

DIRECTORY OF ACTIVE MINES IN ARIZONA

(INCLUDES SAND AND GRAVEL PRODUCERS)



ARIZONA DEPARTMENT OF MINERAL RESOURCES
JOHN H. JETT, DIRECTOR

DECEMBER -- 1978

BY
ANN TURNEY
ADMINISTRATIVE ASSISTANT

PHOENIX OFFICE

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

TUCSON OFFICE

STATE OFFICE BUILDING
ROOM 208, 415 W. CONGRESS
TUCSON, ARIZONA 85701
(602) 882-5399

BOARD OF GOVERNORS

CURTIS J. RITTER
Chairman - Kirkland
(Term expires January 31, 1980)

CURTIS A. JENNINGS
Vice Chairman - Phoenix
(Term expires January 31, 1979)

RICHARD C. COLE
Secretary - Pinetop
(Term expires January 31, 1983)

THOMAS A. CLARY
Miami
(Term expires January 31, 1982)

ED PELOW
Tempe
(Term expires January 31, 1981)

JOHN H. JETT
Director
Department of Mineral Resources

ACTIVE MINES IN ARIZONA

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THE ANACONDA COMPANY

MINERAL RESOURCES GROUP

I-10 & Kolb Road, P.O. Box 27007, Tucson, 85726 - Phone 889-5361
Metallurgical research facility with small geology department.

Manager, General Services	Frank Traversone
Manager, Analysis & Extraction, Metallurgical Research Group	W. R. Stern
Manager, Process Research, Metallurgical Research Group	C. Arentzen
Manager, Process Development, Metallurgical Research Group	W. B. Davis
Project Leader - In Situ Metal Extraction	J. K. Grunig
Director of Geological Laboratories	H. A. Vincent

ANAMAX MINING COMPANY

TWIN BUTTES MINE

P.O. Box 127, Sahuarita 85629 - Phone 884-7845 (Tucson) - Employees 1400
Open Pit and Underground Copper Mine, Concentrator, Electrowinning Plant -
Agitation Leach Plant, Copper, Molybdenum - Molybdenum Recovery Plant

President	P. A. Hodges
Vice President, Controller	R. E. Mielbeck
Vice President, Mining	G. R. Wyman
Vice President, Metallurgy	D. K. Mortensen
Director, Industrial Relations	J. P. Pejanowski
Manager, Central Engineering	F. B. Brost
Manager, Engineering Services	S. N. Buckner
Manager, Operational Accounting	Ken Rooker
Manager, General Accounting	Ed Delgado
Manager, Taxes and Insurance	Harold Metz
Manager, Underground Projects	L. Pollish
Manager, Information Systems	D. M. Renshaw
Manager, Mine Maintenance	J. W. Rosson
Superintendent, Oxide Plant	R. F. Frantz
Superintendent, Mine	S. A. Hanson
Superintendent, Sulfide Plant	S. S. Stillar
Chief Counsel	J. A. Frankovich
Chief Geologist	J. L. Kelly
Chief Mine Engineer	David C. Naccarati
Chief Chemist	D. E. Wood
Director, Loss Prevention	G. H. Johnson
Director, Purchasing, Material Control & Traffic	J. Garay
Director, Land Management & Environmental Control	Don Russell
Director, Scheduling	H. R. Paloutzian
Chief Metallurgist	E. E. Krist

ARIZONA PORTLAND CEMENT COMPANY

P.O. Box 338, Rillito 85246 - Phone 622-3503 - Employees 300 - Limestone quarry 5 miles from plant - Lime - Cement - Annual Capacity 1,300,000 Tons Cement

Plant Manager	Frank Thornberry
Plant Chemist	J. Boyette
Plant Engineer	Les Claire
Chief Electrician	Jack Meeler
Office Manager	Don Morkert
Quarry Foreman	Dominic A. Chiaro
Assistant Quarry Foreman	Chuck Hansen
Purchasing Agent	Paul Cowan

ARIZONA SILICA SAND COMPANY

P.O. Box 108, Houck 86506 - Phone 688-2602 - Employees 9 - Open Pit Mine - Plant south of Houck - Hydrafrac Sand - Oil well fracturing, markets include New Mexico, Utah and California

President	Del W. Fisher
Vice President	Robert Fisher
General Manager	Elmer Gilstrap
Superintendent	Ralph Nelson

ASARCO

TUCSON

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

Western Mining Department

General Manager, Western Mining Department	Charles W. Campbell
Assistant to V.P. & Chief Geologist	S. A. Anzalone
Assistant to General Manager	J. R. Stringham

Mineral-Beneficiation Department

Director	Donald E. Crowell
Chief Metallurgist	Thomas D. Henderson

Exploration Department

Manager, Western U.S.A.	W. L. Kurtz
Manager, Southwestern U.S.A. Division, Western Exploration Department	F. T. Graybeal
Property Engineer	R. B. Crist

Southwestern Mining Department

Manager	Tom E. Scartaccini
Director of Industrial Relations	James G. Moore

ASARCO - TUCSON (cont.)

Southwestern Ore Purchasing Department

Manager	A. J. Kroha
Assistant Manager	James N. Lambe
Administrative Assistant	Margie Hinton

Department of Safety & Technical Employment

General Safety Engineer	Art Schaefer
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HAYDEN UNIT

Box 98, Hayden 85235 - Phone 356-7804 - Employees 650 - Copper smelter capacity 960,000 TPY - Acid plant capacity 1,000 TPD

Manager	L. G. Cahill
General Superintendent	D. J. Parker
Assistant General Superintendent	W. D. Marczeski
Plant Engineer	L. DiPastena
Accounting Manager	R. A. Moon
Purchasing Agent	K. C. Newnam

MISSION UNIT

Box 111, Sahuarita 85629 - W. Pima Mine Road - Phone 622-4891 - Employees 800
Open Pit Copper Mine - Precipitation Plant - Concentrator - Dump Leaching

Manager	R. S. Herde
Superintendent	S. L. Burrill
Mine Superintendent	W. D. Gay
Chief Engineer	G. H. Bloomfield
Chief Geologist	L. J. Jansen
Mechanical Superintendent	C. W. McClain
Mill Superintendent	H. W. Walker
Purchasing Agent	L. J. Schiller

SAN XAVIER UNIT

Open Pit Copper Mine operated by Mission Unit.

