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United States Department of Energy

Idaho Operations Office

Idaho Falls, Idaho

Solicitation DE-SC07-80ID12139

User Coupled Confirmation Drilling Program

**Wood Fuel Heat Enhancement
Using Geothermal Energy**

Wendel-Amedee KGRA

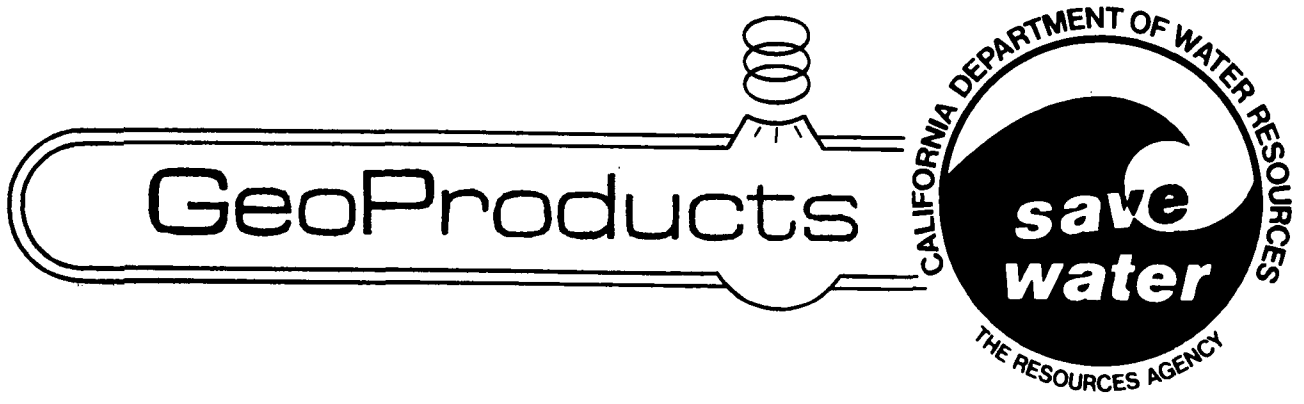
Lassen County, California

Volume II - Business Proposal

September 15, 1980

GeoProducts Corporation

California Department of Water Resources



United States Department of Energy

Idaho Operations Office

Idaho Falls, Idaho

Solicitation DE-SC07-80ID12139

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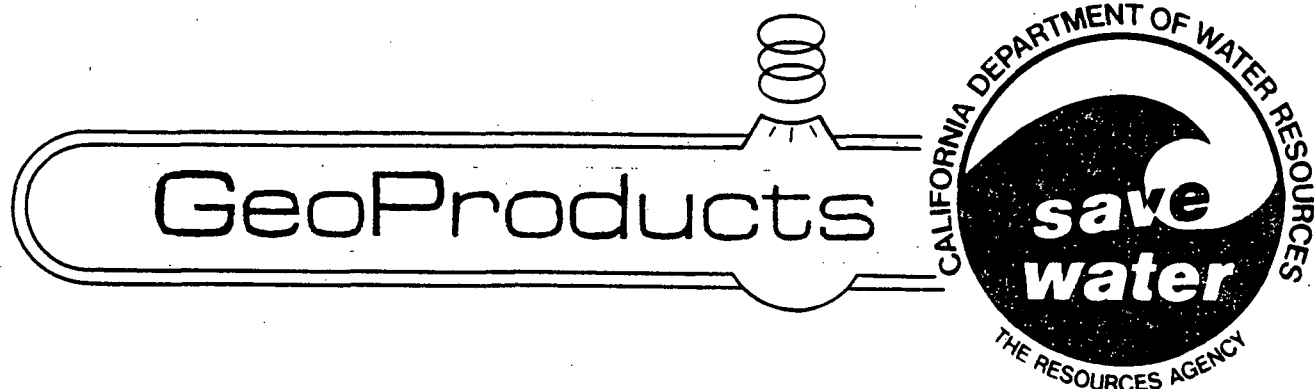
Lassen County, California

Volume II - Business Proposal

September 15, 1980

GeoProducts Corporation

California Department of Water Resources



SECTION 1
COVER PAGE

VOLUME II - BUSINESS PROPOSAL
PROJECT PROPOSAL SUBMITTED TO THE
DEPARTMENT OF ENERGY
IDAHO OPERATIONS OFFICE

USER-COUPLED CONFIRMATION DRILLING PROGRAM
SCAP No. DE-SC07-80ID12139

Copy No. 7 of 10

Date of Submission September 15, 1980

GeoProducts Corporation

Name of Organization (principal participant if a team of organizations)

Corporation - Small Business
Organizational Classifications

1330 Broadway, Oakland, California 94612
Address of Organization

Wood Fuel Heat Enhancement Using Geothermal Energy (Wendel-Amedee KGRA)
Title of Proposed Project

Maximum Funds requested from DOE \$298,717 Total Cost of Project
(20% Basis) Through Flow Testing \$1,493,584

Location of Site Wendel, Lassen County, California

Proposed Project Duration (in months) 24

Proposed Starting Date December 1, 1980

Official Contact for Negotiations Kenneth L. Boren

Position and Title President, GeoProducts Corporation

Telephone (w/area code) (415) 893-8365

Effective Period of Proposal 200 days

AUTHORIZED OFFICIAL

Signature Alexander Black

Name Typed Alexander Black
Chairman of the Board,

Title GeoProducts Corporation

Date September 15, 1980

Please Check Small Business Disadvantaged Business Other

SECTION 2

LETTER OF INTENT

September 15, 1980

U. S. Department of Energy
Idaho Operations Office
550 Second Street
Idaho Falls, Idaho 83401

Gentlemen:

In response to your solicitation No. DE-SC07-80ID12139 titled, "User Coupled Confirmation Drilling Program," we are herewith submitting our joint proposal for DOE cost share participation in the development of a deep production well and injection well at GeoProducts' geothermal project site in Lassen County, California.

This letter affirms the intention of the participants to complete a series of project studies as set forth in the Honey Lake Hybrid Geothermal-Wood Residue Steam Electric Project Planning and Feasibility Study Agreement Between GeoProducts Corporation and State of California Department of Water Resources and Forest Service, U. S. D. A., of which pertinent sections are attached as Appendix A. One provision of this Agreement is to drill and test a production well to derive data and information necessary to evaluate the geothermal resource. If, upon conclusion of the feasibility studies the participants decide to proceed, they would proceed with the project under terms and conditions as set forth in the Project Development Agreement between GeoProducts and the Department of Water Resources, of which pertinent sections are also attached as Appendix A.

The production well and injection well described in this proposal would be utilized to develop the geothermal resource. The geothermal fluids would be used to decrease the moisture content of delivered wood residues from an average of 42.5 percent to about 15 percent, at which time the wood fuel would be burned in a conventional boiler system for the production of electric power. Auxiliary uses of the geothermal heat may include preheating the boiler feedwater and combustion air. The effluent from the plant, expected to be in the range of 150-175^oF will be available for use by other businesses or individuals under negotiated contracts.

The California Department of Water Resources is encouraging the development of alternative energy sources and would use all available electric power from the plant to help meet energy requirements of the State Water Project. Up to 30 percent of the electric power produced by the plant would be made available for local utility or other agency use under an option clause in the power purchase agreement between the Department of Water Resources and GeoProducts.

U. S. Department of Energy
Page 2
September 15, 1980

The participants have already invested considerable time, effort, and financial resources in development activities related to the project. We look forward to the completion of the project.

for Charles R. Shumaker
Ronald B. Robie, Director
State of California
Department of Water Resources

Date 9/12/80

Alexander Black
Alexander Black, Chairman of the Board
GeoProducts Corporation
Date 9/12/80

SECTION 3

SUMMARY

SUMMARY

This proposal, jointly submitted by GeoProducts Corporation and the State of California Department of Water Resources (DWR), seeks DOE cost share participation in the development of a deep production well and an injection well at GeoProducts' geothermal project site in Lassen County, California.

The project will directly utilize moderate temperature geothermal fluids (250°-375°F) to dehydrate wood fuel. Enhanced wood fuel will then be fired in a conventional boiler system for electric-power generation. Most of the power will be used by DWR to meet the energy requirements of the California State Water Project. The project site is located within a 16,049 acre leaseblock in the Wendel-Amedee KGRA in Lassen County in which GeoProducts controls the geothermal development and use rights. The Wendel-Amedee KGRA has been extensively studied and tested for resource potential, including geophysical surveys, mapping, and drilling (by Gulf, Magma Power and GeoProducts).

Approximately \$1.6 million has been committed or expended to date on developing the project. Among these expenditures are studies and field work which have and are assisting greatly in bringing the project to fruition including:

- . A wood fuel resource analysis of fuel characteristic, supply, and availability under contract to Resource Management Service Inc. (Birmingham, Alabama, \$188,500).
- . Extensive geological and geophysical surveys performed for the participants by George Zebal and Associates (Newport Beach, California) and Electrodyne Surveys (Reno, Nevada). This field work concluded with the drilling of four thermal gradient wells by Underground Waterworks (Janesville CA.) Total work in excess of \$160,000.

- . An engineering design and cycle optimization and cost analysis recently contracted to Morrison Knudsen and International Engineering Company (Boise, San Francisco, \$188,000).
- . An analysis and synthesis of all geophysical and other field work conducted to date, and a final recommendation for production drilling efforts contracted to GeothermEx (Berkeley, California, \$24,000).
- . A detailed environmental analysis of the project site, potential impacts, and mitigation measures. The RFP for the work was released by the participants in August, 1980 (estimated cost \$35,000).

In this proposal project technical and financial feasibility is analyzed for a number of geothermal resource conditions. The range of technical feasibility, derived by a Process Energy Requirements Plot is supplemented by a financial analysis to determine a project cost share formula. The discounted cash flow analysis yields after tax internal rates-of-return from 14.16% (at 225°F, 2249 gpm) to 46.07% (at 390°F and 703 gpm). Based on the extensive resource evidence accumulated to date (surface spring temperatures vary from 196°F to 206°F), the participants are optimistic of obtaining resource temperatures exceeding 250°F near 5000 ft.

The net "on-line" power from the project that is attributable to geothermal energy is 19.24×10^{11} Btu/year.

The matching of abundant low-to-moderate temperature geothermal resources with forest-based fuels for electric power production has significant potential in several western states.

