Supporting Arizona’s mining industry...

ASSOCIATED EQUIPMENT DISTRIBUTORS OF ARIZONA

Action Rentals
7315 N. 67th Ave.
Glendale, AZ 85301

All Quip of Arizona
3756 Grand Ave.
Phoenix, AZ 85009

Arizona Industrial Machinery
2649 N. 29th Ave.
Phoenix, AZ 85009

AZ Mile E Lift
3831 E. Broadway
Phoenix, AZ 85040

Border Machinery Company
2900 N. Arizona Ave.
Chandler, AZ 85224

Cactus Equipment Corp.
3615 So. 28th St.
Phoenix, AZ 85040

Case Power Equipment
1411 N. 27th Ave.
Phoenix, AZ 85009

Century Machinery Company
3600 So. 7th Ave.
Phoenix, AZ 85041

C I T Corp.
1620 W. Fountainehead Pkwy.
Tempe, AZ 85282

Copper State Equipment, Inc.
2224 Grand Ave.
Phoenix, AZ 85009

Cummins Southwest Diesel, Inc.
2239 N. Black Canyon
Phoenix, AZ 85005

D-W Equipment
4028 S. 36th St.
Phoenix, AZ 85040

Earhart Ford Tractor, Inc.
4224 W. Clarendon
Phoenix, AZ 85019

Empire Machinery Co.
1725 So. Country Club Drive
Mesa, AZ 85202

First Interstate Credit Alliance
4415 E. Kathleen
Phoenix, AZ 85032-4248

Ingersoll-Rand Equipment Sales
820 N. 17th Ave.
Phoenix, AZ 85007

Jacways Equipment Company
1219 So. 19th Ave.
Phoenix, AZ 85009

Mardian Equipment Company
2430 So. 35th Ave.
Phoenix, AZ 85009

Neils Detroit Diesel
2602 So. 19th Ave.
Phoenix, AZ 85009

Reuter Equipment Company
3816 W. Lower Buckeye Rd.
Phoenix, AZ 85009

Road Machinery Company
740 So. 7th St.
Phoenix, AZ 85049

Roadrunner Machinery
6575 N. 79th Ave.
Peoria, AZ 85345

Southwest Rental Corp.
1025 So. 48th St.
Tempe, AZ 85281

Sunstate Equipment
5425 E. Washington
Phoenix, AZ 85034

Tolby Equipment Company
7909 W. Glendale Ave.
Glendale, AZ 85303

Valley Equipment & Supply
19 E. Broadway
Mesa, AZ 85210

Western Machinery Company
6024 W. Southern Ave.
Laveen, AZ 85339

Williams Southwest
2333 W. University
Tempe, AZ 85281

AN ASSOCIATION OF ARIZONA’S LEADING CONSTRUCTION EQUIPMENT DISTRIBUTORS

3101 N. Central Ave., #490 • Phoenix, Arizona • 230-0590

DIRECTORY OF ACTIVE MINES IN ARIZONA
INTEGRATING SAND & GRAVEL OPERATIONS
1988

DEPARTMENT OF MINES & MINERAL RESOURCES
AMIGOS means friends. Friends of mining and industry interests, working together for a healthy business climate in our state and nation. An influential Political Action Committee supporting pro-business candidates and issues. Fresh, insightful newsletters and publications. Business and social meetings with mining and industry leaders. Employee programs with big benefits for the small company.

This is AMIGOS, suppliers to the mines and industry. Join up today! Let our good friends show you how AMIGOS supports your company, and mine.

The best friends your company (or mine) will have in 1989

**REGULAR MEMBERS**

- Arizona's Mining and Industry
- Get Our Support
- AMIGOS
- This is AMIGOS, suppliers to the mines and industry. Join up today! Let our good friends show you how AMIGOS supports your company, and mine.

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Sand and gravel operations

This directory was compiled in November, 1988 from field visits and information received by the Department engineers. For the purpose of this directory, an active mine is arbitrarily defined as a mine that is in continuous operation, either in production or under full-time development for production. There are thousands of mines and production sites on an intermittent basis which are not listed. The Department publishes a companion publication entitled Arizona Mineral Development. Its purpose is to briefly highlight specific properties receiving exploration in or during development of activity. Also included are mines which have recently had production but which are not included in this directory of active mines. It is not the intent of the Department to note or ignore an operation. Not being a regulatory or taxing authority, our data is obtained by the Department field engineers and/or by voluntary submission of information for our records.

The directory is arranged alphabetically by company name. Each listing includes corporate addresses, mine name and location, operation description, and key personnel and titles. At the end of the directory is an alphabetical listing that provides county and cross reference to the operating company.

Arizona Active Mines Index

Board of Governors

This directory of Active Mines for 1988 is published for the Arizona Department of Mines and Mineral Resources by:

SOUTHWEST CONTRACTOR

This Directory of Active Mines in Arizona is published for the Arizona Department of Mines and Mineral Resources by: SOUTHWEST CONTRACTOR

310 N. Central Ave., 440
Phoenix, Arizona 85012

Additional copies are available from the Department of Mines and Mineral Resources' Phoenix or Tucson office for $2.00 plus $1.50 postage and handling if mailed. An Active Mine Map which shows the locations of each active mine (but not sand and gravel operations) is available from the Department for $2.00 plus $1.50 postage and handling. These may both be ordered together for a total of $5.00.