SAGATON UNIT

P.O. Box V, Casa Grande 85222 - Maricopa Road - Phone 836-2171 - Employees 305
3 miles northwest of Casa Grande - Open Pit Copper Mine - Concentrator

Manager	T. R. Edwards
Mine Superintendent	J. B. Lichtenhan
Mill Superintendent	L. I. Braunbeck
Chief Engineer	Milton Melcher
Resident Geologist	Robert Cummings
Mechanical Supervisor	Jack P. Smith
Chief Accountant	Meryln Beebe
Purchasing Agent	W. B. Manakee

ASARCO - (cont.)

SILVER BELL UNIT

Silver Bell 85270 - Phone 622-6751 - Employees 305 - Open Pit Copper Mine-
Concentrator - Dump Leach - Precipitation Plant

Manager	D. R. Jameson
General Superintendent	B. K. Malone
Chief Engineer	R. A. Barnes
Mill Superintendent	D. J. Duncan
Mechanical Superintendent	Donald Shea
Resident Geologist	Jim Galey
Purchasing Agent	C. R. Henry
Chief Accountant	George Myers

CITIES SERVICE COMPANY

MIAMI OPERATIONS

P.O. Box 100, Miami 85539 - Phone 425-7611 - Employees 804 - Open Pit
Copper Mine - Concentrator - Underground Leach - Dump Leach - Solvent
Extraction - Electrowinning

Vice President	C. T. Brown
General Manager	R. P. Hughes
Manager of Administration	Gene Nichols
Manager of Employee Relations	D. D. Rickabaugh
Manager of Planning	J. J. Spencer
Manager of Operations	G. E. Napp
Project Manager, Miami East	J. A. Brandon
Manager, Engineering and Construction	C. E. Chiasson
Manager, Technical Services	A. D. Kennedy
Manager, Maintenance	N. B. Gillespie
Acting Mine Superintendent, Pinto Valley	D. L. Goar
Concentrator Superintendent, Pinto Valley	W. G. Slack
Maintenance Superintendent	E. I. Osborn
Leaching Superintendent	B. M. Frazier
Purchasing Agent	B. L. Beydler
Employee Relations Assistant	G. C. Bocardo

CONGRESS CONSOLIDATED GOLD MINING COMPANY

CONGRESS MINE

1219 S. 19th Ave., Phoenix 85009 - 3 miles north of Congress - Phone 254-6494
Employees 8 - UNDER DEVELOPMENT - Gold and Silver Heap Leaching with Cyanide

President	D. W. Jaquays
Vice President	D. R. Lindsay
Secretary	Ethelyn Jaquays
Treasurer	P. F. Cory
Superintendent	J. L. Kleiner

CONTINENTAL OIL COMPANY MINERALS DEPARTMENT

FLORENCE PROJECT

P.O. Box 649, Florence 85232 - Phone 868-5852 - Copper Mine at Florence
UNDER DEVELOPMENT

Field Superintendent Bob Linton
Secretary Shirley Padilla

COCHISE MINING CORPORATION

SAN JUAN MINE

P.O. Box 369, Safford 85546 - 8 miles north of Safford - Phone 428-2231 -
- Employees 10 - Open Pit Copper Mine - Dump Leach - Precipitation Plant

President George Ward
Vice President & Manager Ralph W. Morrow
Chief Chemist & Metallurgist Jim Williams
Chief Engineer Bob Wynne

COPPER HILL MINE

Box 752, Globe 85501 - Phone 425-7006 - Employees 10 - Silica Flux for
copper smelters

Contractor-Lessee Charlie Nichols

CYPRUS MINES CORPORATION

55 E. Thomas Road, Phoenix 85012 - Phone 263-9407

Director David C. Lincoln

CYPRUS BAGDAD COPPER COMPANY

P.O. Box 245, Bagdad 86321 - Phone 633-2241 - Employees 750 - Open Pit
Copper Mine - Sulphide Concentrator - Dump Leach - Solvent Extraction and
Electrowinning Plant

General Manager R. C. Bogart
Assistant General Manager M. M. McGee
Mine Manager R. J. Bonnis
Concentrator Manager K. C. Apland
Solvent Extraction Manager R. L. Jones
Engineering and Construction Manager H. W. Smith
Maintenance Superintendent Claude Murphy
Maintenance Superintendent - Concentrator R. T. Comstock
Operations Superintendent A. G. Austin
General Mine Superintendent T. D. Vaughn
Drill, Blast and Engineering Superintendent M. E. Gillo

CYPRUS BAGDAD COPPER COMPANY (cont.)

Exploration and Development Director P. K. Medhi
Purchasing and Warehousing Manager J. P. Cafn
Controller J. C. Ryan

CYPRUS JOHNSON COPPER COMPANY

P.O. Drawer "R", Benson 85602 - Phone 586-2241 - Employees 66 - Open Pit
Copper Mine - Heap Leach - Solvent Extraction - Electrowinning Plant - 5
miles north of Dagoon

General Manager J. O. Sierakoski
Mining Engineer George Schuler
Mine Superintendent John Rolando
Plant Superintendent Richard Aros
Metallurgist William Rudy
Purchasing Agent Charley Burleson
Office Manager D. L. Zimmerman

CYPRUS PIMA MINING COMPANY

P.O. Box 7187, Tucson 85725 - Pima Mine Road, 12 miles south of Tucson -
Phone 792-1200 - Employees 35 - Open Pit Copper-Molybdenum Mine - Concentrator

Vice President & General Manager G. A. Komadina
Acting Resident Manager Rolf Hanson
Mill Superintendent Harold Sorstokke
Acting Mine Superintendent Del Rich
Electrical Superintendent Charlie Craven
Chief Geologist Don R. Williamson
Treasurer Don Tremper

DENNING MINING COMPANY

ANTELOPE MINE

Why 85321 - Phone 387-6240 - Employees 3 - Open Pit Mine - Silica Flux for
Ajo Smelter.

