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LISTING OF UNITED STATES COMPANIES THAT SUPPLY GOODS AND SERVICES FOR GEOTHERMAL EXPLORERS, DEVELOPERS AND PRODUCERS INTERNATIONALLY

DOE/SF/12326--T1

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UNITED STATES DEPARTMENT OF ENERGY
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Developed By The

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MASTER

EB

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GENERAL INFORMATION

The List

This List was compiled by the Geothermal Resources Council, under a contract with the U.S. Department of Energy (DOE) during the first half of 1987. It is composed solely of U.S. companies with major offices within the United States.

All of the companies listed are involved in selling geothermally related goods and services internationally, or have the proven capability to do so. Each specific listing includes the company name, the name or title of the key contact person, address, telephone and if available a facsimile machine or telex number.

All of the vendors completed a questionnaire and most were personally contacted concerning their area of expertise. The few vendors that did not contact the Council in time to be included are listed in the supplemental list with a brief description of their products. Their names do not appear in the matrices.

The Matrices

The sets of matrices were developed after careful study of the full range of geothermal operations in exploration, development and production in both direct-use (non-electric) and electrical production.

How To Use The Matrices

To determine the name of a specific vendor selling the goods or services follow this procedure:

1. Determine if what you need is sold by a supplier of goods or a supplier of services. Sometimes a single firm will do both.
2. Find the specific matrix under goods or services which indicates that particular discipline or product you are interested in.
3. Find the exact service or item in the matrix heading, move down the column under the service or item until you encounter a black dot.
4. Having located a black dot in the column, move laterally to the left to find the name of the company who supplies the service or particular item.

For example, if one is seeking the name of a company that takes infrared photographs, start with the services matrices. Find the matrix for exploration, and the subcategory for infrared photographs. By moving down the column the first black dot encountered is opposite the name of Cascadia Pacific Corporation. If you wish to continue, you may contact the company directly. If there is more than one dot in the column, you may wish to contact several or all of the companies.

If you have any questions, comments, additions or deletions concerning this List, or the Matrices, contact the Geothermal Resources Council, P.O. Box 1350, Davis, CA 95617, USA. Phone (916) 758-2360 or Telex: 882410.

NOTE: Some categories in the Matrices do not contain black dots. The columns are open because no one supplies these specific goods or services. It is felt that these categories will be filled in future issues of this list.

LISTING OF UNITED STATES COMPANIES THAT SUPPLY GOODS AND SERVICES FOR GEOTHERMAL EXPLORERS, DEVELOPERS AND PRODUCERS INTERNATIONALLY

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AGLAND INVESTMENT SERVICES, INC.

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ALBIROO LIMITED

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ALLIED CHEMICAL

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COLUMBIA GEOSCIENCE

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Santa Clara, CA 95054-0979
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SCHNEIDER, J.R. Co., Inc.

Gene Pecci
849 Jackson St.
Benicia, CA 94510
Telex: 34-0545 Ph.: (707) 745-0404

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14715 Jersey Shore Dr.
Houston, TX 77047
Fax: (713) 433-7166 Ph.: (713) 433-0010

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San Diego, CA 92121-1095
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P.O. Box 758
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P.O. Box 28510
San Antonio, TX 78284
Fax: (512) 522-3396 Ph.: (512) 522-2715

S.P.S., INC.

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Miami, FL 33138
Fax: (305) 264-9287 Ph.: (305) 754-7766

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P.O. Box 1327
Santa Rosa, CA 95402
Fax: (707) 576-0437 Ph.: (707) 523-3228

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President
3655 Westcenter Drive
Houston, TX 77042
Fax: (713) 783-3434 Ph.: (713) 783-6020

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Mgr of Contract Administration
First and Iron Streets
Paola, KS 66071
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Interpretation Manager
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Sunnyvale, CA 94086
Telex: 357-435 Ph.: (408) 745-0713

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THERMASOURCE, INC.

Louis E. Capuano Jr., President
P.O. Box 1236
Santa Rosa, CA 95402
Fax: (707) 523-1029 Ph.: (707) 523-2960

THERMOCHEM, INC.

Jean Stewart
6119 Old Redwood Hwy, Ste. A-2
Santa Rosa, CA 95401
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Bossier City, LA 71171-5757
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Mgr. International Marketing
P.O. Box 1181
Bartlesville, OK 74005
Fax: (918) 661-2101 Ph.: (918) 661-2000

T.S.T.C.O.

Thomas S. Tortorete
1637 Meadowlark Dr.
Fairfield, CA 94533
Telex: None Ph.: (707) 422-8418

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391 Chipeta Way, Ste. C
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VALLEY ENGINEERS, INC.

