

CONTRACTING AGENCY: ALASKA DEVELOPMENT OF NATURAL RESOURCES (ANCHORAGE)
 CONTRACT NUMBER(S): DE-FC07-79ET57105
 PRINCIPAL INVESTIGATOR: ELLEN SPARRE

CONTRACT PERIOD	\$ CONTRIBUTION		WORK DESCRIPTION	LOCATION	REMARKS
	DOE	STATE			
4/1/79 - 5/31/80	165,450	75,025	<ul style="list-style-type: none"> • RESOURCE ASSESSMENT • GEOCHEMISTRY 	STATEWIDE SELECTED AREAS	
6/1/80 - 5/31/81	69,467.50	284,907	<ul style="list-style-type: none"> • THERMAL SPRING INVESTIGATION • THERMAL SPRING DRILLING • CHEMICAL ANALYSIS • REPORTING 	STATEWIDE " " " " "	

CONTRACTING AGENCY: UNIVERSITY OF ALASKA (FAIRBANKS)
 CONTRACT NUMBER(S): EW-78-S-07-1780,
 PRINCIPAL INVESTIGATOR: PL.Turner

CONTRACT PERIOD	\$ CONTRIBUTION DOE STATE	WORK DESCRIPTION	LOCATION	REMARKS
1/1/78 - 7/30/78	109,000	- 0 - • CONDUCE DATA ON LOAD TO Moderate TEMPERATURE RESOURCES	STATEWIDE	
9/1/78 - 10/31/78	25,000	- 0 - • EVALUATE IGNEOUS BODIES	SEASIDE, JUMBQ DOME, CINGER CONES	
10/1/78 - 1/30/79	45,000	- 0 - • AERIAL PHOTOGRAVITY • GROUND CONTROL NETWORK • PROJECT REPORT	MT. WANGELL CALDERA	
7/1/79 - 10/30/79	50,000	- 0 - • MEASURE GLACIAL MOVEMENTS • PHOTOGRAVIMETRY	" " "	
3/17/79 - 3/16/80	300,081	8,357 • SURFACE ASSESSMENT • TEMPERATURE & SEAWATER STUDIES • GEOCHRONOLOGY • ACTIVE SEISMIC PROBING • ELECTROMAGNETIC STUDIES	New Areas Selected Areas	
3/6/80 - 3/6/81	149,571	5,410 • METEOROL. & ECOLOGICAL • GEOLOGICAL/GEOGRAPHICAL STUDIES	CHENA HOT SPRINGS UNALASKA	

CONTRACTING AGENCY: UNIVERSITY OF ARIZONA
 CONTRACT NUMBER(S): EG-77-S-02-4362, DE-FC07-79JO13109
 PRINCIPAL INVESTIGATOR: RICHARD HAHNMAN

CONTRACT PERIOD	\$ CONTRIBUTION		WORK DESCRIPTION	LOCATION	REMARKS
	DOE	STATE			
5/1/77 - 4/30/78	45,301	- 0 -	• PRELIMINARY STUDIES	STATEWIDE	
1/16/79 - 1/15/80	326,739	- 0 -	• EXPLORATION TECHNIQUE • SITE SPECIFIC STUDIES • ENERGY RESOURCE MAP	GENERAL " " "	
MOD. # A001 ?	130,231	- 0 -			
1/15/80 - 5/31/80			• TIME EXTENSION		
5/31/80 - 1/15/81	300,000	- 0 -	• GEO DATA • LOCATE, SAMPLE, TEMP. • MAPPING, WATER TESTS, AGE DATES • HEAT FLOW MAPPING • GRAVITY SURVEY & STRUCTURAL GEOLGY, MINERALS, • ELECTROMAGNETICS • GEOFIZIK • GEOPHYSICS • GEOTHERM	AURA VALLEY ALL ARIZONA HOT SPRINGS CLIFTON AND GILLARD HOT SPRINGS STATEWIDE NORTHERN HASSAYAMP PLAIN UNSTUDIED AREAS CHAPAGO & YUMA INDIAN RESERVATIONS. SAN PEDRO VALLEY SAFFORD - SAN SIMON AREA TUCSON AREA	