Owner-Operator Virgil Denning &
Sons

DUNBAR STONE COMPANY

P.O. Box 246, Ashfork 86320 - 716 Lewis - Quarries in Yavapai and Coconino
Counties - Phone 637-2592 - Employees 25 - Flagstone, sand and gravel, redi-
mix, decorative flagstone, sold in and out of state.

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

DUVAL CORPORATION

TUCSON OFFICE

4715 E. Ft. Lowell Road, Tucson 85712 - Phone 881-6200 - Employees 112

Chairman of the Board & Chief Executive Officer . . .	G. E. Atwood
President - Houston	D. J. Bourne
Sr. Vice President - Operations	A. E. Smith
Sr. Vice President - Planning	R. A. Hardy
Vice President - Production	T. H. Pate Jr.
Vice President - Special Projects	D. E. Cochran
Vice President - Development	E. D. Bowman Jr.
General Manager	S. H. Martin
General Manager - Exploration	J. I. Sharpe
Manager, Minerals Acquisition	R. F. Teissere
Manager, Process Technology	R. W. Livingston
Manager, Mine Planning	T. Jancic
Manager, Mining Methods	J. F. Shahan
Manager, Maintenance Methods	W. H. Long
Manager, Electrical Engineering	A. T. Jones
Manager of Materials	G. R. Kemp
Manager, Safety	E. L. Gay
Manager, Development	K. E. Elers
Manager, Environmental Affairs	A. Gomez
Manager, Health Affairs	R. L. Brown
Public Relations Representative	D. W. Lynch
Director of Industrial Relations	M. H. Campbell
Assistant Director of Industrial Relations	S. L. Vaughn

MINERAL PARK DIVISION

P.O. Box 3009, Kingman 86401 - Phone 565-2226 - Employees 410 - 7 miles north of Kingman - Open Pit Copper & Molybdenum Mine - Concentrator - Heap Leach - Precipitation Plant

Resident Manager	W. J. Roper
Mine Superintendent	K. K. Kelley
Mill Superintendent	Tom Chowns
Mine Engineer	G. P. Boone
Plant Maintenance Superintendent	M. R. Miller
Purchasing Agent	G. F. Cummins

ESPERANZA AND SIERRITA PROPERTIES

P.O. Box 125, Sahuarita 85629 - 32 miles south of Tucson - Phone 884-7830
Employees 2089 - Open Pit Copper & Molybdenum Mines - 2 Concentrators -
Ferromolybdenum Plant

General Manager	H. L. Shively
Manager Mining	K. L. Lamb
Manager Milling	C. G. Janes
Manager Plant Maintenance	F. W. Schweitzer

DUVAL CORPORATION (cont.)

Mine Production Superintendent	L. R. Fletcher
Mine Engineering Superintendent	W. H. Dunkel
Mine Maintenance Superintendent	R. J. Arnold
Concentrator Superintendent - Sierrita	R. L. Bevers
Metallurgical Superintendent	L. M. Johnson Jr.
Plant Superintendent, CLEAR Plant	A. E. Shiell
Mill Superintendent - Esperanza	J. Beck
Mine Engineer	C. D. Iles
Administrative Assistant	J. K. Peters
Purchasing Agent	J. L. Dempsey
Industrial Relations Superintendent	J. W. Fortson

FILTERS INTERNATIONAL INC.

CHICAGO PIT (Old Cliff)

Box Z, Superior 85273 - Plant at Superior on Silver King Mine Road -
Phone 689-5631 - Employees 6-8 - Open Pit Mine 2 miles southwest of Superior -
Perlite - Major market in Louisiana, Illinois, Wyoming, and Texas - Filter
Aid - Used in filtering for pharmaceuticals, chemicals, sugar and beverages

General Manager	Lewis Williams
Foreman	Thomas Williams

FILTROL CORPORATION

CHEETO NO. 2

Box 155, Sanders 86512 - 2 miles east of Sanders - Phone 688-2736 - Strip
Mine - Bentonite - Main use in filter industry. Some is used in agriculture
and shipped overseas. Also shipped to Utah and Mississippi.- Employees - 9.

General Superintendent. Alden Jack

FLAGSTAFF CINDER SALES INC.

WILDCAT HILL PIT

P.O. Box 2796, Old Highway 66, Flagstaff 86003 - 5 miles northeast of Flagstaff -
Cinder Quarry and Bagging Plant - Aggregate Landscaping and Block Plants.
Employees 20 - Phone: 526-0801.

Manager Ron Oliver

THE FLINTKOTE COMPANY
U. S. LIME DIVISION

NELSON QUARRIES & PLANT

P.O. Box 197, Peach Springs 86434 - Phone 422-3216 (Seligman) Employees-55

THE FLINTKOTE COMPANY

U. S. LIME DIVISION

(cont.)

Limestone Quarry - 1800 tons per day of lime - Lime Plant - Lime for Processing and Building Industry, marketed in Arizona, California and other states. Most goes to copper industry.

Manager Tom Roberts
Quarry Superintendent James Osborne
Production Superintendent Phillip Bravo
Maintenance Superintendent Jerry Brown

GILBERT CONSTRUCTION COMPANY

P.O. Box 5288, Bisbee, 85603 - 204 E. Vista, Warren - Quarry 1 mile north of Don Luis - Phone 432-2078 - Employees 17 - Silica Flux - 600 tons per day for copper smelter.

President A. J. Gilbert Jr.
Vice President A. J. Gilbert III
Foreman W. Whisman

GUZMAN CONSTRUCTION

P.O. Box 7, Superior 85273 - Pit 2 miles west of Superior - Phone 689-5632 - Employees 30-35 - Perlite.

President Mike Guzman Sr.
Vice President Mike Guzman Jr.
Secretary Virginia Guzman

HARBORLITE INC.