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P.O. Box 12227
Fresno, CA 93777
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Gary E. Van Houten, President
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Petaluma, CA 94952
Telex: VH CONSULT Ph.: (707) 762-1132

VICE, DAN H. & ASSOCIATES

Dan H. Vice, Cons. Geologist
449 Hart-Albin Bldg.
Billings, MT 59101
Telex: None Ph.: (406) 248-3341

WATERS INTERNATIONAL INC.

Peyton D. Waters, Jr.
5615 Clara Road
Houston, TX 77041
Fax: (713) 466-5981 Ph.: (713) 466-0026

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Vice President
2453 Mandeville Canyon Rd.
Los Angeles, CA 90049
Telex: None Ph.: (213) 472-2988

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Sug Roberts
410 17th St., Ste. 1375
Denver, CO 80202
Telex: None Ph.: (303) 573-1666

WHEELER, GEORGE H.

Engineer/Geologist
154 Washakie
Lovell, WY 82431
Telex: None Ph.: (307) 548-2840

WHEELER, HERBERT E., JR.

Petroleum Engineer
2050 Maple Glen Rd.
Sacramento, CA 95864
Telex: (None) Ph.: (916) 485-2715

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V.P. Marketing
P.O. Box 6155
Ft. Smith, AR 72906
Telex: 536016 Ph.: (501) 646-8866

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Marketing Director
P.O. Box 2710-423
Huntington Beach, CA 92647
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Director of Marketing
3322 E. Fort Lowell Rd.
Tucson, AZ 85716
Fax: (602) 325-1588 Ph.: (602) 327-5501

VENDOR LIST SUPPLEMENT**APPLIED POWER TECHNOLOGY**

David Weiss
3000 Sand Hill Road
Bldg. 3, Ste. 285
Menlo Park, CA 94025
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Project management and equity financing.

BARTON VALVE CO., INC.

B.J. Guinn
2401 No. Highway 177
Shawnee, OK 74801
Telex: 9108313116 Ph.: (405) 273-7760
Well head valves.

BRIDWELL CONTROLS

Barbara Bridwell
1733 Center Avenue
Martinez, CA 94553
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Computer control programs for geothermal well fields and power plants.

CALIFORNIA ENERGY COMMISSION

Energy Technology Export
Program Manager
1516 9th Street, MS-45
Sacramento, CA 95814
Telex: 324-3029 Ph.: (916) 324-3449

Renewable energy, export program and geothermal sales information.

DRESSER-RAND

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20602 East 81st Street
Broken Arrow, OK 74014
Telex: 4637045 Ph.: (918) 451-1550
Air drilling services.

GEOHERMAL MANAGEMENT CO.

Gerald W. Hutterer
Box 2980
Evergreen, CO 80439
Fax: (303) 674-3820 Ph.: (303) 670-3454

Geothermal project management, exploration and economic evaluation.

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Bakersfield, CA 93389
Telex: 4720177 Ph.: (805) 327-0148
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Joe Turk
1000 Church Road
Rio Vista, CA 94571
Telex: None Ph.: (707) 374-6493

Blowout preventers, drilling tools and tubulars.

HUGHES TOOL COMPANY

Tom Haynes
P.O. Box 2539
Houston, TX 77252-2539
Fax: (713) 924-2007 Ph.: (713) 924-2222
Drill bits.

J.M. ENERGY CONSULTANTS, INC.

Jack McNamara
11752 San Vicente Blvd.
Los Angeles, CA 90049
Telex: None Ph.: (213) 826-8269

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7773 West Seldon Land
Peoria, AZ 85345
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4300 King Street, Ste. 400
Alexandria, VA 22302
Telex: 469248 Ph.: (703) 998-3600

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R.M. Sullivan
1 Eireview Plaza
Clearland, OH 44114
Telex: None Ph.: (216) 523-5600
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N.L. BAROID

Gene Polk
Box 280
Sandia Park, NM 87047
Telex: None Ph.: (505) 281-5191

Drilling mud, additives, engineering and training.

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Route 49 and U.S. 95
No. Stonington, CT 06359
Telex: 247317 Ph.: (203) 599-1140

High performance valves.

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Houston, TX 77032
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Bennie DeBibona
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Salt Lake City, VT 84108
Fax: (801) 584-2406 Ph.: (801) 584-2400

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William D'Olier
601 California St.
San Francisco, CA 94108
Telex: 34387 Ph.: (415) 981-5700

Full range of services for international exploration and development.

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5510 Morehouse Dr.
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Mechanical and electrical design engineering, power plant maintenance and operation, and feasibility studies and analysis.

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C.J. Von Hoene
P.O. Box 11279
Santa Rosa, CA 95406
Fax: (707) 578-2798 Ph.: (707) 578-2701

GEOTHERMAL RESOURCES INTERNATIONAL

Jim Combs
1825 So. Grant St., Ste. 900
San Mateo, CA 94402
Fax: (415) 349-4801 Ph.: (415) 349-8181

KENNECOTT EXPLORATIONS

(Australia) Ltd.
Larry Grogan
P.O. Box 278
Imperial, CA 92251
Fax: (619) 355-4253 Ph.: (619) 355-2427

OXBOW GEOTHERMAL CORP.