CONTRACTING AGENCY:

COLORADO GEOLOGICAL SURVEY

CONTRACT NUMBER(S):

FG-77-S-07-1678, DE-AS07-77ET028365

PRINCIPAL INVESTIGATOR:

Richard Bent

CONTRACT PERIOD	\$ CONTRIBUTION		WORK DESCRIPTION	LOCATION	REMARKS
	DOE	STATE			
4/3/77 - 6/06/78	154,130	3,000	<ul style="list-style-type: none"> • DATA SYNTHESIS • GEOPHYSICAL & GEOFISICAL STUDIES • ENVIRONMENTAL ASSESSMENT • BORING & GEOPHYSICS • PROBLEMS OF 2-7-1978 • GEOPHYSICAL STUDIES • TESTING AND ANALYSIS 	STATEWIDE SELECTED SITES USFS LANDS. SAN LUIS VALLEY CANON CITY OTHER AREAS MAGOCA SPRINGS WELL	
1/1/79 - 12/31/79	100,000	Dennis Bentley			
6/01/79 - 12/31/79	100,000	-0-	?	?	
3/1/80 - 3/28/81	?	?	<ul style="list-style-type: none"> • SEISMIC SURVEY • RESISTIVITY/SEISMIC SURVEY • RECONNAISSANCE STUDY • BORING STUDY • GEOPHYSICAL STUDY • THERMAL GRADIENTS • GROUNDWATER TESTS AND FIELD MAP • FAULTS/SHALLOW VOLCANISM • SOIL MISC. CONVENTS • NEW EARTHQUAKE 	CANON CITY CANON CITY IDAHO SPRINGS COUNTRY AREA ANTELOPE VALLEY STATEWIDE STATEWIDE STATEWIDE SELECTED HOT SPRINGS	

CONTRACTING AGENCY: Town Department of Water Resources
CONTRACT NUMBER(S): EG-77-S-07-1663, 11E-A007-77ETD2407
PRINCIPAL INVESTIGATOR: Dawn Mitchell

Contract Period	\$ Contribution DOE STATE	Work Description	Location	Remarks
1/28/77 - 7/1/77	4,000	<ul style="list-style-type: none"> - o - • Compilation and synthesis of environmental data statewide • Technical plan development • Geographic data plan • STATEWIDE DATA SYNTHESIS • FIELD DATA Collection • Environmental contamination • INTEGRATION STUDY • GEOGRAPHICAL DATA (MAPS) • SITE IDENTIFICATION • ENVIRONMENTAL ASSESSMENTS • FINAL REPORT • GEOLOGY & GEOPHYSICS • Aquatic resources • Geologic resources • Groundwater resources • Surface water resources 	<ul style="list-style-type: none"> STATEWIDE STATEWIDE — SELECTED AREAS STATEWIDE STATEWIDE — SELECTED AREAS — SELECTED AREAS — STATEWIDE STATEWIDE — STATEWIDE STATEWIDE — STATEWIDE 	<ul style="list-style-type: none"> STATEWIDE STATEWIDE — SELECTED AREAS — SELECTED AREAS — STATEWIDE STATEWIDE — STATEWIDE STATEWIDE — STATEWIDE STATEWIDE — STATEWIDE
5/15/78 - 9/30/78	206,000	- o -	PORTER - THEODORE MANOR - CEDARWELL	?
10/1/78 - 9/30/79	203,040	- o -	BONTELLA - THEODORE MANOR - CEDARWELL	?

