



CONTACT INFORMATION

Mining Records Curator
Arizona Geological Survey
1520 West Adams St.
Phoenix, AZ 85007
602-771-1601
<http://www.azgs.az.gov>
inquiries@azgs.az.gov

The following file is part of the

Arizona Department of Mines and Mineral Resources Mining Collection

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

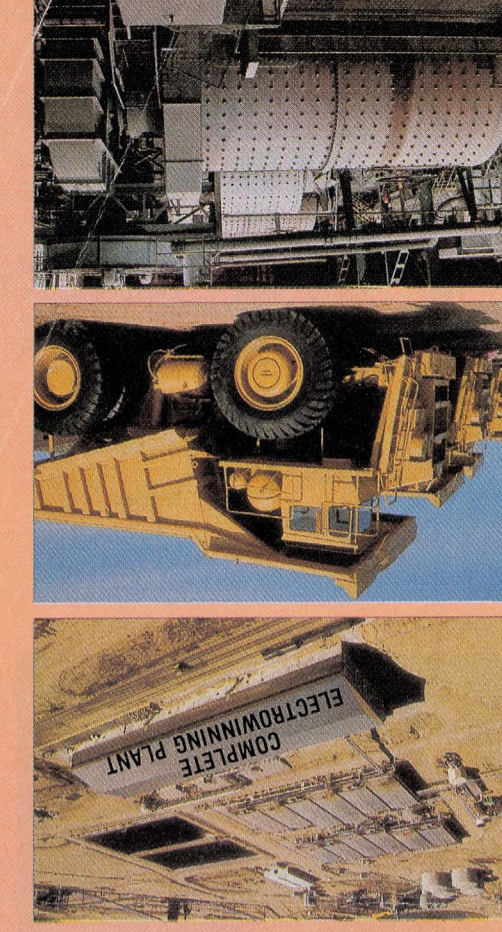
CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.