Douglass Powell
200 So. Virginia St.
Reno, NV 89501
Telex: None Ph.: (702) 322-1300

THERMAL POWER CO.

William D'Olier
601 California St.
San Francisco, CA 94108
Telex: 34387 Ph.: (415) 981-5700

UNOCAL, GEOTHERMAL DIV.

Chester F. Budd
1201 West 5th Street
P.O. Box 7600
Los Angeles, CA 90051
Telex: 67-7593 Ph.: (213) 977-7694

Matrices of GOODS

	EXPLORATION	GEOLOGICAL				GEOPHYSICAL INSTRUMENTS					GEOCHEMICAL				MISCELLANEOUS
		Airborne Cameras	Stereoscopes	Microscopes	Planetables, Alidades, Compasses, Hipchains	Electrical	Gravity	Magnetic	Thermal	Seismic	Field Sampling Equipment	Lab Equipment	Lab Instrumentation	Chemical Supplies	Exploration Software
Aero Mobile Productions		•													•
Ametek, Inc.											•	•			
Anatec Laboratories, Inc.											•	•	•	•	
Barringer Geoservices, Inc.			•	•	•	•	•	•			•	•	•	•	
Christensen Mining Products											•				
Energy & Nat. Resources Consul., Inc.				•	•				•		•				
Gearhart MWD															
Geophysical Systems, Corp.										•					
Global Geochemistry											•				
Halliburton Services												•	•		
Inter-Trade Supply				•	•	•	•	•	•	•	•	•		•	
Jerome Instrument Corp.													•		
Kinemetrics, Inc.										•					
Kuster Company											•				
MicroGeophysics Corp.							•			•					
Natural Resources Lab., Inc.											•				
Southwest Research Institute						•			•	•	•		•		
TerraSense, Inc.															•
Thermochem Inc.											•				

	DRILLING/COMP.	
	Rigs — Shallow	Rigs — Deep
Bawden Drilling, Inc.	•	•
Big Chief Drilling	•	•
Christensen Mining Products	•	•
Cooper Industries Inc./WKM Div.	•	•
Drilling Resources Devel. Corp.	•	•
Eastman Christensen Co.	•	•
EC&G Chandler Engineering	•	•
Energy & Nat. Resources Consul., Inc.	•	•
Exlog/Smith (B)	•	•
Foster/W.L.G. Systems Division	•	•
Gasco Pumps, Inc.	•	•
Gearhart MWD	•	•
A-Z Grant/DrilleX	•	•
Halliburton Services	•	•
Hydril Company	•	•
Inter-Trade Supply	•	•
Kuster Company	•	•
Lofland Brothers Company	•	•
Midway Fishing Tool	•	•
National Supply Company	•	•
NL Shafter	•	•
Otis Engineering Corp.	•	•
Pipe Sales Company	•	•
Reed Tool Company	•	•
Scientific Drilling International	•	•
Tam International	•	•
Terra Recovery Systems	•	•
T.S.T.C.O.	•	•
Waters International	•	•
Weich & Howell Drilling, Inc.	•	•
Williams Tool Co., Inc.	•	•

	RESERVOIR ASSESSMENT	Well Test Equipment & Systems	Test Control & Monitoring Equipment	Test Pumps — Downhole	Downhole Logging Equip.	Downhole Surveying Tools	Tracers	Calorimeters	High Temperature Insulated Wire & Cable
Baker Packers Thermal Systems			•						
Berkeley Group, Inc. (BGI, BGT, BGS)		•	•		•				
Big Chief Drilling Co.		•							
Eastman Christensen Co.						•			
Energy & Nat. Resources Consul., Inc.					•				
Exlog/Smith (B)		•					•		
Foster/W.L.G. Systems Division		•	•						
Gearhart MWD					•				
Geophysical Research Corp.		•							
Halliburton Services					•				
Hydrii Company			•						
Insulated Wire Inc.									•
Kuster Company					•	•			
Pruett Industries, International		•			•	•			
Scientific Drilling International					•	•			•
Southwest Research Institute		•			•	•			
Systems Application Eng., Inc.			•						
TRW Reda Pump Division				•					
Zonge Eng. & Research Organ.			•						