SECTION 4

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SECTION 5

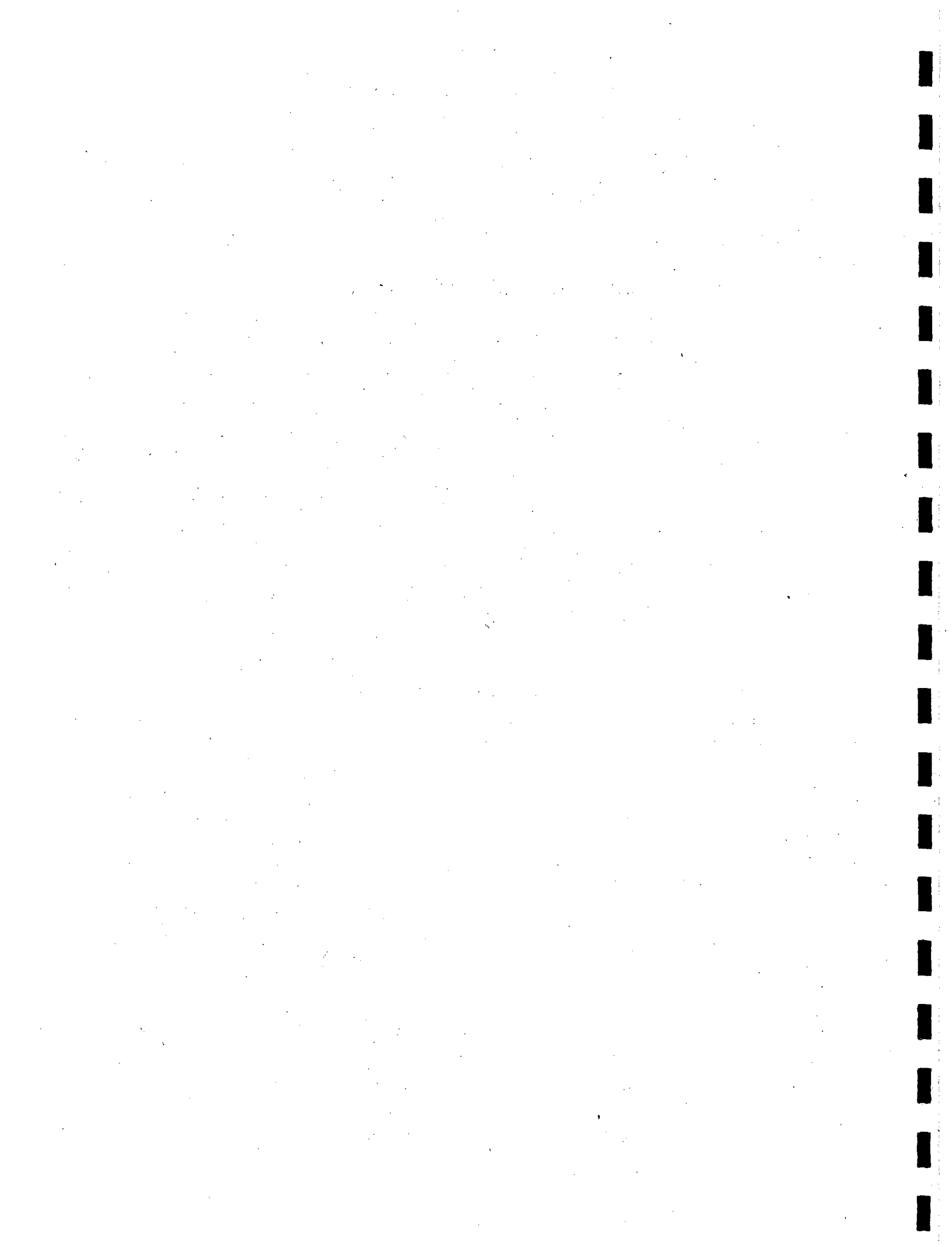
PROJECT COST/BUDGET SCHEDULE

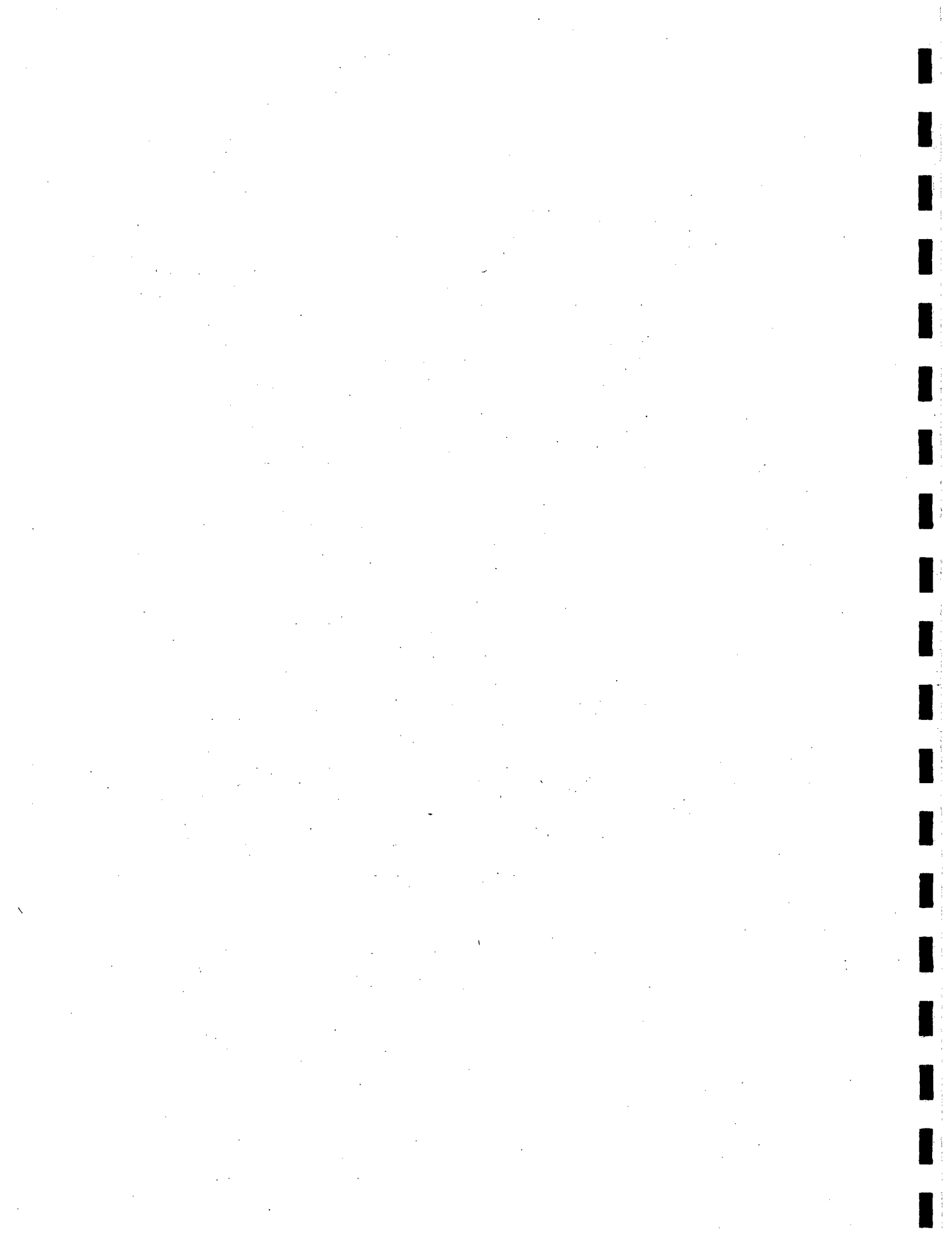


Task 2: Environmental and Institutional

CONTRACT PRICING PROPOSAL (RESEARCH AND DEVELOPMENT)		Office of Management and Budget Approval No. 29-RO184	
This form is for use when (i) submission of cost or pricing data (see FPR 1-3.807-3) is required and (ii) substitution for the Optional Form 39 is authorized by the contracting officer.		PAGE NO.	NO. OF PAGES
NAME OF OFFEROR GeoProducts Corporation		SUPPLIES AND/OR SERVICES TO BE FURNISHED geothermal well drilling and related services	
HOME OFFICE ADDRESS 1330 Broadway, Suite 1400 Oakland, California 94612			
DIVISION(S) AND LOCATION(S) WHERE WORK IS TO BE PERFORMED Project Location: Lassen Co., CA		TOTAL AMOUNT OF PROPOSAL \$ 1,493,584	GOV'T SOLICITATION NO. DE-SC07-80ID12139
DETAIL DESCRIPTION OF COST ELEMENTS			
1. DIRECT MATERIAL (Itemize on Exhibit A)	EST COST (\$)	TOTAL EST COST	REFERENCE
a. PURCHASED PARTS			
b. SUBCONTRACTED ITEMS			
c. OTHER - (1) RAW MATERIAL			
(2) YOUR STANDARD COMMERCIAL ITEMS			
(3) INTERDIVISIONAL TRANSFERS (At other than cost)			
TOTAL DIRECT MATERIAL			
2. MATERIAL OVERHEAD (Rate % of base =)			
3. DIRECT LABOR (Specify)	ESTIMATED HOURS	RATE/HOUR	EST COST (\$)
TOTAL DIRECT LABOR			
4. LABOR OVERHEAD (Specify Department or Cost Center)	O.H. RATE	X BASE =	EST COST (\$)
TOTAL LABOR OVERHEAD			
5. SPECIAL TESTING (Including field work at Government installations)			EST COST (\$)
TOTAL SPECIAL TESTING			
6. SPECIAL EQUIPMENT (If direct charge) (Itemize on Exhibit A)			
7. TRAVEL (If direct charge) (Give details on attached Schedule)			EST COST (\$)
a. TRANSPORTATION	Travel for consultant to Oakland and project site		
b. PER DIEM OR SUBSISTENCE			
		TOTAL TRAVEL	1270
			1270
8. CONSULTANTS (Identify - purpose - rate)			EST COST (\$)
Environmental consultant, 14 days @ \$250			3500
TOTAL CONSULTANTS			
		3500	3500
9. OTHER DIRECT COSTS (Itemize on Exhibit A)	Permits		1000
		TOTAL DIRECT COST AND OVERHEAD	1000
11. GENERAL AND ADMINISTRATIVE EXPENSE (Rate % of cost element No.)			
12. ROYALTIES			
		TOTAL ESTIMATED COST	\$6770
14. FEE OR PROFIT			
		TOTAL ESTIMATED COST AND FEE OR PROFIT	

OPTIONAL FORM NO. 34
October 1971
General Services Administration
FPR 1-16.806

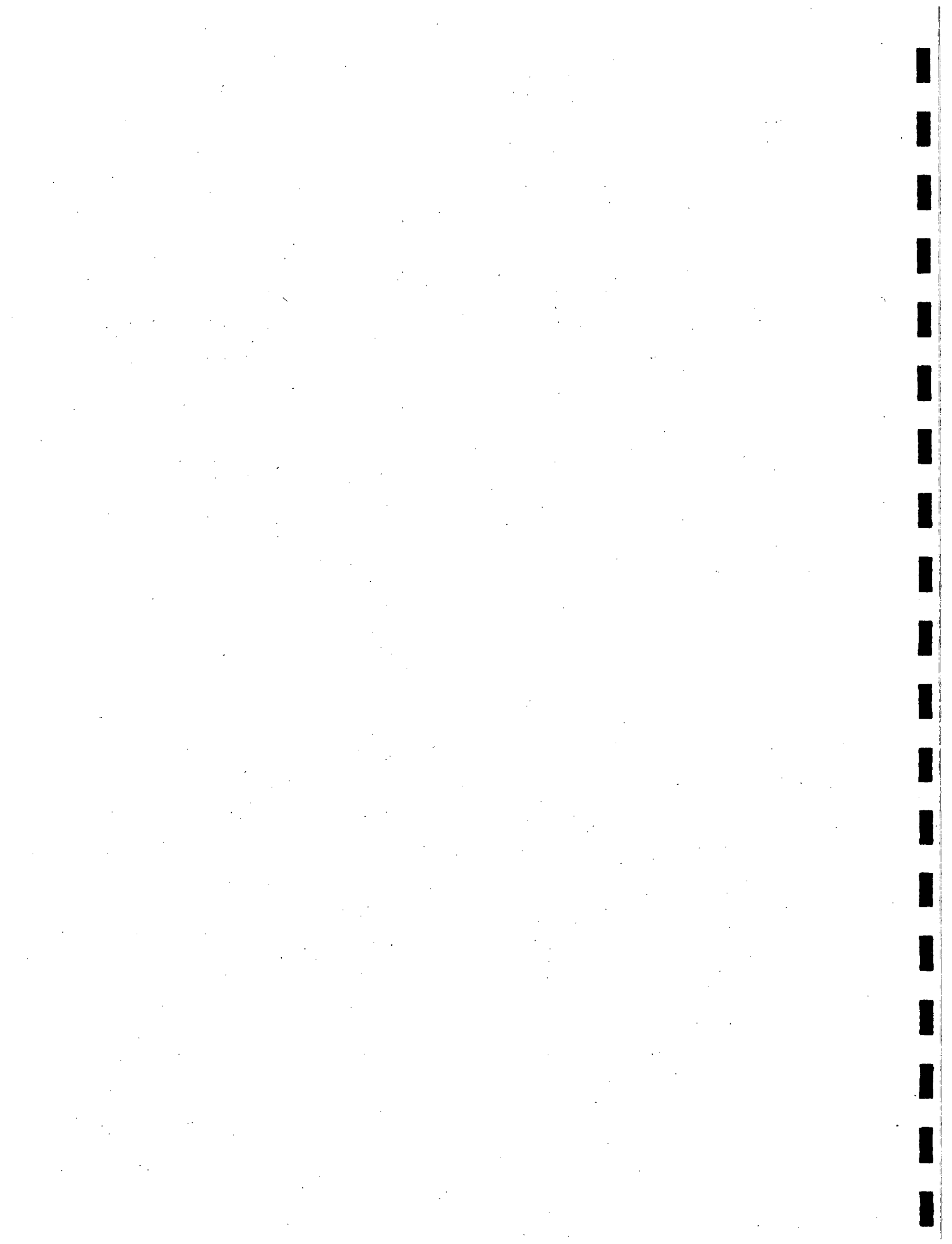


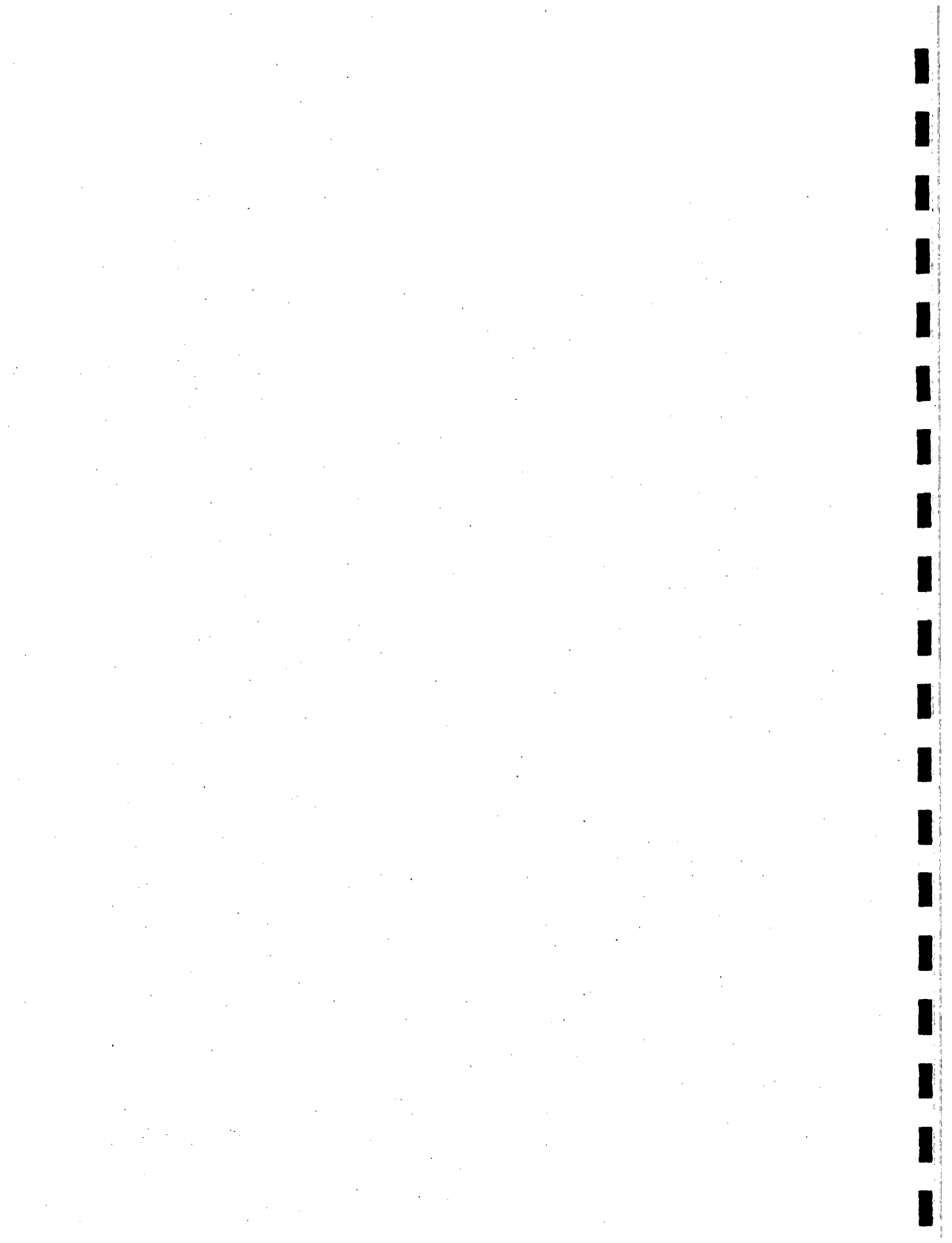


Task 3: Site Selection

CONTRACT PRICING PROPOSAL (RESEARCH AND DEVELOPMENT)		Office of Management and Budget Approval No. 29-RO184	
This form is for use when (i) submission of cost or pricing data (see FPR 1-3.807-3) is required and (ii) substitution for the Optional Form 59 is authorized by the contracting officer.		PAGE NO.	NO. OF PAGES
NAME OF OFFEROR GeoProducts Corporation		SUPPLIES AND/OR SERVICES TO BE FURNISHED geothermal well drilling and related services.	
HOME OFFICE ADDRESS 1330 Broadway, Suite 1400 Oakland, CA 94612			
DIVISION(S) AND LOCATION(S) WHERE WORK IS TO BE PERFORMED Project Location: Lassen Co., CA		TOTAL AMOUNT OF PROPOSAL \$ 1,493,584	GOVT SOLICITATION NO. DE-SC07-80ID12139
DETAIL DESCRIPTION OF COST ELEMENTS			
1. DIRECT MATERIAL (Itemize on Exhibit A)	EST COST (\$)	TOTAL EST COST ¹	REFERENCE ²
a. PURCHASED PARTS			
b. SUBCONTRACTED ITEMS			
c. OTHER - (1) RAW MATERIAL			
(2) YOUR STANDARD COMMERCIAL ITEMS			
(3) INTERDIVISIONAL TRANSFERS (At other than cost)			
TOTAL DIRECT MATERIAL			
2. MATERIAL OVERHEAD ¹ (Rate % of base =)			
3. DIRECT LABOR (Specify)	ESTIMATED HOURS	RATE/HOUR	EST COST (\$)
TOTAL DIRECT LABOR			
4. LABOR OVERHEAD (Specify Department or Cost Center) ¹	O.H. RATE	% BASE =	EST COST (\$)
TOTAL LABOR OVERHEAD			
5. SPECIAL TESTING (Including field work at Government installations)			EST COST (\$)
TOTAL SPECIAL TESTING			
6. SPECIAL EQUIPMENT (If direct charge) (Itemize on Exhibit A)			
7. TRAVEL (If direct charge) (Give details on attached Schedule)			EST COST (\$)
a. TRANSPORTATION 3 people travel to DOE/ID @ \$500			
b. PER DIEM OR SUBSISTENCE			
TOTAL TRAVEL			
		1500	1500
8. CONSULTANTS (Identify - purpose - rate)			EST COST (\$)
Senior geologic consultant \$400/day for 3 days		1200	
Junior geologic consultant \$300/day for 3 days		900	
TOTAL CONSULTANTS			
			2100
9. OTHER DIRECT COSTS (Itemize on Exhibit A) Report Preparations			400
TOTAL DIRECT COST AND OVERHEAD			
10.			
11. GENERAL AND ADMINISTRATIVE EXPENSE (Rate % of cost element No.)			
12. ROYALTIES			
13.	TOTAL ESTIMATED COST		\$4000
14. FEE OR PROFIT			
15.	TOTAL ESTIMATED COST AND FEE OR PROFIT		

