

Directory of Active Mines In Arizona 1991

Incorporating Sand & gravel Operations

THE ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

The objective of the Department is to promote the development of Arizona's mineral resources. This is accomplished through technical research, field investigations, compilation of information into a mineral occurrence data base and disseminating information through publications, personal contacts and seminars.

The Department's mining engineers and geologists assist mining and exploration companies, prospectors and others interested in Arizona's minerals with mineral processing, mineral land acquisition, exploration, mine development, financing, government regulations and marketing.

The Department is a service agency and does not regulate, tax, or require any type of registration. The agency provides assistance that is tailored to meet the diverse needs of the public. The following is a partial list of services which the Department offers:

- Maintain a site specific data base of unpublished reports and maps that includes 5,000 mine files and indexes of 10,000 computerized Arizona mineral occurrences.
- Maintain an information bank and library of mineral and mining information including a mine map library (hard copy and microfilm), government publications, periodicals, and unpublished master and doctorate theses.
- Gather and disseminate information on commodities and markets.
- Suggest target areas for exploration activity.
- Suggest properties for acquisition and development.
- Assist individuals and companies in their dealings with State regulatory agencies to facilitate their mining and exploration activity.
- Produce publications in the form of mineral reports, annual directories, technical reports, annual mineral industry surveys and information circulars. These include *Laws and Regulations Governing Mineral Rights in Arizona*, *Directory of Active Mines in Arizona*, *Manual for Determination of Status and Ownership of Arizona Mineral and Water Rights*, and others. A current listing of the Department publications is available upon request.
- Maintain the Arizona Mineral Museum.



**Arizona Department of Mines and
Mineral Resources**

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

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Directory of Active Mines in Arizona

1991

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Forward

This directory was compiled in November, 1990 from field visits and information received by the Department engineers. For the purpose of this directory, an active mine is defined as a mine that is in continuous operation, either in production or under full-time development for production. Also included in the directory are custom milling operations that are active or available on a full-time basis.

It is acknowledged that there are additional mines not listed that are in an exploration, evaluation, or part-time development phase. There are others where production is on an intermittent basis that are not listed. The Department is non-regulatory, therefore our information is obtained by the Department field engineers and 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. The listing for the sand and gravel operations include name, address, and phone number. The area code for all Arizona phone numbers is 602.

A. F. BUDGE (MINING) LTD.

UVX T16N R2E Sec. 23
P.O. Box 938, Jerome, AZ 86331 - Phone 634-9034 -
Employees: 16 - Located at Jerome - Underground mine
producing gold and silver bearing flux for copper smelter.
General Manager Ronald R. Short
Mine Superintendent Pete Flores
Mine Geologist John McKenny
Foreman CundoJauregui

ALANCO LTD.

Office
14555 N. Scottsdale Road, Suite 200, Scottsdale, AZ 85260
- Phone 991-8540.
Chairman of the Board Richard Jones
President Kevin Jones
Vice President Larry Kersey
ARMCO Custom Mill T20S R22E Sec. 21
Phone - 457-2231 - Located 4 miles east of Tombstone on
Charleston Road - Custom milling facility - Gravity, flota-
tion, and CCD circuits.

ANASAZI COMPANY

Anasazi Stoneyard T4N R4E Sec. 14
Rattlesnake Quarries T20N R1E Sec. 19
Sidewinder Quarries T23N R2W Sec. 36
7486 E. Adobe Drive, Scottsdale, AZ 85255 - Phone 585-
9882 - Employees: 20 - Operates flagstone quarries in
Coconino County - Fabrication yard in Scottsdale -
Marketed in United States and Canada.
Owner Grady Dawe
Mining Supervisor Neil Cowie

ANDRADA MARBLE COMPANY INC.

Andrada Marble Quarry T17S R16E Sec. 21
4901 E. Drexel Road, Tucson, AZ 85706 - Phone 574-1414
- Employees: 11 - Mine site located 17 miles southeast of
Tucson - Open pit marble mine - Used for calcium feed
additive, plastering material, decorative stone, roofing
material - 3,000 TPM.
President and General Manager David Hartley
Vice President Barbara Hartley
Office Manager Allison Powell

**APACHE STONE DIVISION
Halquist Stone Co. Inc.**

Mayer Onyx Quarry T12N R1E Sec. 22
Blue Bell Schist Quarry T11.5N R1E Sec. 24
22040 N. 21st Ave., Phoenix, AZ 85027 - Phone 267-8658
- Employees: 3 - quarries located near Mayer - Onyx marble

quarry - Schist quarries - Building and dimension stone -
Marketed throughout the United States and exported.
President Perry Halquist
Manager Wayne Evans

ARIMETCO INTERNATIONAL INC.

8835 E. Speedway Blvd. #A, Tucson, AZ 85710, Phone
290-9200
President H. Roy Shipes
Vice President John Bracale
Johnson Mine T15S R22E Sec. 26
Employees: 46 - Open pit copper mine - Heap and dump
leaching - Solvent extraction electrowinning plant -
Capacity 30,000 lb. copper per day.
Emerald Isle T23N R18E Sec. 22
Employees: 3 - In - situ copper leach - precipitate production
- On standby.
Van Dyke T1N R15E Sec. 5
Feasibility studies underway.

ARIZONA FLUX MINES INC.

1630 S. Alvernon, Tucson, AZ 85711 - Phone 881-2919.
President Wes Becker Sr.
Secretary-Treasurer Wes Becker Jr.
Ash Peak Mine T8S R30E Sec. 3
Employees: 10 - Underground mine producing precious
metal bearing flux for smelters at 100 TPD.
General Manager Mike Best

ARIZONA PORTLAND CEMENT COMPANY

State Sales Office
2400 N. Central, Suite 308, Phoenix, AZ 85004 - Phone
271-0069.
Executive Vice President Vaughn S. Corley
Vice President, Sales Craig Starkey
Rillito Plant & Quarry T12S R11E Sec. 26
P.O. Box 338, Rillito, AZ 85654 - Phone (Tucson) 622-
3503 - Employees: 125 - 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 Chemist J. Boyett
Plant Engineer John Frye
Chief Electrician Jack Meeler
Personnel Manager Fran Young
Quarry Supervisor Chuck Hansen
Purchasing Agent Tom Follett

KEARNY

SAGUARO CONCRETE CO. - P.O. Box
156, Industrial Road, Kearny, AZ 85237,
363-7256.

KINGMAN

DESERT CONSTRUCTION INC. - 4490 N.
Hwy. 66, Kingman, AZ 86401, 757-2213.

KINGMAN REDI-MIX - Mohave Airport
Dr., Kingman, AZ 86401, 757-7446.

THE TANNER COMPANIES - 1685 Kiowa
Bl., Kingman, AZ 855-7210.

LAKE HAVASU CITY

MOHAVE CONCRETE & MATERIALS
INC. - Hwy. 95 N., Lake Havasu City, AZ
86403, 764-2226.

MAMMOTH

FRED CLARK TRUCKING CO., INC. -
P.O. Box 116, 104 Main, Mammoth, AZ
85618, 487-2232.

DOWNSTREAM MINING GRAVEL
PRODUCTS - Mayer, AZ 85618, 632-9672.

NOGALES

ABES MATERIALS - Rio Rico Rd., Nogales,
AZ 85628, 281-0310.

J.D.'S SAND & GRAVEL INC. - 602 W.
Mariposa, P.O. Box 35, Nogales, AZ 85628,
281-9449.

MULTI-METALS INC. - Mariposa Rd.,
Nogales, AZ 85628, 287-3939.

PADILLA SAND & GRAVEL - River Rd.,
Nogales, AZ 85628, 287-8831.

THE TANNER COMPANIES - 147 S. Rio
Rico, Industrial Park, Nogales, AZ 85621,
281-9669.

PAGE

GENERAL ROCK & SAND - P.O. Box 237,
Industrial Park, Page, AZ 86040, 645-3289.

KOCJAN ASSOCIATES, INC. - P.O. Box
3748, Industrial Park, Page, AZ 86040, 645-
2297.

PARKER

BLUE RIVER CONCRETE & AG-
GREGATE - Riverside Dr., Parker, AZ 85344,
669-8696.