LIQUIDATION

LATE MODEL MINE MACHINERY & EQUIPMENT
Including COMPLETE PLANTS

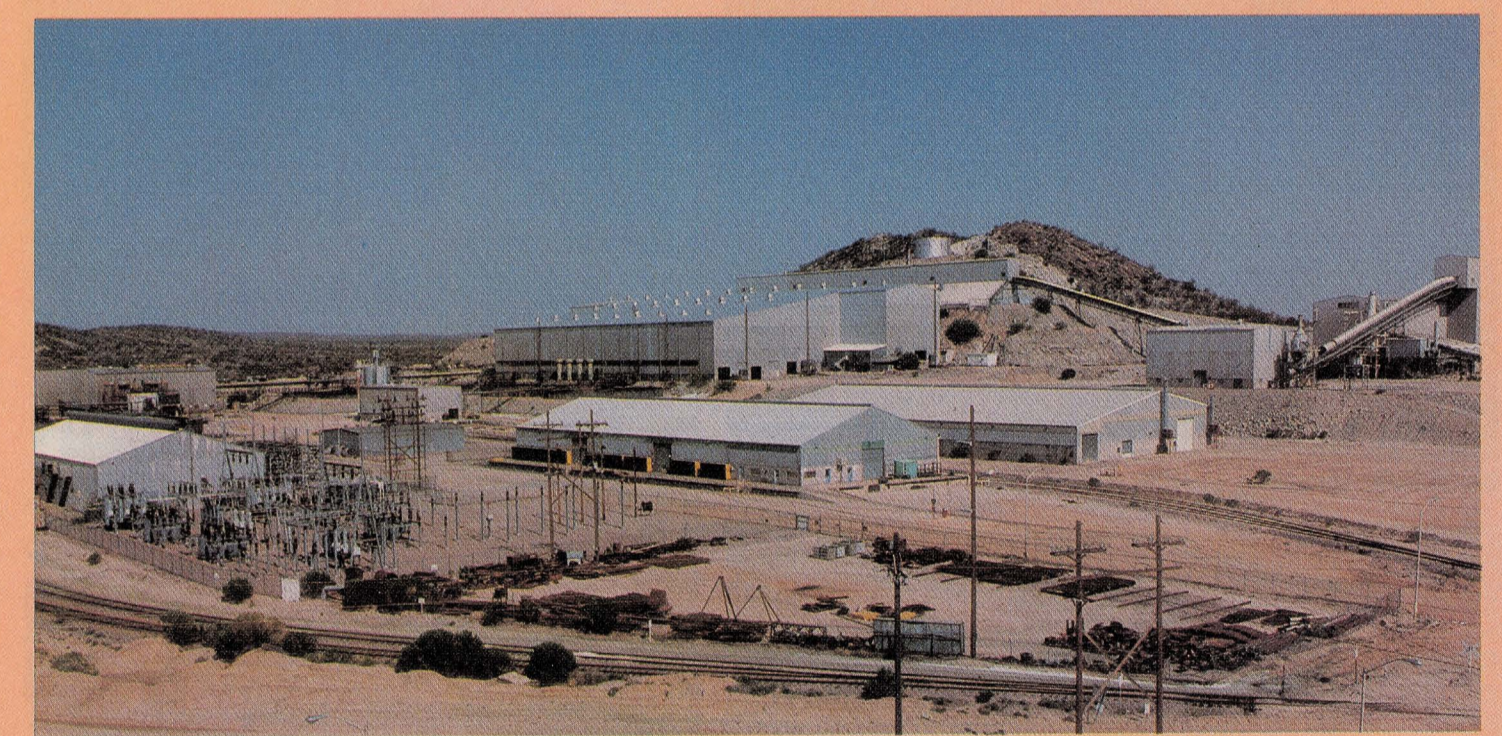
RECEIVED
MAY 18 1988
GENERAL MINES & MINERAL RESOURCES

First Class Mail
U.S. Postage
PAID
Permit No. 899
Cleveland, OH

TWIN DIVERS (H)
MJD

6200 Riverside Drive
Cleveland, Ohio 44135
Mine Equipment Division
PARK CORPORATION

SULPHIDE CONCENTRATOR PLANT



CONCENTRATOR
44,000 ton per day concentrator consists of four milling divisions, each of which draw their rod mill feed from beneath the fine ore storage bin.
Each division consists of a rod mill and two ball mills, two cyclone feed pumps and four Krebs D-26 cyclones. Flotation consists of 14 rows of rougher cells, three regrind mills, three sets of nine Krebs D15B cyclones and six rows of cleaner and scavenger cells. There are three 120' rougher concentrate thickeners.
The Concentrator sends its tails to two 400' thickeners which each have eight D26B cyclones. The concentrate is fed to the molybdenum plant to remove moly and then goes to the filter plant.

MOLYBDENUM PLANT
The Molybdenum Plant was designed to process 1200 tons per day of CuMo concentrate and produce up to 20 tons per day of MoS₅. The circuit consists of two parallel trains of conditioning, rougher flotation and up to seven cleaner cells. Additionally, there is an insoluble flotation circuit, two thickeners, two spray dryers and a dry handling and packaging system.

FILTRATION
The sulfide concentrate is stored and thickened in two 100' thickeners, then fed into three drum filters. These are installed outdoors and designed to operate 24 hours per day on an 85% availability. Maximum output was designed at 50 tons per hour with the feed slurry at 58% solids, 120°F temperature, 1.85 SG. The screen size is 325 mesh. Ph to be 7 plus. The filter cake is 10% moisture by weight by the use of 80 PSI steam.
The plant includes concentrate handling and rail car loading systems put into operation in 1976.