	ENVIRONMENTAL MONITORING	Air Analysis	Gas Analysis	Water Analysis	Soil Analysis	Noise Analysis	Biological	Subsidence Detection	Seismic Network Systems	Noise Abatement Systems	H ₂ S Abatement Systems (During Testing)	Filters & Centrifuges
Anatec Laboratories, Inc.			•	•			•					
Barringer Geoservices, Inc.		•	•	•	•							
Christensen Mining Products					•							
Exlog/Smith (A)		•	•						•			
Exlog/Smith (B)		•	•						•			
Global Geochemistry		•	•	•	•							
Graystar Technical Services				•		•						
Inter-Trade Supply		•			•							
Jerome Instrument Corp.		•		•								
Kinemetrics, Inc.								•				
Kinetics Tech. International Corp.										•		
Kuster Company		•	•	•								
Schneider, J.R.												•
Southwest Research Institute				•	•	•	•	•				
Systems Application Eng., Inc.										•		
Tracor Atlas, Inc.		•	•							•		
T.S.T.C.O.		•								•		
Bird Machine Co.												•
Gearhart MWD			•									

	PRODUCTION & POWER GENERATION																							
	PUMPS																							
	Downhole																							
	Submersible																							
	Lineshaft																							
	Hydrolic																							
	Surface																							
	Injection																							
	Circulating																							
	Vacuum																							
	SEPARATORS/CONDENSERS																							
	Separators																							
	Direct Contact																							
	Shell & Tube																							
	POWER GENERATION SYSTEMS																							
	Binary																							
	Flash																							
	Rotary Separators																							
	Total Flow																							
	MISC. EQUIPMENT & SUPPLIES																							
	Steam Jet Ejectors																							
	Gas Extraction Compressors																							
	Auxiliary Equipment																							
	H.S Abatement Equip.																							
	Pipe & Equipment Insulation																							
	Mufflers (Power Plant)																							
	Steam/Water Gathering Systems																							
	Power Plant Control Systems																							
	Well Head & Gathering Systems Controls																							
	Expansion Joints																							
	Cooling Tower & Waste Heat Rejection Equip.																							
	Pressure & Temperature Instrumentation																							
	Flow Meters & Indicators																							
	Brine & H ₂ S Filters																							
	Stress Relief Equip.																							
	Corrosion Rate Monitoring Systems																							
	Corrosion Resistant Alloys																							
	Brine Stabilization Equip.																							
	Waste Water Treatment Systems & Supplies																							
	Fiberglass Pipe																							
	Scale Analysis/Collection Kit																							
	Non-Condensable Analysis Kit																							
	Polymers																							
	Internal Environmental Control Systems																							
	On Line Sampling and Analysis																							
Allied Chemical																								
Ameron Fiberglass Pipe Division																								
Ametek, Inc.																								
Anatec Laboratories, Inc.																								
Bailey Controls Company																								
Baker Packers Thermal Systems																								
Barber-Nichols Engineering Co.																								
Ben Holt Company, The																								
Bird Machine Company																								
Cooper Industries Inc./WKM Div.																								
Cooper Industries																								
Corrick International																								
Crucible Compaction Metals																								
Douglas Energy Company																								
Dow Chemical USA																								
Emco Process Equipment Co.																								
Elliot Company																								
Eshigs, Inc.																								
Exlog/Smith (A)																								
Exlog/Smith (B)																								
Forster/W.L.G. Systems Division																								
Gasco Pumps, Inc.																								
Geothermal Power Company																								
Graham Manufacturing Co., Inc.																								
Hydril Company																								
Inter-Trade Supply																								
Johnson Controls, Inc.																								
Johnson Pump Company																								
Kinetics Tech. International Corp.																								
Mafi Trench Corporation																								
Marley Cooling Tower Co.																								
Midway Fishing Tool																								
Nash Engineering																								
Nash-Kinema, Inc.																								
Peetess Manufacturing Co.																								
Petrochemical Insulation, Inc.																								
Rohback Cosasco Systems																								
Rotoflow Corporation																								
Schneider, J.R.																								
Southport Equipment Corp.																								
S.P.S., Inc.																								
Systems Application Eng., Inc.																								
Taylor Forge Eng. Systems, Inc.																								
Tetra Recovery Systems																								
Tector Atlas, Inc.																								
TBW Reda Pump Division																								
T.S.T.CO.																								

	DIRECT-USE (NON-ELECTRIC)	DOWN HOLE PUMPS	Submersible Lineshaft	HEAT EXCHANGERS	Plate Shell & Tube	MISCELLANEOUS	Cooling Water Systems	Waste Water Disposal Systems	Insulated Line Pipe	Fiberglass Pipe	Heat Pumps	Production & Operating Controls	Radiators	Greenhouses	Food Processing Equip.	Software	GEOTHERMAL INFORMATION	General Geothermal Publications	Technical Geothermal Publications	MISCELLANEOUS	Heavy Duty Transportation Equip.	Stress Relief Equip. and Supplies
Ameron Fiberglass Pipe Division							•	•	•			•										
Ametek, Inc.												•										
Bailey Controls Company												•										
Barber-Nichols Engineering, Co.		•																				
Corrick International		•			•	•						•										
Ershigs, Inc.										•												
Foster/W.L.G. Systems Division						•																
Geothermal Resources Council																		•	•			
Geothermal World																		•				
Global Geochemistry																•						
Graham Manufacturing Co., Inc.					•																	
Harley Murray, Inc.																					•	
Hydrit Company									•													
Inter-Trade Supply					•	•							•									
Jordan, Apostle, Ritter Assoc., Inc.																•						
S.P.S., Inc.						•						•										
TRW Reda Pump Division		•																				
Cooperheat, Inc.																						•