SHEPARDSON ENTERPRISES - Mohave
Rd., Parker, AZ 85344, 669-9251.

THE TANNER COMPANIES - Riverside
Dr., Parker, AZ 85344, 669-9251.

PAULDEN

PAULDEN SAND & ROCK REDI-MIX -
Div. Dunbar Stone Co. Inc., P.O. Box 403,
Paulden, AZ 86334, 636-2500.

PAYSON

PAYSON CONCRETE & MATERIALS,
INC. - P.O. Box 448, Aero Dr., & McLane,
Payson, AZ 85541, 474-2231.

STAR VALLEY GRANITE &
MATERIALS - Star Valley, HCR Box 43B,
Payson, AZ 85541, 474-9396.

PRESCOTT

EARTH PRODUCTS - 7001 2nd St., Prescott
Valley, AZ 86314, 772-6446.

SUPERIOR READY MIX - 1365 N. Hwy.
89, Box 2077, Prescott, AZ 86302, 632-7450.

YAVAPAI MATERIALS, INC. - P.O. Box
814, Near Airport - Hwy. 89, Prescott, AZ
86301, 445-7305.

RIMROCK

B AND B MATERIALS - Rimrock, AZ
86335, 567-5702.

SAFFORD

CKC MATERIALS DIVISION - Airport
Rd., Safford, AZ 85546, 428-3423.

SCARBOROUGH SAND & GRAVEL - 920
E. Stratton Dr., Safford, AZ 85546, 428-3138.

W.A. MORRIS SAND & GRAVEL &
CON., INC. - Bowie Hwy., Safford, AZ
85546, 428-1371.

ST. JOHNS

FRANCIS DAY & SONS - P.O. Box 157, St.
Johns, AZ 85936, 337-2121.

SEDONA

THE TANNER COMPANIES (U.M. Div.) -
W. Hwy. 89-A, Sedona, AZ 86336, 282-4200.

SHOW LOW

A & A READY MIX, INC. - N. 6th St., Show
Low, AZ 85901, 537-5757.

JOY T. PEARCE CONSTRUCTION INC.
- P.O. Box 2049, Hwy. 260, Show Low, AZ
85901, 537-4773.

SIERRA VISTA

DESERT CONCRETE CO. - P.O. Box 430,
Haws Substation Rd., Sierra Vista, AZ 85635,
378-2321.

DRESZEN GRAVEL CO. - P.O. Box 661,
Hwy 92, Sierra Vista, AZ 85635, 378-9443.
SIERRA READY MIX CO. - P.O. Box 111,
North Ave., Sierra Vista, AZ 85635, 458-4343.

SNOWFLAKE

BRIMHALL SAND & ROCK & BLDG.
MATERIAL - P.O. Box 750, Hwy. 77,
Snowflake, AZ 85937, 536-4226.

SPRINGVILLE

RUE HALE PIPELINE SERVICE - 611 S.
Voight St., P.O. Box 221, Springville, AZ
85938, 333-4483.

TAYLOR

HATCH CONSTRUCTION & PAVING -
Hwy. 77, Taylor, AZ 85939, 536-7213.

REIDHEAD SAND & ROCK, INC. - P.O.
Box 7, Paper Mill Rd., Taylor, AZ 85939,
536-4519.

WICKENBURG

RED-E-MIX CONCRETE CO. - 286 1/2 N.
Frontier, Box 12, Wickenburg, AZ 85358, 684-
7248.

WICKENBURG CONCRETE &
MATERIALS - P.O. Box 516, U.S. Hwy. 60,
Wickenburg, AZ 85358, 684-3335, 684-3402.

WILLCOX

HAMILTONSAND & GRAVEL - Hamilton
Rd., RR 1 Box 1350, Willcox, AZ 85643,
384-2582.

WILLCOX ROCK & SAND - 770 S. Cochise
Ave., P.O. Box 156, Willcox, AZ 85643, 384-
2181.

WINSLOW

WINSLOW SAND & GRAVEL - 200 Frank
Rd., Winslow, AZ 86047, 289-4596.

YUMA

ARIZONA SAND & GRAVEL - 1401 Atlan-
tic Ave., Yuma, AZ 85364, 782-7074.

GRATE SAND & GRAVEL CO. - 12326 E.
8, Yuma, AZ 85365, 344-1145.

IDEAL CONCRETE CORPORATION -
3647 E. Gila Ridge Rd., Yuma, AZ 85365,

J & F SAND & GRAVEL - Ave 24E and 9th
St., Yuma, AZ 85364, 342-3654.

THE TANNER COMPANIES (U.M. Div.) -
2088 E. 20th St., Yuma, AZ 85365, 782-9267.

WESTERN SAND & ROCK - P.O. Box 65, 4405 S. Litchfield Rd. Avondale, AZ 85323, 932-1391.

PIMA COUNTY

ABC SAND & GRAVEL - 3800 S. Harrison Rd., Tucson, AZ 85730, 886-3030.

ACE SAND & GRAVEL - 1011 W. Silverlake Rd., Tucson, AZ 85713, 622-1869.

ACME SAND & GRAVEL - 7707 E. 22nd St., Tucson, AZ 85710, 296-6231.

AGGREGATE MATERIALS - (See Churchman Sand & Gravel), 2165 N. Rita Rd., Tucson, AZ 85747.

B & R MATERIALS - P.O. Box 18138, 4200 S. Harrison Rd., Tucson, AZ 85731, 298-2371.

BLUE CIRCLE WEST INC. - 4100 E. Columbia, Tucson, AZ 85714, 744-2500.

CALMAT OF ARIZONA - P.O. Box 418, Rillito, AZ 85654, 574-0054.

CHURCHMAN SAND & GRAVEL - 4250 River Rd., Tucson, AZ 85718, 325-1611.

DOWNEY LA & SONS SAND & ROCK - 11600 E. Poorman Rd., Tucson, AZ 85747, 886-2315.

G & A SAND AND GRAVEL INC. - 2038 W. Weymouth, P.O. Box 5925, Tucson, AZ 85703, 293-9283.

GRANITE CONSTRUCTION CO. - 4115 E. Illinois, P. O. Box 27557, Tucson, AZ 85726, 748-8000.

ORBAN EXCAVATING INC. - 10800 E. Irvington, Tucson, AZ 85730, 296-0381.

PANTANO MATERIALS - 10851 E. Nebraska, Tucson, AZ 85706, 886-1511.

SAN XAVIER ROCK & MATERIALS - 3895 N. Business Center Dr., Tucson, AZ, P.O. Box 551, Cortaro, AZ 85652, 293-6833.

THE TANNER COMPANIES - At Orange Grove, 6601 N. Casa Grande Hwy., Tucson, AZ 85743, 744-3222.

VALLEY ROCK & SAND CO. - 10700 E. Irvington Rd., Tucson, AZ 85730, 296-1733.

WESTERN ROCK PRODUCTS INC. - 9201 N. Casa Grande Hwy., Tucson, AZ 85743, 744-6000.

STATEWIDE

AJO

JIM BUSH READY MIX - 1015 N. Cameron, Ajo, AZ 85321, 387-6250.

APACHE JUNCTION

CASHWAY CONCRETE & MATERIALS - 3695 S. Meridan Rd., Apache Junction, AZ 85220, 830-5600.

ASH FORK

DUNBAR STONE COMPANY, INC. - 901 Lewis Ave., P.O. Box 246, Ash Fork, AZ 86320, 637-3592.

AVONDALE

WESTERN SAND & ROCK - 4405 S. Litchfield Rd., Avondale, AZ 85338, 932-1391.

BENSON

COCHISE MATERIALS, INC. - County Rd., P.O. Box 910, Benson, AZ 85602, 586-3421.

BISBEE

EADS CONSTRUCTION & REDI-MIX - Hwy. 92, Bisbee, AZ 85603, 432-4121.

BUCKEYE

WESTERN SAND & ROCK - 815 N. 1 Ave., Buckeye, AZ 85326, 386-2401.

BULLHEAD CITY

THOMPSON READY MIX - P.O. Box 9, Bullhead City, AZ 86430, 754-2535.

W.M.K. TRANSIT MIX CO. - P.O. Box 31, Bullhead City, AZ 86430, 763-3887.