OPTIONAL FORM 59
October 1971
General Services Administration
FPR 1-10-806

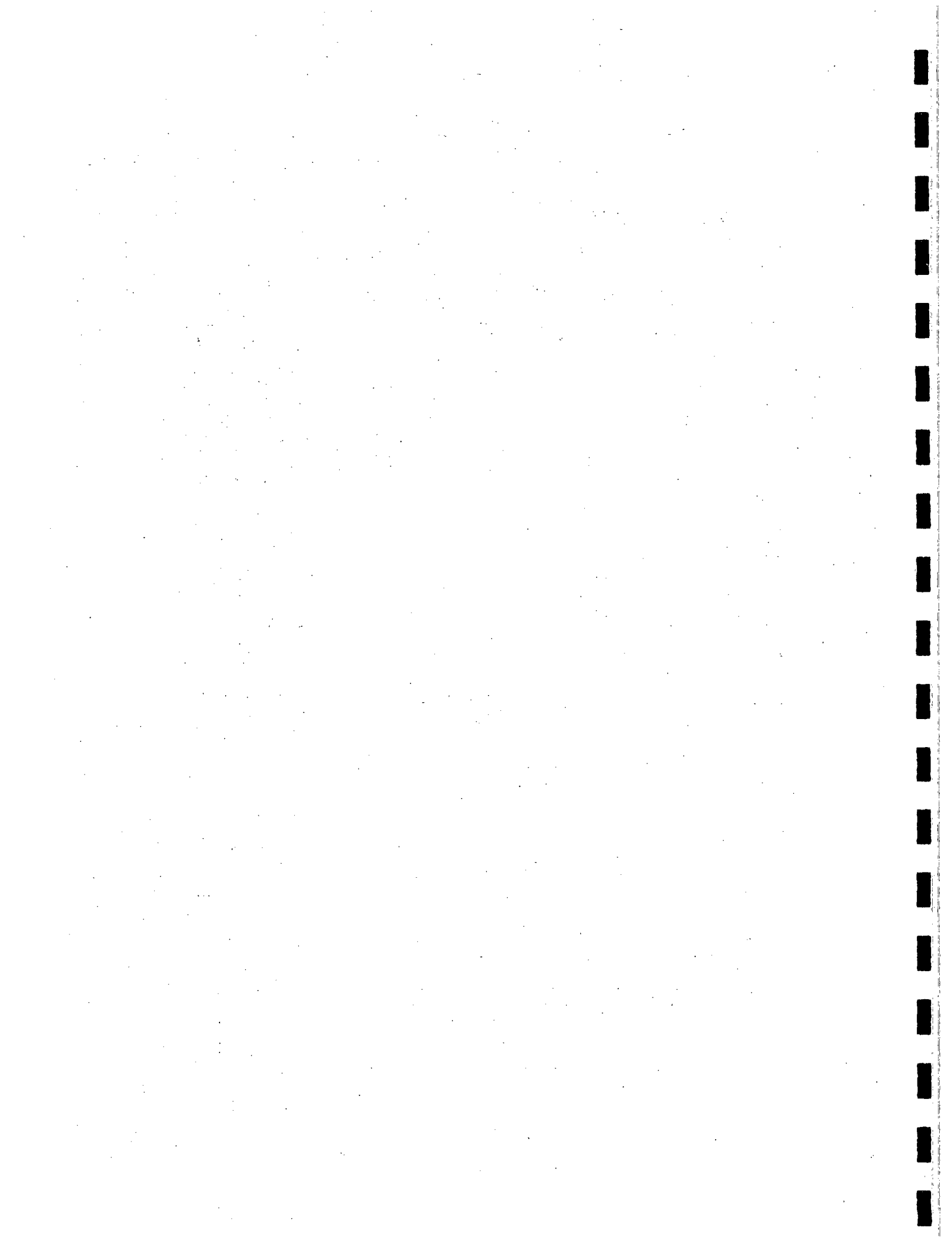





Tasks 4 and 5: Production Well and Flow Testing

CONTRACT PRICING PROPOSAL (RESEARCH AND DEVELOPMENT)				Office of Management and Budget Approval No. 29-RO184	
This form is for use when (i) submission of cost or pricing data (see FPR 1-3.107-3) is required and (ii) substitution for the Optional Form 39 is authorized by the contracting officer.				PAGE NO.	NO. OF PAGES
NAME OF OFFEROR GeoProducts Corporation		SUPPLIES AND/OR SERVICES TO BE FURNISHED geothermal well drilling and related services			
HOME OFFICE ADDRESS 1330 Broadway, Suite 1400 Oakland, California 94612		TOTAL AMOUNT OF PROPOSAL \$ 1,493,584		GOV'T SOLICITATION NO. DE-SC07-80ID12139	
DIVISION(S) AND LOCATION(S) WHERE WORK IS TO BE PERFORMED Project Location: Lassen Co., CA					
DETAIL DESCRIPTION OF COST ELEMENTS					
1. DIRECT MATERIAL (Itemize on Exhibit A)	EST COST (\$)	TOTAL EST COST*	REFER- ENCE*		
a. PURCHASED PARTS					
b. SUBCONTRACTED ITEMS See Exhibit A					
c. OTHER—(1) RAW MATERIAL					
(2) YOUR STANDARD COMMERCIAL ITEMS					
(3) INTERDIVISIONAL TRANSFERS (At other than cost)					
TOTAL DIRECT MATERIAL		137,100			
2. MATERIAL OVERHEAD* (Rate % of base =)					
3. DIRECT LABOR (Specify)	ESTIMATED HOURS	RATE/HOUR	EST COST (\$)		
TOTAL DIRECT LABOR					
4. LABOR OVERHEAD (Specify Department or Cost Center)†	O.H. RATE	T BASE =	EST COST (\$)		
TOTAL LABOR OVERHEAD					
5. SPECIAL TESTING (Including field work at Government installations)			EST COST (\$)		
Support Services (see Appendix A)					
TOTAL SPECIAL TESTING			406,500		
6. SPECIAL EQUIPMENT (If direct charge) (Itemize on Exhibit A)					
7. TRAVEL (If direct charge) (Give details on attached Schedule)			EST COST (\$)		
a. TRANSPORTATION					
b. PER DIEM OR SUBSISTENCE					
TOTAL TRAVEL					
8. CONSULTANTS (Identify—purpose—rate)			EST COST (\$)		
Drilling Engineering			50,000		
TOTAL CONSULTANTS			50,000		
9. OTHER DIRECT COSTS (Itemize on Exhibit A) Shipping			4,000		
TOTAL DIRECT COST AND OVERHEAD			123,650		
10. Contingency @ 25%					
11. GENERAL AND ADMINISTRATIVE EXPENSE (Rate % of cost element No.)					
12. ROYALTIES					
TOTAL ESTIMATED COST			\$721,250		
14. FEE OR PROFIT					
TOTAL ESTIMATED COST AND FEE OR PROFIT					

OPTIONAL FORM 39
October 1971
General Services Administration
FPR 1-3.107-3



This proposal is submitted for use in connection with and in response to (Describe RFP, etc.)
RFP-DE-SC07-80Id-12139 - User Coupled Geothermal Confirmation Drilling Program
 and reflects our best estimates as of this date, in accordance with the Instructions to Offerors and the Footnotes which follow.

TYPED NAME AND TITLE Alexander Black Chairman of the Board	SIGNATURE 
-----------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------

NAME OF FIRM GeoProducts Corporation	DATE OF SUBMISSION 9-15-80
------------------------------------------------	--------------------------------------

EXHIBIT A—SUPPORTING SCHEDULE (Specify, if more space is needed, use reverse)

COST EL NO.	ITEM DESCRIPTION (See footnote 5)	EST COST (\$)
1.	Well casing (13-3/8", \$25/ft x 1200'; \$26/ft x 1900'	68,000
	Stabilization Equipment	10,000
	Liner Hanger	7,000
	Drilling Mud	9,000
	Bit Brakes, ring gauges, etc.	5,000
	Bits	25,000
	Well Head Eqpt.	8,500
	BOP (rental) (\$230 x 20 days)	4,600
2.	Core Samples	27,475
	Surveyor	500
	Casing crews	6,500
	Rig move, demobe	75,000
	Cementing Services	30,000
	Logging	35,000
	Well Testing	23,000
	Drilling (24 days @ \$6500)	156,000
	Standby (8 days @ \$4500)	36,000
	Road Preparation	3,600
	Site Preparation	13,425
9.	Shipping	4,000

I. HAS ANY EXECUTIVE AGENCY OF THE UNITED STATES GOVERNMENT PERFORMED ANY REVIEW OF YOUR ACCOUNTS OR RECORDS IN CONNECTION WITH ANY OTHER GOVERNMENT PRIME CONTRACT OR SUBCONTRACT WITHIN THE PAST TWELVE MONTHS?
 YES NO (If yes, identify below.)

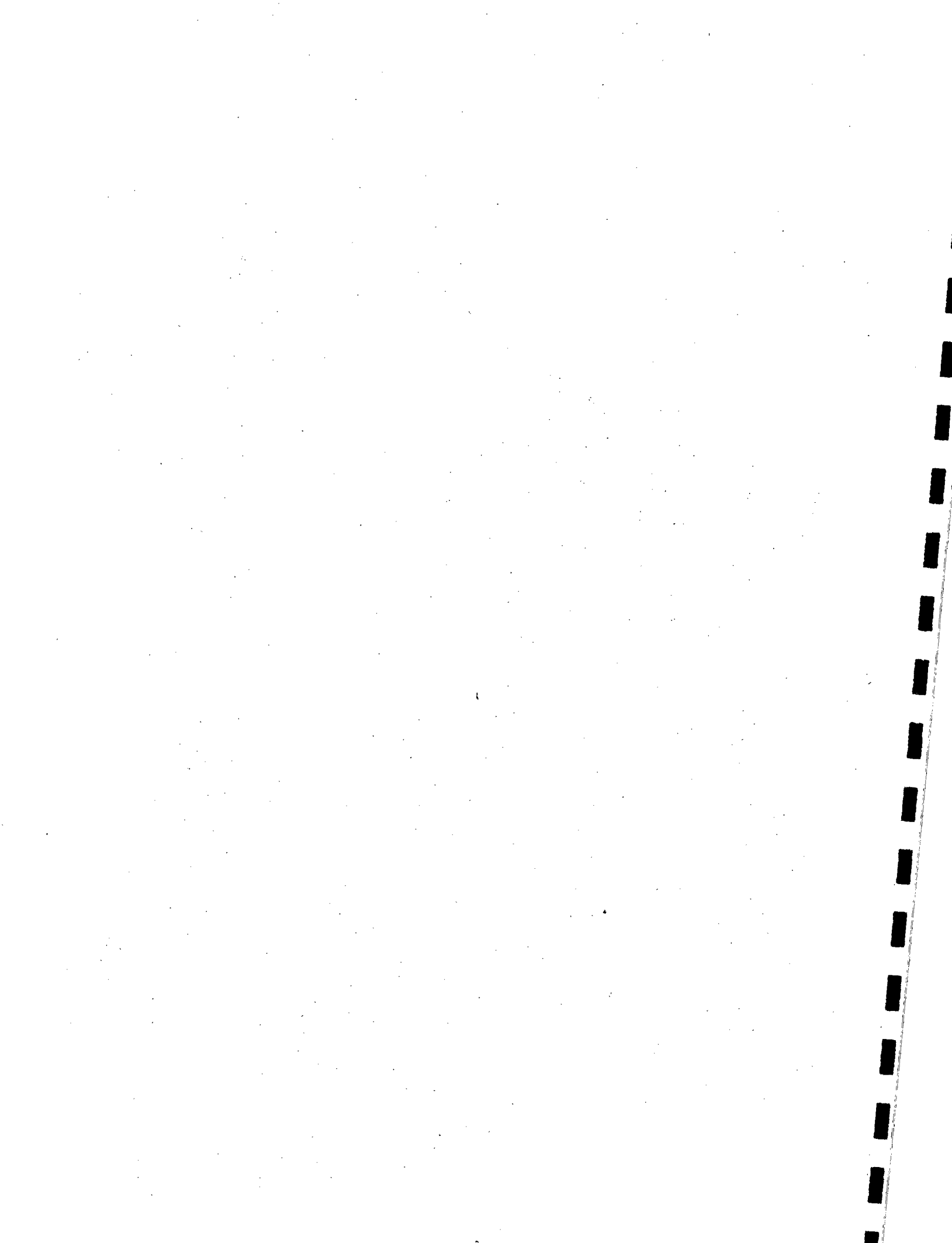
NAME AND ADDRESS OF REVIEWING OFFICE AND INDIVIDUAL	TELEPHONE NUMBER/EXTENSION
-----------------------------------------------------	----------------------------

II. WILL YOU REQUIRE THE USE OF ANY GOVERNMENT PROPERTY IN THE PERFORMANCE OF THIS PROPOSED CONTRACT?
 YES NO (If yes, identify on reverse or separate page)

III. DO YOU REQUIRE GOVERNMENT CONTRACT FINANCING TO PERFORM THIS PROPOSED CONTRACT?
 YES NO (If yes, identify.): ADVANCE PAYMENTS PROGRESS PAYMENTS OR GUARANTEED LOANS

IV. DO YOU NOW HOLD ANY CONTRACT (Or, do you have any independently financed (IR&D) projects) FOR THE SAME OR SIMILAR WORK CALLED FOR BY THIS PROPOSED CONTRACT?
 YES NO (If yes, identify.): US DOE, State of California, USDA-Forest Service, and Geo-Products have each contributed financially to bring the project to the drilling phase.

