DIRECTORY OF AVAILABLE
CONSULTING MINING, METALLURGICAL, GEOPHYSICAL, AND GEOLOGICAL ENGINEERS, GEOLOGISTS, AND AUTHORIZED BLM MINERAL SURVEYORS REGISTERED AND RESIDING IN ARIZONA

BY
CLIFFORD J. HICKS
MINERAL RESOURCES SPECIALIST

ARIZONA DEPARTMENT OF MINERAL RESOURCES
JOHN H. JETT, DIRECTOR
ANNUAL DIRECTORY NO. 3
NOVEMBER - 1978

PHOENIX OFFICE
MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA  85007
(602)271-3791

TUCSON OFFICE
STATE OFFICE BUILDING
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TUCSON, ARIZONA  85701
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BOARD OF GOVERNORS

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(Term expires January 31, 1983)

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(Term expires January 31, 1982)

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(Term expires January 31, 1981)

JOHN H. JETT
Director
Department of Mineral Resources
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<td>Yuma</td>
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</tbody>
</table>

Authorized U.S. Bureau of Land Management Mineral Surveyors

NOTE: ABBREVIATIONS FOLLOWING NAMES INDICATE AVAILABILITY

PT - Available Part Time
FT - Available Full Time
PT/FT - Available Part Time or Full Time
GEOLOGISTS

COCHISE COUNTY

Bollin, Edgar M. (PT), RR1, Box 1006, Sierra Vista, 85635

GILA COUNTY

Conwell, Cleland N. (PT), P. O. Box 407, Globe, 85501

Eastlick, John T. (PT), RR1, Box 621A, Miami, 85539

MARICOPA COUNTY

Buseck, Peter R. (PT), Chemistry Department, Arizona State University, Tempe, 85281

Crossman, Harold A. (PT), 6451 S. 22nd Place, Phoenix, 85040

Euge, Kenneth M. (PT), 3754 Acoma Drive, Phoenix, 85023

Furlow, James W. (FT), Dames & Moore, Suite 111-A, 234 N. Central Av., Phoenix, 85004

Giardina, Sal, (PT), 2604 E. Balboa, Tempe, 85282

Greenslade, William M. (FT), 234 N. Central Ave., Suite 111-A, Phoenix, 85004

Manera, Paul A. (FT), 5251 N. 16th St., Suite 302, Phoenix, 85016

Matthews, Gilbert John (retired) (PT), 13126 N. 20th Lane, Phoenix, 85029

Mieritz, Richard E. (FT), 2940 Casa Thomas, Phoenix, 85016

SPECIALITY

Subdivision soils studies and materials testing.

Mining examinations and appraisals

Development of ore deposits.

Uranium exploration.

Economic geology.

Engineering geology; geologic hazards; shallow geophysics; earthquake ground motion; slope stability; rock excavation.

Groundwater hydrology.


Mining engineer. 29 years experience in precious metals, lead-zinc and copper underground hardrock mining and milling operations. USDA Forest Service Mineral Examiner.

Mine and geological examinations, feasibility studies, claim surveying.
GEOLOGISTS

MARICOPA COUNTY

Pe'we', Troy L. (PT), Department of Geology, Arizona State University, Tempe, 85281.

Podesta, Donald J. (PT), 4729 W. Mediterranean Drive, Glendale, 85301.

Ragan, Donald M. (PT), 1887 E. Concorda Dr., Tempe, 85282.

Roesler, Alan L. (PT), 9807 N. 56th Drive, Glendale, 85301.

Sheridan, Michael F. (PT), 2526 N. 56th St., Phoenix, 85008.

Thiele, Heinrich J. (FT), 6250 East Montecosa St., Scottsdale, 85251.

Weathers, Gerald (FT), 3928 E. Meadowbrook Ave., Phoenix, 85018.

SPECIALITY


General geology.

Engineering geology.

Economic geology, environmental impact, volcanic rocks.

Mineral and hydrogeology. Geophysics and remote sensing.

PIMA COUNTY

Arnold, L. Clark (PT), 5115 N. Oracle Road, Tucson, 85704.

Bowditch, Samuel I. (PT), 4002 E. Cooper St., Tucson, 85711.