SUPERIOR MINE

P.O. Box 960, Superior 85273 - Plant located 2 miles west of Superior on Silver King Mine Road - Phone 689-5723 - Employees 4-6 - Perlite from open pit mines - Markets in California and Michigan - Used in filtering for pharmaceuticals, chemicals, sugar and beverages. Also used as agricultural fertilizer carrier.

Plant Manager Fred McVean

HEMPHILL BROTHERS INC.

P.O. Box 229, Kingman 86401 - Phone 757-2780 - Employees 15 - Open Pit High Purity Quartz Mine - Mill

President W. M. Hemphill
Superintendent James Brewer
General Manager Roy Guertin

INSPIRATION CONSOLIDATED COPPER COMPANY

First National Bank Plaza, Suite 1870, 100 W. Washington, Phoenix 85003
Phone 258-4561

Public Affairs Coordinator R. J. Pursley

INSPIRATION

Inspiration 85577 - Phone 473-2411 - Employees 2,000 (approx.) - Open Pit
Copper Mines - Dump Leach - Vat Leach - Concentrator - Electrowinning Plant -
Rod Plant - Acid Plant - Smelter, 450,000 TPY Capacity.

Deputy General Manager	Burgess Winter
Manager, Plant Operations Division	James B. Holman
Manager, Technical Services Division	Donald S. Skufca
Manager, Mining Operations Division	Thomas M. Anderson
Manager, Metallurgical Services Division	Jacob Timmers
Manager, Personnel Services Division	Duncan MacDonald
Acting Manager, Smelter Operations Division	Henry Straw
Manager, Development Services Division	John G. Kuhn
Manager, Administrative Services Division	James C. Franklin
Manager, Long Range Planning	Peter Richardson
Mine Maintenance Superintendent	Richard V. Trusty
SX Plant Superintendent	Sherman P. Quale
Superintendent, Leaching & Refining	Gerald F. Fountain
Concentrator Superintendent	Russell Hoar
Crushing Plant Superintendent	James H. Lundy
Superintendent, Engineering	Roger E. Martin
Maintenance Superintendent	John C. Lorenzen
Property Superintendent	Thomas J. Montgomery
Chief Resident Geologist	John T. Eastlick
Chief Exploration Geologist	Hugh W. Olmstead
Project Engineer	Carter E. Nelms
Chief Chemist	Leonard D. Vanell
Director of Environmental Controls	Mark Anderson
Director of Community Relations	Johnny Gregovich
Purchasing Agent	Joseph M. Fentress
Director of Industrial Hygiene	Ralph V. Bamerio
Director of Safety & Security	Dorman A. Reed
Director of Research	Dr. John Clarkson

OX HIDE MINE

Phone 473-4577 - Open Pit Copper Mine

JAQUAYS MINING CORPORATION

EL DORADO MINE

Box 328, Globe 85501 - Mine 33 miles northeast of Globe, mill at Globe -
Phone 425-6381 (Globe), 254-6494 (Phoenix) - Employees 22 - Underground Mine,
Low Iron, Chrysotile - Filter asbestos for filter industry - Out of Arizona
markets.

JAUQUAYS MINING CORPORATION (cont.)

President & General Manager	D. W. Jaquays
Mining Superintendent	Frank Stephenson
Mill Foreman	Viviano Saucedo
Bookkeeper.	Harold Cain

KENNECOTT COPPER CORPORATION

RAY MINES DIVISION

General Offices, smelter, concentrator - Hayden; Open pit copper mine, vat leach, precipitation plant, electrowinning plant - Ray. Phone 356-7811 - Hayden; 363-5531 - Ray. Smelter - 360,000 ton capacity. Employees 1,875.

General Manager	W. H. Jensen
Public Relations Director	J. H. Maize
Director of Safety & Environmental Control	J. T. Mortimer
Quality Control Director	L. A. Davis
Industrial Relations Director	L. Disera
Controller	W. B. Stump
Purchasing Agent	J. L. Sharrah

Plant

Reduction Plant Superintendent	J. S. Nebeker
Smelter Superintendent	Donald J. Nelson
Mill Superintendent	William R. Strickland
Reduction Plant Chief Engineer	J. A. Cooper
Reduction Plant Maintenance Superintendent.	R. A. Barrass

Open Pit

Mines Plant Superintendent	C. K. Vance
Assistant Operations Superintendent	S. F. Johnson
Mines Plant Chief Engineer.	J. C. Larimore
Leaching Operations Superintendent	D. J. Quinn
Mine Plant Maintenance	D. J. Justensen
Division Geologist	N. A. Gambell

LITTLE HILLS MINES INC.

COLD HILL MINE

P.O. Box 332, Oracle 85623 - Open Pit Mine 6 miles southwest of Oracle - Phone 896-2245 - Employees 9 - Copper-silica flux for copper smelter.

President	Dave McGee
General Superintendent	Art Coughanour

MAGMA COPPER COMPANY

SAN MANUEL DIVISION

Box M, San Manuel 85631 - Underground copper mine 8 miles northwest of San Manuel - Phone 385-2201 - Employees 4,105 - Smelter capacity 800,000 TPY - Acid Plant - 2,000 TPD - Electrolytic Refinery capacity 200,000 TPY.

