

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

BY
RICHARD R. BEARD
MINERAL RESOURCES SPECIALIST

**ARIZONA DEPARTMENT OF MINERAL RESOURCES
JOHN H. JETT, DIRECTOR
ANNUAL DIRECTORY NO. 9
JANUARY 1980**

PHOENIX OFFICE

**MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA 85007
(602) 255-3791**

TUCSON OFFICE

**STATE OFFICE BUILDING
ROOM 193, 415 W. CONGRESS
TUCSON, ARIZONA 65701
(602) 882-5399**

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Department of Mineral Resources

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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), RR2, Box 1006
Sierra Vista, 85635 458-9123

SPECIALITY

Subdivision soils studies and
materials testing.

GILA COUNTY

FOWELLS, Joseph E. (PT), 124 Miami Gardens
Dr., Miami, 85539 425-3633

MARICOPA COUNTY

CROSSMAN, Harold A. (PT), 6451 S. 22nd place
Phoenix, 85040 276-5954

Uranium exploration.
Foundation engineering.

EUGE, Kenneth M. (PT), 3754 Acoma Drive,
Phoenix, 85023 938-9421

Environmental geology.
Engineering geology.

GIARDINA, Sal (PT), 2604 E. Balboa
Tempe, 85282 838-0786

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

GREENSLADE, William M. (FT), 234 N. Central
Ave., Suite 111-A, Phoenix, 85004..252-6051

Groundwater hydrology, water
supply, dewatering, contamina-
tion.

GRIFFIN, Bert Eldon, (PT), 312 W. Glenrosa
Ave., Phoenix, 85013 274-9597

Hydrology and economic geology.

LINDER, Harold (FT), 5803 S. Kenwood,
Tempe, 85283 839-9440

Mineral exploration using
integrated geological, geophys-
ical and geochemical surveys.
Prospect evaluation. Project
management. General geological
investigations. 20 years
experience throughout North
America.

MANERA, Paul A. (FT), 5251 N. 16th St.,
Suite 302, Phoenix 85016 263-0356

Groundwater geology, exploration,
longevity. Electrical resis-
tivity Surveying.

MIERITZ, Richard E. (FT), 2940 Casa Thomas,
Phoenix, 85016 277-6053

Mine and geological examinations,
feasibility studies, claim
surveying.

MILLER, Paul T. (PT), 33 E. 15th Street
Tempe, 85281 967-4489

Ground water; petroleum;
environmental.

GEOLOGISTS

MARICOPA COUNTY

PE'WE', Troy L. (PT), Dept of Geology, Ariz.
State Univ., Tempe, 85281 965-2883

ROESLER, Alan L. (PT), 9807 N. 56th Drive,
Glendale, 85302 939-6133

THIELE, Heinrich J. (FT), 6250 E. Monterosa
St., Scottsdale, 85251 947-9488

PIMA COUNTY

ARNOLD, L. Clark, (PT), 5115 N. Oracle
Road, Tucson 85704 887-5341

BRISCOE, James A. (FT), 4500 E. Speedway,
Suite 14, Tucson 85712 795-6097

COOK, Annan, (FT), 942 Wanda Vista Place,
Tucson 85704 297-4908

CORN, Russell M., (FT), 8425 Desert Steppes
Dr., Tucson 85710 298-1770

COURTRIGHT, James Harold (PT), 202 Suffold
Dr., Tucson 85704 297-0747

DEN-BAARS, Dirk (FT), 6318 E. Hayne Street
Tucson 85710 747-9551

EYDE, Ted H. (FT), Box 1127
Cortaro 85230 297-4330

GILMOUR, Paul Cameron, (FT), 3838 Calle de
Soto, Tucson 85716 326-5450

HALPENNY, Leonard C. (FT), Water Development
Corp., 3938 E. Santa Barbara
Tucson 85711 326-1133

SPECIALITY

Construction, land use, planning
environment. Wide experience
in Central Arizona.

Engineering geology.