CAMP VERDE

SUPERIOR COMPANIES - Hayfield Draw, Camp Verde, AZ 85322, 567-2244.

THE TANNER COMPANIES - Buffalo Trail, Camp Verde, AZ 85322, 567-5225.

CASA GRANDE

TEE PEE SAND & GRAVEL - S. Trezell Rd., Casa Grande, AZ 85222, 836-3879.

THE TANNER COMPANIES - 2500 W. Peters Rd., Casa Grande, AZ 85222, 836-8705.

CHINO VALLEY

DUNBAR STONE CO. - Hwy. 89 & 6N, Chino Valley, AZ 86323, 636-2500.

COOLIDGE

CENTRAL ARIZONA MATERIAL - Hwy 287, Coolidge, AZ 85228, 723-5719.

THE TANNER COMPANIES - Attway Rd. at Hwy. 287, Coolidge, AZ 85228, 723-5851.

COTTONWOOD

D & M MATERIALS - P. O. Box 733, Cottonwood, AZ 86326, 634-7740.

SUPERIOR READY MIX - Hwy. 279, P.O. Box 308, Cottonwood, AZ 86326, 567-3368.

VALLEY CONCRETE & MATERIALS - 820 E. Hwy 89-A, P.O. Box 634, Cottonwood, AZ 86326, 634-4259.

DEWEY

BRADSHAW MOUNTAIN MATERIALS - Hwy 69, Dewey, AZ 86327, 632-5115.

DOUGLAS

DOUGLAS READY MIX & MATERIALS CO. - 101 W. 9, Douglas, AZ 85607, 364-8448.

MADDUX & SONS, INC. READY MIX - 1927 Pan American, P.O. Box 1077, Douglas, AZ 85608, 364-7564.

DUNCAN

OAKCREEK CONTRACTING INC. - S. 4th, Duncan, AZ 85534, 359-2722.

FLAGSTAFF

LITTLE B MINING CO., INC. - 5600 N. Dodge, Flagstaff, AZ 86004, 526-5571.

THE TANNER COMPANIES - 5400 E. Empire Ave., Flagstaff, AZ 86001, 526-5250.

GILA BEND

WESTERN SAND & ROCK - P.O. Box 679, Stout Road, Gila Bend, AZ 85337, 683-2251.

GLOBE

GUZMAN CONSTRUCTION - P.O. Box 3100, Superior-Globe, Globe, AZ 85501, 425-5775.

HOLBROOK

BLACKROCK CONSTRUCTION - Perkins Valley Rd., P.O. Box 789, Holbrook, AZ 86025, 524-6159.

HUACHUCA CITY

ALLISON ROCK & SAND INC. - P.O. Box 5065, Oak Drive, Huachuca City, AZ 85616, 456-1521.

HUACHUCA CONCRETE INC. - Mustang Rd., P.O. Box 5086, Huachuca City, AZ 85616, 456-1600.

HUMBOLDT

SUPERIOR READY MIX - Hwy. 69, Humboldt, AZ 86329, 632-7936.

ARIZONA SILICA SAND COMPANY

Houck Silica Sand T22N R29E Sec. 29

P.O. Box 108, Houck, AZ 86506 - Phone 688-2602 - Employees: 25 - Open pit mine - Plant south of Houck - Hydrafrac sand for oil well treatment - Markets include New Mexico and California - Abrasives and mold sand - Markets in Arizona and New Mexico.

President.....Robert D. Fisher
General Manager.....James Burkerwitz
Foreman.....Ralph Nelson

ARIZONA TUFLITE INC.

Crown Claims T23N R7E

More Sand, Moon Sand T23N R7E Sec. 24

White Vulcan T23N R8E Sec. 19

2432 W. Peoria, Suite 1081, Phoenix, AZ 85029 - Phone 931-3682 - Glendale yard located at 6856 W. Orangewood, Glendale - Employees: 18 - Mines located 12 miles north of Flagstaff - Pozzolanitic pumice quarries - 6000 yards/month - Used in making lightweight redmix and block - Large size material used in the preparation of "stone washed blue 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
Orders and Transportation.....Lois Werner

ASARCO INCORPORATED

Tucson Office

1150 N. 7th Avenue, P.O. Box 5747, Tucson, AZ 85703 - Phone 792-3010.

Southwestern Mining Department

General Manager.....T.E. Scartaccini
Assistant to General Manager.....D.F. Skidmore
Accounting Manager.....G.H. Myers
Chief Environmental Engineer.....P.J. Maley

Mining Department/Corporate Office

Assistant to Vice President.....A.D. Coumides
Chief Geologist.....S.A. Anzalone

Mineral Beneficiation Department

Director.....D.E. Crowell
Chief Metallurgist.....T.D. Henderson

Exploration Department

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

Acid Sales Department

National Sales Manager.....G.P. Gillen
Hayden Unit T5S R15E Sec. 14

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

Manager.....Darrell Himmesoete
Operations Manager.....Joe Wilhelm
Technical Services Manager.....D.K. Modrow
Financial Manager.....Jim O'Neal
Maintenance Manager.....Hugh Alexander
Industrial Relations Manager.....Bill Burrel
Plant Engineer.....R.L. Christiansen
Safety Engineer.....Rex Jennicks
Purchasing Agent.....K.C. Newnam
Mission Open Pit Copper Mine T16S R12E Sec. 36
Mission Concentrator T16S R12E Sec. 31
Box 111, Sahuarita, AZ 85629 - West Pima Mine Road - Phone 791-2920 - Employees: 625 - Open pit copper mine - Concentrator 40,000 TPD.

Manager.....John D. Low
Superintendent - Service.....J.B. Lichtenhan
Mine Superintendent.....S.L. Lakosky
Chief Engineer.....M.A. Melcher
Geologist.....R.B. Cummings
Chief Chemist.....C.D. Lobley
Chief Metallurgist.....J.P. Reynolds
Mechanical Superintendent.....H.E. Hughes
Mill Superintendent.....C.A. Carroll
Purchasing Agent.....W.B. Manakee
Chief Accountant.....D.J. Hoffman
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Safety Administrator.....R.E. Jordan

Ray Open Pit Copper Mine T3S R13E Sec. 10

Ray Concentrator, Smelter T5S R15E Sec. 11

P.O. Box 8, Hayden, AZ 85235 - Phone 356-7811 - Employees: 815 - Open pit copper mine - Dump leach - Heap leach - Solvent extraction-electrowinning plant - Concentrator rated at 41,000 TPD - 400,000 TPY smelter - On standby - 900 TPD acid plant - On standby.

General Manager.....B.K. Malone
Operations Manager.....Roger L. Gagliano
Director of Environmental Control.....Bryon Brumbaugh
Human Resources Director.....Rulon Ellett
Personnel Administrator.....Joyce L. Morris
Accounting Manager.....J.T. O'Neil
Purchasing Agent.....Bob Henry

Technical Services Superintendent.....N.A. Gambell
Ray Concentrator Superintendent.....S.A. McGee

Hayden Concentrator Superintendent.....Gary L. Lubers
Mining Superintendent.....R.E. Thompson

Mining Engineer.....S.F. Johnson
Maintenance Superintendent.....Bill Pyle

Division Geologist.....Edward John
Silver Bell T12S R8E Sec. 11

Marana, AZ 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. Shea

Chief Accountant.....A.J. Robles

BLASER CORPORATION

Blaser Stoneyard T16N R2W Sec. 22
Black Cat Quarries T22N R1W Sec. 17
Grindstone 1 & 2 T20N R1E Sec. 34
Lower Cedar Tank Quarry T22N R2W Sec. 2
North Highway 89, Chino Valley, AZ 86323 - Phone 636-4454 - Employees: 40 - Processes, saws, and cuts Arizona flagstone and sandstone - Marketed nationwide and exported to foreign countries.
President Donald Blaser
Vice President W. Larry Blaser
Secretary/Treasurer - Manager, Operations Dayle Blaser
Orders Marcia Stewart

BUILDING PRODUCTS COMPANY

Phoenix Plant
4850 W. Buckeye Road, Phoenix, AZ 85043 - Phone 272-5576 - Clay mining by contractor - Plant consumes clay to produce extruded sewer pipe and roofing tile.
Plant Manager Vern Hamner
Mine Consultant Don Morris
Rim Quarry T11N R19E Sec. 30
Clay mine located 10 miles southwest of Clay Springs.
New River Slate Quarry T7N R3E Sec. 5
Slate quarry located approximately 6 miles northeast of New River.
Dewey Ranch #2 T14N R1E Sec. 15
Clay mine located approximately 6 miles north of Dewey.

