \$1,178)	3,534
Electronics Tech. (1 mo. at \$2,130)	2,130
Student Assistant (2 mo. at \$1,178)	2,356
Draftsman (1/2 mo. at \$2,058)	1,029
Labor for preparation of reports and publications (1 mo. at \$1,777)	<u>1,777</u>

Subtotal \$ 34,158

Article A-II WAYS AND MEANS OF PERFORMANCE (Cont'd)

<u>Salaries (Cont'd)</u>	
10% salary increment	3,416
Reserve for annual leave 12%	4,509
Holiday and sick leave 9.5%	<u>3,570</u>
Total Salaries	\$ 45,653
<u>Staff Benefits</u>	
Hospitalization, Social Security, Retirement 12% of total salaries	5,478
<u>Overhead</u>	
57.9% of total salaries	26,433
<u>Laboratory Supplies</u>	
Liquid nitrogen, heavy liquids for mineral separations, ultra-high vacuum valves, and other miscellaneous expenables	6,820
<u>Travel</u>	
1 round trip (Turner) to Miami for Spring AGU meeting, including 7 days sub- sistence at \$30/day	926
1 round trip, Lopez-Menlo Park, CA. (Forbes) including 5 days subsistence at \$30/day	364
1 round trip (Turner) Fairbanks - Lopez, - Menlo Park, CA., including 5 days at \$30/day	630
1 round trip (Turner) Fairbanks - Idaho Falls - Menlo Park, CA., including 7 days at \$30/day	707
2 round trips (Forbes) Lopez - Fairbanks, including 5 days subsistence each at \$30/day	912
4 round trips, Fairbanks - Anchorage, including 5 days subsistence each at \$30/day	<u>988</u>
Total Travel	\$ 4,527

Article A-II - WAYS AND MEANS OF PERFORMANCE (Cont'd)

Other Direct Costs

Co-Principal Investigator/Consultant, R. Forbes (2 mo. at \$4,393/mo.)	\$ 8,786
Communications	800
Freight	453
Xeroxing	450
Computer usage	<u>600</u>

Other Direct Costs \$ 11,089

TOTAL \$100,000

(b) Items, if any, significant to the performance of this contract, but excluded from computation of Support Cost and from consideration in proportioning costs:

None

(c) Time or effort of Principal Investigator(s) including indirect cost and fringe benefits contributed by the Contractor but excluded from computation of Support Cost and consideration in proportioning costs:

None

Article A-III - FUNDING

The total estimated cost to DOE for the performance of all work under Article A-II is \$100,000.00. An amount of \$75,000.00 is hereby obligated for the period from January 1, 1978 through September 30, 1978 to start the work. The balance of \$25,000.00 will be obligated when and if funds are available. The Contractor shall perform the research set forth under Article A-I until 90% of the \$75,000.00 is obligated. At that time if the balance of \$25,000.00 has not been authorized, the Contractor shall discontinue work and notify DOE that work has been stopped until additional funds are authorized. If the balance of \$25,000.00 will not be authorized, DOE will notify the Contractor in writing within 30 days, and at that time the Contractor shall submit a final report for the work that has been performed. DOE will pay 100% of the actual costs enumerated in Article A-II subject to the provisions contained in this article, Article III, and Article B-V.

Article A-IV - ADMINISTRATION AND REPORTS

(a) Principal Investigator - Donald L. Turner

DOE Technical Administrator - John L. Griffith
Energy and Technology Division
Idaho Operations Office