Mineral and hydrogeology.
Geophysics & remote sensing.
Evaluation of possible oil
traps & secondary oil resources.

Copper exploration.

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.

Mineral exploration. Base and
precious metals - uranium.

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

Limestone and nonmetallics,
copper, gold and silver.

Nonmetallic mineral deposits.
Natural zeolite deposits.

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

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

GEOLOGISTS

PIMA COUNTY (Continued)

HARGIS, David R. (FT), 1735 E. Fort Lowell Rd.
Suite 5, Tucson 85719 881-4912

SPECIALTY

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

HARSHBARGER, John W. (FT), 1525 E. Kleindale Rd, Tucson 85719 327-7224

Groundwater investigations; well field design; water management.

HUCKINS, Daniel L. E. (PT), Box 50405,
Tucson 85703 742-3925 ..888-7958

Mining geology, particularly mapping.

KIERSCH, George A. (FT), 4750 N. Camino Luz
Tucson 85718 299-3776

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

KINNISON, John E. (FT), 5115 N. Oracle Rd,
Tucson 85704 888-4794

General exploration and copper. Drilling & sampling: techniques & advice.

LEPLEY, L. K. (PT/FT), 8841 N. Calle Loma Linda, Tucson 85704 297-4647

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

LOGHRY, James D. (FT), 2121 E. Monte Vista Dr., Tucson 85719 323-2945

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

LOWELL, J. David (FT), 5115 N. Oracle,
Tucson 85704 887-5341

Porphyry copper exploration and geology. Mining geology.

MAC KENZIE, F. D. (FT), 5713 E. Rosewood St., Tucson 85711 745-2415

Precious base metals (underground & open pit mining). Mineral exploration.

PERRY, Albert J. (FT), 4370 S. Fremont Ave,
Tucson 85712 746-1451

Metallic & nonmetallic mineral deposits.

PLATT, Wallace S. (FT), 7531 E. David Drive
Tucson 85730 790-1091

Coal or hard-rock project. From initial field investigation thru final reserve drilling.

PYE, Willard D. (FT), 3418 N. Forgeus Ave.,
Tucson 85716 327-2956

Fossil fuels: oil & gas, petroleum. Mineral deposits: metallic & nonmetallic. Also, regional geological studies & mineral relationships. Registered geologist, Arizona.

GEOLOGISTS

PIMA COUNTY (Continued)

RADABAUGH, Robert E. (PT), 5720 E. 9th St.,
Tucson 85711 745-5790

RIGG, Robert M. (PT), 3448 N. Jackson Ave.,
Tucson 85719 325-5135
(After 1 p.m.)

SCHREIBER, Joseph F. Jr. (PT), 6101 E. Oak
St., Tucson 85711 747-7918

SEWELL, Charles R. (FT), 9191 E. Golf Links
Rd, Tucson 85730 296-3492

SHEARER, Joseph E. (FT), 6821 E. Baker St.,
Tucson 85710 298-8125

STILL, Arthur R. (FT), 6840 Camino de Fray
Marcos, Tucson 85718 742-2507

SUMNER, John S. (PT), 728 N. Sawtelle,
Tucson 85716 323-0720

THOMPSON, Mercer F. (FT), 8972 E. Calle
Pasto, Tucson 85715 296-9492

WRIGHT, Jerome J., PhD (PT), 7711 E. Lee,
Tucson 85715 885-1825

PINAL COUNTY

KUHN, John G. (PT), Box 1102
Kearny 85237 363-5326

YAVAPAI COUNTY

HANDVERGER, Paul A. (FT), 13 Old Jerome
Highway Clarkdale 86324 634-8466

WEATHERS, Gerald (FT), P. O. Box 826
Lake Montezuma 86342 567-4779

SPECIALTY

Mining geology.

Petroleum & bauxite exploration.
Above foreign: Egypt, Saudi
Arabia, Columbia & Brazil
(Bauxite)

Stratigraphy & sedimentation.

Design & execution of programs
of mineral exploration, metallic
& nonmetallic.

Data interpretation, water
exploration.