C. C. C. INC.

Devils Wash T15S R2E Sec. 2
HCR Box 840, Sells, AZ 85634 - Phone 361-2388 - Employees: 5 - Located approximately 1 1/2 miles southwest of Quijotoa - Gold placer operation, wet gravity concentration - Capacity 500 yards/week - Expansion underway.
Superintendent Tom Brice

CALCIUM PRODUCTS OF ARIZONA

Santa Rita Quarry T18S R15E Sec. 15
P.O. Box 70, Sahuarita, AZ 85629 - Phone 444-7061, 1-800-345-5635 - Employees: 15 - Located 15 miles southeast of Sahuarita - White marble quarry - Crushed and/or ground for landscape, functional filler, and chemical uses - Raymond roller mills, sizing and bagging plant - Markets in Arizona and southwestern United States.
General Partner/Manager Bob Knox
Partner Leon Knox
Production Foreman Bill De Spain
Maintenance Foreman Anthony Bruno

CATALINA MARBLE COMPANY

White Rock Mine T10S R13E Sec. 31
P.O. Box 8997, Catalina, AZ 85725 - Phone 825-9398 - White marble quarried and processed for use as veneer and decorative stone, plaster sand, and animal feed additive.
Owner/Operator Darell Goode

CHEMGOLD INC.

Picacho Mine California
1891 Rail Avenue, P.O. Box 2015, Yuma, AZ 85366 - Phone 783-1891 - Employees: 55 - Open pit gold mine located 24 miles north of Yuma in California - Open pit mine - Heap leaching - Carbon adsorption - Desorption - Electrowinning - Annual production 18,000 oz. gold.
Chairman Chester F. Millar
President A. Dan Rovig
General Manager C. Kevin McArthur
Operations Superintendent Brian R. Young
Metallurgist Jesus Arrizon

CHEMSTAR LIME

2800 N. 44th St., Suite 400, Phoenix, AZ 85008 - Phone 955-5711.
President Dave Reilly
Vice President, Sales Bob Plains
Vice President, Manufacturing William E. Dodge
Vice President, Engineering Bill McCandlish
Purchasing Manager Mike Pinnau
Nelson Quarries & Plant T25N R10W Sec. 25
P.O. Box 370, Peach Springs, AZ 86434 - Phone 769-2271 - Employees: 74 - Limestone quarry - Lime plant rated at 1800 tons of lime per day.
Plant Manager Ed C. Barry
Production Superintendent Jerry Young
Maintenance Superintendent Ed Banfield
Quarry Superintendent Pat Terbilcox
Plant Buyer Danny Roberts
Shipping/Transportation Coordinator Joe Fuentes
Douglas Quarry & Plant T24S R26E Sec. 7
Route 1, Box 110, Douglas, AZ 85607 - Phone 364-2429 - Employees: 60 - Quarry and plant located at Paul Spur - 3 lime kilns, plant capacity rated at 1000 tons of lime per day.
Plant Manager Mike S. Eliason
Production & Maintenance Superintendent Richard Anderson
Quarry Superintendent R. Dean Vaughn
Production Services Superintendent Don Williams

SAND AND GRAVEL OPERATIONS

MARICOPA COUNTY

A&A MATERIALS INC. - 10333 E. McDowell Rd., Scottsdale, AZ 85257, 990-0557.

A&B SILICA - 3015 S. 19th Ave., Phoenix, AZ 85041, 254-5863.

ABC SAND & ROCK - 5401 N. 119th Ave., Glendale, AZ 85307, 935-1677.

ACI-ARIZONA CRUSHERS INC. - P.O. Box 9129, 21001 N. 7th St., Phoenix, AZ 85024, 242-5143.

AJAX SAND & GRAVEL - 5026 S. 51st Ave., Laveen, AZ 85339, 237-3232.

ARIZONA CRUSHING CO - 650 W. McKellips Rd., Mesa, AZ 85201, 835-0207.

ARIZONA'S QUALITY GRANITE - 7401 W. Villa Rita, Peoria, AZ 85345, 869-0635.

AZTEC MATERIALS - 3250 E. Lehi Rd., P.O. Box 928, Mesa, AZ 85211, 892-0501.

BASELINE MATERIALS - 443 E. Moore Ave., Gilbert, AZ 85234, 987-3777, 497-3840.

BLUE CIRCLE WEST, INC. - 2625 S. 19th Ave., Phoenix, AZ 85009, 253-2505, 274-6977.

CALMAT COMPANIES - P. O. Box 52012, Phoenix, AZ 85072, 254-8465.

CHANDLER READY MIX - 235 East Baseline, P.O. Box 928, Mesa, AZ 85211, 892-0501.

CORNERSTONE MATERIALS INC. - 3617 N. Gilbert, P.O. Box 1402, Mesa, AZ 85211, 969-2921.

FT. MCDOWELL SAND & GRAVEL CO. - P.O. Box 17150, Fountain Hills, AZ 85268, 837-2358.

HARPER SAND & ROCK - 7200 S. 115th Ave., Tolleson, AZ 85353, 932-2767.

KILAUEA CRUSHERS INC., - P.O. Box 5385, Glendale, AZ 85312, 843-1888.

MESA MATERIALS INC. - 3410 N. Higley Rd., Mesa, AZ 85205, 830-1521.

MESA SAND & ROCK INC. - 2246 N. Country Club Dr., Mesa, AZ 85201, 964-1773.

PHOENIX REDI-MIX COMPANY - 3635 S. 43rd Ave., Phoenix, AZ 85009, 272-2637.

PIONEER SAND CO. - 5851 W. Broadway Rd., Phoenix, AZ 85043, 233-2971.

RAINBOW ENTERPRISES - 7665 W. Deer Valley Rd., Peoria, AZ 85345, 434-5314.

RED MOUNTAIN MINING - 4250 N. Power Rd., Mesa, AZ 85205, 832-3390.

SALT RIVER SAND & ROCK - P. O. Box 728, Mesa, AZ 85211, 990-1987.

SAND SPECIALTIES, INC. - 5570 N. Bush Highway, Mesa, AZ 85205, 832-2120.

SMITH SAND & GRAVEL - 34420 Old Black Canyon Highway, Black Canyon City, AZ 85324, 374-5448.

SUN LAND SAND & GRAVEL - 6950 W. Southern, Laveen, AZ 85339, 237-3210.

SUN STATE ROCK & MATERIAL - P.O. Box 1340, Sun City, AZ 85372, 848-8911.

THE TANNER COMPANIES (United Metro Div.) - P.O. Box 52124, Phoenix, AZ 85072, 220-5020.

TREASURE CHEST GRANITE - 1707 N. Bridal Wreath, Tempe, AZ 85219, 982-2048.

TRI-CITY REDI MIX - P.O. Box 148, 2128 E. 1st St., Tempe, AZ 85281, 967-7597, 968-2180.

UNION ROCK & MATERIALS CORP. - P.O. Box 8007, 2800 S. Central Ave., Phoenix, AZ 85066, 276-4211.

Aggregate batch plant at Squaw Peak Parkway.



TRIPLE NICHOL INC.

R.R. 1, Box N 123, Globe, AZ 85501 - Phone 425-7006 - Employees: 75.
President.....Monty Nichols

Copper Hill Mine T1N R15E Sec. 15
Silica flux for copper smelters - Northwest of Globe.
Magma Limestone T1S R12E Sec. 35
Limestone for San Manuel lime plant - East of Superior.

UOP

115 N. Fifth Street, Suite 401, Grand Junction, CO 81502
Phone (303) 245-7957.
Senior Mining Engineer.....Jim Kirchner
Bowie Chabazite Operations T11S R28E & T11S R29E
Open pit mines operated by independent contract mining company - Crude chabazite used for specialty adsorbants - Shipped out of state for further processing.