Hermit
Houck Silica Sand
Kanab North
Kaventa Mine
Lyleton
Magma Energy Fuels Nuclear Inc.
Magnetic Hill
Maricopa Energy Fuels Nuclear Inc.
Navajo Building Products Company
Nevada Building Products Company
Pinal Building Products Company
San Juan Division
Santa Rita Quarry
Ray Unit
Safford Unit
Santa Rita Kino
Santa Rita B."
A. F. BUDGE (MINING) LTD.

UVX
T16N R2E Sec. 23
P.O. Box 938, Jerome 83331 - Phone 634-9034 - Employees 13 - Located at Jerome - Underground gold and silver mine under development.

General Manager: Ronald R. Short
Mine Superintendent: Pete Flores
Mine Geologist: John McKenny

Vulture
T6N R6W Sec. 36
P.O. Box 20878; Wickenburg 85398 - Phone 376-9894 - Employees 6 - Located 12 miles south of Wickenburg - Processing of gold tailings by agglomeration, cyanide heap leaching - Merrill Crowe recovery - 1000 TPD recovery.

Production Manager: Dale H. Allen

ALANCO LTD.

Office
7345 E. Acoma Drive, Scottsdale 85260 - Phone 991-8540.

Chairman of the Board: Richard Jones
President: Kevin Jones
Vice President: Larry Kersey

ARIZO CUSTOM MILL
T16N R22E Sec. 21
Located 4 miles east of Tombstone on Charlestone Road - Custom milling facility temporarily on stand by.

COD
T21N R17W Sec. 33
Located 15 miles northwest of Kingman - Employees 5 - Underground base/precious metal mine - Under development.

Manager: Chuck Porter

AMERICAN GIRL MINING CORP.

American Girl
California
2450 South 4th Avenue, Yuma 85364 - Phone 344-8924 - Employees 50 - Located 25 miles northwest of Yuma in California - Open pit gold mine - Developing underground gold mine - Cyanide heap leach recovery.

General Manager: Joe Sawyer

ANDRADE MARBLE COMPANY INC.

Andradra Marble Quarry
T17N R16E Sec. 21
4901 E. Drexel Road, Tucson 85706 - Phone 574-1414 - Employees 9 - Mine site located 17 miles southeast of Tucson - Open pit marble mine - Used for calcium feed additives, plasticizing material, decorative stone, roofing material - 3,000 TPM.

President and General Manager: David Hartley
Vice President: Barbara Hartley

APHACONE DIVISION HALQUIST STONE CO. INC.

Mayer Onyx Quarry
T12N R1E Sec. 22
Mayer Schist Quarries
T12N R1E Sec. 26
22040 N. 21st Ave., Phoenix 85027 - Phone 267-8588 - Employees 3 - Quarries located near - Mayer - Onyx marble quarry - Schist quarries - Building and dimension stone - Marketed throughout the United States.

President: Perry Halquist
Manager: Harvey Bosch
Clerk: JoAnne Bosch

Arizona Flux Mines Inc.
T20N R6W Sec. 22
3801 E. Drexel Road, Tucson 85706 - Phone 574-1414 - Employees 10 - Underground mine producing precious metal bearing iron for smelters at about 200 TPD.

General Manager: Les Billingsley

Arizona Placer
Devils Wash
T15S R2E Sec. 2
HCR Box 840, Sells 85634 - Phone 361-2191 - Employees 2 - Located approximately 1 1/2 miles southwest of Quijota - Gold placer operation, wet gravity concentration - Capacity 500 yards/week.

Operator: Don Kilgore

Arizona Portland Cement Division
Calmat Inc.
State Sales Office
2400 N. Central, Suite 308, Phoenix 85004 - Phone 271-0069.

Senior Vice President: Vaughn S. Corley

Rillito Plant & Quarry
T13S R1E Sec. 26
P.O. Box 338, Rillito 85634 - Phone 622-7503 - Employees 178 - Limestone quarry 5 miles from plant - Cement - Annual capacity 1,100,000 tons cement - Longest conveyor transport system in state.

Plant Manager: Tom Brosnan
Plant Superintendent: Michael Robertson
Plant Chemist: J. Boyett
Plant Engineer: John Frye
Chief Electrician: Jack Meeter
Personnel Manager: Fran Young
Quarry Supervisor: Chuck Hansen
Purchasing Agent: Tom Follert

Arizona Silica Sand Company
Howuck Silica Sand
T22N R29E Sec. 29
P.O. Box 108, Howuck 85065 - Phone 688-2602 - Employees 15 - Open pit mine - Plant south of Howuck - Hydraulc sand for wet market - Markets include New Mexico and California.

Mayer Employee Services
T12N R1E Sec. 23
Mayer Superintendents
T20N R1E Sec. 22
4901 E. Drexel Road, Tucson 85706 - Phone 574-1414 - Employees 10 - Located in the town of Mayer - Green gold mine - Developing.