Buck, Loren I. (PT), 4435 E. Brott St., Tucson, 85712.

Cook, Annan, (PT/FT), 942 Wanda Vista Place, Tucson, 85704.

Corn, Russell M. (FT), 8425 Desert Steppes Drive, Tucson, 85710.

Courtright, James Harold (PT), 202 Suffolk Drive, Tucson, 85704.

Den-Baars Dirk (FT), 6318 E. Hayne St., Tucson, 85710.

Copper exploration.

Mining geology and land work.

Base and precious metal, uranium and geothermal exploration. Turnkey exploration contracts. Color aerial photography.

Mine or property examination and valuation. Exploration for and development of ore bodies.


Prospect and mine evaluation; exploration - non-ferrous minerals.

Limestone and nonmetallics, copper, gold and silver.
GEOLOGISTS

PIMA COUNTY

Eyde, Ted H. (FT), Box 1127, Cortaro, 85230

Gilmour, Paul Cameron, (FT), 3838 Calle de Soto, Tucson, 85716.

Greene, Donald K. (FT), 8042 Julia St., Tucson, 85710.


Hargis, David R. (FT), 1525 E. Kleindale, Tucson, 85719.


Lepley, L. K. (PT/FT), 8841 N. Calle Loma Linda, Tucson, 85704.

Loghry, James D. (FT), 2121 E. Monte Vista Drive, Tucson, 85719.

Lowell, J. David (FT), 5115 N. Oracle, Tucson, 85704.

MacKenzie, F. D. (FT), 5713 E. Rosewood St., Tucson, 85711.

Metz, Robert A. (PT), 1729 Desert Vista Dr., Tucson, 85710.


SPECIALITY

Nonmetallic mineral deposits.
Natural zeolite deposits.

Mining geology - i.e., problems relating to exploration for and exploitation of mineral deposits.

Consultant in hydrology and water resources.

Mine water supply; mine drainage; tailing pond hydrology. Consultant in water resources.

Hydrogeology; groundwater exploration and development; mine dewatering; environmental impact assessment.

Application geological sciences to engineering works; dams, tunnels, reservoirs, power plants, mines/quarries, etc.

Remote sensing. Experienced in reconnaissance exploration for metals, industrial minerals, geothermals, oil and gas; coastal zone mapping and digital image processing.

Mining and exploration geologist, project management, prospect evaluation; porphyry copper, molybdenum, uranium and industrial mineral deposits.

Porphyry copper exploration and geology.

Base metals (underground and open pit mining). Mineral exploration.

Nonferrous metals, groundwater.

Hydrogeology.
GEOLOGISTS

PIIMA COUNTY

Perry, Albert J. (FT), 4420 E. Speedway Blvd. Tucson, 85712
SPECIALITY
Metallic and nonmetallic mineral deposits.

Platt, Wallace S. (FT), 753 E. David Drive, Tucson, 85730
Coal or hard-rock project. From initial field investigation thru final reserve drilling.

Radabaugh, Robert E. (PT), 5720 E. 9th St., Tucson, 85711
Mining geology.

Schreiber, Joseph F. Jr. (PT), 6101 E. Oak St., Tucson, 85711
Stratigraphy and sedimentation.

Sewell, Charles R. (FT), 9191 E. Golf Links Rd., Tucson, 85730

Shearer, Joseph E. (FT), 6821 E. Baker St., Tucson, 85710
Design and execution of programs of mineral exploration, metallic and nonmetallic.

Still, Arthur R. (FT), 6840 Camino de Fray Marcos, Tucson, 85718

Sumner, John S. (PT), 728 N. Sawtelle, Tucson, 85716
Data interpretation - water exploration.

Thompson, Mercer F. (FT), 8972 E. Calle Pasto, Tucson, 85715
Land status and mining geology.

PINAL COUNTY

Kuhn, John G. (PT), Box 1102, Kearny, 85237

YUMA COUNTY

Youell, James R. (PT), P. O. Box 338, Wenden, 85357
Preliminary patent procedures.