**UNITED DESSICANTS GATES
United Catalyst, Inc.**

Corporate Headquarters - P.O. Box 32370, Louisville, KY 40232 - Phone (502) 634-7200 - Processing plant c/o United Dessicants, 101 Christine Drive, Belen, NM 87002 - Phone (505) 864-6691.
Cheto No. 1 T21N R29E Sec. 23
Employees: 10 - Located approximately six miles southeast of Sanders in northeastern Arizona - Surface strip bentonite mine - Seasonal operation by mining contractors - Used in catalysts and in production of desiccants.
Vice President (Louisville).....Bill Monin
Plant Manager (Belen).....James Holm
Technical Director (Belen).....Robert Deuble

WESTERN ARIZONA ROCK PRODUCTS INC.

Aztec Quarry T7S R12W Sec. 28
P.O. Box 27019, Albuquerque, New Mexico 87125 - Phone (505) 888-3815 - local address, P.O. Box 178, Dateland, AZ 85333 - Phone 454-2252 - Employees: 11 - 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.....Ray Crabb
Office Manager.....Patti Wipple/Dee Crabb

WESTERN GYPSUM

Snowflake Gypsum Mine T41N R13W Sec. 25
130 E. 200 North, P.O. Box 850, St. George, UT 84770
Phone (801) 628-3916 - Employees: 12 - Open pit gypsum mines, primary and secondary crushing, screening plant - Producing gypsum for cement industry, agriculture, fertilizer industry, functional fillers, and water treatment. Markets in California and Arizona.
President.....Don Cecala
Mine Superintendent.....Tracy Cannon
Asst. Mine Superintendent.....Aaron Rasmussen

WESTERN STATES STONE COMPANY

2830 Grand Ave., Phoenix, AZ 85017 - Phone 253-2018.
President.....C.E. Webster
Ashfork Plant T21N R2W Sec. 3
Quarries
P.O. Box 316 - Ash Fork, AZ 86220 - Phone 637-2542 - Employees: 40 - Quarries located in Coconino, La Paz, Maricopa, Mohave, and Yavapai Counties - Stone processing facility in Ashfork - Commercial and decorative building stone marketed locally, out of state, and exported.
Superintendent.....Ismah Albright

YELLOW HAIR TRADING AND MINING

Sleeping Beauty Mine T1N R14E Sec. 12
P.O. Box 111, Globe, AZ 85502 - Phone 425-7625 or 425-0446 - Employees: 30 - Produces turquoise under contract with Magma Copper Company's Pinto Valley Mine - Sorts, grades and processes turquoise for worldwide distribution.
President & Co-owner.....W.H. Preston
Vice President & Co-owner.....Monty Nichols
Secretary-Treasurer & Co-owner.....Cheryl Preston
Sales.....Ed Wheeler

**CLINTON - CAMPBELL CONTRACTING INC.
Phoenix Brick Yard**

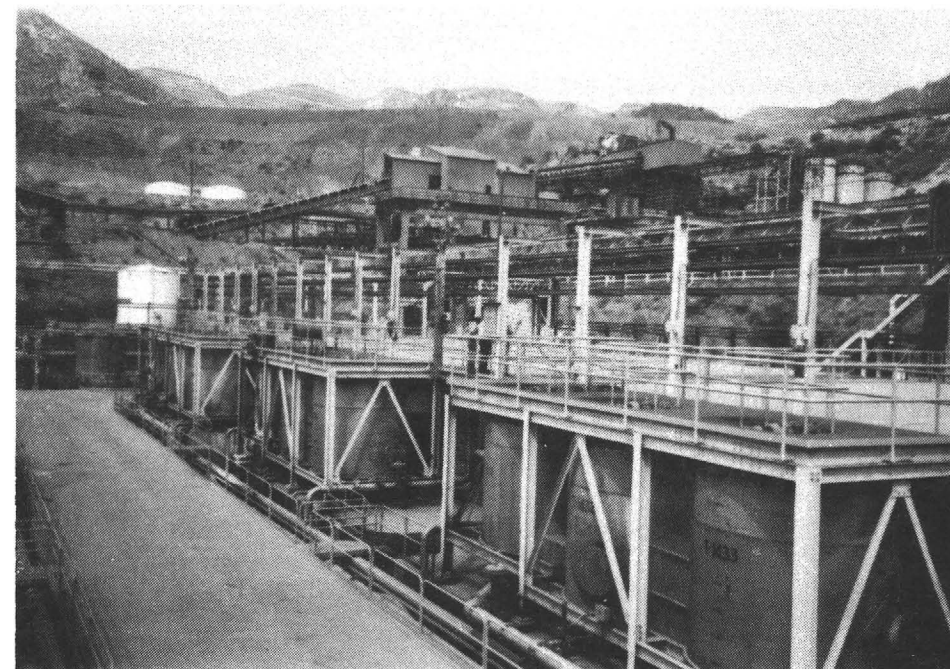
1814 S. 7th Ave., Phoenix, AZ 85007 - Phone 258-7158 - Employees: 96.
President.....Frederic Campbell
Plant Superintendent.....Don Campbell
Tolleson Mine T1N R3E Sec. 18
Clay pit located on 84th Avenue north of Van Buren - Used in manufacture of structural clay products.

Pantano Clay Pits T16S R17E Secs. 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
(A subsidiary of Cyprus Minerals Company)**

P. O. Box 1126, Green Valley, AZ 85622 - Phone 628-4000.
Executive Vice President.....James C. Compton
Vice President Technical Services.....Ron Kellner
Cyprus Sierrita Corp.
Sierrita T18S R12E Secs. 7, 8, 9, 10, 16, 17
P.O. Box 527, Green Valley, AZ 85622 - Phone 791-2950 and 625-4800 - Employees: 942 - Sierrita open pit copper-molybdenum mine - 1,000 TPD concentrator - The inactive Esperanza open pit - 17,500 TPD concentrator - Ferromolybdenum plant - Rhenium plant - Dump leach - Solvent extraction - electrowinning plant - Located 32 miles south of Tucson.
Vice President & General Manager.....T.J. O'Neil

Manager, Administration.....Mark Wison
Manager, Mining.....D.L. Prah
Manager, Copper Operations.....Bob Comstock
Manager, Molybdenum Operations.....M.H. Khan
Manager, Human Resources.....Craig Patrick
Mine Superintendent.....Leon Hardy
Twin Buttes T18S R13E Sec. 5
Employees: 269, plus 50 Triple Nichol, Inc. contract employees - Open pit copper mine, oxide leach and solvent extraction-electrowinning - Sulfide ore conveyed to Sierrita mill.
Mine Manager.....D.L. Prah
Mine Superintendent.....Leon Hardy
Oxide Superintendent.....Ramon Hernandez
Cyprus Miami Mining Corp.
Miami T1N R14E Sec. 24, 25, 26, 35
P.O. Box 4444, Claypool, AZ 85532 - Phone 473-7150 - Employees: 1013 - Open pit oxide copper mine - Dump leach - Solvent extraction - electrowinning plant - 120,000 TPY Smelter - Acid plant - Electrolytic refinery - Electrolytic refinery - 100,000 TPY continuous rod plant - The 24,000 TPD concentrator is inactive.
Vice President & General Manager.....Dennis Mortensen
Public Relations Director.....Dean Lynch
Manager, Technology.....Ken Larson
Manager, Mining Operations.....Carl Waggoner
Manager, Smelter/Rod Plant Operation.....Al Tittes
Manager, Plant Operations.....Howard Bardwell
Manager, Human Resources.....Chuck Rising
Manager, Administration.....Randy Hoffman



Ray Mine's solvent extraction plant.

