



## **CONTACT INFORMATION**

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: ORACLE RIDGE

ALTERNATE NAMES:

CONTROL  
CONTROL COPPER PROPERTY  
MARBLE PEAK  
GEESMAN  
COPPER PRINCESS  
HARTMAN - HOMESTAKE  
LEATHERWOOD  
DAILY  
SOUTHERN COPPER COMPANY  
SOUTH ATLANTIC VENTURES

PIMA COUNTY MILS NUMBER: 881

LOCATION: TOWNSHIP 11 S RANGE 16 E SECTION 16 QUARTER W2  
LATITUDE: N 32DEG 28MIN 34SEC LONGITUDE: W 110DEG 43MIN 39SEC  
TOPO MAP NAME: BELLOTA RANCH - 15 MIN

CURRENT STATUS: PRODUCER

COMMODITY:

COPPER SULFIDE  
SILVER  
GOLD  
IRON MAGNETITE

BIBLIOGRAPHY:

ADMMR ORACLE RIDGE FILE  
USBM RI 5650 P. 113-4, 116, & 130  
BRAUN, ERIC, 1969, UA MS THESIS  
PRODUCTION POSSIBILITIES OF MARGINAL COPPER  
DEPOSITS IN ARIZONA, P. 63 ADMMR  
USBM MIN. PROP. FILE 21.227, DMEA-2314  
USBM MIN. PROP. FILE 21.64, PROJ. NO. 1418  
LEHNER, R.E. 1973 ADMMR FIELD REPORT  
E&MJ 9/72 P. 272, 6/74 P. 212, 4/75 P. 170  
6/78 P. 36-40  
PAY DIRT MAGAZINE 3/26/75, 5/78 P 24, 8/23/76  
P. 23, 1/24/77 P. 10, 8/77, 4/26/76.  
SKILLINGS MINING REVIEW 8/14/76, 8/13/77 P. 6  
1/14/78, P. 7,14.  
MINING ENGINEERING 6/75 P. 15  
WORLD MINING 10/77, P. 171

CONTINUED ON NEXT PAGE

CONTINUATION OF ORACLE RIDGE

MINING CONGRESS JOURNAL 9/77 P. 6  
CONTINENTAL MATERIALS CORP 1975 ANNUAL REPORT  
CONTINENTAL MATERIALS CORP 1976 ANNUAL REPORT  
ROSCOE, JOHN G. 1971, STATEMENT BEFORE THE  
IMPACT SURVEY TEAM OF THE CATALINA MULTIPLE  
USE PLAN BY CONTINENTAL COPPER INC.  
ADMMR "U" FILE CU 58  
AGS 1995 SPRING FIELD TRIP GUIDEBOOK



Janet Napolitano  
Governor

ARIZONA DEPARTMENT  
OF  
ENVIRONMENTAL QUALITY

1110 West Washington Street • Phoenix, Arizona 85007  
(602) 771-2300 • www.adeq.state.az.us



Stephen A. Owens  
Director

March 18, 2003

Mr. Harold R. Roberts  
Oracle Ridge Mining Partners  
Independence Plaza, Suite 950  
1050 Seventeenth Street  
Denver, Colorado 80265

RE: Closure Plan for the Oracle Ridge Mine, Near Oracle, Pima County, Aquifer Protection Permit  
Number P-102110

Dear Mr. Roberts:

The Arizona Department of Environmental Quality, Water Permits Section, Mining Unit, is providing notice, as required under Arizona Administrative Code R18-9-108(A)(d), of the receipt of a closure plan for the Oracle Ridge Mine, located in Pima County, in Section 17, Township 11 South, Range 16 East, Gila and Salt River Base Line and Meridian. This Closure Plan was received on March 12, 2003, and was also submitted to the Office of the State Mine Inspector.

The closure plan addresses closure activities for the mine, and post-closure groundwater monitoring. This plan will be reviewed by the Mining Unit under the provisions of the Aquifer Protection Permit Program, to provide for the protection of groundwater at the mine. Approval of the Closure Plan, as modified, will require a significant amendment to Aquifer Protection Permit P-102110, to add mine facilities not included in the original permit.