Chief Electrician: Jack Meeter
Purchasing Agent: Tom Follert

President: Terry Mitchell

Triple Nichol Inc.
R. R. 1, Box N 123, Globe - Phone 425-7006 - Employees 75.

President: Monty Nichols

Copper Hill Mine
T15N R1E Sec. 15
Silica flux for copper smelters - Northwest of Globe.

Reynert Mine
T25N R2E Sec. 22
Silver bearing silica flux for copper smelters - West of Superior.

UOP
P.O. Box 1029, Grand Junction, Colorado 81502 - Phone (303) 245-3700.

Senior Mining Engineer: Jim Kirchner

Bowie Chabazite Operations
T11S R2E & T11S R2E
Open pit mines operated by independent contract mining company - Chabazite used for specialty adsorbents - Shipped out of state for further processing.

United Disscants Gates
United Catalysts Inc.
Corporate Headquarters - P.O. Box 32730, Louisville, KY 40232 - Phone (502) 634-7200 - Processing plant c/o United Disscants, P.O. Box 105, Belden, WY 82002 - Phone (505) 864-6691.

Cheto No. 1
T21N R29E Sec. 23
Located approximately six miles southeast of Sanders in NE AZ - Surface strip bentonite mine - Seasonal operation - Used in catalysts and in production of desiccants.

President (Louisville): Bill Monin

Operations Manager (Belen): Robert Deuble

Western Arizona Rock Products Inc.
Aztec Quarry
T15N R12W Sec. 28
P.O. Box 27019, Albuquerque, New Mexico 87125 - Phone (505) 888-3815 - Local address, P.O. Box 178, Dateland, Arizona 85333 - Phone 454-2252 - Employees 10 - Granite quarry for railroad ballast - Crushing and screening plant - Located between Aztec and Dateland south of I-8 and the Southern Pacific Railroad - Material used in Arizona and California.

Plant Manager: Ralph Weaver

Western States Stone Company
2830 Grand Ave., Phoenix 85017 - Phone 253-2018.

President: C. E. Webster

Ashfork Plant
T21N R2W Sec. 3
New Cornelia Branch
T12S R6W Sec. 23 & 27
Ajo 85321 - Phone 387-7451 - Employees 24 - Open pit copper mine - 30,000 TPD concentrator with molybdenum circuit - 190,000 TPD smelter with acid plant - All inactive.

Plant Superintendent ................. J.L. Armstrong

PHOENIX CEMENT COMPANY

White Cross Mine
P.O. Box 428, Clarkdale 86324 - Phone 634-2261 - Employees 107 - Quarry and plant two miles northwest of Clarkdale - 630,000 TPD - Cement used for building industry - Marketed in Arizona, New Mexico and Utah.

Asst. Plant Manager/Maintenance Joe D'Avignon Asst. Plant Manager/Engineering.... Tom Gibbons
Quarry/Crushing/Garage/Shipping Mgr. Cliff Ayres
Controller ............... R. Richardman
Manager/Operations.................. Richard Gardner
Purchasing/Stores............. Frank Contras

PINAL GYPSUM CORP.

White Cross Mine
T7S R17E Sec. 33
P.O. Box 99, Coolidge 85228 - Phone 723-3131 - Employees 12 - Quarry four miles north of Mammoth - Used for agricultural gypsum.

President .................. John N. Stoss
VP & Chief Financial Officer .... James E. Carmichael

Clarkdale Quarry & Plant
T16N R2E Sec. 11
P.O. Box 428, Clarkdale 86324 - Phone 634-2261 - Employees 107 - Quarry and plant two miles northeast of Clarkdale - 630,000 TPD - Cement used for building industry - Marketed in Arizona, New Mexico and Utah.

Asst. Plant Manager/Maintenance Joe D'Avignon Asst. Plant Manager/Engineering.... Tom Gibbons
Quarry/Crushing/Garage/Shipping Mgr. Cliff Ayres
Controller ............... R. Richardman
Manager/Operations.................. Richard Gardner
Purchasing/Stores............. Frank Contras

QUEENSTAKE RESOURCES USA INC.

Gold Prince Mine
T4S R27E Sec. 22
P.O. Box 217, 241 S. Haskell Suite 102, Willcox 85644 - Phone 384-4337 - Employees 21 - Located 17 miles southeast of Wilcox - Underground gold mine under development.

President .................. Orin Benton
Vice President .......... James Lewis
Vice President/Operations .... James Bechtel

RODYD RESOURCES ARIZONA INC.

U.S. Mine (Aka Big Horn)
T4N R3W Sec. 1
P.O. Box 2406, Wickenburg 85358 - Phone 684-2865 - Employees 25 - Located 25 miles southwest of Wickenburg - Open pit gold mine - Cyanide heap leach carbon adsorption operation-30,000 tons per month.

General Manager .................. Gordon C. Gurrah
Mine Superintendent ......... Alfred Voirin

STAN WEST MINING CORPORATION

McCabe
T13N R1E Sec. 30
P.O. Box 460, Humboldt 86329 - Phone 632-5165 - Employees 190 - Located 20 miles east of Prescott - Underground precious metal mine - Carbon in pulp cyanide mill - Capacity 500 TPD.