Superintendent, Leaching Operations & SX Gerald F. Fountain
 Superintendent, Tankhouse..... Mark Peabody
 Superintendent, Plant Services John C. Lorenzen
 Superintendent, Rod Plant Luis Constandse
 Superintendent, Metallurgical Control Eric Selley
 Superintendent, Environmental Services Tom Larsen
 Superintendent, Smelter Operations Don Nelson
 Superintendent, Smelter Maintenance Scott Vandela
 Superintendent, Smelter Technical Services Rex Henderson
 Superintendent, Smelter Resource Recycling Larry Le Compte
 Materials Management Hugo Schriewer

Cyprus Bagdad Copper Corp.
Bagdad T14N R9W Sec. 4
 P.O. Box 245, Bagdad, AZ 86321 - Phone 633-2241 - Employees: 680 - Open pit copper-molybdenum mine - 71,000 TPD concentrator - Dump leach-solvent extraction-electrowinning plant.
 Vice President & General Manager Harry W. Cosner
 Manager, Administration R.J. Cunningham
 Manager, Mining Kent Watson
 Manager, Plant Operations G. G. Granger
 Manager, Community Services D.L. Mead
 Manager, Human Resources J.S. Bush
 Manager, Safety Joe Mortimer

Cyprus Casa Grande Corp.
Casa Grande T10S R4E Sec. 25
 P.O. Box C-9, Casa Grande, AZ 85222 - Phone 623-1539 - Employees: 179 - In- situ leach copper mine - Roast Leach - Solvent extraction-electrowinning plant - Acid plant - Located 32 miles south of Casa Grande.
 Manager Ravi Medhi
 Administrative Manager Robert Moon
 Plant Superintendent John Kline
 Mine Superintendent Kermit Behnke
 Metallurgical Control Superintendent..... Sam Yang
 Administrative Supervisor Joe Smith
 Quality Assurance Supervisor..... Troy Pool
 Quality Assurance Supervisor Dave Hamby
 Human Resources Supervisor Jim Lewis
 RLA Superintendent..... Dave Shade
 SX-EW Superintendent Jim Garvey

Cyprus Mineral Park Corp.
Mineral Park T23N R17W Sec. 19
 P.O. Box 6249, Kingman, AZ 86402 - Phone 565-2226 - Employees: 14 - Open pit copper-molybdenum mine & 15,000 TPD concentrator - On standby - Dump leach - Precipitation plant operating - Located 16 miles north of Kingman.
 Superintendent G. H. Veach
 Plant Supervisor Joey Matthews

CYPRUS GOLD COMPANY

Cyprus Copperstone Gold Corp.

Copperstone T6N R20W Sec. 12
 P.O. Box AI, Parker, AZ 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.
 Resident Manager M. L. Schroder
 Plant Superintendent G. R. Burns
 Administrative Supervisor M. A. Browning
 Mine Superintendent K. G. Markkola
 Geologist..... G.L. Kelsey
 Senior Mine Engineer J. Hatrick
 Mining Engineer S. Anderson
 Mill Maintenance Supervisor E. P. Sours
 Operation Supervisor..... G. R. Eastham
 Construction Supervisor..... D. F. Douglas
 Human Resource and Safety Supervisor..... S. P. Fullmer

DUNBAR STONE COMPANY

Dunbar Stone Plant T21N R2W Sec. 3
 P.O. Box 246, Ash Fork, AZ 86320 - 901 Lewis - Phone 637-2592 - Employees: 63 - Quarries in Coconino, Maricopa, Mohave, and Yavapai Counties - Flagstone, marble and schist - Stone processing plant in Ashfork - Marketed in and out of state.
 President..... G.E. Dunbar
 Vice President W.B. Dunbar
 Maintenance Superintendent Ron Dunbar

ENERGY FUELS NUCLEAR INC.

P.O. Box 36, Fredonia, AZ 86022 - Phone 643-7321
 Manager Mining Operations Roger Smith
Kanab North T38N R3W Sec. 17 Employees: 35 - Located 25 miles southwest of Fredonia - Underground uranium mine - Direct shipping ore - Mill in Blanding, Utah - Currently stockpiling ore.
 Mine Superintendent Dan Thebeau
Arizona One T36N R5W Sec. 22
 Employees: 15 - Located 45 miles southwest of Fredonia - Sinking shaft during 1991.
 Mine Superintendent John Stubblefield
Hermit T38N R4W Sec. 17
 Located 30 miles southwest of Fredonia - Underground uranium mine - Developed - On standby.
Pigeon T38N R2W Sec. 5
 Located 20 miles south of Fredonia - Underground uranium mine - Developed - On standby.



Ore stockpile at the Morenci Mine.

STUTENROTH MILLING

Stutenroth Mill T7S R7E Sec. 8
 7611 W. Cornman Road, Casa Grande, AZ 85222 - Phone 836-5568 - Employees: 2 - Custom gravity mill - 50 TPD capacity - All types of ore - Located eight miles southeast of Casa Grande.
 Owner-Operator Archie Stutenroth

SUPERIOR COMPANIES

100 W. Coolidge, Phoenix, AZ 85006 - Phone 230-9300 - Employees: 70. .
 President Archer V. Shelton
 Vice President, Administration Mary Kessler
 Vice President, Finance Don Fischer
Camp Verde Gypsum T13N R5E Sec. 11
 P.O. Box 308, Cottonwood, AZ 86326 - Phone 567-3854 - Gypsum quarry four miles southeast of Camp Verde - Supplies gypsum to Phoenix Cement Company Plant at Clarkdale.
 General Manager - Verde Valley Operations (Currently Vacant)
 Maintenance Supervisor Alvin Hazelwood

Production Manager Danny Parker
 Foreman Ed Davidson
St. Johns Limestone T12N R29E Sec. 4
 P.O. Box 2777, St. Johns, AZ 85936 - Phone 337-4529 - 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, AZ 85292 - Phone 357-7002 - Gypsum Quarry - Gypsum for Arizona Portland Cement Plant at Rillito.
 Superintendent John Nevitt

SUPERLITE BLOCK COMPANY

P.O. Box 23163, 4150 W. Turney, Phoenix, AZ 85063 - Phone 269-3561.
 President..... Max Graves
Darling Cinder Pit T21N R9E Sec. 2
 P.O. Box 40159, Flagstaff, AZ 86004 - Phone 526-5499 - Employees: 5 - Open pit mine east of Flagstaff - Volcanic cinders used to make building block at Phoenix and Mesa plants.
 Mine Superintendent Terry Mitchell

PHELPS DODGE CORPORATION

Corporate Headquarters

2600 N. Central Ave., Phoenix, AZ 85004-3015 - Phone 234-8100.

Chairman of the Board D.C. Yearley
President, Phelps Dodge Corporation L.R. Judd

Western Operations

2600 N. Central Ave., Phoenix, AZ 85004-3015 - Phone 234-8100.

Vice President & General Manager J.L. Madson
Vice President, Manager Engineering Services

R.W. Rice

Controller, Phelps Dodge Mining R.G. Peru

Director of Employee Relations S.L. Marcus

Assistant Director of Employee Relations T.D.

McWilliams

Director, Materials Management R.G. Mock

Purchasing Agent C.R. Jennings

Traffic Manager J. Sheridan

Western/US Exploration

P.O. Box 50427, Tucson, AZ 85703-1427 Phone 792-4981.

Manager, US Exploration D.E. Ranta

Manager, Western Exploration Office R. B. Ludden

Exploration and Development Group

2600 N. Central Ave., Phoenix, AZ 85004-3015 - Phone 234-8100.

Senior Vice President P.J. Ryan

United Verde Mine T16N R2E Sec. 22

Inactive copper mine - Located at Jerome - Phone 634-2622.

Agent Andrew Peterson

Copper Queen Branch T23S R24E Sec. 15

Highway 92, Bisbee, AZ 85603 - Phone 432-3621 -

Employees: 34 - Mine dump leaching - Copper precipitation plant.

General Superintendent J.H. Ladd

Morenci Branch T4S R29E Secs. 3, 4, 5, 8, 9, 10, 15, 16, 17, 21, 22 & 23

Morenci, AZ 85540 - Phone 865-4521 - Employees: 1560

- Open pit copper mine - Two concentrators (one with

molybdenum circuit) - Total capacity 100,000 TPD -

650,000 TPY smelter with 2,400 TPD acid plant (inactive)

- Dump leaching - Precipitation plant - Solvent extraction-

electrowinning plant.

Manager J.G. Clevenger

Assistant Manager W.S. Chen

Superintendent of Mines Michael Allen

Superintendent of Concentrators R.I. Pennington

Superintendent SX-EW A.J. Broderick, Jr.