Land status & Mining geology.

Hydrogeology, petroleum,
geothermal.

Economic geology. Precious
metals, uranium, copper.
Property evaluation, claim
staking crew, geochemical
sampling crew. Aerial photogra-
phy with photogrammetry and/or
geologic interpretation.

Mineral exploration.

GEOLOGISTS

YUMA COUNTY

YOUELL, James R. (PT), P. O. Box 338
Wenden 85357 859-3491

SPECIALTY

Preliminary patent procedures.
Gold cyanidation, heap leaching,
mine evaluation.

GEOLOGICAL ENGINEERS

MARICOPA COUNTY

GREENSLADE, William M. (FT), 234 N. Central Ave., Suite 111-A, Phoenix 85004.252-6051

MANERA, Paul A. (FT), 5251 N. 16th St., Suite 302, Phoenix 85016.....263-0356

Groundwater hydrology. Water supply, dewatering, contamination.

Groundwater geology - exploration, longevity. Electrical resistivity. Surveying.

PIMA COUNTY

GLASS, Charles E. (PT), 7860 N. Avenida de Carlotta, Tucson 85704 297-3503

Earthquake engineering, active faulting rock dynamics, remote sensing.

HACKMAN, David B., (FT), 48-B N. Tucson Blvd. Tucson 85716 795-8380

Mineral exploration and evaluation. Especially precious metals, gold & silver.

NICHOLAS, David E. (FT), 7501 E. Calle Cabo Tucson 85715 296-0435

Rock mechanics.

PETERS, William C. (PT), 5702 E. 7th St., Tucson 85711 745-6807

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

SAVELY, James P. (FT), 4370 S. Fremont Ave. Tucson 85714 746-1451

Rock mechanics, slope stability.

VISCA, Paul J. (PT), 4541 E. Bellevue Tucson 85712 626-4448

Slope stability; statistical applications in geotechnics.

WINTERS, Harry J. Jr.(FT), 4370 S. Fremont Ave., Tucson 85714 746-1451

Valuation of mining properties and operations.

GEOFYSICAL ENGINEERS

MARICOPA COUNTY

MANERA, Paul A. (FT), 5251 N. 16th St., Suite 302, Phoenix 85016 263-0356

Groundwater geology, exploration, longevity, Electrical resistivity Surveying.

GEOPHYSICAL ENGINEERS

MARICOPA COUNTY (Continued)

SCHEFFEY, Paul L. (FT), 1736 W. Carol Ave.
Phoenix 85021 943-1051

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.

PIMA COUNTY

ELLIOT, Charles L. (FT), 4653 E. Pima St.,
Tucson 85712 323-2421

Mining & engineering geophysics.

McALISTER, Edgar O. (FT), 9810 E. Broadway,
Tucson 85710 296-8838

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

SUMNER, John S. (PT), 728 N. Sawtelle,
Tucson 85716 323-0720

Data interpretation. Water exploration.

WEST, Robert E. (PT), 2400 E. Grant Rd.,
Tucson 85719 326-8619

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

WIEDWILIT, W. Gordon (PT), 2400 E. Grant
Rd., Tucson 85719 326-8619

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.....333-4448

Copper leaching. Autoxidation process developments for ferric sulphate production.

COCHISE COUNTY

FERGUSON, William H. Jr., (PT), P.O. Drawer G,
Fort Huachuca 85613 458-9656

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

METALLURGICAL ENGINEERS

GILA COUNTY

BEAN, James J. (PT), P. O. Box 413
Miami 85539 425-2304

SPECIALTY

Flotation, cyanidation, heavy media.

MARICOPA COUNTY

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

Physical metallurgy, materials selection, failure analysis corrosion.

CONNOLY, Kent B. (PT), 4737 W. Christy Dr.
Glendale 85304 261-5052

Physical metallurgy, fractography, heat treatment.

SENIOR, Franklin C. (PT), 1825 N. 11th Ave.
Phoenix 85007 253-8908

WORTH, W. Leslie (PT), 18218 130th Ave.,
Sun City West 85375 584-2262

Lithium and aluminum and their alloys. Also registered land surveyor #12456.