Sincerely,

Jeff Emde, Project Manager  
Mining Unit, Water Permits Section

cc: Distribution List  
Mason Bolitho, Arizona Department of Water Resources  
Robert Casey, ADEQ Water Quality Compliance Section  
Lynn Dekarske, Water Permits Section

MU03:0030

Northern Regional Office  
1515 East Cedar Avenue • Suite F • Flagstaff, AZ 86004  
(928) 779-0313

Southern Regional Office  
400 West Congress Street • Suite 433 • Tucson, AZ 85701  
(520) 628-6733

ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1992

*Pima County*

**ORACLE RIDGE MINING PARTNERS**

**Oracle Ridge Mine** T11S R16E Sec. 16

P.O. Box 7, San Manuel, AZ 85631 - Phone 576-1412, - Employees: 55 -  
Underground copper, gold, silver mine - Located 25 miles northeast of Tucson -  
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

ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1991

**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

ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1990

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General Manager .....	Tom Olsen
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Controller .....	Wally Buckley
Purchasing Manager .....	Art Mitchell
Maintenance Foreman .....	Troy Black

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION FROM MINE CARDS IN MUSEUM

ARIZONA

MM 1512 Epidote

PIMA COUNTY

CONTROLZ MINE,  
Catalinas

MILS # 881

7-AKA'c

ORALE Ridge (Sil)

Oracle Ridge Mine  
CONTROL MINE

PIMA COUNTY

References

T11S R16E Sec 19 S2

MILS #442

AEC 172-487, p. 35 - no radioactivity.  
(leased to Robert V. Wilson, Jr. - 1953.)

Production Possibilities of the Marginal  
Copper Mines in Arizona, p. 63.

USBM RI 5650 1960 p. 130 (Mill)  
and p. 113-114, 116 (Mine)

USGS OFR - Old Hat Mining District p. 9  
(Geology file) (Geesman mine, Leatherwood  
property, Corregidor mine,  
Stratton mine)

Skillings Mining Review, December 15, 1973, p. 8

E/MJ, June, 1974, p. 212 (gen. info.)

" Jan. '75, p. 27, 31 (evaluating plans for a new underground  
copper mine & mill near Tucson on  
Marble Peak)

~~Oracle Ridge Project (file)~~

Mining Congress Journal, 9/76, p. 10, 11 (Oracle Ridge Project)

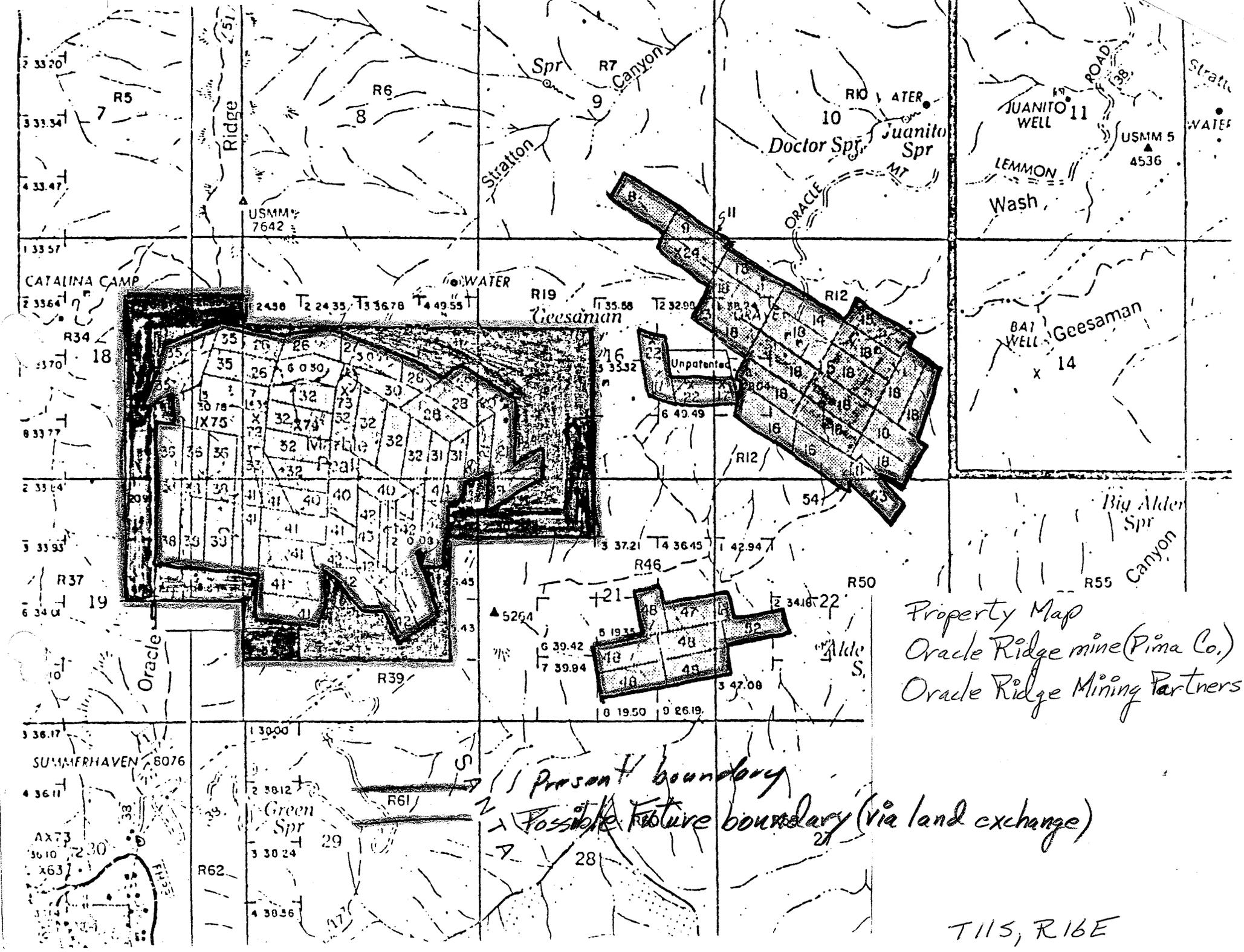
Mineral Resources Investigation of the Pusch Ridge Wilderness, G. S. Ryan,  
Geology File, p. 16