GILA COUNTY

Conwell, Cleland N. (PT), P. O. Box 407, Globe 85501
MARICOPA COUNTY

Estes, Leon D. (PT), 4506 W. Kaler Circle
Glendale, 85301

Greenslade, William M. (FT), 234 N. Central
Ave., Suite 111-A, Phoenix, 85004

Kay, George B. (PT), 5226, W. Onyx, Glendale, 85302

Kinnon, William C. (PT), Saguaro Dr., P. O.
Box P2, Wickenburg, 85358

Manera, Paul A. (FT), 5251 N. 16th St.,
Suite 302, Phoenix, 85016

PIMA COUNTY

Call, Richard D. (FT), 4420 E. Speedway,
Tucson, 85712

Cook, Annan (PT/FT), 942 Wanda Vista Place,
Tucson, 85704

Glass, Charles E. (PT), 7860 N. Avenida de
Carlotta, Tucson, 85704

Heinrichs, Walter E. Jr. (PT/FT), 810 W. Gr­
ant Rd., Box 5964, Tucson, 85703

Kiersch, George A. (FT), 4750 N. Camino Luz,
Tucson, 85718

Nicholas, David E. (FT), 4420 E. Speedway
Blvd., Tucson, 85712

Peters, William C. (PT), 5702 E. 7th St.,
Tucson, 85711

Savely, James P. (PT/FT), 7138 E. Paseo San
Andres, Tucson, 85710

SPECIALITY

Road design and materials.

Groundwater hydrology.

Construction materials, exploration and testing. Experience with groundwater investigations, drilling techniques.

Gold and silver ores, milling and cyanidation. Mine plant and ore milling plant design.


Rock mechanics.

Mine or property examination and valuation. Exploration for and development of ore bodies.

Earthquake engineering, active faulting rock dynamics, remote sensing.

Mining exploration. Geophysical instrument, rental, repair, design, production and sales.

Application geological sciences to engineering works; dams, tunnels, reservoirs, power plants, mines/quarries, etc.

Rock mechanics.

Metals and industrial minerals exploration, prospect evaluation, mine evaluation.

Rock mechanics, slope stability.
GEOLOGICAL ENGINEERS

PIMA COUNTY

StPeter, Albert L. (FT), 6820 E. Speedway, Tucson, 85710.

Winters, Harry J. Jr. (FT), 4420 E. Speedway, Tucson, 85712.

SPECIALITY

Valuation of mining properties and operations.

GEOPHYSICAL ENGINEERS

MARICOPA COUNTY

Manera, Paul A. (FT), 5251 N. 16th St., Suite 302, Phoenix, 85016.

Scheffey, Paul L. (FT), 1736 W. Carol Ave., Phoenix, 85021.

PIMA COUNTY

Elliot, Charles L. (FT), 4653 E. Pima St., Tucson, 85712.

Heinrichs, Walter E. Jr., (PT/FT), 810 W. Grant Rd., Box 5964, Tucson, 85703.

McAlister, Edgar O. (FT), 9810 E. Broadway, Tucson, 85710.

Sumner, John S. (PT), 728 N. Sawtelle, Tucson, 85716.

West, Robert E. (PT), 2400 E. Grant Rd., Tucson, 85705.

Wiedvwilt, W. Gordon (PT), 2400 E. Grant Rd. Tucson, 85719.

SPECIALITY


Seismic interpretation of refraction and reflection data as applied to geotechnical site investigation and mineral and petroleum search. Integrate surface and subsurface geological and geophysical information into a total geoscientific evaluation.

Mining exploration. Geophysical instrument, rental, repair, design, production and sales.

The combined use of geophysics and geology in the search for base and precious metal deposits.

Data interpretation. Water exploration.

Geophysical exploration. Application of geophysical methods to exploration for ore deposits, petroleum, groundwater, and in engineering studies.

Magnetics, gravity, induced polarization, resistivity, electromagnetic data and methods. Some experience in resistivity, S.P. and gamma ray logging.
METALLURGICAL ENGINEERS

APACHE COUNTY

Keyes, Harmon E. (PT), P. O. Box 213, Eagar, 85925

SPECIALITY
Copper leaching. Autooxidation process developments for ferric sulphate production.