Contracting Agency: Idaho Department of Water Resources (cont.)
Contract Number(s): EG-77-2-07-1662, DE-AS02-27ET90407
Principal Investigator: Jim Michael

Idaho Department of Water Resources (cont.)
EG-77-2-07-1662, DE-AS02-27ET90407

<u>Contract Period</u>	<u># Contribution</u>	<u>DOE STATE</u>	<u>WORK DESCRIPTION</u>	<u>LOCATION</u>	<u>REMARKS</u>
7/30/79 - 9/30/80	\$3,125	-	WATERMEN/SEAGRID WATER STOOR	PAST RIVER SITE	WAD RIVER VALLEY WASHINGTON COUNTY South East Toa40
4/30/80 - 4/30/81	\$50,000	17,500	• GROWTHMAN INVESTIGATION • GROWTHMAN INVESTIGATION " " • PLANTATION		TODAY PRESENT AT ENERGY

Contracting Agent: KANSAS CELLULAR SURVEY
Contract Number(s): ME-0507-79 ET27204
Principal Investigator: Dave McGehee

CONTRACT PERIOD	# CONTRIBUTION	DOE STATE	WORK DESCRIPTION	LOCATION	REMARKS
2/1/79 - 3/31/80	256,12	Kansas	<ul style="list-style-type: none"> • GEOTHERMAL SEDIMENT MAP • AEROMAGNETIC SURVEY • THERMAL STUDIES • THERMAL CONDUCTIVITY • HYDROLOGICAL STUDIES • THERMAL GRADIENT MAP • HYDROLOGIC STUDIES • THERMAL STUDIES • THERMAL SURVEY • GROWTH STRAIN • CRYSTAL FIFES • PERIODIC 	<ul style="list-style-type: none"> STATEWIDE NORTHWEST KANSAS STATEWIDE STATEWIDE STATEWIDE STATEWIDE STATEWIDE STATEWIDE STATEWIDE STATEWIDE STATEWIDE 	
4/1/80 - 5/31/81	103,835	Kansas	<ul style="list-style-type: none"> • THERMAL GRADIENT MAP • HYDROLOGIC STUDIES • THERMAL STUDIES • GROWTH STRAIN 	<ul style="list-style-type: none"> STATEWIDE WESTERN KANSAS SOUTHEAST KANSAS STATEWIDE 	

Contracting Agency: Bureau of Mines and Geology
 Contract Number(s): DE-76-S-06-02426, DE-FG07-291012033
 Principal Investigator: John L. Sanderson

Contract Period	\$ Contribution	DOE STATE	WORK DESCRIPTION	LOCATION	REMARKS
10/1/77 - 9/30/79	26,400	-0-	<ul style="list-style-type: none"> • Sample BIG TEST SPRINGS • COMPILE GELOGIC / GEOPHYSICAL DATA • AMBIENTIC MACHINES • " " • CERAMIC CLAYITE • HYDROGRAPHIC SURVEY • STATE OF MONTANA MAP • THEMATIC SPRINGS INVENTORY • STATE FEDERAL ASSISTANCE • NEW ARIZA SPRINGS • CO-OP RESEARCH TO UCAS 	MERCIA/HARDING MTS	
5/1/78 - 9/30/78	34,455	3,254	<ul style="list-style-type: none"> • BEGIN M. YENONSTATE STUDY • CERAMIC CLAYITE - 1st TRIP. • SELECTED SITES 	MONTANA	
5/1/78 - 3/30/79	59,171	6,214			
5/1/78 - 5/14/79	30,917	10,778	<ul style="list-style-type: none"> • CONTINUATION M. YENONSTATE STUDY • GEOLOGICAL & HYDROGENIC DATA - KARSTIC SPRINGS • DATA TRANSFER TO UCAS • M. YENONSTATE STUDY? • OREGON PRODUCTION WELLS • ANNUAL HEAT SEASONAL CHANGES • FIRST UNILINIC 	SELECTED SITES	

Wrong?

Contracting Agency: MONTANA BUREAU OF MINES AND GEOSCIENCE (Cont.)
Contract Number(s): LEY-76-3-06-20426, DE-FC07-79ED12033
Principal Investigator: John L. Johnson

Contract Period	\$ Contribution: Date	State	Work Description	Location	Remarks
1/3/80 - 9/3/80	150,000	23410	FIELD STUDIES • HEAT SEISMIC INVESTIGATION • DATA TO GATHERM. • MINE FIELD AND SPRING INVENTORY • GEOLGIC & GEOMORPHIC	W. YELLOWSTONE, LITTLE BUTTERFOOT VALLEY, MANISEURS	DEAD LOCAC, ANACONDA VALLEY, HELENA VALLEY EASTERN MONTANA
10/1/79 - 9/30/79	118,987	?	• WILDFIRE SAMPLES • HYDROLOGIC MODELS • PRECIP. RESOURCE MAP STATEWIDE.	MADISON - BROOK	" "