V. DOES THIS COST SUMMARY CONFORM WITH THE COST PRINCIPLES SET FORTH IN AGENCY REGULATIONS?
 YES NO (If no, explain on reverse or separate page)




Task 6: Injection Drilling and Testing

CONTRACT PRICING PROPOSAL (RESEARCH AND DEVELOPMENT)			Office of Management and Budget Approval No. 29-RO184		
This form is for use when (i) submission of cost or pricing data (see FPR 1-3.807-3) is required and (ii) substitution for the Optional Form 39 is authorized by the contracting officer.			PAGE NO.	NO. OF PAGES	
NAME OF OFFEROR GeoProducts Corporation			SUPPLIES AND/OR SERVICES TO BE FURNISHED geothermal well drilling and related services		
HOME OFFICE ADDRESS 1330 Broadway, Suite 1400 Oakland, California 94612					
DIVISION(S) AND LOCATION(S) WHERE WORK IS TO BE PERFORMED Project Location: Lassen Co., CA			TOTAL AMOUNT OF PROPOSAL \$ 1,493,584	GOV'T SOLICITATION NO. DE-SC07-80ID12139	
DETAIL DESCRIPTION OF COST ELEMENTS					
1. DIRECT MATERIAL (Itemize on Exhibit A)			EST COST (\$)	TOTAL EST COST'	REFERENCE'
a. PURCHASED PARTS					
b. SUBCONTRACTED ITEMS					
c. OTHER—(1) RAW MATERIAL					
(2) YOUR STANDARD COMMERCIAL ITEMS					
(3) INTERDIVISIONAL TRANSFERS (At other than cost)					
TOTAL DIRECT MATERIAL				135,564	
2. MATERIAL OVERHEAD (Rate % of base =)			EST COST (\$)		
3. DIRECT LABOR (Specify)			ESTIMATED HOURS	RATE/HOUR	EST COST (\$)
TOTAL DIRECT LABOR					
4. LABOR OVERHEAD (Specify Department or Cost Center)			OH RATE	% BASE =	EST COST (\$)
TOTAL LABOR OVERHEAD					
5. SPECIAL TESTING (Including field work at Government installations)			EST COST (\$)		
Support Services (see Exhibit A)					
TOTAL SPECIAL TESTING				288,500	
6. SPECIAL EQUIPMENT (If direct charge) (Itemize on Exhibit A)			EST COST (\$)		
7. TRAVEL (If direct charge) (Give details on attached Schedule)			EST COST (\$)		
a. TRANSPORTATION					
b. PER DIEM OR SUBSISTENCE					
TOTAL TRAVEL					
8. CONSULTANTS (Identify—purpose—rate)			EST COST (\$)		
Drilling Engineering			50,000		
TOTAL CONSULTANTS				50,000	
9. OTHER DIRECT COSTS (Itemize on Exhibit A)			EST COST (\$)		
Shipping			4,000		
TOTAL DIRECT COST AND OVERHEAD				105,410	
10. CONTINGENCY @ 25%					
11. GENERAL AND ADMINISTRATIVE EXPENSE (Rate % of cost element No.)					
12. ROYALTIES					
TOTAL ESTIMATED COST				577,474	
14. FEE OR PROFIT					
TOTAL ESTIMATED COST AND FEE OR PROFIT					

OPTIONAL FORM 39
October 1971
General Services Administration
FPR 1-16.806



This proposal is submitted for use in connection with and in response to (Describe RFP, etc.)
RFP-DE-SC07-80ID12139 - User Coupled Geothermal Confirmation Drilling Program
 and reflects our best estimates as of this date, in accordance with the Instructions to Offerors and the Estimates which follow.

TYPED NAME AND TITLE Alexander Black Chairman of the Board	SIGNATURE 
-----------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------

NAME OF FIRM GeoProducts Corporation	DATE OF SUBMISSION 9-15-80
------------------------------------------------	--------------------------------------

EXHIBIT A—SUPPORTING SCHEDULE (Specify, if more space is needed, use reverse)		
COST EL NO.	ITEM DESCRIPTION (See footnote 5)	EST COST (\$)
1.	Well Casing	56,000
	Stabilization eqpt.	10,000
	Liner hanger	7,000
	Drilling mud	7,500
	Bit brakes, ring gauges	5,000
	Bits	20,000
	Wellhead Equipment	8,500
	BOP (rental)	4,140
	Injection line rental	17,424
5.	Site preparation	7,000
	Casing crews	5,500
	Rig move/demove	75,000
	Cementing services	27,000
	Logging	10,000
	Well testing	23,000
	Drilling	117,000
	Standby	18,000
9.	Shipping	4,000

I. HAS ANY EXECUTIVE AGENCY OF THE UNITED STATES GOVERNMENT PERFORMED ANY REVIEW OF YOUR ACCOUNTS OR RECORDS IN CONNECTION WITH ANY OTHER GOVERNMENT PRIME CONTRACT OR SUBCONTRACT WITHIN THE PAST TWELVE MONTHS?
 YES NO (If yes, identify below.)

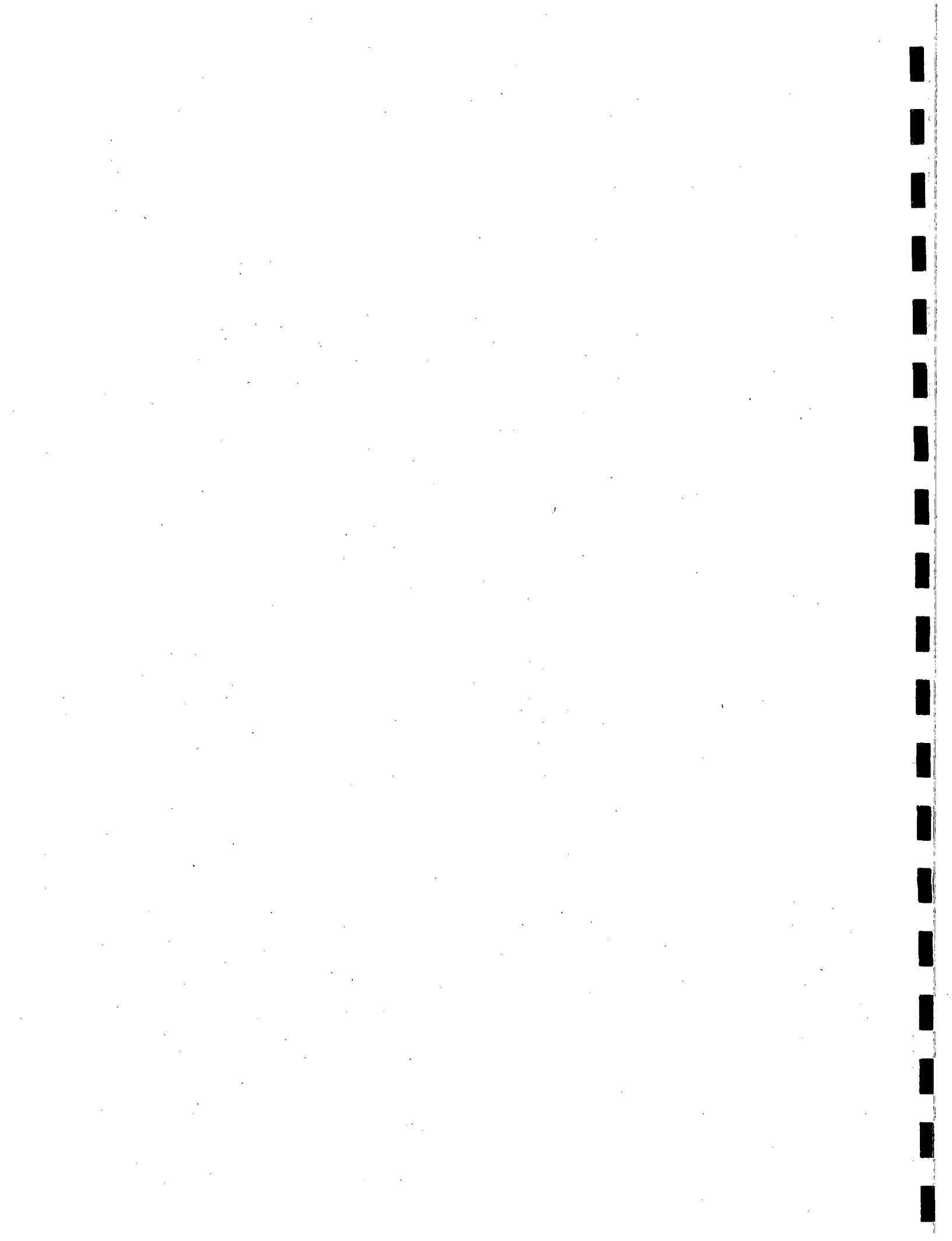
NAME AND ADDRESS OF REVIEWING OFFICE AND INDIVIDUAL	TELEPHONE NUMBER/EXTENSION
-----------------------------------------------------	----------------------------

II. WILL YOU REQUIRE THE USE OF ANY GOVERNMENT PROPERTY IN THE PERFORMANCE OF THIS PROPOSED CONTRACT?
 YES NO (If yes, identify on reverse or separate page)

III. DO YOU REQUIRE GOVERNMENT CONTRACT FINANCING TO PERFORM THIS PROPOSED CONTRACT?
 YES NO (If yes, identify.): ADVANCE PAYMENTS PROGRESS PAYMENTS OR GUARANTEED LOANS

IV. DO YOU NOW HOLD ANY CONTRACT (Or, do you have any independently financed (IRGD) projects) FOR THE SAME OR SIMILAR WORK CALLED FOR BY THIS PROPOSED CONTRACT? **US DOE, State of California, USDA-Forest Service, and Geo-Products have each contributed financially to bring the project to the drilling phase**
 YES NO (If yes, identify.):

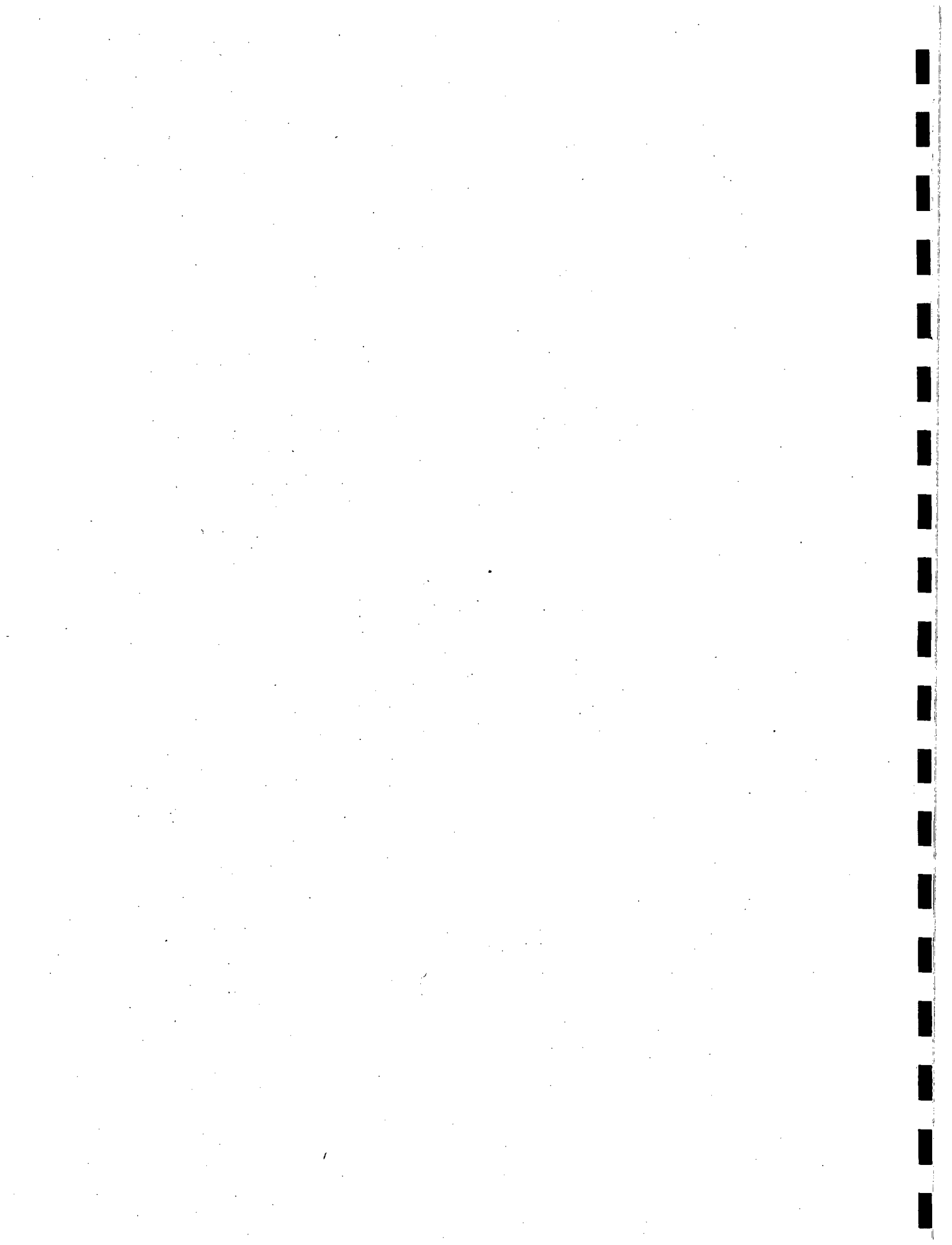
V. DOES THIS COST SUMMARY CONFORM WITH THE COST PRINCIPLES SET FORTH IN AGENCY REGULATIONS?
 YES NO (If no, explain on reverse or separate page)



Task 8: Project Management

CONTRACT PRICING PROPOSAL (RESEARCH AND DEVELOPMENT)		Office of Management and Budget Approval No. 29-RO184	
This form is for use when (i) submission of cost or pricing data (see FPR 1-3.107-3) is required and (ii) substitution for the Optional Form 99 is authorized by the contracting officer.		PAGE NO.	NO. OF PAGES
NAME OF OFFEROR GeoProducts Corporation	SUPPLIES AND/OR SERVICES TO BE FURNISHED geothermal well drilling and related services		
HOME OFFICE ADDRESS 1330 Broadway, Suite 1400 Oakland, CA 94612			
DIVISION(S) AND LOCATION(S) WHERE WORK IS TO BE PERFORMED Project Location: Lassen Co., CA	TOTAL AMOUNT OF PROPOSAL \$ 1,493,584	GOVT SOLICITATION NO. DE-SC07-80ID12139	
DETAIL DESCRIPTION OF COST ELEMENTS			
1. DIRECT MATERIAL (Itemize on Exhibit A)	EST COST (\$)	TOTAL EST COST*	REFERENCE*
a. PURCHASED PARTS			
b. SUBCONTRACTED ITEMS			
c. OTHER - (1) RAW MATERIAL			
(2) YOUR STANDARD COMMERCIAL ITEMS			
(3) INTERDIVISIONAL TRANSFERS (At other than cost)			
TOTAL DIRECT MATERIAL			
2. MATERIAL OVERHEAD* (Rate % of % of base =)			
3. DIRECT LABOR (Specify)	ESTIMATED HOURS	RATE/HOUR	EST COST (\$)
Ken Boren, GeoProducts	1008	34	34,272
Kevin Johnson, GeoProducts	2822	19	53,626
Richard Ferreira, California DWR	806	34	27,418
Alexander Black, GeoProducts	500	no funds requested	
Administrative Assistant	1210	8	9,677
TOTAL DIRECT LABOR			124,993
4. LABOR OVERHEAD (Specify Department or Cost Center)*	O.H. RATE	% BASE =	EST COST (\$)
TOTAL LABOR OVERHEAD			
5. SPECIAL TESTING (Including field work at Government installations)		EST COST (\$)	
TOTAL SPECIAL TESTING			
6. SPECIAL EQUIPMENT (If direct charge) (Itemize on Exhibit A)			
7. TRAVEL (If direct charge) (Give details on attached Schedule)		EST COST (\$)	
a. TRANSPORTATION	TRAVEL		
A: PER DIEM OR SUBSISTENCE			
TOTAL TRAVEL			28,809
8. CONSULTANTS (Identify - purpose - rate)		EST COST (\$)	
John Marlett, California DWR geologist 240 hrs @ \$32		7680	
George Zehal, geologist, 240 hrs @ \$32		7680	
Environmental Consultant, 120 hrs @ \$32		3840	
TOTAL CONSULTANTS			19,200
9. OTHER DIRECT COSTS (Itemize on Exhibit A)			
TOTAL DIRECT COST AND OVERHEAD			
10.			
11. GENERAL AND ADMINISTRATIVE EXPENSE (Rate % of cost element No. 1)			
12. ROYALTIES*			
13.	TOTAL ESTIMATED COST		173,002
14. FEE OR PROFIT			
15.	TOTAL ESTIMATED COST AND FEE OR PROFIT		