COCHISE COUNTY

Ferguson, William H. Jr. (FT), P. O. Box 1238, Sierra Vista, 85635

SPECIALITY
Hydro-metallurgy, leaching. Experienced and licensed as general engineering and heavy construction contractor.

GILA COUNTY

Conwell, Cleland N. (PT), P. O. Box 407, Globe, 85501

SPECIALITY

GREENLEE COUNTY

Clevenger, Galen W. (PT), P. O. Drawer U, Morenci, 85540

SPECIALITY
Hydrometallurgy - copper, uranium, zinc.

MARICOPA COUNTY

Bradley, Robert C. (PT), 6240 N. 15th St., Phoenix, 85014

SPECIALITY
Physical metallurgy - materials selection, failure analysis, corrosion.

Kinnon, William C. (PT), Saguaro Dr., P. O. Box P2, Wickenburg, 85358

SPECIALITY
Gold and silver ores milling and cyanidation. Mine plant and ore milling plant design.

Matthews, Gilbert John (retired) (PT), 13126 N. 20th Ln., Phoenix, 85029

SPECIALITY
Mining engineer. 29 years experience in precious metals, lead-zinc, and copper underground hardrock mining and milling operations. USDA Forest Service Mineral Examiner.

Mulkin, Charles W. (PT), 6150 E. Harvard, Scottsdale, 85257

SPECIALITY
Failure analysis.

Nagy, Peter (PT), 5029 E. Cheery Lynn, Phoenix, 85018

SPECIALITY
Physical metallurgy, materials application and process selection, failure analysis.

Senior, Franklin C. (PT/FT), 1825 N. 11th Ave., Phoenix, 85007
METALLURGICAL ENGINEERS

PIMA COUNTY

Bitzer, E. C. (PT), 9159 A East Broadway, Tucson, 85710

Brussolo, V. A. (PT), 3819 N. Country Club Rd., Tucson, 85716

Dresher, William H. (PT), 1622 Entrada Diez, Tucson, 85718

Holderreed, F. L. (PT), 8718 Olympic Club Circle, Tucson 85710

Horst, William E. (FT), 7045 N. Montebella Road, Tucson, 85704

Komadina, George A. (PT), 6641 N. Mesa View, Tucson, 85718

Kuhn, Martin C. (PT), 5934 E. 3rd St., Tucson, 85711

Murphy, Daniel J. (PT), 2600 Skyline Dr., Apt. 23, Tucson, 85718

Osborn, Clyde E. (PT), 7215 E. Camino Valle Verde, Tucson, 85715

Rabb, David D. (FT), 5200 Calle la Cima, Tucson, 85718

Walker, W. W. (PT), 729 N. Richey Blvd., Tucson, 85711

Winkler, Fred M. (PT), 6001 W. Rocking Cir., Tucson, 85713

SPECIALITY

Ore dressing. Hydrometallurgy.

Low grade metalliferous mineral deposits.

Metallurgical processing, new venture analysis. Not available in Arizona.


Properties and behavior of metals and alloys.

Extractive metallurgy. Copper, uranium, gold, silver and tungsten.

Not available in Arizona.

Corrosion problems. Metal parts failures, welding engineering.

Copper smelting and representation. Operating problems, layout, safety, personnel, management consultant.
MINING ENGINEERS

GILA COUNTY

Attaway, Micheal (PT), P. O. Box 880, Miami, 85539

Conwell, Cleland N. (PT), P. O. Box 407, Globe, 85501

Fletcher, James B. (FT), P. O. Box 846, Miami, 85539

Gerhardt, Alvin W. (PT), 816 Agave Dr., Globe, 85501

Hurst, Robert M. (PT/FT), 18 Prickly Pear Dr., Globe, 85501

Quay, J. H. (PT), Box 2910, Globe, 85501

Sorsen, William W. (FT), 770 Sunset Dr., Globe, 85501

GRAHAM COUNTY

Johnson, Thomas C. (PT), P. O. Box 405, Pima, 85543

MARICOPA COUNTY

Bennett, Anthony N. (PT), Box 1207 Good-year, 85338

Coggin, H. Mason (FT), 4550 N. 12th St., Phoenix, 85014

Kinnon, William C. (PT), Saguaro Dr., P. O. Box P2, Wickenburg, 85358

Matthews, Gilbert John (retired) (PT), 13126 N. 20th Ln., Phoenix, 85029

Mieritz, Richard E. (FT), 2940 N. Casa Thomas, Phoenix, 85016

SPECIALITY


Heap leaching, blast leach in-place, in-place leaching, in-situ leaching - copper, gold, silver, uranium. Block cave mining.