For complete information and specifications,
Call: **(602) 648-1630**

PARK CORPORATION
MINE EQUIPMENT DIVISION
GREEN VALLEY, ARIZONA 85622
(602) 648-1630
Telex: 823037
TeleFax: (602) 648-0832

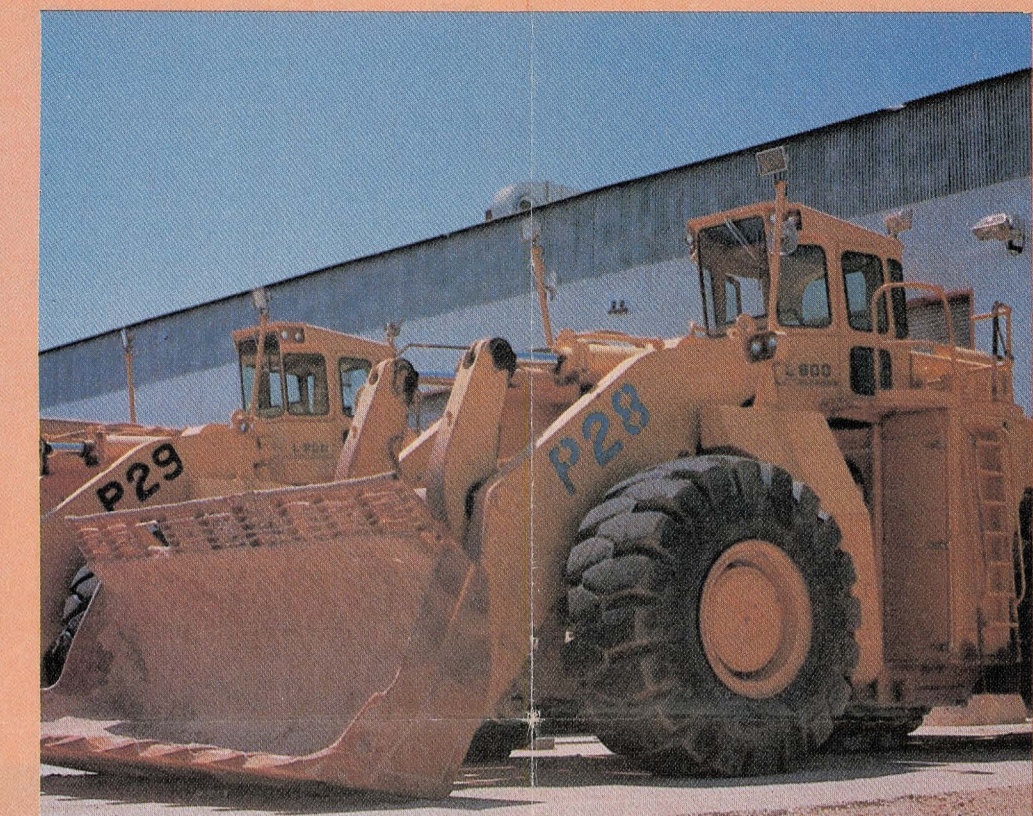
COMPLETE MODERN PLANTS & LATE MODEL MACHINES & EQUIPMENT

P.O. BOX 1488
GREEN VALLEY, ARIZONA 85622
PARK CORPORATION
MINE EQUIPMENT DIVISION

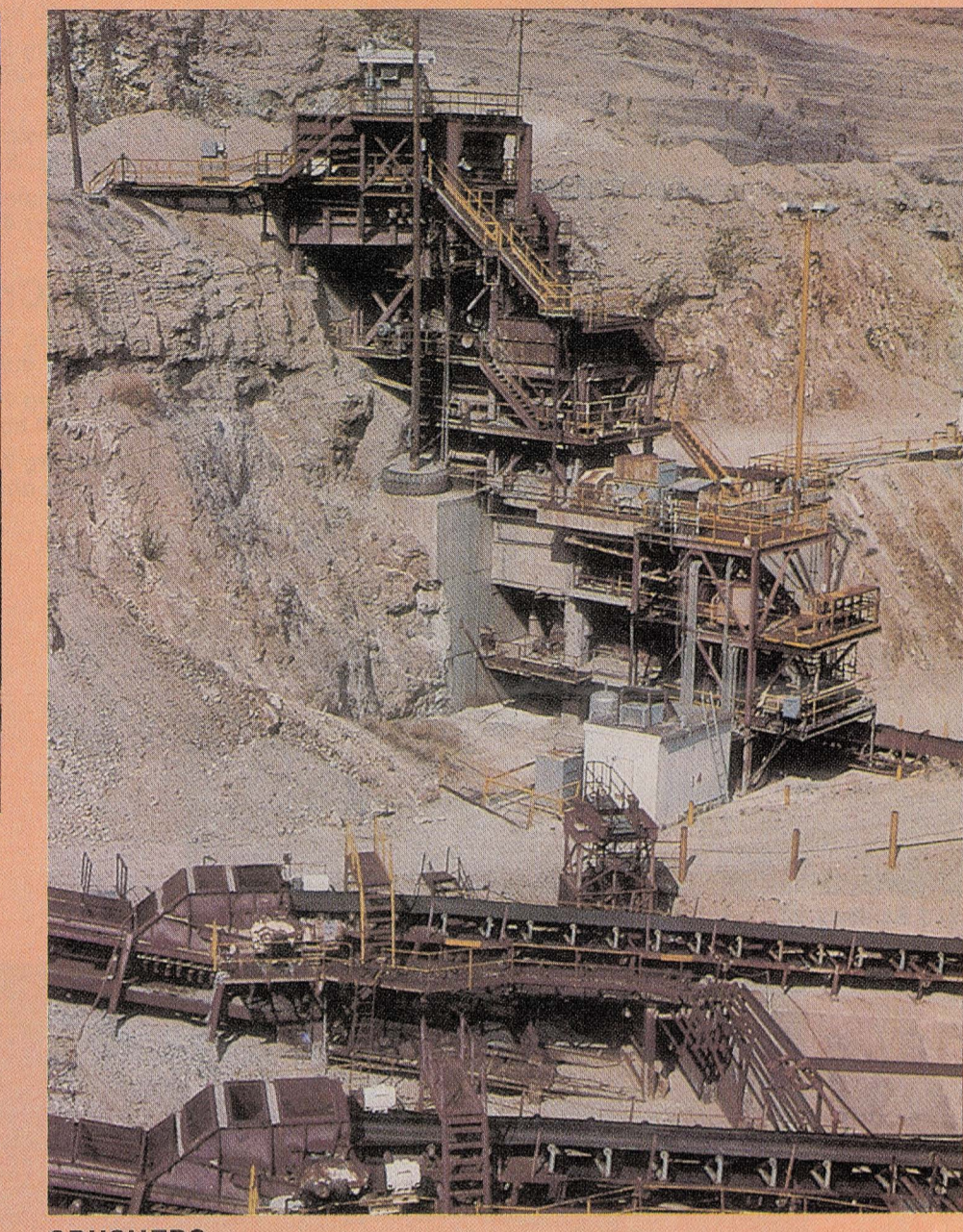
Call: **(602) 648-1630**
For complete information and specifications,
OF NEW SPARE AND REPLACEMENT PARTS
ELECTRICAL EQUIPMENT AND A HUGE INVENTORY
SCREENS • ROTARY KILN • BELTING • MOTORS
GEARBOXES • TRANSFORMERS • DOZERS • CRANES
SUPPORT EQUIPMENT
STACKERS • RECLAIMERS
LOADERS • ELECTRIC and DIESEL/ELECTRIC DRILLS
ELECTRIC SHOVELS • HAULAGE TRUCKS and
CRUSHERS • GRINDING MILLS • CONVEYORS
LATE MODEL EQUIPMENT AND MACHINES
OXIDE PLANT • SULPHIDE CONCENTRATE PLANT
MOLY PLANT • PELLETIZING PLANT
COMPLETE MODERN PLANTS