Contracting Agency: New Mexico State University
Contract Number(s): EN-78-5-07-1117, NE-8507-181001717
Source/Lead Investigator:

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Contract Period	\$ Contribution	Work Description	Location	Remarks
Dee	STATE			
3/15/78 - 9/30/79	150,000	<ul style="list-style-type: none"> • SURFACE TEMPERATURES STATEWIDE • STATE & PLAINS TECTONICS STATEWIDE • SEISMICITY STUDY STATEWIDE • HEAD FLOW DATA STATEWIDE • THERMAL GRADIENT STUDY NEAR U.S. MARKETS. (Large cities) • VOLCANO TECTONICS AIR POLLUTION? MAJOR CANTERVAL Mts. • GEOPHYSICAL DATA COLLECTION HAZARDOUS INVESTIGATIONS • DAIRYLAND PROGRAM LAS ALTIAS, JAMIN PEAK 	LAS ALTIAS SOCORRO	TRANSIT CRUSTALAGES CHAMBERLIND, MOSQUITE SOUTHCENTERAL COUNTIES
5/15/79 - 5/15/80	300,000	<ul style="list-style-type: none"> • SEISMIC PROFILE • SEISMIC STUDY, THIRIUM STUDY, HYDROLOGIST GRANADA • GEOPHYSICAL STUDIES • THERMAL STUDY LIGGETT FOULKE, MARSH, SAMPLING, FIELD WORK, PLATEAU, DOME, MOUNTAINS, TURBIDO ETC. • ECONOMICS SURVEY 	LAS ALTIAS	INTERIOR COUNTIES.

CONTRACTING AGENCY: New Mexico STATE UNIVERSITY (cont.)
 CONTRACT NUMBER(S): DE-AS02-761001717
 PRINCIPAL INVESTIGATOR:

Contract Period	\$ Contribution DUE	STATE	WORK DESCRIPTION	LOCATION	REMARKS
5/15/83 - 5/15/84	300,000	43,054	Public & Technical MACS By Soc. of Eng. & State Geologist RESEARCH CORP Division LINEAMENT MAP WATER WELL DATE SECTIONS & THERMAL GRADIENT SKILLING THERMAL GRADIENT DRILLING Groundwater COMPUTER Simulation	STATEWIDE STATEWIDE STATEWIDE STATEWIDE South Rio Grande 8,757 FT WEST MESA at ALBU. Cerro Alto, Luna Co., ANIMAS VALLEY	LIGHTNING DATA FROM

CONTRACTING AGENCY: UNIVERSITY OF NEBRASKA
CONTRACT NUMBER(S): DE-B507-79ET27285
PRINCIPAL INVESTIGATOR:

CONTRACT PERIOD	\$ CONTRACTUAL DUE STATE	WORK DESCRIPTION	LOCATION	REMARKS
4/1/79 - 5/31/81	161,843	\$3500 • On-Site Well Temperature Data Base (13,000) • Thermal Gradient Drilling • Major Sectional Drilling.	STATEWIDE SELECTED SITES	

Contracting Agency: University of Michigan Health Services
Contract Number(s): DE-FCO2-29101030
Principal Investigator: KENNETH L. HESSIG

Contract Period	\$ Contribution		Work Description	Location	Remarks
	DOE	STATE			
1/15/79 - 1/14/80	41,597	9,547	<ul style="list-style-type: none"> • Geologic Units Database • CONDUCTIVE MAPS - Major - THERMAL RICERCHES • GEOTHERMAL POTENTIAL • GEOTHERMAL POTENTIAL • THERMAL GRADIENT MAP • GEOLOGIC MAPS - Major areas • GEOTHERMAL POTENTIAL • GEOTHERM FILES 	<ul style="list-style-type: none"> • STATEWIDE • STATEWIDE • MADISON COUNTY • STATEWIDE • STATEWIDE • SELECTED AREAS • STATEWIDE • — 	
3/1/80 - 3/7/81	108,169	30,171			