Matrices of SERVICES

Company	EXPLORATION											
	GEOLOGY											
Company	Photography & Remote Sensing											
	Photogrammetry (Topographic Maps)	Infrared Photography & Interpretation	Orthophoto Map Interpretation	Side Looking Radar & Interpretation	Digital Image Processing & Interpretation	General Aerial Surveys	Airborne Geophysical Data & Navig. Equip. Instal.	GEOLOGIC FIELD STUDIES				
Company	Regional Evaluations (Reconnaissance Mapping)											
	Detail Surface Mapping	Helicopter Service	SUBSURFACE STUDIES									
Company	Lithologic Logging & Interpretation											
	Petrologic & Petrographic Studies	Lithologic/Structure & Fracture Analysis	GEOCHEMICAL/HYDROLOGICAL									
Company	Soil & Rock Sampling Analysis & Interpretation											
	Major Elements	Minor Elements	Age Dating	Alteration Minerals	Surface Gas Detection	Isotopes	Surface Radioactivity Detection	AQUIFER ASSESSMENT				
Company	Heat/Mass Bal. Analysis											
	Aquifer Analysis	Water Sampling & Analysis										
Company	Major Elements											
	Minor Elements	Isotopes	Geothermometers, Temperature & Mixing Models									
Aero Mobile Productions												
Albireo Limited												
Anatec Laboratories, Inc.												
Applegate Associates, Inc.												
Baldwin Engineering, Inc.												
Bamford, Robert W. & Assoc., Inc.												
Barringer Geoservices, Inc.												
Bechtel National, Inc.												
Berkeley Group, Inc. (BCI/BCT/BCS)												
Cascadia Pacific Corporation												
Colorado School of Mines												
Columbia Geoscience												
Comap Exploration Services, Inc.												
Counsil, John R., Ph.D.												
Dresser Atlas												
Drilling Resources Devel. Corp.												
EarthQuest												
Energy & Nat. Resources Consul., Inc.												
Exlog/Smith (B)												
Francis, Richard N.												
Geothermal Development Assoc.												
Geothermex, Inc.												
Global Geochemistry												
Graystar Technical Services												
Haymond & Associates												
Hi-Tech Fluids, Inc.												
James GeoAssociates												
Jerome Instrument Corp.												
Jordan, Apostle, Ritter Assoc., Inc.												
Mars Associates												
McDaniel, Scott												
McMurdie, Dennis & Associates												
Mesquite Group, Inc.												
Michels, Don Associates												
MicroGeophysics Corp.												
Mission Power Engineering Co.												
Morrison-Knudsen Engineers, Inc.												
Natural Resources Lab., Inc.												
Petrex												
S-Cubed												
Southwest Research Institute												
Stone & Webster Eng. Co.												
TerraSense, Inc.												
ThermaSource, Inc.												
Thermochem Inc.												
University of Utah Research Inst.												
Van Houton Consultants												
Vice, Dan H. & Associates												
Zenith Aerial, Inc.												

EXPLORATION CONT.