Chairman of the Board	W. P. Goss
President (New York)	W. H. Burt
Executive Vice President	W. L. Parks
General Manager	J. W. Goss
Assistant Manager	T. E. Hearon
Controller	G. P. O'Brien
Public Relations Officer	F. R. Harris
Manager, Plant Operations	J. D. McIver
Manager, Engineering & Technical Services	J. R. Tinnin
Mine Manager.	H. W. Seaney
Superintendent, Mine Planning	M. A. Zappia
Superintendent, Development	R. L. Zergal
Mill Superintendent	G. W. Dopson
Refinery Superintendent	K. D. Parks
Metallurgical Director	D. E. Zabel
Chief, Planning & Geological Engineering	L. A. Thomas
Director of Procurement and Warehousing	W. J. Mewha
Purchasing Agent	C. D. Wavrek
Director of Safety & Industrial Hygiene	W. G. Wood
Director of Environmental Affairs	D. C. Ridinger
Accounting Manager	R. A. Lee
Manager, Personnel Service	R. Skiba

SUPERIOR DIVISION

P.O. Box 37, Superior 85273 - Phone 689-2444 - Employees 1,200 - Magma Underground Mine - Concentrator - 3,300 tons per day - Copper

Assistant to President	T. G. Chilton
General Manager	C. G. Freeman
Assistant General Manager	F. M. Florez
Mine Superintendent	Joe Scheuering
Mill Superintendent	R. E. Gamble
Maintenance Superintendent	R. G. Schaal
Chief Engineer	Walter Martin
Chief Geologist	R. N. Webster
Purchasing Agent	R. L. Medlock
Office Manager	A. Merten
Sr. Personnel Administrator	R. C. Westerfield
Chief Safety Engineer	N. S. Barajas
Chief Warehouseman	Paul Sullivan

MCFARLAND-HULLINGER

WINKELMAN PLANT

P.O. Box 811, Tucson 85702 - Plant and Quarry at Winkelman - Phone 356-7684

MCFARLAND - HULLINGER (cont.)

General Manager W. D. Nelson

HAYDEN QUARRY

Hayden 85235 - Rear of ASARCO Smelter - Limestone Flux

TIGER MINE TAILINGS

Two miles southwest of Mammoth - Reworking Tailings - Silica Flux - Employees for both plants - 9

ROBERT E. MCKEE INC.

P.O. Box 107, Peach Springs 86434 - 4 miles east of Peach Springs -
Phone 769-2364 - Dolomite Quarry - Used for railroad ballast

Superintendent Whitey Bradley

NATIONAL GYPSUM COMPANY

P.O. Box 20863, Phoenix 85036 - Gypsum Quarry located near Feldman -
Phone 258-6106 & 258-5470 (Shop)

Office Manager (Purchasing) Wallace McElyea

WINKELMAN GYPSUM PIT

Star Route Box 89, Winkelman 85292 - Open Pit Mine located at Feldman
Phone 356-7180 - Employees 11 - Gypsum used in plaster board.

Plant Manager David Steele
Mine Superintendent Nelson Cluff

ORACLE RIDGE MINING PARTNERS

P.O. Box 983, Oracle 85623 - Located 17 miles southwest of San Manuel on
north side of Catalina Mountains) - Phone 791-9841 - Employees 89 - UNDER
DEVELOPMENT - Underground copper mine and concentrator.

Project Manager Richard C. Laird
Mine Superintendent Dennis Blanchette
Geologist Charles Hagegeorge

PAUL LIME DIVISION
CAN-AM CORPORATION

Drawer T, Douglas 85607 - Quarry and Plant at Paul Spur - Phone 364-2429
570 Tons Per Day Capacity - 3 Lime Kilns - Lime for use in copper processing
plants - Employees 54.

President	Robert A. Barbero
Operations Manager	Howard Gorball
Purchasing Agent	C. T. "Tom" Bishop
Secretary/Treasurer	Harold Hansen

PEABODY COAL COMPANY

FLAGSTAFF OFFICE

2224 E. Cedar Ave., Flagstaff 86001 - Phone 779-0375

Vice President of Operations	K. R. Moore
Vice President & Controller	G. D. Grow
Vice President - Human Resources	R. F. Revitte
Vice President - Marketing	J. P. Smith
Director of Engineering	Frank Farnsworth
Director of Purchasing	Merle Hendricks

BLACK MESA #1

P.O. Box 605, Kayenta 86033 - Surface Coal Mine approximately 25 miles southwest of Kayenta - Phone 677-3203 - 677-3205 - Employees 360

Director of Operations	G. S. "Sam" Shiflett
Mine Superintendent	Joe Johnson
Assistant Superintendent	Gary "Skip" Rader
Safety Superintendent	Robert Gibbs
Chief Mine Clerk.	Marlene Shondee

KAYENTA MINE

P.O. Box 606, Kayenta 86033 - Phone 677-3208 - Employees 335 - Surface Coal Mine

Director of Operations	G. S. "Sam" Shiflett
Mine Superintendent	Sil Perla
Assistant Superintendent	Delbert Hukill
Safety Superintendent.	Brad Brown
Chief Clerk.	Marcella Hill

PHELPS DODGE CORPORATION

WESTERN OPERATIONS OFFICE

P.O. Box 1238, Douglas 85607 - Phone 364-8451

Sr. Vice President & General Manager	A. H. Kinneberg
Vice President & Assistant General Manager	S. C. Holmes
Vice President.	M. P. Scanlon
Office Manager	H. H. Salzbrenner
Assistant Controller.	N. S. Balich

PHELPS DODGE (cont.)

Chief Mechanical Engineer Dr. R. E. West
Chief Geophysicist, Western Operations A. M. Hauck, III

P.O. Box 9, Douglas 86707

Controller, Western Operations H. M. Visick

P.O. Box 1178, Douglas 86707

Director of Labor Relations J. H. Ladd

P.O. Box 1278, Douglas 86707

Purchasing Agent, Western Operations H. C. Zamar

P.O. Box 1217, Douglas 86707

Manager Western Exploration Operations R. W. Ludden Jr.
Director of Geological Lab, Western Operations Dr. S. A. Williams

P.O. Box 1199, Douglas 86707

Western Traffic Manager F. C. Madden

DIVISION OF ENVIRONMENTAL ENGINEERING & RESEARCH

P.O. Box 2265, Tucson 85702 - Phone 792-2874

Director, Department of Environmental & Energy
Matters J. E. Foard
Director, Environmental Engineering & Research Dr. J. L. Dick

DOUGLAS REDUCTION WORKS

Drawer E, Douglas 85607 - Phone 364-2441 - Employees 427 - Smelter
Capacity 700,000 tons - Copper

Superintendent W. L. Gage
Plant Engineer A. F. Hallett
Master Mechanic B. F. Kenyon
Supply Department Head C. E. Stapp
Agricultural Ecologist. E. F. Haase
Head, Safety & Employment S. T. Sorich

COPPER QUEEN BRANCH

Highway 92, Bisbee 85603 - Phone 432-3621 - Employees 96 -
Underground Leach - Copper - Precipitation Plant

Superintendent Keith Coke

PHELPS DODGE CORPORATION (cont.)