Chairman of Board ............ Frank Cerrie
President ................... Stan Holmes
Mine Manager .................. D. Derrick May
Manager/Operations............. Howard Last
Mill Superintendent.......... Russell Hoar
Mine Geologist ............... Richard Pape

STUTENROTH MILLING

Copper Mountain
T7S R7E Sec. 8
Rt. 4, Box 71D, Casa Grande 85222 - Phone 363-5658 - Employees 2 - Custom gravity mill - 50 TPD all types of ore - Located eight miles southeast of Casa Grande.

SUPERIOR COMPANIES

T1000 N. 7th Street #5, Phoenix 85006 - Phone 235-2116 - Employees 70.

President .................. Archer V. Shelton
Vice President, Operations .... Lester Hall
Vice President, Administration .. Mary Kessler
Controller .................. Don Fisher

Camp Verde Gypsum
T13N R5E Sec. 11
P.O. Box 298, Cottonwood 86326 - Phone 567-3084 (direct Phoenix line 235-5590) - Gypsum quarry four miles southeast of Camp Verde - Supplies gypsum to Phoenix Cement Plant.

General Manager - Verde Valley Operations ............... H. Boyd Snoddy
Maintenance Supervisor ............ Alvin Harewood
Production Manager .......... Danny Parker

St. Johns Limestone
T21N R9E Sec. 9
P.O. Box 277, St. Johns 85936 - Phone 367-8573 - Limestone quarry 5 miles southeast of St. Johns - Provides limestone for coal plant gas scrubbing.

Superintendent .......... Ed Bishop

Winkelman Gypsum
T6S R16E Sec. 27
P.O. Box 327, Winkelman 85929 - Phone 357-7002 - Gypsum Quarry-Gypsum for Arizona Portland Cement Plant at Rillito.

Superintendent .............. John Nevitt

SUPERLITE BUILDERS SUPPLY

P.O. Box 23163, 4150 W. Turney, Phoenix 85063 - Phone 269-5351.

President .................. Fred Bengston

DARLING COINER PIT

T21N R9E Sec. 2
P.O. Box 40159, Flagstaff 86004 - Phone 526-5499.

Manager ...................... Carl Earl
Operations Manager ............. Robert D. Fischer
General Manager .................. Elmer G. Gilstrap
Foreman ...................... Ralph Nelson
Superintendent ............... Jim Burton

AZARIA TUFFLITE INC.

Crown Claims
T23N R7E

White Vulcan
T23N R7E

2432 W. Peoria, Suite 1081, Phoenix 85029 - Phone 931-3682 - Glendale yard located at 6365 W. Orangewood.

Glendale - Employees 18 - Mines located 12 miles north of Flagstaff - Pozzolanic lime- Silica 1000 TPD - Used in making lightweight redimix and block - Large size material used in the preparation of "stone washed blues jeans" and in horticultural preparations - Marketed in and out of Arizona.

President .................. C.T. Morgan
Vice President/ Mine Manager (Flagstaff). Ed Morgan
Secretary/Treasurer ........... Clay Morgan

ASARCO INCORPORATED

Tucson Office

1150 N. 7th Avenue, P.O. Box 5747, Tucson 85703 - Phone 792-3101.

Southwestern Mining Department
General Manager ............... T.E. Searcancini
Operations Manager............. D.F. Simpson
Accounting Manager .......... G.H. Myers
Chief Environmental Engineer .... V. C. Martz

Mining Department/Corporate Office
Assistant to Vice President .. A.D. Coumides
Chief Geologist .................. S.A. Anzalone

Mineral Beneficiation Department
Director ..................... D.E. Crowell
Chief Metallurgical... T. Henderson

Exploration Department
Manager, Western U.S. A. L. Kurtz Manager, Southwestern US Division .... J.D. Sell

National Sales Manager .......... G.P. Gillen

Hayden Unit
T15S R1E Sec. 14

P.O. Box 98, Hayden 85235 - Phone 356-7804 - Employees 450 - Copper smelter capacity 940,000 TPD - Acid plant capacity 2,800 TPD.

Manager ..................... Darrell Himmesoete
Operations Manager ........... Thomas L. Alrich
Operations Support Manager .... D.J. Parker
Technical Services Manager . R. D. K. 모로드
Financial Manager .......... Jim O'Neal
Maintenance Manager ........... Hugh Alexander
Industrial Relations Manager .. Vacation at time
Plant Engineer ................. R.L. Christiansen
Safety Engineer ............... Rex Jennicks
Purchasing Agent ............. K.C. Newnam

Mission Unit
Open Pit Copper Mine
T16S R13E Sec. 31
Concentrator
T16S R12E Sec. 36

Box 111, Sahuarita 85629 - West Pima Mine Road - Phone 791-2920 - Employees 433 - Open pit copper mine - Concentrator 42,000 TPD.