Contracting Agency: Oregon Department of Geology and Mineral Industries
 Contract Number(s): DE-EGO17-21012044 PETS 7220
 Principal Investigator(s): David A. Hill, Vassilieva

Contract Period	\$ Contribution Date	Work Description	Location	Remarks
5/23/79 - 7/31/80	660,407 30,472	Geologic and Magmatic Study Cascade Range TECTONIC FORAMINIFER STUDY + CONST. VULCAN. AND WESTER. + CASCADES		
		THEORETICAL GROWTH DILUTION WESTERN AND CENTRAL OCEANIC		
5/23/79 - 12/31/80	231,491 35,735	STRUCTURE SURVEY AEROMAG. SURVEY GEODATA CORRELATION GEOLOGIC MAP-MAKING TEMPERATURE GRADIENT 9 AREAS	CENTRAL, NORTHERN CASCADES. SOUTHERN CASCADES 9 AREAS 9 AREAS	
5/20/80 - 5/31/81	400,000 30,450	Ground Construction SEISMIC MONITORING TEMPERATURE GRADIENT GEODATA CORRELATION STATEWIDE SECTION	3 AREAS 3 AREAS 3 AREAS GENERAL "	

CONTRACTING AGENCY: SOUTHERN METHODIST UNIVERSITY
CONTRACT NUMBER(S): DE-ASS07-791D10037
PRINCIPAL INVESTIGATOR:

Contract Period	\$ Contribution DUE	Work Description	Location	Remarks
7/10/79 - 5/31/80	163000	Survey and Surface Geophysical Studies	CASCADE RANGE IN WASHINGTON AND OREGON. Basin Advance in Oregon	

CONTRACTING AGENCY: UNIVERSITY OF TEXAS AT AUSTIN
CONTRACT NUMBER(S): DE-A507-790102257
PRINCIPAL INVESTIGATOR:

CONTRACT PERIOD	\$ CONTRIBUTION DUE	STATE	WORK DESCRIPTION	LOCATION	REMARKS
7/1/79 - 9/30/80	303,000	0	'HYDROLOGIC ASSESSMENT CETOCERUS PLATEAUS 'LINEAMENT STUDY 'LINEAMENT/FAULT STUDY 'GEOTHERMAL TEMPERATURE SURVEY 'GEOTHERMAL GRADIENT MAP STATEWIDE 'GEOTHERMAL DATA FILES — 'TEXAS FAULT MAP —	CENTRAL TEXAS STATEWIDE CENTRAL TEXAS STATEWIDE STATEWIDE STATEWIDE	

CONTRACTING AGENCY: TEXAS ENERGY AND NATURAL RESOURCES ADVISORY COUNCIL (TENRA)
CONTRACT NUMBER(S): DE-FCO7-791012080
PRINCIPAL INVESTIGATOR: David M. White

<u>Contract Period</u>	<u>\$ Contribution</u>	<u>Work Description</u>	<u>Location</u>	<u>Remarks</u>
<u>DEE</u>	<u>STATE</u>			
8/08/79 - 9/30/81	170,000	<ul style="list-style-type: none">• Generic Analysis BEG• Technological Assessment• Training• Groundwater Studies• Data Analysis	<ul style="list-style-type: none">• Hazardous Waste Sites• Hazardous Waste Areas• Pollution Areas• Micro Tanks Areas• Polluted Areas	

CONTRACTING AGENCY: Utah Geological and Mineralogical Survey
CONTRACT NUMBER(S): EA-77-S-22-1679
PRINCIPAL INVESTIGATOR: J. L. Clark, Bureau, P.T. Mueller