OPTIONAL FORM 99
October 1971
General Services Administration
FPR 1-10-806



Task 9: Reporting

CONTRACT PRICING PROPOSAL (RESEARCH AND DEVELOPMENT)		Office of Management and Budget Approval No. 29-RO184	
This form is for use when (i) submission of cost or pricing data (see FPR 1-3.407-3) is required and (ii) substitution for the Optional Form 39 is authorized by the contracting officer.		PAGE NO.	NO. OF PAGES
NAME OF OFFEROR GeoProducts Corporation		SUPPLIES AND/OR SERVICES TO BE FURNISHED Geothermal well drilling and related services	
HOME OFFICE ADDRESS 1330 Broadway, Suite 1400 Oakland, CA 94612			
DIVISION(S) AND LOCATION(S) WHERE WORK IS TO BE PERFORMED Project Location: Lassen Co., CA		TOTAL AMOUNT OF PROPOSAL \$ 1,493,584	GOV'T SOLICITATION NO. DE-SC07-80ID12139
DETAIL DESCRIPTION OF COST ELEMENTS			
1. DIRECT MATERIAL (Itemize on Exhibit A)		EST COST (\$)	TOTAL EST COST
a. PURCHASED PARTS			
b. SUBCONTRACTED ITEMS			
c. OTHER—(1) RAW MATERIAL			
(2) YOUR STANDARD COMMERCIAL ITEMS			
(3) INTERDIVISIONAL TRANSFERS (At other than cost)			
TOTAL DIRECT MATERIAL			
2. MATERIAL OVERHEAD (Rate % of base here =)			
3. DIRECT LABOR (Specify)	ESTIMATED HOURS	RATE/HOUR	EST COST (\$)
Ken Boren, GeoProducts	101	34	3427
Kevin Johnson, GeoProducts	202	19	3830
Administrative Assistant	202	8	1613
TOTAL DIRECT LABOR			8870
4. LABOR OVERHEAD (Specify Department or Cost Center)	O.H. RATE	BASE =	EST COST (\$)
TOTAL LABOR OVERHEAD			
5. SPECIAL TESTING (Including field work at Government installations)			EST COST (\$)
TOTAL SPECIAL TESTING			
6. SPECIAL EQUIPMENT (If direct charge) (Itemize on Exhibit A)			
7. TRAVEL (If direct charge) (Give details on attached Schedule)			EST COST (\$)
a. TRANSPORTATION			
b. PER DIEM OR SUBSISTENCE			
TOTAL TRAVEL			
8. CONSULTANTS (Identify—purpose—rate)			EST COST (\$)
TOTAL CONSULTANTS			
9. OTHER DIRECT COSTS (Itemize on Exhibit A)			2218
TOTAL DIRECT COST AND OVERHEAD			
10. GENERAL AND ADMINISTRATIVE EXPENSE (Rate % of cost element No.)			
11. ROYALTIES			
TOTAL ESTIMATED COST			11,088
12. FEE OR PROFIT			
TOTAL ESTIMATED COST AND FEE OR PROFIT			

OPTIONAL FORM 39
October 1971
General Services Administration
FPR 1-3.407-3

<u>TASK</u>	<u>COST</u>	<u>START DATE</u> (Assumes Start Date of 12/01/80)	<u>END DATE</u>
1. Financial	N/A	12/01/80	01/01/81
2. Environmental and Institutional	6,770	12/01/80	02/28/81
3. Site Selection	4,000	01/03/81	01/06/81
4. Production Drilling and Logging	698,250	01/01/81	08/15/81
5. Production Flow Testing	23,000	08/15/81	12/20/81
6. Injection Drilling and Testing	577,474*	02/01/82	05/30/82
7. Determination of Cost Share	N/A		07/30/82
8. Project Management	173,002	12/01/80	11/10/82
9. Reporting	11,088		
10. Dissemination of Information	N/A	As Appropriate	
11. DOE Conferences	(Reimbursable)	As Requested	
TOTAL	\$1,493,584 =====		

*Total includes \$17,424 for flow pipeline rental.

MILESTONE SUMMARY

<u>MILESTONE NO.</u>	<u>COMPLETION DATE</u> (Assumes Start Date of 12-01/80)
1. (Financial)	01/01/81
2. (Environmental)	02/28/81
3. (Drill Site Selection)	01/06/81
4. (Production Drilling)	08/15/81
5. (Flow Test)	12/20/81
6,7. (Injection Drilling and Testing)	04/30/82; 05/30/82
8. (Cost Share)	07/30/82

Table 5.1 Schedule and Cost Summary

SECTION 6


PROJECT FINANCIAL PLAN

PROJECT FINANCIAL PLAN

Explanation. As explained in Volume I, Technical Proposal, capital costs through the installation of the utilization system is a function of resource characteristics. A summary of these capital requirements is given in Table 6.1.

Financing for this project will be approached in the following manner.

1. Pending successful negotiation of a cooperative agreement with DOE the parties intend to secure drilling funds from the Bank of Montreal (California). A letter of intent summarizing negotiations between the parties is attached for reference. The effective interest rate for this proposal is assumed to be 11.5%. Total funds borrowed assuming a completely successful well would be \$1,194,860 (Table 6.1).
2. Upon determination of actual resource temperature and flow, it is likely that overall project financing would be established through the installation of the utilization system, e.g. \$3,295,240 at 250°F. Financial arrangements for this stage of the program will depend on results of the drilling effort. Several alternatives will be considered such as equity, lease, loan, leverage lease, and bonds. The selection of the financing vehicle will reflect the desire of the participants to maximize flexibility, income, and control, and minimize risk.

 Bank of Montreal (California)
The First Canadian Bank of California

September 2, 1980

Mr. Kenneth L. Boren, President
GeoProducts Corporation
1330 Broadway
Oakland, CA 94612

Dear Mr. Boren:

Upon receipt and subsequent review and approval of your proposal "Direct Use of Geothermal Fluids for the Dehydration of Wood Wastes" to be submitted under the Department of Energy's current User Coupled Drilling Program, the Bank of Montreal (California) will be pleased to provide funding in support of the proposed development effort.

Our support is contingent upon acceptance and successful negotiations of a cooperative agreement between the California Department of Water Resources, GeoProducts Corporation and the Department of Energy. Said funding to be provided on the basis of sufficient fiscal guarantees, an interest rate based on the average prime rate over the period, for a term not to exceed 15 years.

We look forward to working with GeoProducts on this most interesting venture.

Very truly yours,

John Woods
Vice President

JW/sf

Resource Temperature	390°F	350°F	300°F	275°F	250°F	225°F
<u>User Coupled</u>						
Production Well	\$721,250	\$721,250	\$721,250	\$721,250	\$721,250	\$721,250
Injection Well	577,474(1)	577,474	577,474	577,474	577,474	577,474
Other Costs	194,860	194,860	194,860	194,860	194,860	194,860
	<u>1,493,584</u>	<u>1,493,584</u>	<u>1,493,584</u>	<u>1,493,584</u>	<u>1,493,584</u>	<u>1,493,584</u>
DOE 20%	298,717	298,747	298,747	298,747	298,747	298,747
Subtotal	<u>1,194,867</u>	<u>1,194,867</u>	<u>1,194,867</u>	<u>1,194,867</u>	<u>1,194,867</u>	<u>1,194,867</u>

Production Well	-0-	-0-	721,250	721,250	721,250	442,500
Piping	51,940	63,880	89,880	89,880	103,450	148,300
Pumps	83,614	100,266	133,711	160,453	200,673	267,493
Dryer	<u>500,000</u>	<u>589,000</u>	<u>781,000</u>	<u>905,000</u>	<u>1,075,000</u>	<u>300,000</u>
Total Capital Costs (2)	<u>\$1,830,421</u>	<u>\$1,948,013</u>	<u>\$2,920,708</u>	<u>\$3,071,450</u>	<u>\$3,295,240</u>	<u>\$4,353,160</u>
	=====	=====	=====	=====	=====	=====

(1) Includes \$17,424 pipe rental.

(2) The installation of capital equipment for difference resource conditions will actually include engineering, G&A, etc. Those costs are not included here.

Table 6.1 Summary of Capital Costs

Cost Controls, Schedules And Other Management Systems

In order to insure cost effective project management of the proposed drilling activities, the project will utilize management by objective (MBO) in completion of the work effort. This system has been selected to reflect the goal of:

successful completion of production/injection well drilling, considering variables of subsurface geological regimes, land and lease position, environmental concerns, resource requirements and a cost-effective work effort.

An MBO approach to this project will provide the project participants with a basis from which trade offs between end results and estimated costs can be evaluated.

Upon successful negotiation of a cooperative agreement with DOE a "kick-off" meeting of all parties concerned will be held to define ultimate objectives of the project and review work completed to date.

Based on these objectives and schedules and budget estimates contained elsewhere in this proposal, the project manager will establish a Budget/Cost Control System. General element of this system follow:

The project manager will prepare Quarterly budgets and schedules by general task category or "work package" and submit same to the program directors for review and approval.

Invoices submitted during the period will be reviewed by the project manager for accuracy, completeness and compared with work performed to date. Upon determination of validity, the invoices will be submitted to the program directors for approval and payment.

Expenditures and work performed during the period will be compared with the appropriate budget and schedule and an analysis of variance of expected costs to actual costs will be performed. Variations and explanations will be reviewed by the project manager and compared to the objectives of the project.

Scheduling will generally be performed by the use of a bar chart timeline, and a simplified CPM network. It is not expected that enhanced PERT or CPM methods will be needed. However, the project manager and program directors are familiar with these and other advanced management scheduling techniques that may be applied if needed or desired.

SECTION 7

ORGANIZATIONAL INFORMATION

ORGANIZATION INFORMATION

Introduction. The proposing team, California Department of Water Resource (DWR) and GeoProducts Corporation, represent a unique combination of experience, perspective, and financial resources available to support the project. Since September of 1979, GeoProducts and DWR with the USDA-Forest Service have been formally managing and developing the overall project. The two parties have renewed their commitment to the project's success, as evidenced by this joint proposal. Successful application and procurement of a resource development loan discussed above will be the responsibility of both parties.

CALIFORNIA DEPARTMENT OF WATER RESOURCES (DWR)

Description. DWR was established in 1956. The role of the Department is to protect, conserve, develop and manage California's water. The Department has planning responsibility for supplying suitable water for personal use, irrigation, industry, recreation, power generation, and fish and wildlife. It also means protecting people from floods and dam failures and working cooperatively with other agencies on water-related matters.

It is responsible for the design, construction and operation of the State Water Project, which has contracts to deliver up to 4,230,000 acre feet of water annually. The 31 public agencies which have contracted for this water are spread from Butte and Plumas Counties in the north to the high Metropolitan Water District of Southern California in the south. Water is stored behind Oroville Dam and in other State reservoirs in the North, and is transported 444 miles southward to Lake Perris in the California Aqueduct. More than one-half of the water will have to be lifted 3000 feet in elevation in future years for delivery. By the year 2000, the State Water Project's use of energy is expected to reach 10 billion kilowatt hours per year.

The Department presently employs 2,400 people. Of this total, about 1,000 are graduate engineers and professionals, 450 are technicians, 525 are trade and maintenance employees and 425 have clerical responsibilities.

Recent Contracts

Each year the Department of Water Resources has several contracts with various agencies of the Federal Government and has demonstrated the ability to perform on schedule and within estimated costs.

Recent Contracts

Each year the Department of Water Resources has several contracts with various agencies of the Federal Government and has demonstrated the ability to perform on schedule and within estimated costs.

The following is a list of current or recent contracts between the Department and agencies of the Federal Government.

1. Agency: U.S. Bureau of Reclamation
Contract No.: 7-07-20-W0098
Amount: \$501,000
Subject: Construction of pumping plant at Woodward Island and other emergency facilities to improve water deliveries during the drought.
Contracting Officer: Acting Regional Director
H. E. Horton 916-484-4571
2. Agency: U.S. Army Corps of Engineers
Contract No.: DACW05-78-C-0055
Amount: \$608,960
Subject: National Dam Safety Inspection Program.
Contracting Officer: Lieutenant Colonel Carlos W. Hickman
916-440-2487
3. Agency: U.S. Bureau of Reclamation
Contract No.: 8-07-20-X0042
Amount: \$374,000
Subject: Trinity River Basin Fish and Wildlife Task Force Studies
Contracting Officer: Regional Director B. E. Martin
916-484-4571

Financial Data. The financial statements of the California Department of Water Resources are based on the principles and requirements of the Burns-Porter Act, the Central Valley Project Act and other provisions of the California Water Code, the Central Valley Project Revenue Bonds Oroville Division and Devil Canyon-Castaic Facilities; and the Standard Provisions for the Water Supply Contract and executed contracts related thereto.

Annually, the Department of Water Resources publishes a report on "The California State Water Project". The following highlights are for the years 1975, 1976 and 1977.

	HIGHLIGHTS		
	1977	1976	1975
Working Capital	\$ 161,853,000	\$ 167,615,000	\$ 156,470,000
Construction Expenditures	38,599,000	26,526,000	32,140,000
Current Assets	201,453,000	201,422,000	186,860,000
Total Assets	2,653,158,000	2,611,193,000	2,561,766,000
Operating Revenues and Other Income	161,831,000	159,562,000	156,614,000
Operating Expenses	51,001,000	46,088,000	42,732,000
Debt Repayments	89,513,000	90,034,000	89,894,000
Net Revenues	21,317,000	23,441,000	23,987,000
Water Supply Contractors	31	31	31
Water Supply Contractor Payments	11,174,995	106,437,000	98,833,000
Water Deliveries - Cubic Hectometres	1,174	2,549	2,357.4
Water Deliveries - Acre-Feet	952,146	2,066,450	1,911,152
Power Generated (kWh)	817,460,000	2,077,476,000	3,101,195,000

GEOPRODUCTS CORPORATION

Description. GeoProducts, a California corporation, is engaged in the commercialization of alternative energy processes. Utilizing the talents of a corporate staff of six and a research development staff of 5. GeoProducts is active in the geothermal, biomass and fuel alcohol fields. GeoProducts has expertise in the area of project management, financial planning, geology, engineering, resource evaluation, land development, economic/feasibility analysis and resource acquisition.

Originally organized by six individuals, GeoProducts has recently restructured its financial base to provide for the development and implementation of projects such as this. In May 1980, Southern Pacific Land Company purchased 50% of GeoProducts' stock. The effect of that transaction is reflected in the current July 30, 1980 financial statement attached below.

GeoProducts' expertise in the resources fields coupled with Southern Pacific Land Co.'s vast timber and natural resource holdings will facilitate the successful development and implementation of many energy projects.

Contracts. GeoProducts is not party to any government contract, other than the Planning and Feasibility study agreement listed in Appendix A.