Manager ..................... B.K. Malone
Superintendent - Service .... J.B. Lichtenhan
Mine Superintendent ...... S.L. Lakosky
Chief Engineer ................. M.A. Melcher
Geologist ...................... R.C. Catherman
Chief Chemist .......... C.D. Lobley
Chief Metallurgist ......... C.A. Carroll
Mechanical Superintendent . H.E. Hughes
Mill Superintendent ....... H.W. Walker
Purchasing Agent ............ W.B. Manakee
Chief Accountant .......... D.J. Hoffman
Personnel Administrator ... J.F. Coxon
Safety Administrator ...... P.J. Maley

Ray Unit
Open Pit Copper Mine
T3S R13E Sec. 10, 11, 14 & 15
Concentrator, Smelter, Acid Plant
T3S R15E Sec. 11
P.O. Box 9, Hayden 85235 - Phone 356-7811 - Employees 757 - Open pit copper mine - Dump leach-precipitation plant - Heat leach solvent extraction - Electrowinning plant - Concentrator rated at 41,000 TPD - 600,000 TPD smelter (On Standby) - 900 TPD acid plant (On Standby).

General Manager ................ R. W. Banghart
Operations Manager .......... Roger L. Gagliano
Dir. of Safety & Environmental Contr.Bryan Brumbaugh Industrial Relations Director ...... Rulon Elicer Personnel Administrator ... Joyce L. Morris Purchasing Agent .................. Bob Henry

Silver Bell Unit
T12S R8E Sec. 11
Marana 85653 - Phone 622-6751 - Employees 20 - Open pit copper mine - 11,000 TPD concentrator (On Standby) - Dump leach & precipitation plant operating.

Mill Superintendent ............ D.J. Duncan
Maintenance Superintendent .. D.J. Shelton
Chief Accountant ............ A.J. Robles

BLASTER CORPORATION

Stone Yard
T16N R2W Sec. 22

Black Cat Quarries (Sandstone)
T21N R1W Sec. 17

Grindstone 1 & 2 (Sandstone)
T20N R1E Sec. 34

Yellow Rose Quarries (Sandstone)
T22N R2W Sec. 14

2600 North Highway 89, Chino Valley 86323 - Phone 233-1181 (Phoenix) - Employees 40 - Processes, saws and cuts Arizona Flagstone-Sandstone - Marketed worldwide and exported to foreign countries.
President ........................................ Donald Blaser
Vice President ................................ W. Larry Blaser
Secretary/Treasurer - Mgr., Operations - Dayle Blaser

BUILDING PRODUCTS COMPANY

Phoenix Plant
4850 W. Buckeye Road, Phoenix 85043 - Phone 272-5576
- Employees 1 (mining) - Plant consumes clay to produce extruded sewer pipe and roofing tile.

Plant Manager ................................... Vern Hamner
Mine Manager .................................... Don Morris

Rim Quarry T11N R 19E Sec. 30
Clay mine located 10 miles southwest of Clay Springs.

New River Slate Quarry T7N R 3E Sec. 5 & 6
Slate quarry located approximately 6 miles northeast of New River.

Dewey Ranch #2 T14N R 1E Sec. 15
Clay mine located approximately 6 miles north of Dewey.

CALCIUM PRODUCTS OF ARIZONA

Santa Rita Quarry T18S R15E Sec. 11
P.O. Box 70, Sahuarita 85629 - Phone 576-1424 - (Radio
Extension - Dial (1112) or 1-800-345-5635 - Employees 5
- Located 15 miles southeast of Sahuarita - White marble
and limestone for landscape use - Grinding plant under
development.

General Partner .................................. Bob Knox
Manager ......................................... Bill Devitt

CATALINA MARBLE COMPANY

White Rock Mine T10S R13E Secs. 31 & 32
P.O. Box 8997, Catalina 85725 - Phone 825-9398 - White
marble quarried and processed for use as veneer and
decorative stone, plaster sand and animal feed additive.

Owner/Operator ................................. Darel Goode

CHEMGOLD INC.

Picacho Mine California
1891 Rail Avenue, P.O. Box 2015, Yuma 85366 - Phone
783-1891 - Employees 30 - Open pit gold mine located 24
miles north of Yuma in California - Open pit mine -
Heap leaching - Carbon adsorption - Desorption -
Electrowinning - Annual production 20,000 oz. gold.

President ....................................... Chester F. Millar
Sr. Vice President ............................... Tom Wood
Chief Financial Officer ....................... Robert Wilhelm
Mine Manager ................................. Mike Fitzgerald
Miner Engineer ................................. Kevin Sur
Metallurgist ................................. Jesus Arizton

CHEMSTAR INC.

2800 N. 44th St., Suite 400, Phoenix 85008 - Phone 955-7211

President ................................. John Crawley
Vice President, Sales ....................... Charles Cook
Vice President, Manufacturing ............ Dave Johnson
Vice President, Engineering ............... Bill McCandlish
Purchasing Manager ....................... Mike Pinnau

Morenci Branch T4S R29E
Secs. 3, 4, 5, 8, 9, 10, 15, 16, 17, 21, 22 & 23
Morenci 85540 - Phone 865-4521 - Employees 1560
- Open pit copper mine - Two concentrators (one with
molybdenum circuit) - Total capacity 100,000 TPD -
650,000 TPD smelter with 2,400 TPD acid plant
(inactive) - Dump leaching - Precipitation plant - Solvent
extraction-electrowinning plant.