Contract Period	\$ Contribution DUE	STATE	WORK DESCRIPTION	LOCATION	REMARKS
7/1/79 - 6/30/80	93,630	39,440	<ul style="list-style-type: none">• Review Geol. & Geophys.• Environmental Assess.• Direct costs.	STATEWIDE SELECTED SITES	
7/1/79 - 10/31/80	81,500?	-	<ul style="list-style-type: none">?	?	No. #1001
5/31/79 - 5/31/80	307,000	35,416	<ul style="list-style-type: none">• Complete Geol. & Geophys.• Complete Water Analyses• Collect Water Samples• Gravity & Magnetism (G.M.)• Aeronautical Survey• Subsurface Map	Tower Valley	
5/31/80 - 10/31/80			<ul style="list-style-type: none">• Gravity & Magnetic Survey• Geothermal Fields	Utah, Crystal Mtns, Little Mountain, Hwy 43;	No cost time extension for geothermal survey.

CONTRACTING AGENCY: Washington Department of Natural Resources
CONTRACT NUMBER(S): DE-AC03-79ET97014
PRINCIPAL INVESTIGATOR:

Contract Period	\$ Contribution DUE STATE	Work Description	Location	Remarks
11/1/78 - 10/31/79	096, 894 102, 984	Thermal Spring Inventory Publication of Bibliography GROTHERMOMETERS COMPILE DATA BANK	GENERAL	8 HOLES DRILLED, 3 UNDER Volcanic Ash.
4/1/80 - 3/31/81	303, 406	-0 - HEAT FLOW DRILLING TEMPERATURE MEASUREMENTS GEOLIC MAPPING GRAVITY SURVEY GEOCHEMISTRY FAULT LINEAMENT MAP	SOUTHERN CASCADES 3 AREAS Mt. Adams or Mt. Baker CENTRAL AND NORTHERN CASCADES. 4 AREAS SOUTHERN CASCADES, Southwest Columbia Basins.	

Contracting Agency: UNIVERSITY OF ALABAMA
Contract Number(s): UE-ECO7-791010006
Principal Investigator: EDWARD DECKER

Contract Period	\$ Contribution Date	STATE	Work Description	Location	REMARKS
12/1/78 - 9/30/79	99,439	7/04/80	<ul style="list-style-type: none">• THREE STATE BUSINESSES• TERMINAL INVENTORIES• CUSTODIAL SERVICES• MAINTENANCE & MAINTENANCE OF SERVICES• GAS WELL SURVEY AND APPRAISALS	<ul style="list-style-type: none">• STATEWIDE• SELECTED AREAS• GAS BUSINESSES• STATEWIDE• STATEWIDE	<ul style="list-style-type: none">• STATEWIDE• SELECTED AREAS• GAS BUSINESSES• STATEWIDE• STATEWIDE
4/15/79	16,239	1/13/77	<ul style="list-style-type: none">• FINANCIAL ASSESSMENT• GAS WELL SURVEYS	<ul style="list-style-type: none">• GAS WELL SURVEYS	<ul style="list-style-type: none">• GAS WELL SURVEYS
8/1/79	34,671	2/4/58	<ul style="list-style-type: none">• TERM, RECENT, NEW FLOW• TERMINAL INVENTORY, DOWNTOWN HOTELS	<ul style="list-style-type: none">• SELECTED SITES• CO-OP, WIRELINE	<ul style="list-style-type: none">• SELECTED SITES• CO-OP, WIRELINE
6/1/80 - 5/31/81	154,560	15/2/3	<ul style="list-style-type: none">• TERMINAL SURVEY, FUEL INVENTORY,• TERMINAL SURVEY, FUEL INVENTORY	<ul style="list-style-type: none">• STATEWIDE• STATEWIDE	<ul style="list-style-type: none">• STATEWIDE• STATEWIDE
			<ul style="list-style-type: none">• GASOLINE SURVEY	<ul style="list-style-type: none">• BIRMINGHAM, ALBAMA	<ul style="list-style-type: none">• BIRMINGHAM, ALBAMA
			<ul style="list-style-type: none">• OTHER BUSINESS & FUEL• ALCOHOL TAX MAJIS• GASTATION FILES• REPORTING	<ul style="list-style-type: none">• SELECTED BUSINESSES• SELECTED REGIONS	<ul style="list-style-type: none">• SELECTED BUSINESSES• SELECTED REGIONS