EXPLORATION CONT.																									
	Gas Sampling & Analysis			GEOPHYSICAL			Thermal Studies			Magnetic Surveys			Gravity			Seismic Studies			Electrical Studies			MISCELLANEOUS			
	Major Elements	Minor Elements	Isotopes		Thermal Gradient Measurement & Interpretation	Thermal Conductivity Measurement & Interpretation	Curie Point Mapping	Aeromagnetic Surveys & Interpretation	Ground Magnetic Surveys & Interpretation		Gravity Surveys & Interpretations	Microearthquake Measurement & Interpretation	Seismic Refraction Surveys & Interpretation	Seismic Reflection & Interpretation	Resistivity Surveys & Interpretation	Self Potential Surveys & Interpretation	Magnetotelluric Surveys & Interpretation	Electromagnetic Surveys & Interpretations		Geodata Synthesis	Numerical Simulation	Model Development			
Albireo Limited					•	•			•	•		•	•	•	•	•	•	•	•						
Anatec Laboratories, Inc.	•	•	•								•	•				•	•								
Applegate Associates, Inc.											•	•	•			•	•	•	•						
Barringer Geoservices, Inc.	•	•	•				•			•			•	•	•	•									
Bechtel National	•	•	•		•	•										•									
Berkeley Group Inc. (BGI,BGT&BGS)	•	•	•		•	•																			
Cadcadia Pacific Corporation	•	•	•		•																				
Celestial Software, Inc.													•	•	•										
Colorado School of Mines	•	•																							
Columbia Geoscience	•	•	•		•	•				•						•	•	•	•						
Comap Exploration Services, Inc.	•	•	•		•	•																			
Counsil, John R., Ph.D.	•	•	•																						
Dresser Atlas					•																				
EarthQuest					•																				
Electro-Magnetic Surveys, Inc.											•						•								
Energy & Nat. Resources Consul., Inc.					•																				
Exlog/Smith (B)	•	•									•		•	•	•	•	•	•	•						
Exploration Geothermics					•	•		•	•			•	•	•		•	•	•	•						
Geophysical Systems Corp.																									
Geophysics Group					•	•		•	•			•	•	•		•	•	•	•						
Geotech Data					•	•																			
Geothermal Development Assoc.					•	•																			
GeothermEx, Inc.	•	•	•		•	•		•	•		•	•	•	•		•		•	•						
Global Geochemistry	•	•	•																						
Jacobson, Jimmy J.					•	•			•					•	•	•	•	•	•						
James GeoAssociates										•															
McDaniel, Scott					•			•	•		•	•													
McMurdie, Dennis & Associates					•	•		•	•		•	•						•							
Mesquite Group, Inc.	•	•	•		•	•		•	•		•	•	•	•		•	•	•	•						
Michels, Don Associates	•	•																							
MicroGeophysics Corp.					•	•			•		•	•	•			•	•		•						
Mission Power Engineering Co.	•											•													
Morrison-Knudsen Engineers, Inc.	•	•			•						•														
Natural Resources Lab., Inc.			•								•			•	•						•	•			
S-Cubed																									
Southwest Research Institute					•	•							•			•	•	•	•						
Stone & Webster Eng. Co.	•				•	•		•	•		•	•	•	•		•	•	•	•						
TerraSense, Inc.								•	•		•														
Thermochem Inc.	•	•	•																						
T.S.T.C.O.	•																								
University of Utah Research Inst.					•			•	•		•					•	•	•							
Van Houten Consultants													•			•									
Zonge Eng. & Research Organ.																•	•	•	•						

	DRILLING/COMP.																
	Shallow TG Holes (to 150 m)	Intermediate TG Holes (to 1000 m)	Deep Exploration & Production Wells	Drilling Programs	Directional Drilling Engineering	Casing Programs	Cementing Programs	Well Head Design	Mud Programs & Processing	Drilling Management	Drilling Simulation & Training	Mud Logging	Safety Training	Casing Tongs	Bridge Plugs	Drill Jars & Shock Subs.	Shoop Perforations
Anadrill Schlumberger				•	•							•				•	
Baldwin Engineering, Inc.	•	•	•	•	•	•	•	•	•	•	•	•	•				
Bawden Drilling, Inc.	•	•	•	•	•	•	•	•	•	•	•	•	•				
Bechtel National, Inc.	•		•	•			•			•							
Berkeley Group, Inc. (BGI,BGT&BGS)	•	•	•	•		•	•	•	•	•							
Big Chief Drilling Co.	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
Bill's Casing Tong Service, Inc.						•								•			
Cascadia Pacific Corporation				•						•							
Christensen Mining Products				•		•			•	•	•						
Craddock Engineering, Inc.										•							
Drilling Resources Devel. Corp.				•	•	•	•	•	•	•	•						
Eastman Christensen Co.					•												
Eaton Industries of Houston, Inc.	•	•	•	•	•	•	•	•	•	•	•						
Energy & Nat. Resources Consul., Inc.	•									•							
EnergyLog												•					
Exlog/Smith (A)												•					
Exlog/Smith (B)												•					
Foster/W.L.G. Systems Division								•									
Gearhart MWD												•					
GeoHeat Center											•						
Geothermal Development Assoc.	•	•		•		•	•	•		•							
GeothermEx, Inc.	•	•	•	•	•	•	•	•	•	•	•	•					
Grace Drilling		•	•	•						•	•						
Grace, Shursen, Moore & Assoc.	•	•	•	•	•	•	•	•	•	•	•						
Halliburton Services							•		•		•						
Haymond & Associates	•	•															
Hi-Tech Fluids, Inc.	•	•	•	•	•	•	•		•	•	•						
Hydril Company						•											
Jordan, Apostle, Ritter Assoc., Inc.				•	•	•	•	•	•	•	•						
McMurdie, Dennis & Associates	•	•	•	•	•	•	•	•	•	•	•	•					
Mesquite Group, Inc.	•	•	•	•	•	•	•	•	•	•	•	•					
MicroGeophysics Corp.	•																
Montgomery Drilling Company			•	•	•	•	•	•	•	•	•						
Morrison-Knudsen Engineers, Inc.				•	•			•		•							
Pipe Sales Company																•	
Stone & Webster Eng. Co.			•	•		•		•		•	•						
Tetra Recovery Systems									•								
ThermaSource, Inc.	•	•	•	•	•	•	•	•	•	•	•						
Tonto Drilling Services	•	•	•	•	•	•	•	•	•		•						
Tri State Oil Tools Indus., Inc.															•		
University of Utah Research Inst.										•							
Welch & Howell Drilling, Inc.	•	•	•	•													
Welltech, Inc.				•	•	•	•			•	•						
Wheeler, George H.	•	•	•	•		•	•		•	•	•						
Wheeler, Herbert E.	•	•	•	•	•	•	•	•	•	•	•						