PIMA COUNTY

BHAPPU, Roshan B. (FT), P. O. Box 17960,
Tucson 85731 792-2800

Low grade metalliferous mineral deposits.

BRUSSOLO, V.A. (PT), 3819 N. Country Club Rd., Tucson 85716 325-1955

Extractive metallurgy.

DIXON, Dale C. Jr. (PT), 5401 E. 10th St.,
Tucson 85711 745-1021

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

FUNKE, Werner (FT), 8612 E. Old Spanish Trail Apt. 154, Tucson 85710..885-8266

HOLDERREED, F.L. (PT), 8718 Olympic Club Circle, Tucson 85710 296-8979

KEATING, DR. Kenneth L., Univ of Ariz, Dept of Metallurgical Engineering,
Tucson 85721 626-2767

Corrosion problems and material failures.

KUHN, Martin C. (FT), P. O. Box 17960,
Tucson 85711 792-2800

Hydro-mett flotation mineral processing

METALLURGICAL ENGINEERS

PIMA COUNTY (Continued)

SPECIALTY

LAGERGREN, C.F. (PT), c/o Applications Corp,
8835 E. Speedway, Tucson 85710..886-5329

MOOS, Stanley M., (FT), 814 W. Chula Vista
Rd., Tucson 85704 742-3478

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

NELSON, Roger R. (FT), 4125 E. 6th St.,
Tucson 85711 327-1288

OSBORN, Clyde E. (PT), 7215 E. Camino Valle
Verde, Tucson 85715 885-3409

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

THOMPSON, David L. (PT), Rt 8, Box 701-C,
Tucson 85710 298-1907

WINKLER, Fred M. (PT), 6001 W. Rocking
Circle, Tucson 85713...Winter. 883-5508
Summer. 339-4679

Mill design.

Properties and behavior of metals
and alloys.

Minerals benefication. Hydro-
metallurgy. Metallics and salines.

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

Not available in Arizona.

Hydrometallurgy, non-bauxite,
alumina, process development.

Copper smelting and representa-
tion. Operating problems, layout,
safety, personnel, management
consultant.

MINING ENGINEERS

COCHISE COUNTY

METZ, Harry E. (PT), 500 Campbell St.,
Bisbee 85603 432-2148

COCONINO COUNTY

KYLE, John I. (PT), 1002 E. Hillcrest,
Flagstaff, 86001 774-8541

Coal production, estimation,
reserve calculation, property
evaluation, complex mine planning.

GILA COUNTY

ATTAWAY, Michael (PT), P. O. Box 880,
Miami 85539 473-4405

CONWELL, Cleland N. (FT/PT), P. O. Box 407
Globe 85501 425-5593

Mining examination and appraisals.
Mill flow sheets. Alaska and cold
climate mining. Mined land
reclamation.

MINING ENGINEERS

GILA COUNTY (Continued)

FLETCHER, James B. (PT), 89 Smith Road,
Globe 85501 425-9283

SPECIALTY

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

GERHARDT, Alvin W. (PT), 816 Agave Dr.
Globe 85501 425-2714

Underground.

HURST, Robert M. (FT), 18 Prickly Pear Dr.,
Globe 85501 425-7537

LIESSMANN, John L. (PT), 121-A Miami Gardens,
Miami 85539 425-7306

Property investigation &
evaluation.

QUAY, J. H. (PT), Box 2910
Globe 85501 425-2894

Design. Land surveyor.

SLOAN, W. F., (PT), Rt 1, Box 614
Miami 85539 425-7287

SORSEN, William W. (FT), 770 Sunset Drive
Globe 85501 425-4096

Copper dump leaching. Mine
development. Expertise in devel-
oping and mining asbestos and
uranium in Gila County.

MARICOPA COUNTY

BENNETT, Anthony N. (PT), Box 1207
Goodyear 85538 932-3946

Ventilation in mines.