Design.

Copper dump leaching. Mine development. Expertise in developing and mining asbestos and uranium in Gila County.

Ventilation in mines.

Surface and underground feasibility and economics. Land status determination.

Gold and silver ores milling and cyanidation. Mine plant and ore milling plant design.

Mining engineer. 29 years experience in precious metals, lead-zinc, and copper underground hardrock mining and milling. USDA Forest Service Mineral Examiner.

Mine and geological examinations, feasibility studies, claim surveying.
## MINING ENGINEERS

### MARICOPA COUNTY

**O'Leary, Dorman S. (FT),** P. O. Box 1041, Wickenburg

**Smith, Harvey W. (FT),** 4310 N. Brown Ave, Suite 5, Scottsdale, 85251

**Strutzel, J. J. Jr. (PT),** 5110 E. Osborn, Phoenix, 85018

**Tamplin, William W. (PT),** 4727 E. Cambridge Ave., Phoenix, 85008

**Tognoni, Hale C. (PT/FT),** 1525 W. Northern Ave., Phoenix, 85021

### MOHAVE COUNTY

**Burton, Robert S. (PT),** P. O. Box 664, Riviera, 86442

### PIMA COUNTY

**Boggero, Antonio (FT),** 3721 N. Cherry, Tucson, 85719

**Brussolo, V. A. (PT),** 3819 N. Country Club Rd., Tucson, 85716

**Couzens, Thomas R. (FT),** 4420 E. Speedway Blvd., Tucson, 85712

**Friedman, A. A. (PT),** P. O. Box 83, Green Valley, 85614

**Halpenny, Leonard C. (FT),** 3938 E. Santa Barbara, Tucson, 85711

**Hannifan, Martin K. (PT),** 8959 E. Woodland Rd., Tucson, 85715

**James, Robert C. (PT/FT),** 701 N. Crest Dr., Tucson, 85716

**Lambert, D. P. (FT),** P. O. Box 50567, Tucson, 85703

## SPECIALITY

### U.S. mineral surveyor, metals, nonmetallics.

### Mine economics.

### Drilled shafts. Mineral development.

### Block caving, LHD, mine development. Planning by computer.

### Low grade metalliferous mineral deposits.

### Open pit planning and design. Ore reserve estimation.

### Mine water supply; mine drainage; tailing pond hydrology. Consultants in water resources.

### Mining operations - management counsel, methods planning and evaluation, operations appraisal.

### Mine methods - operations management, mine feasibility. Experienced in mine development, construction and equipment applications.
### MINING ENGINEERS

#### PIMA COUNTY

<table>
<thead>
<tr>
<th>Name</th>
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</tr>
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<tbody>
<tr>
<td>Lowell, J. David (FT)</td>
<td>5115 N. Oracle, Tucson, 85704</td>
<td>Tucson</td>
<td>Porphyry copper exploration and geology.</td>
</tr>
<tr>
<td>O'Neil, Thomas J. (PT)</td>
<td>6831 E. 4th St., Tucson, 85710.</td>
<td>Tucson</td>
<td>Open pit.</td>
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<tr>
<td>Pate, Manoah L. (PT)</td>
<td>2513 N. Stewart Ave., Tucson, 85716.</td>
<td>Tucson</td>
<td>Underground mining, exploration and development.</td>
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<tr>
<td>Pincock, W. K. (FT)</td>
<td>4420 E. Speedway, Tucson, 85712</td>
<td>Tucson</td>
<td>Open pit operation.</td>
</tr>
<tr>
<td>Rickard, Forrest R. (PT)</td>
<td>P. O. Box 870, Ajo, 85321.</td>
<td>Ajo</td>
<td>Mine planning. Open pit design.</td>
</tr>
<tr>
<td>Schou, Hans H. (PT)</td>
<td>2137 E. Edison St., Tucson, 85719.</td>
<td>Tucson</td>
<td>Design of underground mine and mine plant, mine shafts, etc., and conduct of feasibility studies concerning underground mining operations.</td>
</tr>
<tr>
<td>Stitzer, John H. (PT)</td>
<td>3256 E. Linden, Tucson, 85716.</td>
<td>Tucson</td>
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<tr>
<td>StPeter, Albert L. (FT)</td>
<td>6820 E. Speedway, Tucson, 85710.</td>
<td>Tucson</td>
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<tr>
<td>Winkle, Robert F. (FT)</td>
<td>5718 N. Camino De La Noche, Tucson, 85718.</td>
<td>Tucson</td>
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#### PINAL COUNTY