	RESERVOIR ASSESSMENT	WELL LOGGING GEOLOGICAL	Resistivity & Spontaneous Potential Logs	Drill Cutting Analysis	Core Analysis	WELL LOGGING GEOPHYSICAL	Resistivity & Spon- taneous Potential	Sonic & Caliper Logs	Gamma Ray Logs	Neutron Logs	Temperature Logs	Pressure Logs	Borehole Televiewer	Spinner Surveys	Flow Measurements	RESERVOIR ENGINEERING	Well Log Interpretation	Feasibility & Reservoir Risk Analysis	Reservoir Simulation (Modeling)	Fracture Analysis	WELL TESTING	Well Test Planning & Operations	Well Test Analysis	Engineering Studies & Analysis
Applegate Associates, Inc.																								
Baldwin Engineering, Inc.																								
Bamford, Robert W. & Assoc., Inc.																								
Bechtel National, Inc.																								
Berkeley Group Inc. (BCI,BGT&BGS)																								
Cascadia Pacific Corporation																								
Celestial Software, Inc.																								
Christensen Mining Products																								
Comap Exploration Services, Inc.																								
Counsil, John R., Ph.D.																								
Dresser Atlas																								
Eaton Industries of Houston, Inc.																								
Electro-Magnetic Surveys, Inc.																								
Energy & Nat. Resources Consul., Inc.																								
Exlog/Smith (B)																								
Exploration Geothermics																								
Gearhart MWD																								
GeoHeat Center																								
Geophysical Research Corp.																								
Geophysics Group																								
Geotech Data																								
Geothermal Development Assoc.																								
GeothermEx, Inc.																								
Grace, Shursen, Moore & Assoc.																								
Haymond & Associates																								
Intermountain Tech's., Inc.																								
Jacobson, Jimmy J.																								
McMurdie, Dennis & Associates																								
Mesquite Group, Inc.																								
Morrison-Knudsen Engineers, Inc.																								
Pruett Industries, International																								
S-Cubed																								
Southwest Research Institute																								
Stone & Webster Eng. Co.																								
ThermaSource, Inc.																								
University of Utah Research Inst.																								
Vice, Dan H. & Associates																								
Scientific Drilling International																								

	FIELD DEVELOPMENT	ENVIRON. SYSTEMS EVAL. & MONITOR.	Preliminary Environ- mental Evaluations	Air Studies	Water Studies	Soils Studies	Noise Studies	Seismic Studies	Subsidence Studies	Biologic Studies	Socioeconomic Studies	ENVIRON. PROBLEMS MITIGATION	Air	Water	Noise	Biologic	Socioeconomic
Anatec Laboratories, Inc.			•	•	•					•			•	•		•	
Barringer Geoservices, Inc.			•	•													
Bechtel National, Inc.			•	•	•	•	•	•	•	•	•		•	•	•	•	•
Berkeley Group, Inc. (BGI,BGT&BGS)			•				•										
Cascadia Pacific Corporation			•														
Celestial Software, Inc.								•									
Dresser Atlas					•		•	•									
Electro-Magnetic Surveys, Inc.					•									•			
Energy & Nat. Resources Consul., Inc.			•														
Geothermal Development Assoc.			•														
Geothermal Power Company													•				
GeothermEx, Inc.			•		•			•						•			
Global Geochemistry				•	•			•									
Graystar Technical Services			•		•					•				•		•	
Kinometrics, Inc.								•									
Kinetics Technology Int'l. Corp.													•	•		•	
MicroGeophysics Corp.							•	•	•								
Mission Power Engineering Co.				•	•		•	•	•	•	•		•	•	•	•	•
Morrison-Knudsen Engineers, Inc.			•	•	•		•		•	•	•		•	•	•	•	•
Radian Corporation			•	•	•					•	•		•	•		•	•
SAI Engineers, Inc.											•						
Southwest Research Institute				•	•		•	•	•								
Stone & Webster Eng. Co.			•	•	•		•	•	•	•	•		•	•	•	•	•
Systems Application Eng., Inc.				•	•	•	•			•	•		•				
T.S.T.C.O.				•													
Van Houton Consultants			•					•	•								