COGGIN, H. Mason (FT), 4550 N. 12th St.,
Phoenix 85014 264-6831

Surface and underground feasi-
bility and economics. Land
status determination.

HENDRICKS, Robert S, ExecVP, J.S. Redpath Corp,
(FT), Box 27328, Tempe AZ 85282..968-3192

Design and construction of
underground facilities; shafts,
mine development, mining
methods, mine materials hand-
ling, and raise boring.

JAQUAYS, D. W. (PT), 1219 S. 19th Avenue
Phoenix 85009 254-6494

Asbestos & gold heap leaching

MATT, Jim, (PT), 1009 W. Wagon Wheel Dr.,
Phoenix 85021 944-4310

Dust control; ground support;
weight control.

MINING ENGINEERS

MARICOPA COUNTY (Continued)

MATTHEWS, Gilbert John (Retired) (PT),
13126 N. 20th Lane, Phoenix
85029 942-6175

SPECIALTY

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

MIERITZ, Richard E. (FT), 2940 N. Casa Thomas
Phoenix 85016 277-6053

Mine and geological examinations, feasibility studies, claim surveying.

O'LEARY, Dorman S. (PT), P. O. Box 1041,
Wickenburg 85358 684-2287

SMITH, Harvey W. (FT), 4310 N. Brown Ave.,
Suite 5, Scottsdale 85251 946-3996

U.S. mineral surveyor, metals, nonmetallics.

STRUTZEL, J. J. Jr., (PT) 5110 E. Osborn,
Phoenix 85018 959-1917

Mine economics.

TOGNONI, Hale C. (PT), Suite 1260, Del Webb's
Townhouse, 100 W. Clarendon
Phoenix 85013 263-0771

TWEEDY, George A., (PT), 3921 E. San Miguel,
Paradise Valley 85253. (5-9 PM) 955-7967
(8-4 PM) 241-2030

Cyanide handling; MSHA regulatory approaches; mining.

MOHAVE COUNTY

BURTON, Robert S. (PT), P. O. Box 664,
Riveriera 86442 758-5198

Drilled shafts. Mineral development. Mine examination and evaluation.

PIMA COUNTY

BOGGERO, Antonio, (FT), 3721 N. Cherry,
Tucson 85719 795-8604

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

BRUSSOLO, V. A. (PT), 3819 N. Country Club
Road, Tucson 85716 325-1955

Low grade metalliferous mineral deposits.

CAPE, Jerry J. (FT), 7062 E. Mesa Grande Ct.,
Tucson 85715 298-6847

All facets of development from prospect to production.

CHAPMAN, Robert T. (FT/PT), 265 W. Rosa,
Green Valley 85614 625-5881

Exploration, evaluation, valuation, development planning, operations planning, general management consulting.

MINING ENGINEERS

PIMA COUNTY (Continued)

FRIEDMAN, A. A. (PT), P. O. Box 83
Green Valley 85614 625-3217

HALL, Arthur C. (PT), 4875 N. Campbell Ave.,
Tucson 85718 299-6116

HALPENNY, Leonard C. (FT), 3938 E. Santa
Barbara, Tucson 85711 326-1133

HANNIFAN, Martin K. (PT), 8959 E. Woodland
Rd., Tucson 85715 298-6612

HEINRICHS, Walter, (FT/PT), Box 5964,
Tucson 85703 623-0578

HARSHBARGER, John W. (FT), 1525 E. Kleindale
Rd., Tucson 85719 327-7224

JAMES, Robert C. (PT), 701 N. Crest Drive,
Tucson 85716 795-0569

LOWELL, J. David (FT), 5115 N. Oracle
Tucson 85704 887-5341

MARSHALL, Robert H. (FT), 4370 S. Fremont
Tucson 85714 746-1451

MILNE, Steve, (FT), 4370 S. Fremont Ave.,
Tucson 85714 746-1451

O'NEIL, Thomas J. (PT), 7040 E. Hacienda
Reposo, Tucson 85715 885-2713

PILLAR, C. L. (PT), 5115 N. Oracle Rd.,
Tucson 85704 887-5341

PINCOCK, W. K. (FT), 4370 S. Fremont Ave.,
Tucson 85714 746-1451

RICKARD, Forrest R. (FT), P. O. Box 370,
Ajo 85321 387-7400

SPECIALITY

Evaluations, property acquisitions, ore reserves, open pit and underground planning.