RECLAIMERS and STACKERS



LOADERS — 13 Yard Capacity



CRUSHERS



TRUCKS 110, 120, & 170 Ton — Excellent Condition — Excellent Rubber



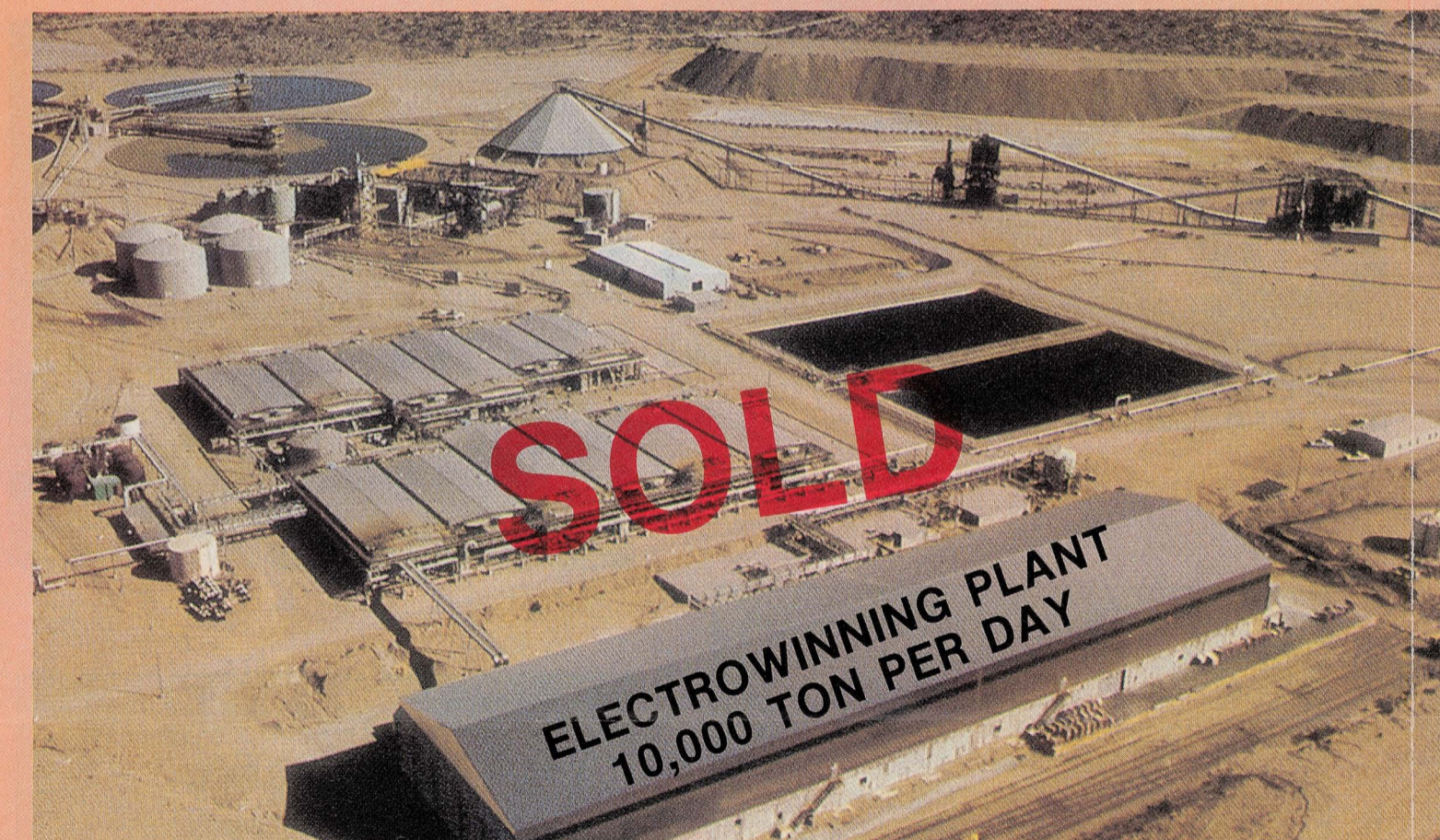
ROTARY DRILLS



ELECTRIC SHOVELS — 5 Yard to 17 Yard Capacity

All Equipment Is Immediately Available
For Information Call (602) 648-1630

OXIDE PLANT



OXIDE PLANT

GRINDING, LEACHING & THICKENING
Oxide ore is reclaimed by belt feeders from fine ore storage and milled in two parallel trains consisting of an 11.5' x 18' rod mill feeding a 12.5' x 30' ball mill in an open circuit wet grinding. The ball mill discharge is pumped to an overflow leach tank circuit using concentrated H₂SO₄ acid. The slurry is then pumped to a train of four thickener countercurrent decantation for liquid solid separation. The pregnant solution is sent through two clarifiers and to the SX plant and the thickened solids are pumped to tails. The plant is designed to mill 10,000 ton per day.

COPPER SOLVENT EXTRACTION