Manager .................................. J.L. Madson
Assistant Manager ....................... J.G. Clevenger
Superintendent of Mines ................ Michael Allen
Superintendent of Concentrators ........ Randy Schneider
Superintendent SX-EW ..................... T.R. Snider
Mechanical and Electrical Supt. ....... J.B. McBiles

Traffic Manager ............................... J. Sheridan
Manager, Western Exploration Office .... D.R. Ranta
(P.O. Box 50427, Tucson, AZ 85703-1427)

Supply yard for San Manuel's underground operation.

Exploration and Development Group
2600 N. Central Ave., Phoenix 85004-3015 - Phone 234-8100

Sr. Vice President ......................... P.J. Ryan

United Verde Mine T16N R2E Sec. 22
Located at Jerome - Phone 634-2622

Agent ........................................ Andrew Peterson

Copper Queen Branch T23S R24E Sec. 9
Highway 92, Bisbee 86503 - Phone 432-3621 - Employees
34 - Mine dump leaching - Copper precipitation plant.

General Superintendent ............... J.H. Ladd

Dewey Ranch #2 T14N R 1E Sec. 15
Clay mine located 6 miles north of Dewey.

Flag Mine, Mohave County.
MORTON SALT DIVISION
Morton Thiokol Inc.

Southwest Salt Mine
T2N R1W Sec. 2
13000 W. Glendale Ave., Glendale 85307-2408 - Phone 247-3006 - Employees 27 - Solution mining via wells - Solar evaporation of brines - Produces salt for water softeners, domestic, agricultural and industrial use - Underground solution cavities are used for propane and butane storage.

Facility Manager ....................... Dan Border

NATIONAL GYPSUM COMPANY

Gold Bond Products Division
M.P. Box 20863, Phoenix 85036 - Phone 258-9321
Employees 100 - Wallboard plant.

Plant Manager ......................... Jim Phillips
Office Manager ........................ Mary James
Joint Cement Plant Manager .......... Nick Thubos

Feldman Quarry
T6S R16E Sec. 27
Star Route, R9400, Winkelman 85292 - Phone 257-7180 - Employees 8 - Open pit gypsum mine located 2 miles south of Winkelman - Gypsum used in plaster board.

Quarry Superintendent ................ Jeff McChesney

NORD PERLITE COMPANY

Chicago Pit
T2S R12E Sec. 16
Box 127, Superior 85273 - Phone 698-5631 - Employees 5 - Plant at Superior on Silver King Mine Road north of railroad track - Open pit perlite mine located two miles southwest of Superior - Major markets are in Louisiana, Illinois, Wyoming, Pennslyvania, Texas and Indiana - Filter aid used in filtering pharmaceuticals, chemicals, sugar, and beverages.

Plant Manager ........................ Louis R. Lucero

PEABODY COAL COMPANY

Flagstaff Office
1300 S. Yale, Flagstaff 86001 - Phone 774-5253

President ............................ Dennis L. Stevenson
General Supervisor, Operations ........... S.I. Perla
Director of Human Resources ............ L.W. Bennett
Director of Engineering .................. Frank Farnsworth
Division Materials Manager ............. Merle Hendricks
Contractors Manager .................... Rich Armstrong
Manager, Quality Control ............... Charles J. Stettenagel
Manager, Reclamation .................. Wayne H. Hildegick

Black Mesa Mine
T3S R18E Sec. 5
P.O. Box 605, Kayenta 86033 - Phone 677-5240 - Employees 362 - Surface coal mine - Located approximately 30 miles southwest of Kayenta.

Mine Superintendent .................. Lewis Allan Gough
Assistant Superintendent ................ Lee Quarcetino
Safety Supervisor ...................... Jack R. Gibbs

rated at 100 tons of lime per day.

Plant Manager .......................... Mike S. Eiasen
Production & Maint. Superintendent/Richard Anderson
Quarry Superintendent ................ R. Dean Vaughn

CLINTON-CAMPBELL CONTRACTING INC.
Phoenix Brick Yard
1814 S. 7th Ave., Phoenix 85007 - Phone 258-7158 - Employees 100.

President .............................. Frederic Campbell
Plant Superintendent .................. Don Campbell

Tolleson Mine
T1N R3E Sec. 18
Clay pit located on 84th Avenue north of Van Buren - Used in manufacture of clay products.

Pantano Clay Pits
T16S R17E Sec. 21, 26, 27, 28 & 35
Clay pits located 25 miles southeast of Tucson (North of Interstate 10, 2 miles northwest of the Pantano Interchange) - Clay used in the manufacture of structural clay products.

CYPRUS COPPER COMPANY
9100 E. Mineral Circle, P.O. Box 3299, Englewood, CO 80112 - Phone (303) 643-5000.

Executive Vice President ................ F. Steve Mooney
Vice President & Controller ............. Daniel Zang

Bagdad
T14N R9W Sec. 4
P.O. Box 245, Bagdad 86321 - Phone 633-2241 - Employees 600 - Open pit copper-molybdenum mine - 54,000 TPD concentrator - Dump leach solvent extraction-electrowinning plant.