MILS Sheet Sequence number 0040190035 (p. 3945) See for Magazine references

MAPS - Stored upstairs in the second drawer in the flat storage area

MAPS - Upstairs in the ABM rolled file boxes under Security Mines Co. Claim  
map showing underground plans-





Property Map  
 Oracle Ridge mine (Pima Co.)  
 Oracle Ridge Mining Partners

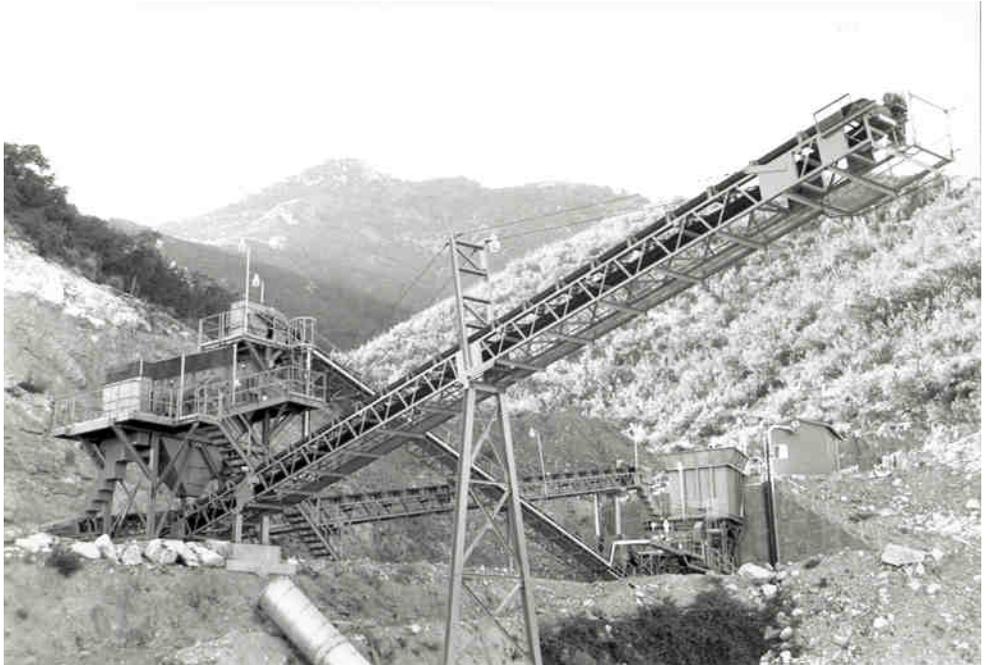
1 Present boundary  
 2 Possible future boundary (via land exchange)