The copper bearing solution is split into two streams of 3000 to 3300 gpm each for counter current copper extraction in two parallel trains of mixer settlers. Each train has four extraction and two stripping stages. Mixer settlers are a standard Davy Powergas gravity design. A square mixing box 15' x 15' contains a draft tube through which the phases are introduced into the eye of the turbine.
All wetted parts of the mixer settlers are 316 stainless steel construction.

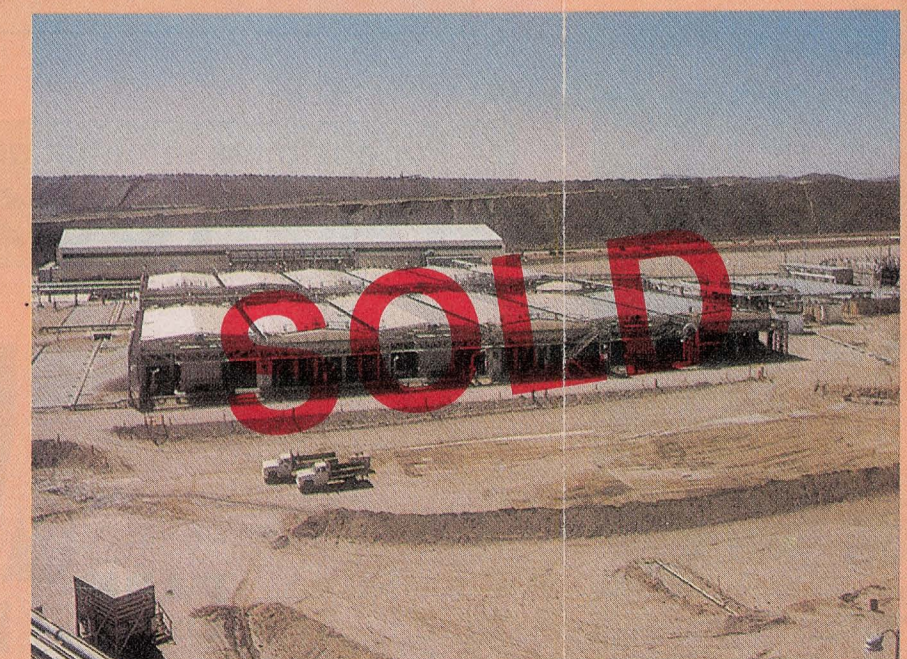
ELECTROWINNING
The tank house has 216 concrete cells lined with PVC paraliner. Each cell contains 51 3' x 4' cathodes and 52 cast lead calcium alloy anodes on 4" centers. Starter sheets are prepared on titanium blanks. There are three recirculation systems in the tank house all fed from the common reservoir. Each recirculation system has eight sections of nine cells each, and each has a transformer/rectifier for a nominal capacity of 120 tons per day.
The tank house is 100 ft. wide by 400 ft. long. Steel construction with 316SS corrugated sheeting on walls and roof. Both cranes are on the same rails and cover the entire tank house cells and sheet preparation area. All piping is either PVC lined mild steel, 316 stainless steel, or polythene.