	PROJECT ANALYSIS	ELECTRICAL							DIRECT-USE (NON-ELECTRIC)							
		Power Plant Selection	Gathering System Design	Disposal System Design	Power Transmission System Design	Load Planning, Including Competing Energy Sources	Cost Benefit & Risk Analysis			Project Evaluation & Analysis	Hardware Selection & Systems Development	Marketing Studies	Cost Benefit & Risk Analysis	Demographic Studies	Direct-Use Training	Environmental Studies
Agland Investment Service, Inc.										•			•	•		
Baldwin Engineering, Inc.		•	•				•			•						
Bank of America NT&SA								•					•			
Barber-Nichols Engineering Co.		•			•					•	•					
Bechtel National, Inc.		•	•	•	•	•	•			•	•	•	•	•	•	•
Ben Holt Company, The		•	•							•	•	•	•			•
Berkeley Group Inc. (BGI,BGT&BGS)		•	•							•						
Celestial Software, Inc.		•					•			•			•			
Douglas Energy Company		•				•	•									
EarthQuest							•									•
Energy & Nat. Resources Consul., Inc.										•		•				
Exploration Geothermics										•						
GeoHeat Center										•	•	•	•	•	•	
Geothermal Development Assoc.		•	•		•	•	•			•	•	•	•	•		•
Geothermal Power Company		•														
GeothermEx, Inc.			•							•						
Graystar Technical Services																•
Haymond & Associates										•						
Little, Arthur D. Valuation							•			•		•	•			
McMurdie, Dennis & Associates							•									
Mission Power Engineering Co.		•	•		•	•	•			•	•	•	•	•		•
Morrison-Knudsen Engineers, Inc.		•	•			•	•			•	•	•	•			•
SAI Engineers, Inc.		•	•		•	•	•									
S.P.S., Inc.		•	•		•											
Stone & Webster Eng. Co.		•	•		•	•	•			•	•	•	•	•		•
ThermaSource, Inc.		•				•	•									
Valley Engineers, Inc.			•								•					
Van Houten Consultants		•	•		•											•
Counsil, John R., Ph.D.							•						•			

	PLANT MGMT. & OPERATIONS											
	Plant Start-Up	Project Operations— Electrical	Project Operations— Non-Electric	Controls Maintenance	Corrosion Monitoring	Condenser Cleaning & Repairs	H ₂ S Abatement Systems Service	H ₂ S Safety Services	Sulphur Scrubbing Studies	Pipe Cleaning (Internal)	Casing Leak Detection	Downhole Production Pump Repair
Bailey Controls Co.	●			●								
Ben Holt Company, The		●										
Berkeley Group Inc., (BGI,BGT,&BGS)		●										
Bird Machine Company									●			
Celestial Software		●										
Council, John R., Ph.D.		●	●									
Douglas Energy Company		●										
Dravo Constructors, Inc.	●	●										
Energylog							●	●				
Geothermal Development Assoc.		●	●									
GeothermEx, Inc.		●	●									
Johnston Pump Company												●
Pipe Restoration Systems						●				●		
Rohrback Cosasco					●							
Southwest Research Institute											●	

	FINANCING													
	Training	Strategic Planning & Advice	Exploration/Grants & Loans	Development/Grants & Loans	Equity	Leasing	Contract Negotiations	Project Evaluations	Acquisitions & Disinvestments	Financial Guarantees	Risk Management	Insurance (Worldwide)	Financial Advising	Privatization
Alexander & Alexander, Inc.										●	●	●		
Baldwin Engineering, Inc.								●						
Bank of America NT&SA			●	●	●	●							●	
Bechtel National, Inc.													●	
Counsil, John R., Ph.D.													●	
Diablo Executive Group, Inc.		●					●	●	●				●	●
Douglas Energy Company													●	
Energy & Nat. Resources Consul., Inc.			●	●									●	
GeothermEx, Inc.													●	
Haymond & Associates													●	
Kennedy & Associates			●	●									●	
Little, Arthur D. Valuation			●	●									●	
SAI Engineers, Inc.	●												●	
Stone & Webster Eng. Co.	●		●	●									●	
Sylvester Associates				●									●	
Craddock Engineering, Inc.													●	

	MISCELLANEOUS									
	Safety Analysis	Filteration Testing	Mineral Recovery from Brine	Export Services	Second Opinion on Exploration Programs	Software Development	Vibration Surveys	Heavy Duty Hauling	Hydrolic Loads Analysis	
Intermountain Tech's., Inc.	●					●				
Inter-Trade Supply				●						
Kinemetrics, Inc.							●			
McMurdie, Dennis & Associates					●					
Morrison-Knudsen Engineers, Inc.			●							
S-Cubed						●				
Schneider, J.R.	●									
Harley Murray, Inc.								●		
Intermountain Tech's., Inc.									●	