Vice President & General Manager ....... Harry W. Conner
Manager, Administration ............... R.J. Cunningham
Manager, Mining ...................... T.H. McNamara
Manager, Plant Operations .......... D.K. Montgomery
Manager, Community Services ........ D.L. Mead
Manager, Human Resources .......... J.S. Bush

Mineral Park
T23N R17W Sec. 19
P.O. Box 6249, Kingman 86401 - Phone 635-2226 - Employees 150 - Open pit copper-molybdenum mine - 15,000 TPD concentrator on standby - Dump leach precipitation plant operating - Located 16 miles north of Kingman.

Superintendent ........................ K.M. Kenney

Sierrita
T18S R12E Secs. 7, 8, 9, 16 & 17
P.O. Box 527, Green Valley 85622 - Phone 791-2990 and 625-4800 - Employees 89 - Sierrita open pit copper-molybdenum mine - 1,000 TPD concentrator - The inactive Esperanza open pit - 17,500 TPD concentrator - Ferro-molybdenum plant - Rhenium plant - Dump leach cementation plant - Solvent extraction-electrowinning plant - Located 32 miles south of Tucson.

Vice President & General Manager ..... C.G. Janes
Manager, Administration .............. Don Murray Jr.

Manager, Mining ........................ W.A. Gibson
Manager, Copper Operations .......... R.R. Bolles
Manager, Molybdenum Operations .... Michael Fraser
Manager, Human Resources ............ A.J. Murray

CYPRUS COPPERSTONE GOLD CORPORATION

Copperstone
TEN R20W Sec. 12
P.O. Box 41, Parker 85344 - Phone (619) 665-9261 - Employees 115 (Includes 60 Morrison-Knudsen contract miners) - Located 12 miles north of Quartzsite - Open pit gold mine - Cyanide agitation leach - Rated capacity 2,850 TPD - Underground mine under development.

Manager, Resident ........................ G.R. Stephan
Superintendent .......................... K.G. Markkola
Administrative Supervisor .............. M.A. Browning
Mine Superintendent ..................... M.L. Schroder
Chief Assayer ........................... W.D. Hamby
Geologist ............................... G. Kelsey
Senior Mine Engineer .................... D.F. Douglas
Underground Engineer .................. J. Jones
Mining Engineer ........................ G. Burns
Metallurgist ............................ J.A. Cole
Mill Maintenance Supervisor .......... E.P. Sours

CYPRUS METALS DEVELOPMENT
1853 La Canada, Green Valley 85622 - Phone 628-4000.

Executive Vice President ............... C.W. Reno
Manager, Human Resources ............. Jim Sanderson

Buttes Project
T18S R13E Sec. 5
Employees 200 - Open pit copper mine, oxide leach and solvent extraction-electrowinning - Sulfide ore trucked to Sierra mill.

Project Manager ....................... Steven Stine
Mine Manager ........................... John Senn
Oxide Plant Manager .................... Bill Sweston

CYPRUS SMELTING & REFINING
9100 E. Mineral Circle, P.O. Box 3299, Englewood, CO 80112 - Phone (303) 643-5000.

Casa Grande
T15S R4E Sec. 25
P.O. Box C-9, Casa Grande 85222 - Phone 836-2141.

Employees 89 - In situ leach copper mine - Solvent extraction-electrowinning plant - Located 32 miles south of Casa Grande.

Manager ............................... Ravi Medhi
Plant Superintendent .................... John Klime
Mine Superintendent .................... Kermit Behnke
Chief Metallurgist ....................... Troy Pool
Administrative Supervisor ............... Joe Smith

Miami
T14N R14E Sec. 25
P.O. Box 1559, Claypool 85532 - Phone 473-7150.

Employees 900 - Three open pit copper mines and 24,000 TPD concentrator which is inactive - Ferricure dump leach - Solvent extraction-electrowinning plant - 120,000 TPD smelter - Acid plant - Electrolyte refinery - 100,000 TPD continuous rod plant.
DUNBAR STONE COMPANY

Dunbar Stone Plant
T21N R2W Sec. 3
P.O. Box 246, Ash Fork 86320 - 901 Lewis - Phone 673-2592 - Employees 31 - Quarries in Coconino, Maricopa, Mohave, and Yavapai Counties - Flagstone, marble and schist - Stone processing in Ashfork - Marketed in and out of state.

President .................................................. G.E. Dunbar
Vice President ............................................. W.B. Dunbar

Maintenance Superintendent ......................... Ron Dunbar

ECHO BAY MINES INC.

Congress Mine
T10N R6W Sec. 23
P.O. Box 361, Congress 85332 - Phone 427-3633

Employees 40 - Located 16 miles northwest of Wickenburg - Underground gold mine - Shipping gold bearing silica flux to copper smelters.

General Manager ................................. Robert Stoughton
Mine Superintendent ........................... Bob Purell
Chief Engineer ................................. Matt Christian
Chief Geologist .............................. Ralph Rupp
Chief Maintenance ............... Doug Perkins
Safety Chief ............................................ Paul Johnson

ENERGY FUELS NUCLEAR INC.