10,000 ton per day plant—
opened in 1975 and operated
until recently.

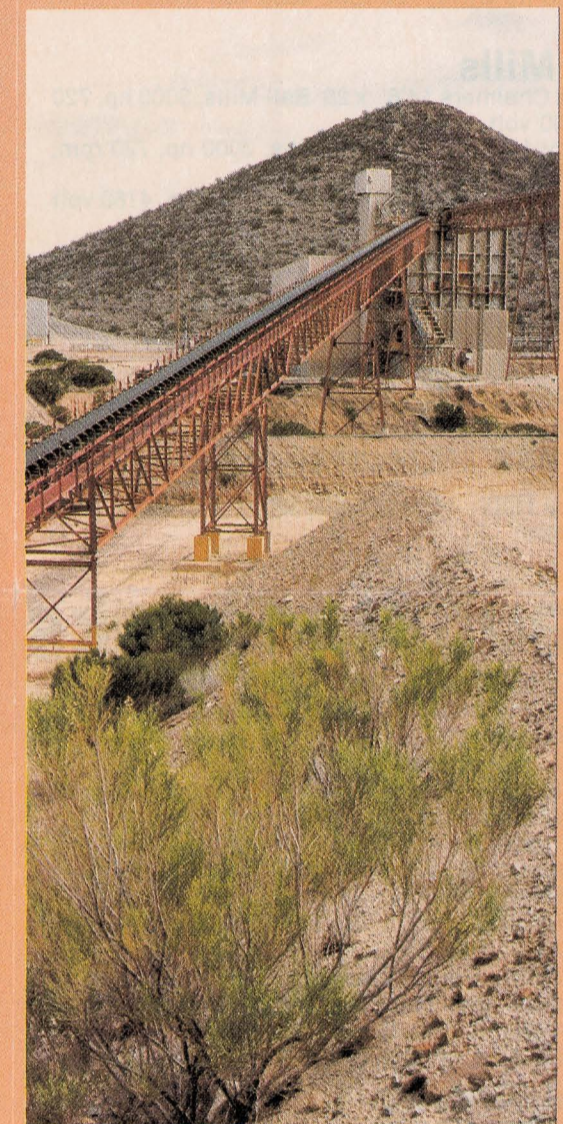
Three major elements:
GRINDING, LEACHING and THICKEN-
ING — COPPER SOLVENT EXTRAC-
TION — ELECTROWINNING.