Mechanical and Electrical Supt. J.B. McBiles

Chief Engineer W.S. Brack

Chief Geologist F.J. Menzer

New Cornelia Branch T12S R6W Secs. 23, 26, 27

Ajo, AZ 85321 - Phone 387-7451 - Employees: 24 - Open

pit copper mine - 30,000 TPD concentrator with molyb-

denum circuit - 190,000 TPD smelter with acid plant - All inactive.

Plant Superintendent J.L. Armstrong

PHOENIX CEMENT COMPANY

Phoenix Office

2505 W. Beryl, P.O. Box 35395, Phoenix, AZ 85069 - Phone 264-0511 - Employees: 12.

President Paul Anderson

VP & Chief Financial Officer James E. Carmichael

Sales Manager Pete Kuehner

Clarkdale Quarry & Plant T16N R2E Sec. 11

P.O. Box 428, Clarkdale, AZ 86324 - Phone 634-2261 -

Employees: 130 - Quarry and plant two miles northwest of

Clarkdale - 630,000 TPY - Cement used for building industry -

Marketed in Arizona, New Mexico, Utah, and Nevada.

V.P. Operations/Plant Manager John B. Conway

Assistant Plant Manager/Maintenance Joe D'Avignon

Assistant Plant Manager/Engineering Tom Gibbons

Industrial Relations Manager Cliff Ayres

Controller Meg Slanski

Purchasing/Stores Frank Contreras

Environmental Engineer Bernie Ott

PINAL GYPSUM CORP.

White Cross Mine T7S R17E Sec. 31

P.O. Box 99, Coolidge, AZ 85228 - Phone 723-3131 -

Employees: 12 - Quarry four miles north of Mammoth -

Used for agricultural gypsum.

President Orin Benton

Vice President James Lewis

Vice President, Operations James Bechtel

QUEENSTAKE RESOURCES USA INC.

Gold Prince Mine T14S R27E Sec. 22

P.O. Box 217, 241 S. Haskell Suite 102, Willcox, AZ 85644

- Phone 384-4337 - Employees: 5 - Located 17 miles

southeast of Willcox - Underground gold mine - In develop-

ment to produce gold bearing silica flux for copper smelter.

President Gordon C. Gutrath

Mine Superintendent Alfred Voinir

Project Geologist Tim Pearson

RODDY RESOURCES ARIZONA INC.

U.S. Mine (Aka Big Horn) T4N R8W Sec. 1

P.O. Box 2406, Wickenburg, AZ 85358 - Phone 684-2865

- Employees: 25 - Located 25 miles southwest of Wicken-

burg - Open pit gold mine - Cyanide heap leach carbon

adsorption operation - 30,000 tons per month capacity.

General Manager Walter Cullum

Pine Nut T36N R4W Sec. 21

Located 45 miles southwest of Fredonia - Underground uranium mine - Developed - On standby.

Canyon T29N R3E Sec. 20

Located 45 miles north of Williams - Underground uranium mine - On standby - Development awaiting regulatory approval.

ENGELHARD CORPORATION

Chemical Division

Cheto No. 2 T21N R29E Sec. 23

Box 155, Sanders, AZ 86512 - Phone 688-2468, FAX 688-2485 - Employees: 11 - Located 6 miles southeast of

Sanders - Surface strip bentonite mine - Primary use is in

filters and catalysts, also used in agriculture and desiccants

- Shipped overseas and to Mississippi for processing.

General Superintendent Gary McDonald

FLAGSTAFF CINDER SALES INC.

Wildcat Hill Pit T21N R8E Sec. 9

P.O. Box 2415, E. Old Highway 66, Flagstaff, AZ 86003 -

Phone 526-0801 - Employees: 7 - Located 5 miles northeast

of Flagstaff - Cinder quarry - Aggregate, landscaping.

President and General Manager Bob Olivier

Sec./Treasurer (Sales and Office Manager) Mary

Lou Olivier

GSA RESOURCES INC.

P.O. Box 509, Cortaro, AZ 85652 - Phone 297-4330 -

Employees: (including contractors) 16.

President Ted H. Eyde

Vice President Daniel T. Eyde

Lyles Mine T13N R6W Secs. 11, 12

Open pit clay mine located west of Kirkland - Crude clay

used as viscosifiers and thickeners in pharmaceuticals and

cosmetics.

Grace Chabazite Mine T12S R29E Secs. 1, 2, 12

Open pit mine located 13 miles north of Bowie - Crude

chabazite used for cation exchange media and specialty

adsorbants and deodorizers - Shipped out of state for further

processing.

Cheto 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

desiccants.

Burro Creek Clay T14N R10W Sec. 7

Open pit saponite clay mine located 8 miles southwest of

Bagdad along Burro Creek - Saponite clay shipped out of

state for manufacture into viscosifiers for industrial

lubricants and coatings.

HARBORLITE CORPORATION

Superior Perlite T2S R12E Sec. 9

P.O. Box 960, Superior, AZ 85273 - Phone 689-5723 -

Employees: 7 - Plant located 2 miles west of Superior on

Silver King Mine Road south of railroad track - Perlite from

open pit mines - Markets in California, Michigan, and

Wyoming - Used in filtering for pharmaceuticals, chemi-

cals, sugar, and beverages - Also used as agricultural fer-

tilizer carrier.

Plant Manager Bill Smith

HARLEY GRAY STONE COMPANY

Flagstone Quarries

P.O. Box 323, Paulden, AZ 86334 - Phone 636-2436 (Pres-

cott 445-8253 or 445-3028) - Employees: 10 - Quarries

located 8 miles northeast of Drake - Flagstone, cut stone -

Marketed locally, throughout the United States, and ex-

ported.

Owner Harley Gray

Owner Carl Gray

HUDMAN STONE

M C Canyon Quarries T19N R1E Sec. 23

9640 W. Picture Rocks Road, Tucson, AZ 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

LITTLE HILL MINES INC.

Gold Hill Mine T10S R15E Sec. 5

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

Employees: 5 - Open pit mine - Located 6 miles southwest

of Oracle - Copper bearing silica flux for copper smelter.

President Dave McGee

General Superintendent Art Coughanour

McKUSICK MOSAIC

Weary Lode Mine T1S R15E Sec. 22

Route 1, Box 35-D, Globe, AZ 85501 - Phone 425-5051 or

425-8428 - Employees: 3 - Surface clay mine located 5

miles south of Globe - Tile and wind chime clay, cosmetic

additives, sealant, and slip glazing material.

Owners Robert & Charmion McKusick

Co-owner Kathleen Condit

MAGMA COPPER COMPANY

Corporate Headquarters

7400 N. Oracle Rd, Tucson, AZ 85704- Phone 575-5600

President and CEO J. Burgess Winter

San Manuel Mining Division T8S R16E Sec 34, 35

P.O. Box M, San Manuel, AZ 85631 - Phone 385-3100 -

Employees: 2151 - Underground copper-molybdenum mine - 62,000 TPD concentrator - Open pit oxide mine - In-situ leaching - Heap Leaching - Solvent Extraction-electrowinning plant.

General Manager Harry C. Smith

Manager Sulfide Mining Francisco E. Durazo

Manager Oxide Mining, Leaching & SX-EW Douglas R. McGregor

Superintendent Concentrator Gerald R. Burnskill

Manager Maintenance Wendell F. Pauling

Pinto Valley Mining Division T1N R14E Sec. 20

P.O. Box 100, Miami, AZ 85539 - Phone 425-7611 -

Employees: 620 - Open pit copper-molybdenum mine -

63,000 TPD concentrator - Dump leach - Solvent extraction

- electrowinning plant - In-situ leach - Tailings reclaim leach

- Solvent extraction electrowinning plant.

Vice President/General Manager W. Glen Martin

Manager Mining Operations Dan L. Goar

Superintendent of Miami Unit Leaching/SX-EW William A. Bennett

Superintendent Concentrator Operations Lorin D. Hallin

Superior Mining Division (Magma Mine) T1S R12E Sec 35

P.O. Box 37, Superior, AZ 85273 - Phone 689-2444 -

Employees: 275 - Underground copper mine - 3300 TPD

concentrator.