THIS, R16E

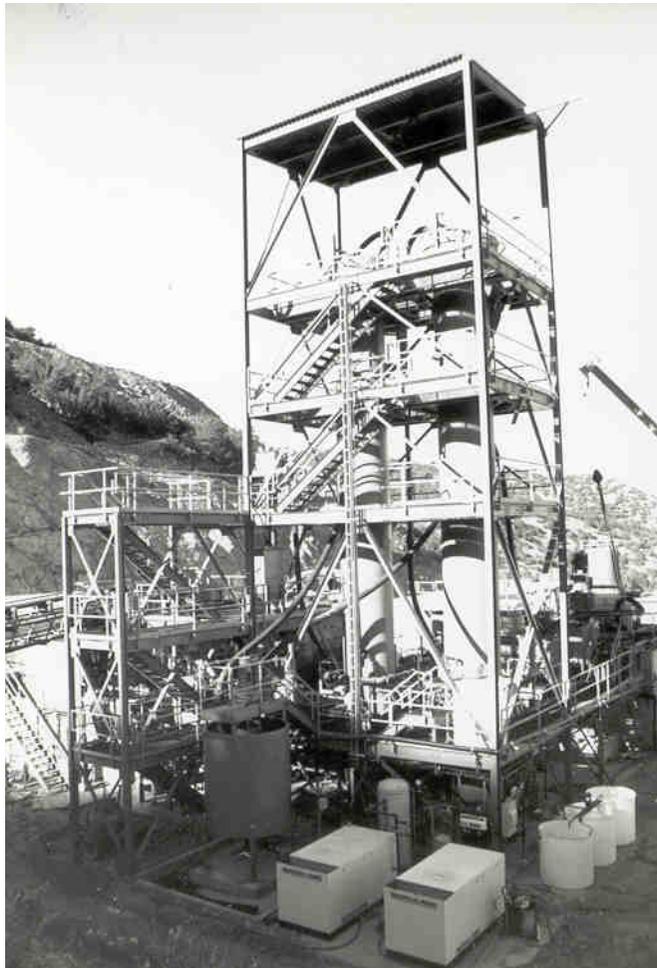












11/13/92

ARIZONA COPPER RESERVES

COMPILED BY

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

PROPERTY:

ORACLE RIDGE

OPERATOR\OWNER:

South Atlantic Venture Ltd.  
885 West Georgia , suite 1302 > NEW ADDRESS  
Vancouver, BC V6C-3E8  
604-689-7842

LOCATION INFORMATION:

TOWNSHIP 11 S RANGE 16 E SECTION 16  
COUNTY - Pima AZMILS - 881  
DESCRIPTION - 10 miles south of Oracle

ORE TYPE AND RESERVE INFORMATION:

Mixed - 4 MILLION TONS AT 2.33% TCu

RESERVE INFO - Additional reserves of 4.4 million tons at 2.25% possible.  
RESERVE INFO - Reserve contains .67 oz/ton Ag.

SOURCES:

South Atlantic Ventures 1990 Annual Report

COMMENTS:

30% interest in project belongs to Continental Material Corp.



CONTINENTAL COPPER INC.  
(Oracle Ridge Mine)

PIMA COUNTY

WR GI 8/9/77: Bob Sears of Newmont asked about the correct or present name for the Control Mine. Explained that it was owned by the Oracle Ridge Partners and was still called the Control Mine.

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MG WR 1/9/81: Visited Oracle Ridge Mining Partners office and mine. Operations consist chiefly of exploration. One heading is being driven and one exploration drill is working underground. Two drills are working on the surface.

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MG WR 7/30/82: Have learned there has been an employee reduction at the Oracle Ridge Mine, Pima County.

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MG WR 10/29/82: Exploration and development activities ceased in September at the Oracle Ridge Mine, Pima County. Only a skeleton crew remains.

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MG WR 4/8/83: The Oracle Ridge Mine in Pima County is on standby. Only a maintenance crew remains.

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MG WR 4/15/83: Oracle Ridge Mining Partners, owner of the Oracle Ridge Mine in Pima County, has reportedly sold its mill to a company operating in Nevada. The mill, 2000 tdp capacity (?) has been stored in a Tucson warehouse and has never been used.

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MG WR 1/11/1985: Sent copy of the Oracle Ridge property map (Pima Co.) to Mr. Dave McGee (c) who is looking for a good source of marble in the Oracle, Az/ area.

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CONTINENTAL COPPER INC.