MORENCI BRANCH

Morenci 85540 - Phone 865-3772 - Employees 2,689 - Two Open Pit Copper Mines - Two Concentrators - Smelter capacity 900,000 tons, Acid Plant 2,500 tons - Tailings Leach Plant - Precipitation Plant.

Manager	J. L. Bolles
General Superintendent	R. E. Rhoades
Mine Superintendent (Morenci)	L. D. Olson
Mine Superintendent (Metcalf)	C. J. Forstrom
Concentrator Superintendent (Metcalf)	W. S. Hannan
Concentrator Superintendent (Morenci)	A. J. Broderick
Smelter Superintendent	S. W. Towle
Mechanical & Electrical Superintendent	F. C. Berra
Chief Engineer	J. L. Madson
Research Superintendent	G. W. Clevenger
Chief Accountant	J. Y. Cuthbertson
Supply Department Head	J. T. Gentry
Mine Master Mechanic	E. B. Edwards
Employment Agent	H. W. Bacon
Safety Engineer	R. R. Aker

METCALF MINE

Open Pit Mine - See Morenci above for key personnel.

NEW CORNELIA BRANCH

Ajo 85321 - Phone 387-7451 - Employees 1,024 - Open Pit Copper Mine - Concentrator - Acid Plant - Smelter - Capacity of smelter 250,000 tons per year.

Manager	D. H. Orr
General Superintendent	A. L. Alexander
Mine Superintendent	C. V. Troutman
Concentrator Superintendent	J. L. Shore
Smelter Superintendent	J. M. Robertson
Chief Engineer	J. M. Sudler
Master Mechanic	J. B. McBiles
Chief Accountant	R. E. Darnell
Supply Department Head	J. C. Steel
Resident Geologist	R. L. Boatman
Employment Agent	J. E. Breen

SAFFORD BRANCH

Box 151, Safford 85546 - Phone 428-6900 - Employees 114 - Underground Copper Mine - UNDER DEVELOPMENT.

Mine Superintendent	J. A. Riddle
Chief Engineer	R. B. Nichols
Chief Accountant	Terrel Davis
Master Mechanic	M. L. Hinkins

PHOENIX CEMENT COMPANY
Division Amcord Inc.

PHOENIX OFFICE

3550 N. Central Ave., Suite 1501, Phoenix 85012 - Phone 264-0511

President	Raymond A. Quadt
Vice President, Administration	Don O. LeGate
Vice President, Finance	Kent R. Greenwald
Sales Manager	John N. Stoss
Manager of Marketing Services & Distribution	James W. Miller
Manager, Marketing	Carl L. Thomas

CLARKDALE PLANT

P.O. Box 428, Clarkdale 86324 - Quarry and plant 2 miles northwest of Clarkdale - Phone 634-2261 - Employees 145 - 550,000 tons per year.

Vice President, Manufacturing	J. E. Conway
Plant Manager	Tom Retherford
Quarry Superintendent	John G. Leibert
Maintenance Superintendent	Joe E. D'Avignon
Production Superintendent	C. J. Jones
Administrative Superintendent	W. J. St. Clair
Purchasing Superintendent	Kelly R. Rodie
Pack House Superintendent	A. Clyde Hanch
Construction Engineer	Keith W. Miller
Supervisor of Quality	Robert R. McGilvray

PINAL-MAMMOTH GYPSUM

2020 S. 9th Street, Coolidge 85228 - Mine 6 miles north of Mammoth - Phone 723-3131 - Employees 5 - Agricultural Gypsum.

President R. D. Bechtel

RANCHERS EXPLORATION & DEVELOPMENT COMPANY

BLUEBIRD MINE

P.O. Box 880, Miami 85539 - 3 miles west of Miami - Phone 473-4405 - Employees - 78 - Open Pit Copper Mine - Dump Leach - Solvent Extraction Plant - Electrowinning Plant.

General Manager	George Van Etten
Plant Manager	Mike Attaway
Mine Foreman	Larry Maynard
Master Mechanic	Joe Dalley
Office Manager & Purchasing Agent	Robert Barte
Metallurgist	John Davis

SOUTHWEST SALT COMPANY

P.O. Box 1237, Litchfield Park 85340 - Phone 247-3000 - Employee 16 -
Solution Mining - Wells - Salt for water softeners, domestic and industrial,
tannery.

General Manager G.J. Grott

SUPERIOR COMPANIES

2402 S. 19th Ave., Phoenix 85009 - Phone 253-2116 - Redimix Plant

President William O. Fisher
Secretary-Treasurer William J. Kessler
Vice President & Manager, Mine Division Archer Shelton

DRAKE PLANT

P.O. Box 302, Paulden 86334 - Quarry 3 miles south of Drake - Employees 5
Limestone used for smokestack scrubbing

Superintendent Joe South

LARSON GYPSUM

P.O. Box 786, Camp Verde 86332 - Quarry 4 miles southeast of Camp Verde -
Employees 5 - Gypsum & bentonite for cement additives.

Superintendent Alvin Hazelwood

WINKELMAN GYPSUM

P.O. Box 327, Winkelman 85292 - Phone 356-7002 - Employees 7 - Gypsum

Superintendent Jim Micholson

SUPERLITE BUILDERS SUPPLY

P.O. Box 7217, Phoenix 85011 - 5201 N. 7th Street

President Fred Bengston
Mine Superintendent Bill Erbe

DARLING CINDER PIT

Mobile Phone 774-7475 - Open Pit Mine east of Flagstaff - Cinder used for
building blocks - Employees 4.

Mine Foreman. Ted Webster

TONTO MINING AND MILLING COMPANY

Box 275, Tonto Basin 85553 - Phone 467-2350 - Employees 14 - Toll milling

TONTO MINING AND MILLING COMPANY (cont.)