General Manager John H. Dorsey

Mine Superintendent Mike A. Werner

Mill Superintendent Patrick C. Finton

San Manuel Smelting Division T9S R17E Sec 32

P.O. Box M, San Manuel, AZ 85631 - Phone 385-3100 -

Employees: 1217 - 800,000 TPY flash smelter - 2000 TPY

acid plant - 300,000 TPY electrolytic refinery - 180,000

TPY continuous cast rod plant.

General Manager Tom L. Jordan

Manager Smelting J. D. McCain

Manager Refinery/Rod Casting Ralph Juvera

MAGMA GOLD LTD.

Subsidiary of Magma Copper Company

McCabe Mine T13N R1E Sec 30

P.O. Box 460, Humboldt, AZ 86329 - Phone 632-5165 -

Employees: 30 (100 when in full production) - Underground

mine - 600 TPD flotation mill (operating 7 days, 7 days off)

- producing sulfide concentrate containing copper and pre-

cious metals for San Manuel smelter.

General Manager Errol O. Anderson

General Group Leader Brian E. David

Manager Technical Services Richard Pate

Senior Engineer William Hawes

Purchasing Agent Larry Waugh

MALARTIC HYGRADE U. S. INC.

Congress Mine T10N R6W Sec. 23

P.O. Box 361, Congress, AZ 85332 - Phone 427-3393 -

Employees: 62 - Located 16 miles northwest of Wickenburg

- Underground gold mine - 350 TPD CIP mill.

General Manager Robert Stoughton

Chief Engineer Matt Christian

Mine Geologist Robert Prevost

Exploration Geologist Scott Petzel

Mill Superintendent Colin Kirkpatrick

Metallurgist Jim Weatherby

Maintenance Chief Al Roscigno

Chief Electrician Lowell Hatfield

Personnel and Safety Chief Fred Smith

Purchasing Agent Wayne Stoughton

MORTON SALT DIVISION

Morton International

Southwest Salt Mine T2N R1W Sec. 2

13000 W. Glendale Ave., Glendale, AZ 85307-2408 -

Phone 247-3000 - Employees: 27 - Solution mining via

wells - Solar evaporation of brines - Produces salt for water

softeners, domestic, agricultural, and industrial use - under-

ground solution cavities are used for propane and butane

storage.

Plant Manager Gary McFarlin

MOUNTAIN VIEW MINING, INC.

Chem-Stone, Inc.

2215 W. Mountain View, Phoenix, AZ 85021 - Phone

997-2013 - Employees: 60 - Pumice treatment plant -

Produces specialized ready to use pumice for the garment

industry.

President David L. Bellaire

Dead Eye Mines T21N R2E Secs. 4, 16

South Fourth Street, P.O. Box 783, Williams, AZ 86046 -

Phone 635-4211 - Pumice mine - Open pit mining of spe-

cialized pumice - Sizing plant.

Operations Manager Joe Brouder

NATIONAL GYPSUM COMPANY

Gold Bond Building Products Division

P.O. Box 20863, Phoenix, AZ 85036 - Phone 258-9321 -

Employees: 100 - Wallboard plant - Wallboard joint cement

plant.

Plant Manager H.E. Skelley

Office Manager J.C. Cassidy

Joint Cement Plant Manager Nick Tuhus

Feldman Quarry T6S R16E Sec. 27

Star Route, Box 3990, Winkelman, AZ 85292 - Phone

357-7180 - Employees: 8 - Open pit gypsum mine located

12 miles south of Winkelman - Gypsum used in plaster

board.

Quarry Superintendent Dennis Macovjak

NORD PERLITE COMPANY

Chicago Pit (AKA Nord Sil-Flo Pit) T2S R12E Sec. 16

Box 127, Superior, AZ 85273 - Phone 689-5631 -

Employees: 7 - Plant at Superior on Silver King Road north

of railroad track - Open pit perlite mine located two miles

southwest of Superior - Major markets are in Louisiana,

Illinois, Wyoming, Pennsylvania, Texas, and Indiana - Fil-

ter aid used in filtering pharmaceuticals, chemicals, sugar,

and beverages.

President Terence Lang

General Manager Andres Vaska

Production Manager Sam Cooper

Plant Manager Louis R. Lucero

ORACLE RIDGE MINING PARTNERS

P.O. Box 7, San Manuel, AZ 85631 - Phone 428-3775, wait

for tone 1009 - Employees: 60

Oracle Ridge Mine T11S R16E Sec. 16

Underground copper, gold, silver mine - Column flotation

mill - 850 TPD - Ships concentrates to custom smelter.

General Manager Tom Olsen

Mine Manager Ron Johnson

Controller Wally Buckley

Purchasing Manager Art Mitchell

Maintenance Foreman Troy Black

PEABODY COAL COMPANY

Flagstaff Office

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

President Dennis L. Stevenson

General Supervisor, Operations Sil Perla

Director of Human Resources L.W. Bennett

Director of Engineering Frank Farnsworth

Division Materials Manager Merle Hendricks

Controller Rich Armstrong

Manager, Quality Control Charles J. Stenftenagel

Manager, Reclamation Wayne E. Hilgedick

Black Mesa Mine T35N R18E Sec. 5

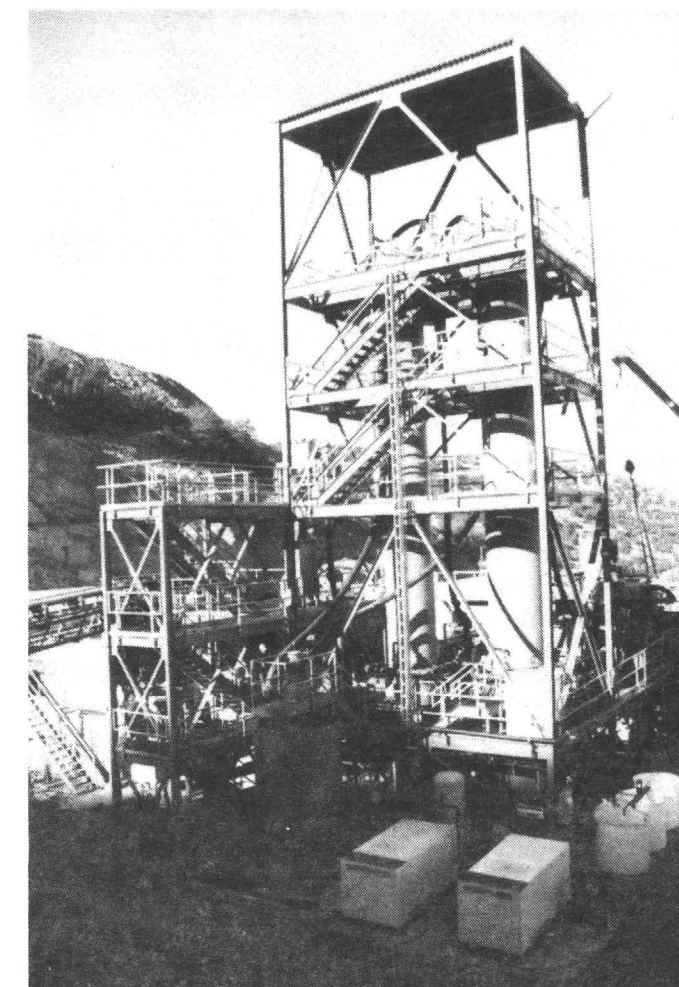
P.O. Box 605, Kayenta, AZ 86033 - Phone 677-5040 -

Employees: 350 - Surface coal mine - Located ap-

proximately 30 miles southwest of Kayenta.

Mine Superintendent Lewis Allan Gough

Assistant Superintendent Lee Quarcelino



Column flotation mill at Oracle Ridge Mine.

Safety Supervisor Barry Grass

Safety Supervisor Kieth Grass

Safety Supervisor Tony Benally

Kayenta Mine T36W R18E Sec. 9

P.O. Box 606, Kayenta, AZ 86033 - Phone 677-5008 -

Employees: 509 - Surface coal mine - Located 30 miles

southwest of Kayenta.

Mine Superintendent Joe Johnson

Assistant Superintendent Robert D. Boone

Safety Supervisor Daniel Ashike, Jr.

Safety Supervisor Martha Ignacio

Safety Supervisor Joe Holgate