The Continental Copper Company's property on the north end of the Santa Catalina Mountains (11S 16E Secs. 16,17,20) was visited and the mine geologist, C.J. Orback, gave freely with geological information and background data. Their exploration drilling program is coming to an end and development work is now phasing in. One big problem that bothers them is water. They have found some water on State Land which the state will lease for two years at 10¢/1000gals., yet the commercial rates from ranchers 2¢/1000 gals. This high cost of water from the State would amount to over a million dollars for a period of 10 years and could be critical as to whether the ore can be economically mined or not. REL WR 8/23/73

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Phone call from Herb Reynolds, V.P. Continental Copper, regarding the newspaper question; was informed that a 2500 foot drift was in 2% Cu, the same as indicated by a nearby drill hole. Not gold. GWI WR 12/21/73

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11/19/82

Information for records.

from: A. Turney

Janel Smith of Arizona Mining and Prospecting Association reported that she had learned that Oracle Ridge Mining Partners were re-examining their studies to see if they could economically operate their mill on 1,000 tons instead of 2,000 tons. This would hinge on the price of copper being \$1.00.

She said the Belgium people were still very "excited" about the mine.

MS  
en K

CONTROL MINE

PIMA COUNTY

Continental (CWT) is evaluating the Control Mine. The local manager is not yet sure of when, how and where the assets of Continental will be transferred to USN if at all (USN=U.S. National Mining, subsidiary of Continental Materials)  
See Speed letter GWI 12-12-68

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Continental Exploration is examining the Control Mine, with a view to the possibility of developing enough ore to justify the building of a mill. GWI QR 12-1968

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Active Mine List April 1969 - Exploration John Roscoe, Mgr. Continental Materials Corp.

The Control Mine is still under option to Continental Materials. If enough ore can be found they would like to build a mill to process same. GWI QR 3-1969

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Active Mine List Oct. 1969 - Exploration - Sec. 17, 11S, 16E

Continental Materials (Exploration) is mapping and evaluating the Control Mine.  
GWI QR 9-1969

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Continental Exploration was getting ready to start a drilling program at the Control mine. GWI QR 4-1-70

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Active Mine List May 1970 - Exploration - John Roscoe Mgr.

Continental Copper Co. has a drilling program going on at the old Control Mine in the Catalina's. GWI QR 10-1-70

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Active Mine List Oct. 1970 - Exploration - John Roscoe, Mgr.

At the site northeast of Tucson, Arizona, Continental Materials Corp. has intersected a significant quantity of moderate to good grade copper ore in preliminary drilling on claims in the Santa Catalina Mountains. Additional extensive exploration is required to evaluate this underground mining prospect more thoroughly. Skillings 11-28-70

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Continental Copper is continuing their exploration activities at the Control mine.  
GWI QR 12-31-70

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Evaluation work continues at the Control Mine which is optioned to Continental Copper Co. GWI QR 4-1-71

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The Continental Copper Company is continuing work at the Control mine. GWI QR 6-30-71

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CONTINENTAL COPPER INC.

Continental shut down at the first of the month. Now looking at the Strong and Harris property (Burro claim, Cochise Co.) GWI Note 12/14/67

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The Continental Materials Corporation is studying the area north of the Pittsburg mine in Johnson Camp. May have made a deal with the owners, since Cyprus turned it back. Their geologist is working at the camp now. May do some more drilling so as to justify a large enough orebody to move their mill and start mining. GWI 2/9/68

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Mine visit to Continental Exploration project at Johnson Camp. 1 drill. GWI WR 5/19/68

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Continental Materials was drilling on their option at Johnson Camp. The owners of the 87 claims that Cyprus returned are J. Tilman, Archie Durham, Ira Mosely, Gerald Mosely, Earl and Gretchen Strong. They are located northeast of the Moore and Pittsburg shafts, and just south of the Old Black Prince on BLM land. As far as mineral rights are concerned. GWI QR 6/68

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Continental Materials is still holding their option on the 87 claims at Johnson Camp. This is the Tilman, Durham, Moseley and Strong Group. The claims are northeast of the Moore and Pittsburg shafts. According to John Roscoe, Continental is still evaluating the results of their drilling and mapping. GWI QR 12/68

---

Continental is evaluating the Control mine. The local manager is not yet sure of when, how and where the assets of Continental will be transferred to USN if at all. USN=U.S. National Mining, subsidiary of Continental Materials. GWI 12/12/68

---

Continental Exploration is examining the Control mine with a view to the possibility of developing enough ore to justify the building of a mill. GWI QR 12/68

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Mr. John Roscoe of Continental Exploration that company was still evaluating Johnson Camp property and sold mill and power plant to Magnum in Mohave County. GWI WR 2/15/69

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Active Mine List April 1969 - Expl. - Strong, Harris Proj. Exploration (Cochise County)

Continental Exploration (Materials) still drilling on the 87 claims that they have optioned from J. Tilman, Archie Durham, Ira Mosely, Gerald Mosely, Earl and Gretchen Strong. GWI QR 9/69

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The mining division of Continental Materials Corp. is continuing its exploration program in Arizona on the Norte property that has shown copper-zinc mineralization of mineable grade. The deposit is scattered and erratic and more drilling is needed to confirm a quantity of ore that will warrant an underground sampling and testing program. Preliminary drilling on the claims in the Santa Catalina Mountains northeast of Tucson has disclosed significant quantities of moderate to good grade copper ore. Further extensive exploration is required to evaluate the property more thoroughly. Skillings Mining Review 9/12/70

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CONTROL MINES, INC.