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

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

Exploration Management Services (Geological engineer-geophysicist) Minerals, energy & ground water, special methods & equipment applications.

Groundwater, investigations, well field design, water management.

Porphyry copper exploration and geology.

Underground mining.

Mine valuation, financial analysis, taxes, royalties.

Development of major concepts in mine planning.

Open pit.

Copper open pit mining & smelting.

MINING ENGINEERS

PIMA COUNTY (Continued)

SCHOU, Hans H. (PT), 2137 E. Edison St.,
Tucson 85719 881-1092

SPECIALTY

Underground mining, exploration
and development.

SPLANE, John L. (PT), 618 Transamerica Bldg.
Tucson 85701 624-8025

Landman.

STILL, J. W. (FT), 6310 Camino de Santa
Valera, Tucson 85718 299-9268

Block caving.

ST. PETER, Albert L. (FT), 6820 E. Speedway,
Tucson 85710 886-9761

In-situ fragmentation and
treatment.

WINKLE, Robert F. (FT), 4370 S. Fremont Ave.,
Tucson 85714 746-1451

Full service mine feasibility,
geology, rock mechanics, mine
planning & design.

PINAL COUNTY

BISHOP, Harold W. (PT), Box 595,
Kearny 85237 363-7762

Mine planning. Open pit design.
Equipment selection.

GIROUX, Robert O. (PT), Box 562,
Kearny 85237 363-5388

Mining, minerals, materials
handling.

SANTA CRUZ COUNTY

LENON, Robert (PT), Box 525,
Patagonia 85624 394-2951

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

YAVAPAI COUNTY

HIGHTOWER, Robert P. (PT), Drawer 668
Clarkdale 86324 634-8291

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

SUMMERS, David M. (FT), P. O. Box 656,
Camp Verde 86322 567-4053

Feasibility studies.

TRAVIS, George E. (FT), 125 E. Whipple Place,
Prescott 86301 778-4568

Mining consultant. Feasibility
studies. Evaluation and economics
assistance operation, safety
and transportation analysis.

ZINKL, Andrew J. (PT), 1602 N. Campbell
Prescott 86301.....445-5763

Placer testing and operating.

YUMA COUNTY

CORNEJO, Louis A. (FT), P. O. Box 320,
Parker 85344 669-2619

Mine examinations and mineral
surveys.

AUTHORIZED UNITED STATES BUREAU OF LAND MANAGEMENT
MINERAL SURVEYORS

GILA COUNTY

Gant, Travis L., P. O. Box 943,
Globe 85301..... 425-6131

Smith, O. T., P. O. Box 2735,
Globe 85501..... 425-5634

MARICOPA COUNTY

Adams, Robert E., 7534 N. 46th Circle,
Glendale 85301..... 934-9150

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

Smith, Harvey W., 4310 N. Brown, Suite 5
Scottsdale 85251..... 946-3996

MOHAVE COUNTY

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

Williams, Jerry C., 4185 N. Roosevelt St.,
Kingman 86401..... 757-3954

PIMA COUNTY

Luckow, Thomas F., 7001 E. Redbud Rd.,
Tucson 85715..... 298-3508

McLain, Gordon W., 1520 W. San Lucas Dr.,
Tucson 85704..... 622-7272

Stitzer, John H., 1650 E. 18th St., Suite C,
Tucson 85719..... 882-9392

SANTA CRUZ COUNTY

Lenon, Robert, P. O. Box 525,
Patagonia 85624..... 394-2951

YUMA COUNTY

Cornejo, Louis A., 1221 Eagle Ave.,
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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.
- Analyze 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.

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THIRD CLASS