Financial Data. Portions of GeoProducts past financial statements are presented on the following pages.

COTHRAN & JOHNSON

ACCOUNTANCY CORPORATION
CERTIFIED PUBLIC ACCOUNTANTS
OAKLAND, CALIFORNIA 94607

Shareholders
GeoProducts Corporation
Oakland, California

The accompanying balance sheet of GeoProducts Corporation as of June 30, 1980 and the related statements of income, retained earnings, and the supplementary information for the period then ended have been compiled by us. We are not independent with respect to the financial statements.

A compilation is limited to presenting in the form of financial statements information that is the representation of management. We have not audited or reviewed the accompanying financial statements and supplementary information and, accordingly, do not express an opinion or any other form of assurance on them.

Management has elected to omit substantially all of the disclosures and the statement of changes in financial position required by generally accepted accounting principles. If the omitted disclosures and the statement of changes in financial position were included in the financial statements, they might influence the user's conclusions about the company's financial position, results of operations, and changes in financial position. Accordingly, these financial statements are not designed for those who are not informed about such matters.

COTHRAN & JOHNSON,
Accountancy Corporation


EARL D. COTHRAN

Oakland, California
July 30, 1980

GeoProducts Corporation
BALANCE SHEET
June 30, 1980

ASSETS

Current assets			
Cash on hand		200.00	
Cash in bank-UCB		(20,631.05)	
Cash-restricted		231.65	
Cash - Kemper fund		152,028.12	
Accts receivable -employees		241.67	
Accts. Receiv. - GeoCal		51,814.42	
Accts. Receiv. - H.L.H.F.		32,000.00	
Interest receivable		9,159.40	
Advances - A. Black		12,215.00	
Advances - K. Boren		10,600.00	
Advances - K. Johnson		14,715.00	
Notes Receivable-Land Sale		5,139.50	
Note rec.-sale of HLHF		242,000.00	
Notes receivable - Ragan		8,000.00	
Note receivable - Greg Fisk		4,000.00	
Prepaid insurance		829.52	
Prepaid franchise tax		800.00	
Deposits		801.19	
Total current assets			\$524,144.42

Marketable securities		210,000.00	
Property & equipment			
Office Equipment	13,379.92		
Accum. deprec.-office equip.	(1,746.30)	11,633.62	
Vehicles	14,571.12		
Accum. deprec. - vehicles		(2,432.00)	
Land		134,928.75	
Total property & equipment			\$368,701.49

Other assets			
Organization expense	1,089.00		
Organization - amortiz.		(816.00)	
Investment in GeoEthynol		30,792.23	
Total other assets			\$31,065.23

Total assets			\$923,911.14
			=====

See Accountant's Compilation Report

GeoProducts Corporation
BALANCE SHEET
June 30, 1980

LIABILITIES

Current liabilities

Accts. payable - trade	4,894.14	
Payable to VTN - Black	(17,072.43)	
Acct. payable-Hybrid Plant	(.01)	
Note payable-Peek & Pollock	1,118.50	
Lease payable	12,992.16	
Accrued interest payable	13,485.61	
Notes payable-Southern Pacific	50,000.00	
Expense acct pay - Boren	586.94	
Expense acct pay - Black	571.19	
Accrued salaries - 12-31-78	10,886.99	
Federal withholding tax	2,949.02	
FICA	6,538.54	
State withholding tax	853.80	
SDI	33.76	
SUI	729.88	
FUTA	168.28	
Accrued franchise tax	400.00	
Total current liabilities		\$89,136.37

Other liabilities

Note payable	12,066.86	
Notes payable - Land	41,200.00	
Notes Payable - GeoCal	24,173.49	
Total other liabilities		\$77,440.35

STOCKHOLDERS EQUITY

Common stock		159,236.65	
Paid in capital/excess of par	688,208.00		
Retained earnings beg.	(389,934.43)		
Earnings to date	299,824.20		
Retained earnings end.	.00	598,097.77	
Total stockholders equity			\$757,334.42

Total liability & equity

\$923,911.14

=====

See Accountant's Compilation Report

GeoProducts Corporation
STATEMENT OF INCOME
For the nine months ended June 30, 1980

	CURRENT PERIOD		YEAR-TO-DATE	
	\$	%	\$	%
Income				
Billings to ptrs.	4,307.78	2.03	35,999.90	5.71
Mgmt. fee-Hybrid Power Plant	.00	.00	53,884.47	8.54
Mgmt. fee - Southern Pacific	.00	.00	318.00	.05
Mgmt. fee - GeoEthynol	208,000.00	97.97	533,000.00	84.47
Engineering	.00	.00	7,602.02	1.20
Lease income	.00	.00	160.00	.03
Total Income	\$212,307.78	100.00	\$630,964.39	100.00
Expenses billed to prtnrship.	3,916.16	1.84	32,728.78	5.19
Gross Margin	\$208,391.62	98.16	\$598,235.61	94.81
General & administrative exp.	44,667.30	21.04	342,843.36	54.34
Income from operations	\$163,724.32	77.12	\$255,392.25	40.48
Other income & expense				
Interest income	.00	.00	4,793.62	.76
Other income	.00	.00	4,951.48	.78
Refunds - other income	.00	.00	(125.14)	(.02)
Refunds - income taxes	.00	.00	876.89	.14
Gain on sale of land	.00	.00	4,547.00	.72
Loss on limited prtshp	.00	.00	30,150.32	4.78
Total other income & expense	\$.00	.00	\$45,194.17	7.16
Income before taxes	\$163,724.32	77.12	\$300,586.42	47.64
Income taxes	.00	.00	200.00	.03
Net income	\$163,724.32	77.12	\$300,386.42	47.61

See Accountant's Compilation Report

Certified Public Accountants

John F.
Forbes & Co.

GEOPRODUCTS CORPORATION

FINANCIAL STATEMENTS

FIFTEEN MONTHS ENDED DECEMBER 31, 1979

John F.
Forbes & Co.

ACCOUNTANTS' REPORT

The Board of Directors
GeoProducts Corporation:

We have examined the balance sheet of GeoProducts Corporation at December 31, 1979, and the related statements of income and retained earnings and changes in financial position for the fifteen months then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion, the financial statements referred to above present fairly the financial position of GeoProducts Corporation at December 31, 1979, and the results of its operations and changes in financial position for the fifteen months then ended, in conformity with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

Oakland, California

May 31, 1980

John F. Forbes & Co.

A S S E T S

CURRENT ASSETS:

Cash.....		\$ 46,383
Advances to stockholders and employees.....		57,707
Accounts receivable:		
Affiliated limited partnership (Note 1).....	\$ 4,266	
Other.....	<u>33,589</u>	37,855
Interest receivable.....		9,159
Current portion of notes receivable.....		50,800
Prepaid expenses.....		<u>1,514</u>
Total current assets.....		203,418

NOTES AND OTHER RECEIVABLE, NET OF CURRENT

PORTION (Note 2).....		225,412
-----------------------	--	---------

PROPERTY AND EQUIPMENT, AT COST (Note 1):

Land (Note 3).....	134,929	
Equipment and automobile.....	<u>21,798</u>	
	156,727	
Less accumulated depreciation.....	<u>1,799</u>	
Total property and equipment.....		154,928

OTHER:

Option on patent rights.....	30,000	
Other.....	<u>1,181</u>	31,181

\$614,939

LIABILITIES AND
STOCKHOLDERS' EQUITY (DEFICIENCY) (NOTE 9)

CURRENT LIABILITIES:

Notes payable (Note 4).....		\$ 488,284
Accounts payable and accrued expenses:		
Trade.....	\$ 134,256	
Salaries and wages.....	194,731	
Interest.....	52,834	
Payroll taxes.....	5,927	
Other.....	17,431	405,179
Current maturities of long-term debt.....		3,628
Total current liabilities.....		<u>897,091</u>

LONG-TERM DEBT, NET OF CURRENT MATURITIES (Note 5)..... 65,381

STOCKHOLDERS' EQUITY (DEFICIENCY) (Note 9):

Common stock, par value \$1 per share, authorized 1,000,000 shares; issued and outstanding 105,000 shares.....	110,902	
Additional paid-in capital.....	10,000	
Retained earnings (deficit).....	(468,435)	
Total stockholders' equity (deficiency).....		(347,533)

\$ 614,939

GEOPRODUCTS CORPORATION

STATEMENT OF INCOME AND RETAINED EARNINGS
FIFTEEN MONTHS ENDED DECEMBER 31, 1979

SERVICES AND COSTS BILLED TO AFFILIATED LIMITED PARTNERSHIP (Note 1).....		\$ 100,280
EXPENSES RELATED TO AFFILIATED LIMITED PARTNERSHIP.....		<u>92,375</u>
EXCESS OF BILLINGS OVER EXPENSES.....		<u>7,905</u>
OPERATING EXPENSES:		
General and administrative.....		245,104
Research and development - Biomass conversion process...		18,000
Feasibility study - Hybrid power plant.....	\$21,825	
Less reimbursements from governmental agencies (Note 1).....	<u>18,178</u>	<u>3,647</u>
		<u>266,751</u>
OPERATING (LOSS).....		(258,846)
OTHER INCOME:		
Interest income.....	23,089	
Gain on sale of land (Note 3).....	4,547	
Other income.....	<u>611</u>	<u>28,247</u>
		(230,599)
OTHER DEDUCTIONS:		
Interest expense.....	54,388	
Loss on receivables from limited partnership (Note 8).....	52,853	
Other.....	<u>2,524</u>	<u>109,765</u>
NET (LOSS).....		(340,364)
RETAINED EARNINGS (DEFICIT), OCTOBER 1, 1978.....		<u>(128,071)</u>
RETAINED EARNINGS (DEFICIT), DECEMBER 31, 1979.....		<u><u>\$ (468,435)</u></u>

GEOPRODUCTS CORPORATION

FINANCIAL STATEMENTS
with
REPORT OF CERTIFIED PUBLIC ACCOUNTANTS
YEARS ENDED SEPTEMBER 30, 1978 AND 1977

ELMER FOX, WESTHEIMER & CO.

CERTIFIED PUBLIC ACCOUNTANTS

GEOPRODUCTS CORPORATION

BALANCE SHEETS

ASSETS

	September 30,	
	1978	1977
Current assets:		
Cash	\$ 528	\$ 8,046
Account receivable - joint venture	3,569	-
Unbilled accounts receivable from affiliated limited partnership	12,791	20,126
Account receivable - officer	-	18,000
Current portion of notes receivable	1,823	2,463
Prepaid expenses	2,240	1,601
Capital stock subscriptions receivable	-	673
Deferred income taxes	-	910
Other	1,464	487
Total current assets	22,415	52,306
Property and equipment, at cost:		
Office equipment	4,270	-
Less accumulated depreciation	324	-
	3,946	-
Investments and other assets:		
Investment in Geothermal California Partners	-	-
Investment in and advances to Honey Lake Hydroponic Farms	131,447	-
Investment in land, at cost	136,382	116,240
Account receivable from affiliated limited partnership	48,351	-
Notes receivable	28,964	33,487
Restricted cash	7,351	7,829
Unamortized organization costs	653	871
Other	400	200
	353,548	158,627
	\$379,909	\$210,933

LIABILITIES AND STOCKHOLDERS' EQUITY (DEFICIT)

	September 30,	
	<u>1978</u>	<u>1977</u>
Current liabilities:		
· Accounts payable	\$ 15,377	\$ 19,449
Accrued salaries	26,200	4,166
Notes payable	223,000	-
Current portion of long-term debt	1,750	-
Advances from affiliated limited partnership	-	4,367
Note payable - affiliated limited partnership	-	22,362
Accrued expenses - officers	27,827	9,515
Accrued interest payable	9,015	2,910
Other accrued expenses	-	3,456
Income taxes payable	-	910
	<u>303,169</u>	<u>67,135</u>
Long-term debt	<u>83,909</u>	<u>46,000</u>
Stockholders' equity (deficit):		
Common stock, \$1 par value		
Authorized - 1,000,000 shares		
Issued and outstanding - 105,000 shares	110,902	110,902
Stock option	10,000	-
Accumulated deficit	<u>(128,071)</u>	<u>(13,104)</u>
	<u>(7,169)</u>	<u>97,798</u>
	<u>\$ 379,909</u>	<u>\$210,933</u>