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<tr>
<td>Hendrieks, Robert S. (FT)</td>
<td>Box 1176, Casa Grande, 85222.</td>
<td>Casa Grande</td>
<td>Design of underground mine and mine plant, mine shafts, etc., and conduct of feasibility studies concerning underground mining operations.</td>
</tr>
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</table>

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MINING ENGINEERS

SANTA CRUZ COUNTY

Lenon, Robert (PT), Box 525, Patagonia, 85624.

YAVAPAI COUNTY

Hightower, Robert P. (PT), 701 3rd North St., Clarkdale, 86324.

Zinkl, Andrew J. (PT), 1602 N. Campbell, Prescott, 86301.

YUMA COUNTY

Cornejo, Louis A. (FT), P. O. Box 320, Parker, 85344.

SPECIALITY

Also registered land surveyor and U.S. mineral surveyor.

Coal; (deep, pit, strip, contour) beneficiation - wet, dry, air, jig, dense media, classification.

Placer testing and operating.

Mine examinations and mineral surveys.
AUTHORIZED UNITED STATES BUREAU OF LAND MANAGEMENT
MINERAL SURVEYORS

GILA COUNTY

Gant, Travis L., P. O. Box 943,
Globe, Arizona 85301

MARICOPA COUNTY

Adams, Robert E., 7534 N. 46th Circle,
Glendale, Arizona 85301

Nunnelley, Ralph B., 4550 N. 12th St.,
Phoenix, Arizona 85013

Smith, Harvey W., 6016 N. Kachina Lane,
Paradise Valley, Arizona 85253

MOHAVE COUNTY

Kesler, Jack M., P. O. Box 655,
Kingman, Arizona 86402

Williams, Jerry C., 4185 N. Roosevelt St.,
Kingman, Arizona 86401

PIMA COUNTY

Lucklow, Thomas F., 7001 E. Redbud Rd.,
Tucson, Arizona 85715

McLain, Gordon W., 1520 W. San Lucas Dr.,
Tucson, Arizona 85704

Stitzer, John H., 1650 E. 18th St., Suite C,
Tucson, Arizona 85719

SANTA CRUZ COUNTY

Lenon, Robert, P. O. Box 525, Patagonia,
Arizona 85624

YUMA COUNTY

Cornejo, Louis A., 1221 Eagle Ave.,
Parker, Arizona 85344
ARIZONA DEPARTMENT OF MINERAL RESOURCES

The Department was created to aid in the promotion, development, and conservation of the mineral resources of the State. Particular emphasis is placed on providing prospectors and small miners with semi-technical assistance and economic information.

The general goal of the Department is developed by working with the following objectives:

- Provide technical assistance to prospectors and operators of small mines.
- Disseminate comprehensive mining and mineral information to the citizens and government officials of Arizona counties.
- Study conditions regarding small mine activity and seek solutions to problems.
- Serve as the State's public bureau of mining and mineral information.
- Maintain and expand the Department's mine file library.
- Provide educational services in the field of mineral resources and mining.
- Analyse proposed Federal and State administrative actions.
- Develop interagency cooperation between the Department and other local State and Federal offices.
- Gather all information available on mineral occurrences, prospects, partially developed properties and known mines in the State in order to promote further exploration.
- Provide publications in the form of mineral reports, annual directories, technical reports, annual mineral industry surveys, information circulars, and media articles.