Selective Flotation Plant - Are now milling and mining Fluorite

Vice President & General Manager Jack Hamilton
Plant Foreman David Hamilton
Office Manager Fred Rodgers

VALLEY STONE SUPPLIES

Box 372, Paulden 86334 - Quarry 8 miles northeast of Drake - Phone 636-2235
Flagstone for decorative use for both local and out-of-state markets.

General Managers Barbara Hyslip
. Wayne Farley

GORDON WAINWRIGHT - CONTRACTOR

P.O. Box G. Hayden 85235 - Phone 356-7322

Owner Gordon Wainwright

CAMP GRANT LIMESTONE AND SILICA QUARRY

Leased by Magma from State Land Department - Lime and Silica Flux for
plant and smelter - Employees 3 - 4 part-time.

Foreman Robert Goodridge

TIGER MINE

Owned by Magma Copper - Employees - 5 - Silica for plant and smelter

Foreman E. C. Munoz

O. BRICE WILLIS

HARMONY NO. 1

P.O. Box 1325, Clifton 85533 - Located on Chase Creek 6 miles north of
Morenci - Phone 865-3782 - Employees - 2 - Open Pit Mine - Silica.

President (Owner) O. Brice Willis
General Superintendent M. Clifford Willis

WESTERN FLUORSPAR LTD.

2920 N. 7th Street, Phoenix 85014 - Mine located 20 miles south of Young -
Phone 277-7879 - Employees 9-10 - Underground Fluorspar Mine

General Partners Alwin C. Michaelsen
. Victor S. Randolph

WESTERN STATES STONE COMPANY

3820 Grand Ave., Phoenix 85017 - Phone 253-2018

President C. E. Webster

PLANT

P.O. Box 316, Ashfork 86220 - Quarries located in Coconino, Yavapai, Maricopa, Mohave and Yuma Counties - Phone 637-2542 - Employees 6 - Commercial and decorative building stone marketed locally and out of state.

Superintendent G. B. Madison

SAND AND GRAVEL PRODUCERS IN ARIZONA

The following pages contain the names, addresses and telephone numbers of most of the sand and gravel producers in Arizona, as supplied by the Arizona Rock Products Association.

The companies are grouped by operating areas or nearest city or town. The Arizona Department of Mineral Resources is grateful for the assistance provided by the Arizona Rock Products Association.

SAND AND GRAVEL PRODUCERS IN ARIZONA

AJO

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

ASH FORK

DUNBAR STONE COMPANY, INC.
P.O. Box 246
Highway 89-Paulden
Ash Fork 86320 637-2592

BENSON

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

BISBEE

A. J. GILBERT CONSTRUCTION CO.
P.O. Box 5288
Bisbee 85603 432-3946

BULLHEAD CITY

W. M. K. TRANSIT MIX CO.
P.O. Box 31
Bullhead City 86430 754-3887

CAMP VERDE

DON SUMMIT CONCRETE
P.O. Box 503
Camp Verde 86322 567-3211

SUPERIOR COMPANIES

P.O. Box 786
Highway 279
Camp Verde 86322 567-3368

CASA GRANDE

FINAL MATERIALS
P.O. Box 1101
Valley Industrial Park
Casa Grande 85222 836-2127

CASA GRANDE (cont.)

TANNER COMPANIES (United Metro Div.)
P.O. Box 545
105 S. Brown St.
Casa Grande 85222 963-5373

COTTONWOOD

MINGUS CONCRETE & MATERIALS CO.
Box 458
Cottonwood 86326 634-2342

VALLEY CONCRETE & MATERIALS

P.O. Box 634
Cottonwood 86326 634-5848

DOUGLAS

MADDUX & SONS, INC. READY MIX
Box 1077
1927 Pan American
Douglas 85607 364-7564

FLAGSTAFF

FLAGSTAFF READY MIX CO.
P.O. Box 816
633 E. Brannen Ave.
Flagstaff 86002 779-2196

NORTHERN MATERIALS CORP.

P.O. Box 1116
5200 E. Railhead
Flagstaff 86002 526-0665

GILA BEND

GILA READY MIX
P.O. Box 740
Stout Road
Gila Bend 85337 683-2251

GLOBE

GUZMAN CONSTRUCTION
P.O. Box 7
Superior 85278 689-5632

GLOBE (cont.)

JOHN MERCER & COMPANY
P.O. Box 1643
2000 Apache Trail
Globe 85501 425-7674

HUMBOLDT

HUMBOLDT SAND & ROCK CONCRETE
P.O. Box 68
Humboldt 86329 632-7647

KEARNY

SAGUARO CONCRETE COMPANY
P.O. Box 156
Industrial Road
Kearny 85237 363-7256

KINGMAN

DESERT CONSTRUCTION IND.
3290 N. Bank
Kingman 86401 757-2213

LAKE HAVASU CITY

STARR READY MIX COMPANY
1500 Acoma 855-4193
Lake Havasu City 86403

MAMMOTH

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

NOGALES

NEW PUEBLO MATERIALS
P.O. Box 2233
Nogales 85621 281-9668

RIVER ROAD SAND & GRAVEL CO.
P.O. Box 291, Rt. 1
Nogales 85621 287-8831

PAGE

GENERAL ROCK & SAND
P.O. Box 237
Industrial Park
Page 86040 645-3818

PAGE (cont.)

KOCJAN ENTERPRISE, INC.
P.O. Box 478
Industrial Park
Page 86040 645-2297

PARKER

BLUE RIVER CONCRETE & AGGREGATES
P.O. Drawer 1680
Riverside Drive
Parker 85344 669-8696

POSTON MATERIALS

P.O. Box 691
S. Hwy. 72 - Mohave Rd.
Parker 85244 669-8684

PAYSON

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

PHOENIX

A & M ENTERPRISES
6445 N. 51st Ave.
Glendale 85301 934-5600

ALLIED CONCRETE & MATERIALS

P.O. Box 4166
2405 N. Center
Mesa 85201 834-9593

ALLIED CONCRETE, INC.