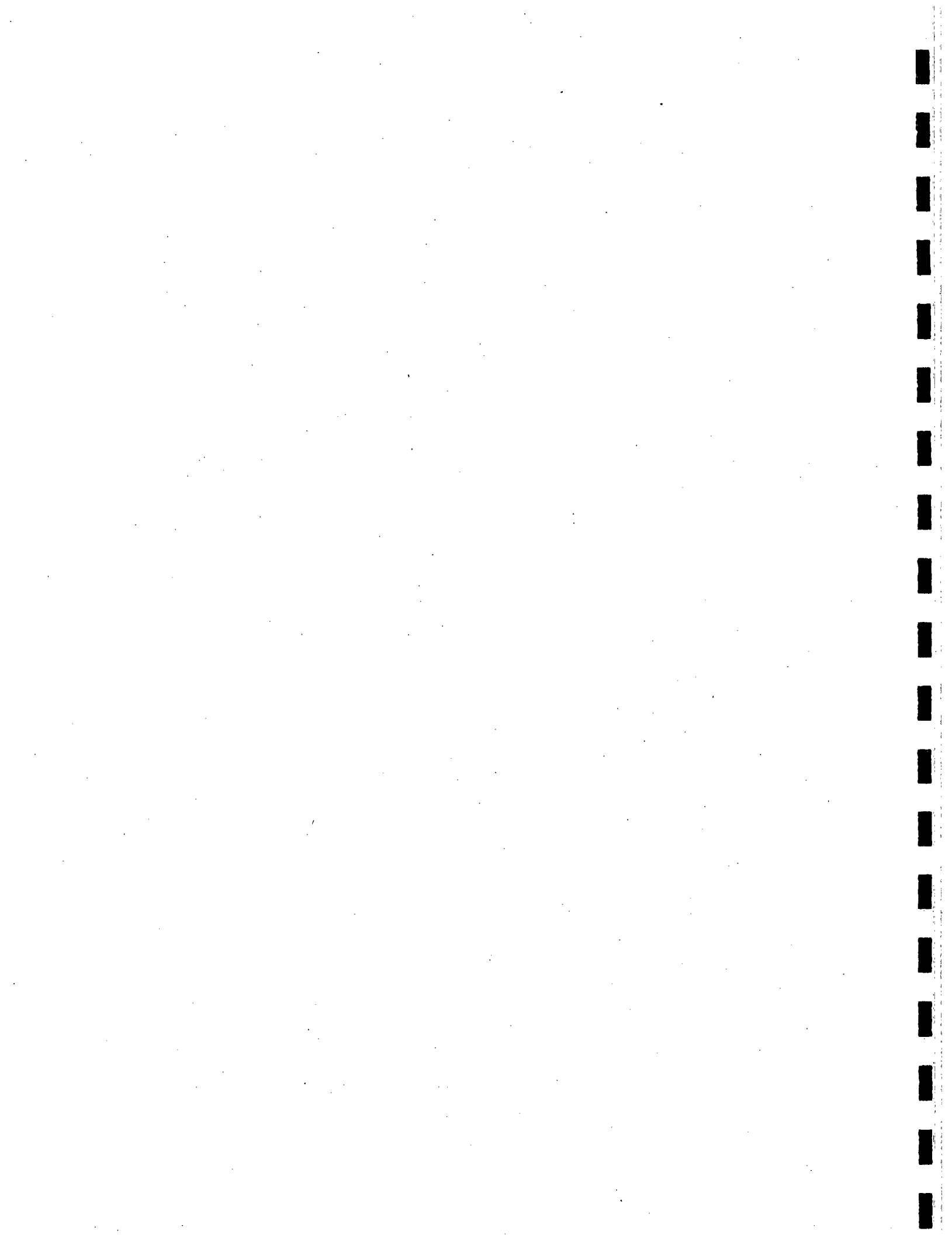
GEOPRODUCTS CORPORATION
STATEMENTS OF OPERATIONS

	<u>Year ended September 30,</u>	
	<u>1978</u>	<u>1977</u>
Billings to affiliated limited partnerships	\$ 230,151	\$134,071
Costs and expenses allocated to affiliated limited partnerships	<u>188,216</u>	<u>110,208</u>
Excess of billings over expenses	41,935	23,863
Management fee from affiliated limited partnership	<u>70,000</u>	<u>-</u>
	<u>111,935</u>	<u>23,863</u>
General and administrative expenses:		
Commissions paid to officer	48,000	-
Outside services	27,414	2,528
Legal and accounting	19,211	14,051
Salary	13,925	13,542
Officers' life insurance	10,107	2,576
Property tax	7,193	7,630
Payroll taxes	2,602	2,385
Daily expenses	1,295	2,191
Travel expense	1,230	5,360
General insurance	1,200	2,752
Subscriptions	1,051	101
Office rent	1,025	2,184
Business meetings and conferences	707	154
Telephone	705	1,166
Employee benefits	630	1,574
Office supplies	586	809
Other expenses	<u>1,537</u>	<u>4,790</u>
	<u>138,418</u>	<u>63,793</u>
Loss from operations	<u>(26,483)</u>	<u>(39,930)</u>
Other income (expense):		
Loss on investment in and advances to affiliated limited partnership	(78,563)	-
Interest expense	(12,207)	(6,445)
Equity in net loss of affiliated limited partnership	(3,852)	-
Interest income	5,928	540
Other	210	-
Gain on sale of land	<u>-</u>	<u>29,773</u>
	<u>(88,484)</u>	<u>23,868</u>
Net loss	<u><u>\$(114,967)</u></u>	<u><u>\$(16,062)</u></u>

SECTION 8

OTHER REQUIRED FORMS





Representations and Certifications (Cont'd)

5. EQUAL OPPORTUNITY COMPLIANCE

[Applicable to proposals exceeding \$1,000,000]

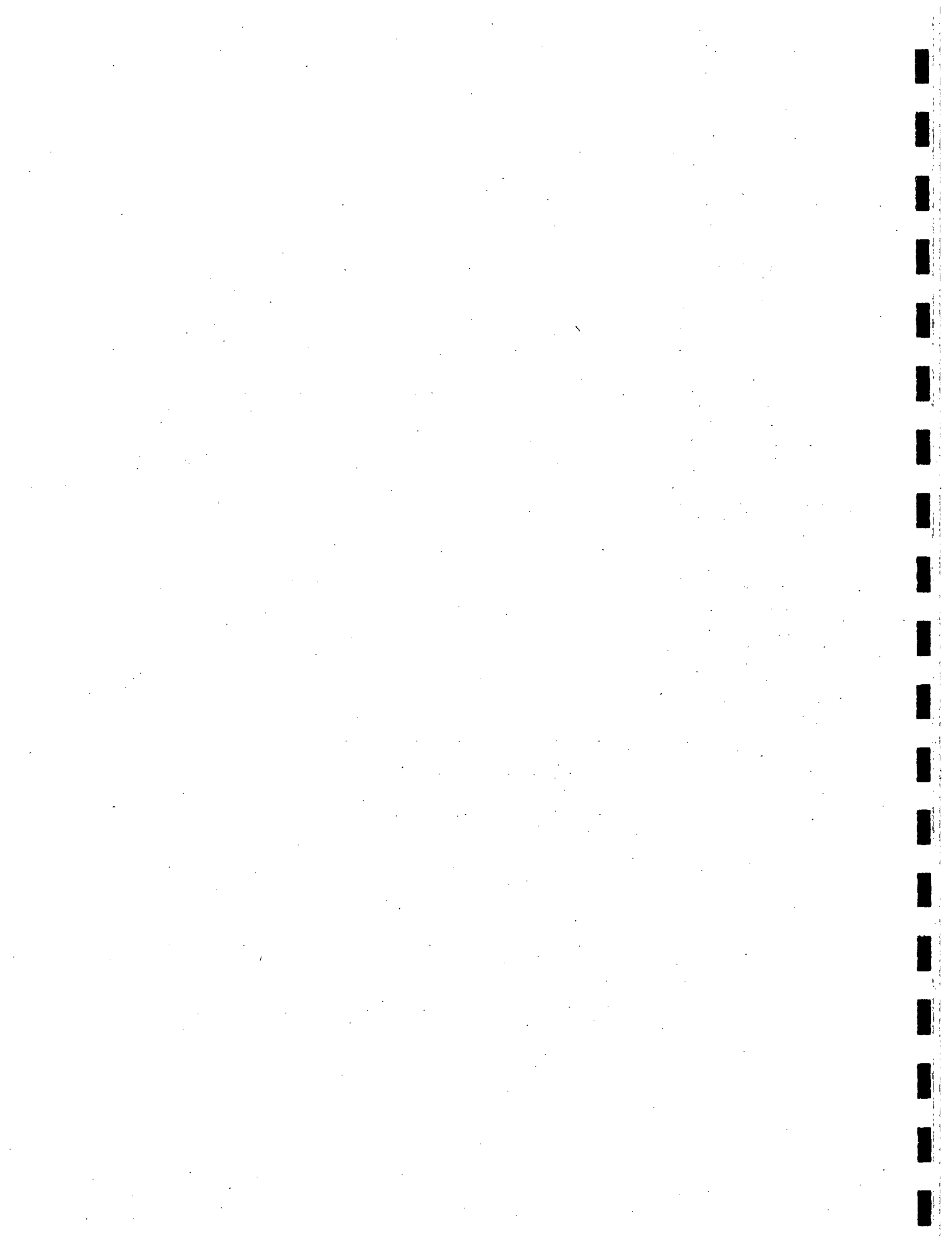
The offeror represents -

- a. That a full compliance review of the offeror's employment practices () has, (✓) has not, been conducted by an agency of the Federal Government.
- b. If a full compliance review has been conducted by an agency of the Federal Government, the most recent compliance review was conducted on _____ by _____.
(Date) (Federal Agency)
- c. The proposed first-tier subcontractors which will be awarded subcontracts of \$1,000,000 or more are none

Any offeror and his known first-tier subcontractors which will be awarded subcontracts of \$1,000,000 or more will be subject to full, preaward equal opportunity compliance reviews before the award of the contract for the purpose of determining whether the proposer and his subcontractors are able to comply with the provisions of the Equal Opportunity article.

6. CERTIFICATION OF NONSEGREGATED FACILITIES

By the submission of this proposal, the offeror, applicant, or subcontractor certifies that it does not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. It certifies further that it will not maintain or provide for its employees any segregated facilities at any of its establishments, and that it will not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The offeror, applicant, or subcontractor agrees that a breach of this certification is a violation of the Equal Opportunity clause in this contract. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, creed, color, or national origin, because of habit, local custom, or otherwise. It further agrees that (except where it



Representations and Certifications (Cont'd)

6. CERTIFICATION OF NONSEGREGATED FACILITIES (Cont'd)

has obtained identical certifications from proposed subcontractors for specific time periods) it will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity clause; that it will retain such certifications in its files; and that it will forward the following notice to such proposed subcontractors (except where the proposed subcontractors have submitted identical certifications for specific time periods):

NOTICE TO PROSPECTIVE SUBCONTRACTORS OF REQUIREMENT FOR CERTIFICATION OF NONSEGREGATED FACILITIES

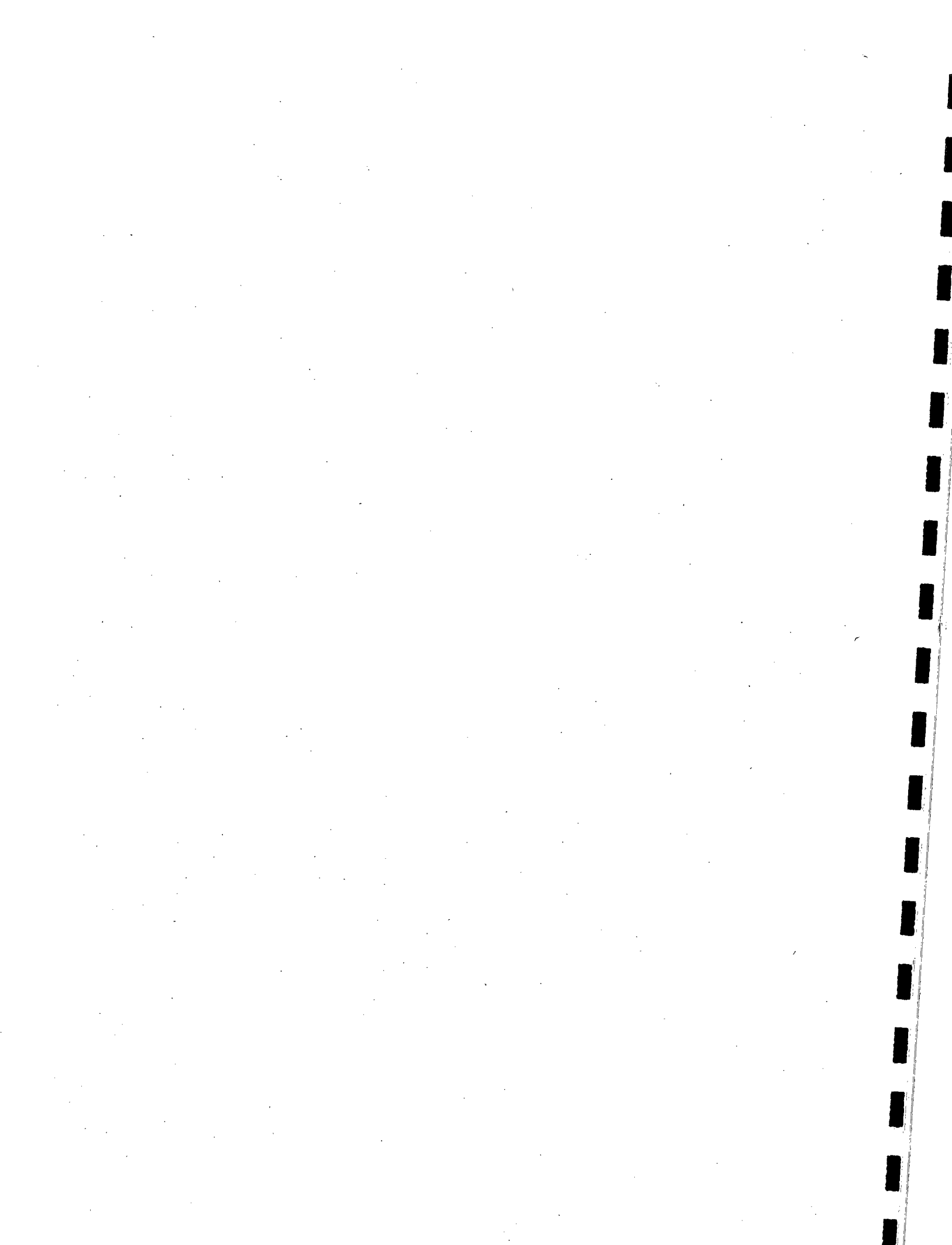
A Certification of Nonsegregated Facilities must be submitted prior to the award of a subcontract exceeding \$10,000 which is not exempt from the provisions of the Equal Opportunity clause. The certification may be submitted either for each subcontract or for all subcontracts during a period (i.e., quarterly, semi-annually, or annually).

7. PARENT COMPANY AND EMPLOYER IDENTIFICATION NUMBER

Each proposer shall furnish the following information by filling in the appropriate blocks:

- a. Is the proposer ~~owned~~ or controlled by a parent company as described below? () Yes (✓) No. (For the purpose of this proposal, a parent company is defined as one which either owns or controls the activities and basic business policies of the proposer. To own another company means the parent company must own at least a majority (more than 50 percent) of the voting rights in that company. To control another company, such ownership is not required; if another company is able to formulate, determine or veto basic business policy decisions of the proposer, such other company is considered the parent company of the proposer. This control may be exercised through the use of dominant minority voting rights, use of proxy voting, contractual arrangements, or otherwise.)
- b. If the answer to a. above is "Yes", proposer shall insert in the space below the name and main office address of the parent company.

Name of Parent Company: _____



Representations and Certifications (Cont'd)

7. PARENT COMPANY AND EMPLOYER IDENTIFICATION NUMBER (Cont'd)

Main Office Address (No., Street, City, State and Zip Code)

- c. Proposer shall insert in the applicable space below, if it has no parent company, its own Employer's Identification Number (E.I. No.) (Federal Social Security Number used on Employer's Quarterly Federal Tax Return, U. S. Treasury Department Form 941), or if it has a parent company, the E.I. No. of its parent company.

Employer Identification Number of Parent Company: _____

GeoProducts Corporation 94-2357263

8. DISCLOSURE STATEMENT - COST ACCOUNTING PRACTICES AND CERTIFICATION

Any contract in excess of \$100,000 resulting from this solicitation except: (i) when the price negotiated is based on: (a) established catalog or market prices of commercial items sold in substantial quantities to the general public, or (b) prices set by law or regulations; (ii) contracts awarded to small business concerns (as defined in 1-701.1 of the Armed Services procurement regulations or FPR §1-1.701-1); or (iii) contracts which are otherwise exempt (see 4 CFR 331.30(b)) shall be subject to the requirements of the Cost Accounting Standards Board. Any offeror submitting a proposal, which, if accepted, will result in a contract subject to the requirements of the Cost Accounting Standards Board must, as a condition of contracting, submit a disclosure statement as required by regulations of the Board. The disclosure statement must be submitted as a part of the offeror's proposal under this solicitation (see (I), below) unless: (i) the offeror, together with all divisions, subsidiaries, and affiliates under common control, did not receive net awards exceeding the monetary exemption for disclosure as established by the Cost Accounting Standards Board (see (II), below); (ii) the offeror exceeded the monetary exemption in its cost accounting period immediately preceding the cost accounting period in which this proposal was submitted but, in accordance with the regulations of the Cost Accounting Standards Board, is not yet required to submit a disclosure statement (see (III), below); (iii) the offeror has already submitted a disclosure statement disclosing the practices used in connection with the pricing of this proposal



Representations and Certifications (Cont'd)

8. DISCLOSURE STATEMENT - COST ACCOUNTING PRACTICES AND CERTIFICATION (Cont'd)

(see (IV), below); or (iv) post-award submission has been authorized by the Contracting Officer. See 4 CFR 351.70 for submission of copy of disclosure statement to the Cost Accounting Standards Board.