P.O. Box 36, Fredonia 86022 - Phone 643-2216

Manager Mining Operations ....................... Roger Smith

Pigeon
T38N R2W Sec. 5

Employees 20 - Located 20 miles south of Fredonia - Underground uranium mine - Direct shipping ore - Mill in Blanding, Utah.

Mine Superintendent .......................... Dave Lipkowitz

Kanab North
T38N R3W Sec. 17

Employees 35 - Located 25 miles southwest of Fredonia - Underground uranium mine - Direct shipping ore - Mill in Blanding, Utah.

Mine Superintendent ......................... Dan Thebeau

Hermit
T38N R4W Sec. 17

Employees 32 - Located 30 miles southwest of Fredonia - Underground uranium mine - Under full time development - Production anticipated 1990.

Mine Superintendent ......................... John Stubblefield

Pine Nut
T36N R4W Sec. 21

Located 45 miles SW of Fredonia - Underground uranium mine - Developed - On Stand by

Canyon
T29N R3E Sec. 20

Located 45 miles north of Williams - Underground uranium mine - Under development.

ENGELHARD CORPORATION

Chemical Division

Cheto No. 2
T21N R29E Sec. 23

Box 155, Sanders 85152 - Phone 688-2785 - Employees 6 - Located 6 miles southeast of Sanders - Surface strip bentonite mine - Main use is in filters and catalysts, also used in agriculture - Shipped overseas and to Mississippi.

General Superintendent .................... Gary McDonald

FLAGSTAFF CINDER SALES, INC.

Wildcat Hill Pit
T21N R8E Sec. 9

P.O. Box 2415, E. Old Highway 66, Flagstaff 86003 - Phone 526-0801 - Employees 7 - Located 5 miles northeast of Flagstaff - Cinder quarry - Aggregate, landscaping.

President ................................. Bob Olivier

GSA RESOURCES INC.

P.O. Box 309, Cortaro 85652 - Phone 797-8300

Employees (including contractors) 16.

President ................................. Ted H. Boyle
Vice President ....................... Daniel T. Boyle

Yay Dyke Mine
T21N R29E Sec. 1, 2 & 12

Open pit mine located 13 miles north of Bowie - Crude chabazite used for cation exchange media and specialty adsorbents and deodorizers. Shipped out of state for further processing.

Chetto Section 16 Mine
T21N R29E Sec. 16

Open pit calcium bentonite mine located 5 miles southeast of Sanders - Shipped out of state for further processing into diesscincs.

BurrO Creek Clay
T14N R10W Sec. 7

Open pit saponite clay mine located 8 miles southwest of Bagdad along Burr Creek - Saponite clay shipped out of state for manufacture into viscosifiers for industrial lubricants and coatings.

GOLD STANDARD MINES INC.

Tyro Mine
T21N R29W Sec. 6

P.O. Box 9006KS, Bullhead City 86440 - Phone 734-3109 - Employees 20 - Located 13 miles northeast of Bullhead City - Underground gold mine - Carbon in pulp cyanide mill - 300 TPD capacity.

General Manager ................................. Bob Hughes
Mill Superintendent ............................ Walt Dore

HARBORLITE INC.

Superior Perlite
T25 N12E Sec. 9

P.O. Box 960, Superior 85373 - Phone 689-5713 - Employees 7 - Plant located 2 miles west of Superior on Silver King Mine Road south of railroad track - Perlite from open pit mines - Marketed in California, Michigan and Wyoming - Used in filtering for pharmaceuticals, chemicals, sugar and beverages - Also used as agricultural fertilizer carrier.

Plant Manager ....................................... Bill Smith

HARLEY GRAY STONE COMPANY

Flagstone Quarries
P.O. Box 323, Paulden 86334 - Phone 636-2426 (Prescott 445-8253) - Employees 7 - Quarries located 8 miles northeast of Flagstaff - Flagstone, cut stone - Marketed locally and in California

Owner ........................................ Harley Gray

HUDMAN STONE

M C Canyon Quarries
T10N R1E Sec. 23

9640 W. Picture Rocks Road, Tucson 85743 - Phone 622-6008 - Employees 10 - Quarries located 8 miles northeast of Drake - Flagstone for decorative use - River run and surface flagstone for building use.

General Manager ................................. Roger Hudman

KOCIDE CHEMICAL

Vay Dyke Mine
T15 N15E Sec. 30

P.O. Drawer D, Miami 85502 - Phone 473-2421

Employees 14 - In situ leach and cement copper plant - Production 4,000,000 pounds of contained copper further refined at Casa Grande plant to produce CuSO.

Vice President, Mining ......................... Jimmy Whately
General Manager ............................... Paul Musgrove
Operations Manager ......................... Clyde Canviss
Office Manager .................................. Ruth Joplin

LITTLE HILL MINES INC.

Gold Hill Mine
T10S R15E Sec. 5

P.O. Box 332, Oracle 85623 - Phone 896-2245

Owner ........................................ Harley Gray

Owner ........................................ Carl Gray