P.O. Box 14737
11923 W. Indian School Rd.
Phoenix 85031 247-0730

AGUA FRIA SAND & ROCK

P.O. Box D
Thomas Rd. & Agua Fria River
Tolleson 85353 935-2627

ARIZONA SAND & ROCK COMPANY

P.O. Box 20067
1801 E. University
Phoenix 85036 254-8465

Plants also located at:
Grand Ave. & Agua Fria River
Sun City
Mesa

PHOENIX (cont.)

CENTURY PAVING MATERIALS
P.O. Box 3175
2156 E. 1st. St.
Tempe 85281 966-4188

CHANDLER READY MIX
P.O. Box 928
131 E. Baseline
Mesa 85201 892-0501

JOE CONWAY SAND & GRAVEL
P.O. Box 1377
6509 W. Orangewood Ave.
Glendale 85301 937-9402

JOHNSON & STEWART MATERIALS
1635 N. Alma School Rd.
Mesa 85201 964-8691

MESA SAND & ROCK INC.
P.O. Box 1542
2246 N. Country Club Dr.
Mesa 85201 964-1773

PHOENIX REDI-MIX COMPANY
Rt. 5 Box 650 A
3635 S. 43rd Ave.
Phoenix 85009 272-2637

PHOENIX SAND & ROCK
P.O. Box 14627
117th Ave. & Indian School Rd.
Phoenix 85063 936-1439

REEVES SAND & ROCK, INC.
2850 W. Broadway
Phoenix 85041 276-1292

TANNER COMPANIES (United-Metro Div.)
P.O. Box 20128
3640 S. 19th Ave.
Phoenix 85036 262-1211

2606 S. 40th St.
Phoenix 85034 262-1211

S. Miller Rd. & Gila River
Buckeye 85326 935-3571

7th St. & Cave Creek Wash
Phoenix 85024 942-7704

PHOENIX (cont.)

TANNER COMPANIES (cont)
115th Ave. & Glendale
Phoenix 85037 935-3562

TRI-CITY READY MIX
P.O. Box 148
2128 E. 1st St.
Tempe 85282 967-7597

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

Plants also located:
Beeline Highway 964-2425
Central & Beardsley 942-8360

WESTERN SAND & ROCK
P.O. Box 65
103 Ave. & W. Van Buren
Avondale 85323 932-1391

PRESCOTT

CONCRETE SERVICE COMPANY
P.O. Box 902
N. 6th St. & State
Prescott 86302 445-5120

E Z TRANSMIX COMPANY
403 Shalimar
Prescott 86301 445-3571

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

SAFFORD

C K C MATERIALS DIVISION
1502 N. 9th Ave.
Safford 85546 428-3423

W. A. MORRIS SAND & GRAVEL & CONCRETE
1213 First Ave.
Safford 85546 428-1371

ST. JOHNS

FRANCIS DAY & SONS
P.O. Box 157
St. Johns 85936 337-4406

SHOW LOW

SHOW LOW READY MIX
Drawer 179
507 S. White Mtn. Rd.
Show Low 85901 537-2290

SIERRA VISTA

D. C. CONTRACTORS, INC.
P.O. Box 2104
Hwy. 92
Sierra Vista 85635 378-2349

SIERRA READY MIX & CONTRACTING CO.
P.O. Box 1506
North Ave.
Sierra Vista 85635 458-4343

SNOWFLAKE

BRIMHALL SAND, ROCK & BLDG. MATERIAL
P.O. Box 750
Snowflake 85937 536-4551

TACNA

KELLAND SAND & GRAVEL
P.O. Box 246
Hwy. 80
Roll 85347 785-4584

TAYLOR

HATCH'S SAND & GRAVEL
Taylor 85939 536-7379

REIDHEAD SAND & ROCK INC.
P.O. Box 7
Taylor 85939 536-4519

TUCSON AREA

B & R MATERIALS CORP.
P.O. Box 12217
7301 E. Speedway Blvd.
Tucson 85732 299-9713

TUCSON (cont.)

COLUMBIA SAND & GRAVEL CO., INC.
446 E. Jacinto
Tucson 85705 299-9713

CONSTRUCTION MATERIALS
7570 E. Speedway
Tucson 85710 296-5698

NEW PUEBLO MATERIALS, INC.
P.O. Box 27566
4115 E. Illinois
Tucson 85726 748-8000

Other locations:
Green Valley 625-3308
Nogales 287-4668
Tucson (Northside) 297-5854

SAN XAVIER ROCK & SAND
(Div. Union Rock)
P.O. Box 27103
1000 W. Valencia Rd.
Tucson 85726 889-6341

TUCSON ROCK & SAND
(Div. Tanner Co.)
4800 W. Orange Grove Rd.
Tucson 85704 297-7357

TUCSON SAND & SOIL
2430 W. Curtis
Tucson 85705 887-3300

WICKENBURG

RED-E-MIX CONCRETE CO.
Box I-2
188 Division
Wickenburg 85358 684-7248

WILLCOX

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

WINKELMAN

SUPERIOR COMPANIES
Box 327
Tucson Hwy.
Winkelman 85292 356-7002

WINSLOW

K. H. PHILLIPS & COMPANY

702 West Oak

Winslow 86047

289-2456

YUMA

MASSEY SAND & ROCK CO.

P.O. Box 1857

1310 W. 10th St.

Yuma 85364

782-9256

ROBINSON SAND & GRAVEL

901 S. Bell Ave.

Yuma 85364

783-3226

TANNER COMPANIES (United Metro Div.)

2088 E. 20th St.

Yuma 85364

782-9267

VALLEY SAND & GRAVEL

1213 2nd Ave.

Yuma 85364

783-5191

YUMA FOOTHILLS TRANSIT MIX

P.O. Box 4807

Yuma 85364

726-1460

ARIZONA DEPARTMENT OF MINERAL RESOURCES

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

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

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

DEPARTMENT OF MINERAL RESOURCES
Mineral Building - Fairgrounds
Phoenix, Arizona 85007

THIRD CLASS