CAUTION: A practice disclosed in a disclosure statement shall not, by virtue of such disclosure, be deemed to be a proper, approved, or agreed to practice for pricing proposals or accumulating and reporting contract performance cost data.

Check the appropriate box below.

I. CERTIFICATE OF CONCURRENT SUBMISSION OF DISCLOSURE STATEMENT(S)

The offeror hereby certifies that he has submitted, as a part of his proposal under this solicitation, copies of the disclosure statement(s) as follows: (i) original and one copy to the cognizant Contracting Officer (Administrative Contracting Officer (ACO), see DOD Directory of Contract Administration Components (DOD 4105.59H)); and (ii) one copy to the cognizant contract auditor.

Date of
Disclosure Statement(s)

Name(s) and Address(es) of Cognizant
Contracting Officer(s) Where Filed

The offeror further certifies that practices used in estimating costs in pricing this proposal are consistent with the cost accounting practices disclosed in the Disclosure Statement(s).

II. CERTIFICATE OF MONETARY EXEMPTION

The offeror hereby certifies that it, together with all divisions, subsidiaries, and affiliates under common control, did not receive net awards of negotiated national defense prime contracts and subcontracts subject to cost accounting standards totaling more than \$10 million in its cost accounting period immediately preceding the period in which this proposal was submitted. The offeror further certifies that if its status changes prior to an award resulting from this proposal it will advise the Contracting Officer immediately.

CAUTION: Offerors who submitted a Disclosure Statement under the filing requirements previously established by the Cost Accounting Standards Board may claim this exemption only if the dollar volume of CAS covered national defense prime



Representations and Certifications (Cont'd)

8. DISCLOSURE STATEMENT - COST ACCOUNTING PRACTICES AND CERTIFICATION (Cont'd)

contract and subcontract awards in their preceding cost accounting period did not exceed the \$10 million threshold and the amount of this award will be less than \$10 million. Such offerors will continue to be responsible for maintaining the disclosure statement and following the disclosed practices on CAS covered prime contracts and subcontracts awarded during the period in which a disclosure statement was required.

() III. CERTIFICATE OF INTERIM EXEMPTION

The offeror hereby certifies that: (i) it first exceeded the monetary exemption for disclosure as defined in (II) above, in its cost accounting period immediately preceding the cost accounting period in which this proposal was submitted, and (ii) in accordance with the regulations of the Cost Accounting Standards Board (4 CFR 351.40(f)), it is not yet required to submit a disclosure statement. The offeror further certifies that if an award resulting from this proposal has not been made within 90 days after the end of that period, it will immediately submit a revised certificate to the Contracting Officer, in the form specified under (I), above or (IV), below, as appropriate, to verify its submission of a completed disclosure statement.

CAUTION: Offerors may not claim this exemption if they are currently required to disclose because they were awarded a CAS covered national defense prime contract or subcontract of \$10 million or more in the current cost accounting period. Further, the exemption applies only in connection with proposals submitted prior to expiration of the 90-day period following the cost accounting period in which the monetary exemption was exceeded.

() IV. CERTIFICATE OF PREVIOUSLY SUBMITTED DISCLOSURE STATEMENT(S)

The offeror hereby certifies that the disclosure statement(s) was filed as follows:

Date of
Disclosure Statement(s)

Name(s) and Address(es) of Cognizant
Contracting Officer(s) Where Filed

The offeror further certifies that practices used in estimating costs in pricing this proposal are consistent with the cost accounting practices disclosed in the Disclosure Statement(s).



Representations and Certifications (Cont'd)

9. COST ACCOUNTING STANDARDS - EXEMPTIONS FOR CONTRACTS OF \$500,000 OR LESS

If this proposal is expected to result in the award of a contract of \$500,000 or less, the offeror shall indicate whether the exemption to the cost accounting standards clause under the provisions of 4 CFR 331.30(b)(8) is claimed. Failure to check the box below shall mean that the resultant contract is subject to the cost accounting standards clause or that the offeror elects to comply with such clause.

() The offeror hereby claims an exemption from the Cost Accounting Standards clause under the provisions of 4 CFR 331.30(b)(8) and certifies that it has received notification of final acceptance of all deliverable items on (i) all prime contracts or subcontracts in excess of \$500,000 which contain the Cost Accounting Standards clause, and (ii) all prime contracts or subcontracts of \$500,000 or less awarded after January 1, 1975, which contain the Cost Accounting Standards clause. The offeror further certifies it will immediately notify the Contracting Officer in writing in the event it is awarded any other contract or subcontract containing the Cost Accounting Standards clause subsequent to the date of this certificate but prior to the date of any award resulting from this proposal.

10. COST ACCOUNTING STANDARDS ELIGIBILITY FOR MODIFIED CONTRACT COVERAGE

If the offeror is eligible to use the modified provisions of 4 CFR Part 332, and elects to do so, it shall indicate by checking the box below. Checking the box below shall mean that the resultant contract is subject to the Disclosure and Consistency of Cost Accounting Practices clause in lieu of the Cost Accounting Standards clause.

() The offeror hereby claims an exemption from the Cost Accounting Standards clause under the provisions of 4 CFR 331.30(b)(2), and certifies that it is eligible for use of the Disclosure and Consistency of Cost Accounting Practices clause because (i) during its cost accounting period immediately preceding the period in which this proposal was submitted, it received less than \$10 million in awards of CAS covered national defense prime contracts and subcontracts, and (ii) the sum of such awards equaled less than 10 percent of his total sales during that cost accounting period. The offeror further certifies that if its status changes prior to an award resulting from this proposal, it will advise the Contracting Officer immediately.

CAUTION: Offerors may not claim the above eligibility for modified contract coverage if this proposal is expected to result in the award of a contract of \$10 million or more or if, during their current cost accounting period, they have been awarded a single CAS-covered national defense prime contract or subcontract of \$10 million or more.



Representations and Certifications (Cont'd)

11. ADDITIONAL COST ACCOUNTING STANDARDS APPLICABLE TO EXISTING CONTRACTS

The offeror shall indicate below whether award of the contemplated contract would in accordance with paragraph (a)(3) of the Cost Accounting Standards clause, require a change in its established cost accounting practices affecting existing contracts and subcontracts.

() Yes (✓) No

NOTE: If the offeror has checked "yes" above, and is awarded the contemplated contract, it will be required to comply with the Administration of Cost Accounting Standards clause.

12. CLEAN AIR AND WATER CERTIFICATION

(Applicable if the bid or offer exceeds \$100,000, or the Contracting Officer has determined that orders under an indefinite quantity contract in any year will exceed \$100,000, or a facility to be used has been the subject of a conviction under the Clean Air Act (42 U.S.C. 1857c-8(c)(1)) or the Federal Water Pollution Control Act (33 U.S.C. 1319(c)) and is listed by EPA, or is not otherwise exempt.)

The bidder or offeror certifies as follows:

- (a) Any facility to be utilized in the performance of this proposed contract has (), has not (✓), been listed on the Environmental Protection Agency List of Violating Facilities.
- (b) It will promptly notify the Contracting Officer, prior to award, of the receipt of any communication from the Director, Office of Federal Activities, Environmental Protection Agency, indicating that any facility which it proposes to use for the performance of the contract is under consideration to be listed on the EPA List of Violating Facilities.
- (c) It will include substantially this certification, including this paragraph (c), in every nonexempt subcontract.

13. SMALL AND SMALL DISADVANTAGED BUSINESS CERTIFICATION

- (a) The bidder or offeror certifies that it is (✓) is not () a small business concern as defined in accordance with Section 3 of the Small Business Act (15 U.S.C. 632).
- (b) The bidder or offeror certifies that it is a small business [as set forth in (a) above] and is () is not (✓) owned and controlled by socially and economically disadvantaged individuals. Such a firm is defined as one -



Representations and Certifications (Cont'd)

13. SMALL AND SMALL DISADVANTAGED BUSINESS CERTIFICATION (Cont'd)

- (i) which is at least 51 per centum owned by one or more such individuals or, in the case of any publicly owned business, at least 51 per centum of the stock is owned by such individuals;
 - (ii) whose management and daily business operations are controlled by one or more such individuals; and
 - (iii) which certifies concerning said ownership and control in accordance with section (c) below.
- (c) The bidder or offeror certifies that it is () is not (✓) a minority individual(s) in accordance with (c)(i) below or that it is () is not () socially and economically disadvantaged in accord with section (c)(ii) or (c)(iii). Socially and economically disadvantaged individuals are defined as:
- (i) United States citizens who are Black Americans, Hispanic Americans, Native Americans, or other specified minorities;
 - (ii) any other individual found to be disadvantaged pursuant to section 8(a) of the Small Business Act (15 U.S.C. 637);
or
 - (iii) any other individual defined as socially, and economically disadvantaged, for purposes relating to other sections of the Small Business Act.

14. WOMAN-OWNED BUSINESS

Concern is () is not (✓) a woman-owned business.

A woman-owned business is a business which is, at least, 51 percent owned, controlled, and operated by a woman or women. Controlled is defined as exercising the power to make policy decisions. Operated is defined as actively involved in the day-to-day management.

For the purposes of this definition, businesses which are publicly owned, joint stock associations, and business trusts are exempted. Exempted businesses may voluntarily represent that they are, or are not, woman-owned if this information is available.



Representations and Certifications (Cont'd)

15. PERCENT OF FOREIGN CONTENT

The offeror/contractor will represent (as an estimate), immediately after the award of a contract, the percent of the foreign content of the item or service being procured expressed as a percent of the contract award price (accuracy within plus or minus 5 percent is acceptable).

NOTE: No solicitation may be properly considered without these representations and certifications, and no award may be made without this form being executed.

Signed by

Alexander Black

Chairman of the Board

(Title)



FEDERAL ASSISTANCE		2. APPLICANT'S APPLIC- CATION		a. NUMBER	3. STATE APPLICA- TION IDENTI- FIER		a. NUMBER
1. TYPE OF ACTION <input type="checkbox"/> PREAPPLICATION <input checked="" type="checkbox"/> APPLICATION <small>(Mark appropriate box)</small> <input type="checkbox"/> NOTIFICATION OF INTENT (Opt.) <input type="checkbox"/> REPORT OF FEDERAL ACTION		b. DATE 19 <u> </u> Year month day		b. DATE 19 <u> </u> Year month day		b. DATE ASSIGNED 19 <u> </u>	
4. LEGAL APPLICANT/RECIPIENT				5. FEDERAL EMPLOYER IDENTIFICATION NO. 94-2357263			
a. Applicant Name : GeoProducts Corporation				6. PRO-GRAM (From Federal Catalog)			
b. Organization Unit				a. NUMBER			
c. Street/P.O. Box : 1330 Broadway, Ste. 1400				b. TITLE			
d. City : Oakland e. County : Alameda							
f. State : California g. ZIP Code: 94612							
h. Contact Person (Name & telephone No.) : Ken Boren, President 415/893-8365							
7. TITLE AND DESCRIPTION OF APPLICANT'S PROJECT				8. TYPE OF APPLICANT/RECIPIENT			
Geothermal/wood resource hybrid power plant. The geothermal energy will be used to dehydrate wood fuel for firing in a conventional boiler system.				A-State B-Interstate C-Substate D-District E-County F-City G-School District H-Special Purpose District			
				H-Community Action Agency I-Higher Educational Institution J-Indian Tribe K-Other (Specify): corporation <i>Enter appropriate letter</i> <input checked="" type="checkbox"/> K			
9. TYPE OF ASSISTANCE				12. TYPE OF APPLICATION			
A-Basis Grant B-Supplemental Grant C-Loan				A-New B-Renewal C-Revision D-Continuation <i>Enter appropriate letter</i> <input type="checkbox"/> A			
D-Insurance E-Other <i>Enter appropriate letter(s)</i> <input type="checkbox"/> R							
10. AREA OF PROJECT IMPACT (Names of cities, counties, States, etc.)				11. ESTIMATED NUMBER OF PERSONS BENEFITING		12. TYPE OF APPLICATION	
Lassen County, California				State of CA		<i>Enter appropriate letter</i> <input type="checkbox"/> A	
13. PROPOSED FUNDING		14. CONGRESSIONAL DISTRICTS OF:		15. TYPE OF CHANGE (For 18a or 18b)			
a. FEDERAL \$	298,717.00	a. APPLICANT	b. PROJECT	A-Increase Dollars B-Decrease Dollars C-Increase Duration D-Decrease Duration E-Cancellation <i>Enter appropriate letter(s)</i> <input type="checkbox"/> N/A			
b. APPLICANT	1,194,867.00			F-Other (Specify):			
c. STATE	.00	16. PROJECT START DATE Year month day	17. PROJECT DURATION Months				
d. LOCAL	.00	19 80-12-1	24				
e. OTHER	.00	18. ESTIMATED DATE TO BE SUBMITTED TO FEDERAL AGENCY	19				
f. TOTAL \$.00			19. EXISTING FEDERAL IDENTIFICATION NUMBER			
20. FEDERAL AGENCY TO RECEIVE REQUEST (Name, City, State, ZIP code)						21. REMARKS ADDED	
U.S. Department of Energy, Idaho Falls, Idaho 83401						<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
22. THE APPLICANT CERTIFIES THAT		a. To the best of my knowledge and belief, data in this preapplication/application are true and correct. The document has been duly authorized by the governing body of the applicant and the applicant will comply with the attached enclosures if the assistance is approved.		b. If required by OMB Circular A-95 this application was submitted, pursuant to instructions therein, to appropriate clearinghouses and all responses are attached:		Response attached	
		(1) N/A				<input type="checkbox"/>	
		(2)				<input type="checkbox"/>	
		(3)				<input type="checkbox"/>	
23. CERTIFYING REPRESENTATIVE		a. TYPED NAME AND TITLE		b. SIGNATURE		c. DATE SIGNED	
		Alexander Black Chairman of the Board		<i>Alexander Black</i>		Year month day 19 80 9 15	
24. AGENCY NAME				25. APPLICATION RECEIVED		26. FEDERAL APPLICATION IDENTIFICATION	
				19			
26. ORGANIZATIONAL UNIT				27. ADMINISTRATIVE OFFICE		28. FEDERAL APPLICATION IDENTIFICATION	
29. ADDRESS				30. FEDERAL GRANT IDENTIFICATION		31. ACTION TAKEN	
						a. AWARDED b. REJECTED c. RETURNED FOR AMENDMENT d. DEFERRED e. WITHDRAWN	
31. ACTION TAKEN		32. FUNDING		33. ACTION DATE		34. STARTING DATE	
		a. FEDERAL \$.00		19 <u> </u> Year month day		Year month day 19 <u> </u>	
		b. APPLICANT .00		35. CONTACT FOR ADDITIONAL INFORMATION (Name and telephone number)		36. ENDING DATE	
		c. STATE .00				19 <u> </u>	
		d. LOCAL .00				37. REMARKS ADDED	
		e. OTHER .00				<input type="checkbox"/> Yes <input type="checkbox"/> No	
		f. TOTAL \$.00					
38. FEDERAL AGENCY A-95 ACTION				a. In taking above action, any comments received from clearinghouses were considered. If agency response is due under provisions of Part 1, OMB Circular A-95, it has been or is being made.		b. FEDERAL AGENCY A-95 OFFICIAL (Name and telephone no.)	

SECTION I - APPLICANT/RECIPIENT DATA

SECTION II - CERTIFICATION

SECTION III - FEDERAL AGENCY ACTION