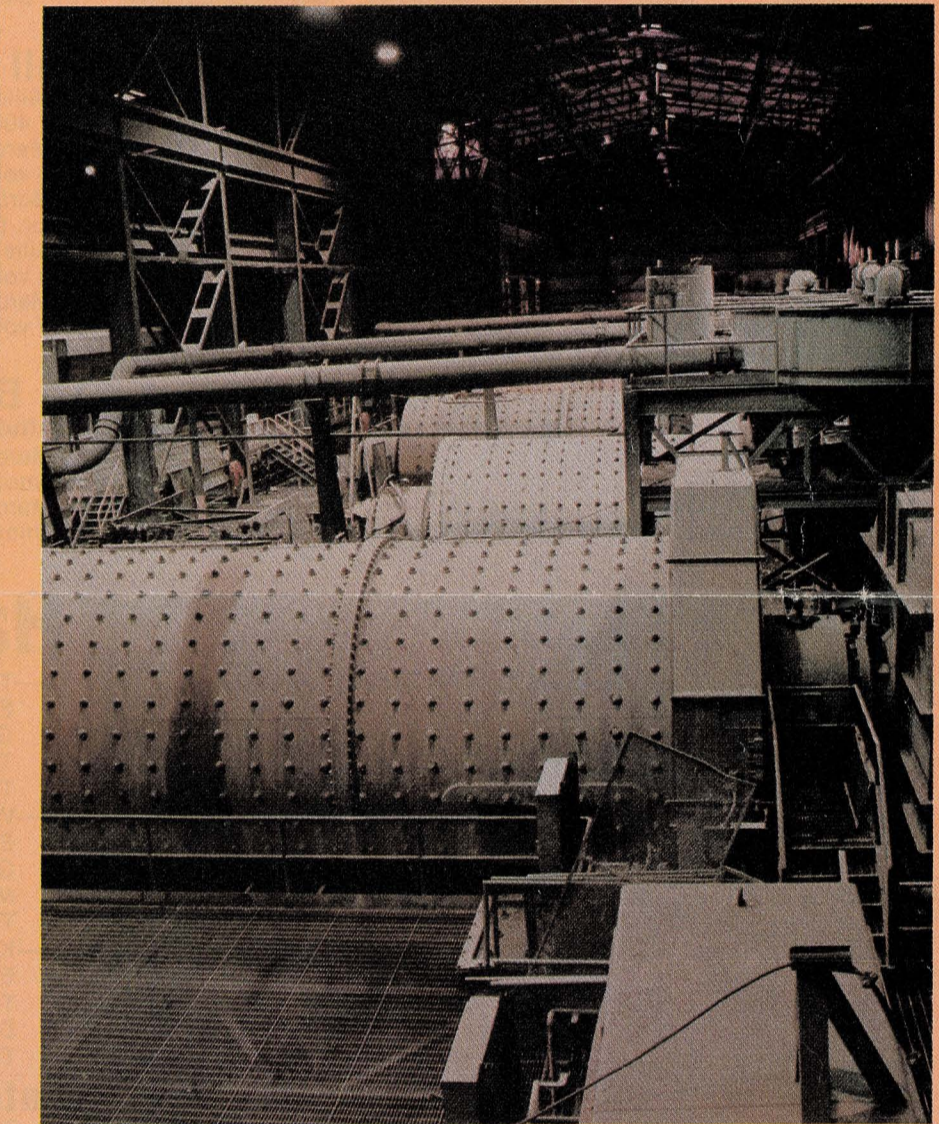
GRINDING, LEACHING & THICKENING



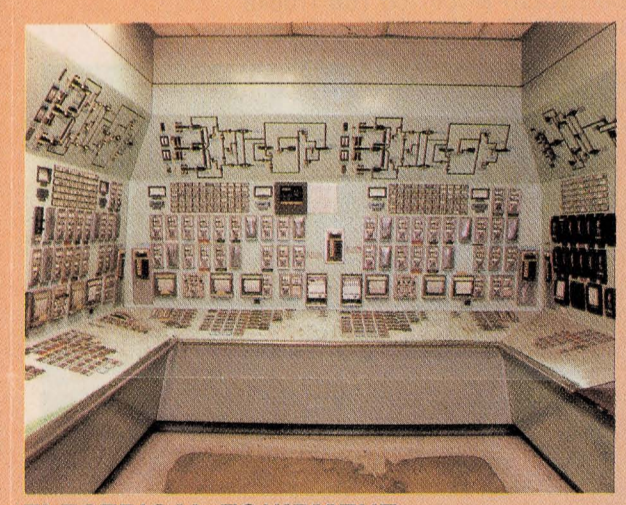
COPPER SOLVENT EXTRACTION



MILES OF CONVEYORS



ROD and BALL MILLS



ELECTRICAL EQUIPMENT



NEW SPARE and REPLACEMENT PARTS



ELECTROWINNING

For complete information and specifications,
call: **(602) 648-1630**

PARK CORPORATION
MINE EQUIPMENT DIVISION
GREEN VALLEY, ARIZONA 85622

(602) 648-1630
Telex: 823037
TeleFax: (602) 648-0832