PIMA

Continental Materials Corp. continued evaluation work at their Control mine. According to their 73 annual report they expect to install a 1000-2000 TPD concentrator. GWI AR 73-74

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Field interview with John Roscoe. He reports that Continental Copper is planning on building a mill on patented ground at or near the Control mine. GWI WR 8/26/74

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I met C.H. Reynolds, vice pres. of Continental Copper Co., at his office in Oracle. He reports that development of the Control mines orebodies continues on a reduced scale because of a cut in expense fund. VBD WR 9/3/75

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CONTINENTAL MATERIALS CORPORATION

Control Mines

Republic article, 8/5/76 - Plan to develop a \$35 million underground copper mine in the Santa Catalina Mts. north of Tucson - on the north slope, a few miles below Mt. Lemon. The mine will employ about 150 people; a mill to process the copper ore would be built on the Marble Peak site and waste would be carried by pipeline to a tailings dam to be built on private property 4 miles east of the mine. In 15-20 years, when the mine operations cease, the tailings will be planted with vegetation to resemble "a grassy meadow." (to be mined jointly with Union Miniere of Brussels, Belgium)

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rights. The commercial rate for water is 2¢/1000 gals. Continental Copper objects to the State's high cost of water and the short lease. They say that over a 10 yr. period that the difference in State cost over commercial cost of water is \$1,000,000.

Present Plans: The exploratory drilling has ceased and underground development work has begun. A tunnel has been driven in to the largest of the ore bodies and now lateral tunnels are being driven.

ARIZONA DEPARTMENT OF MINERAL RESOURCES

Mineral Building, Fairgrounds

Phoenix, Arizona

1. Information from: John Roscoe - Manager

Address: 1441 Miracle Mile - Tucson

2. Mine: Strong & Harris Project 3. No. of Claims - Patented

Unpatented Several

4. Location:

5. Sec 13-14 & Tp 15S Range 22E 6. Mining District Cochise  
others

7. Owner: Strong, Harris, Moseley and others

8. Address:

9. Operating Co.:

10. Address:

11. President: 12. Gen. Mgr.:

13. Principal Metals: Copper zinc 14. No. Employed: Expl.

15. Mill, Type & Capacity:

16. Present Operations: (a) Down  (b) Assessment work  (c) Exploration   
(d) Production  (e) Rate \_\_\_\_\_ tpd.

17. New Work Planned:

18. Miscl. Notes: Longyear drilling.

Date: Oct. 7, 1969

*G. W. Irvin*  
(Signature)

G. W. Irvin  
(Field Engineer)

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine **Control Mines**

Date **Dec. 13, 1961**

District **Oracle (Control) District), Pima Co.**

Engineer **Axel L. Johnson**

Subject: **Field Engineers Report. Information from F. Ted Johnson, Box 243, Oracle.**

Location **Approx. Sec. 19 - T 11 S - R 16 E. 2 to 3 miles north of Summerhaven.**

Owners **Arizona Copper Mines, Inc., John E. Mowinckle, President, 1404 Milam Bldg., San Antonio, Texas.**

Principal Minerals **Copper**

Present Mining Activity **No operations at present. Suspended diamond drilling operations about one month ago. Expect to resume again next spring.**

Review of Recent Operations

**Geophysical work was done last spring and summer by Allen M. Rugg, geologist, Tucson, Ariz.**

**Following this, Arizona Copper Mines, Inc. started diamond drilling, using their own drill rig. This drilling is reported to have started some time in August. 3 drill holes were completed, and a 4th drill hole had been started, when operations had to be closed down on account of bad weather. The drill rig and other equipment is now reported to be snowed in. It is expected that drilling operations will be resumed next spring after the snow is gone and warmer weather prevails.**

**It was reported that the diamond drilling was done on the Hartman claim, which is one to two miles SW of the territory explored a few years ago by the American Exploration Co.**

Company representatives

**Louis Stickrad, Dos Cabezas, Ariz. is the local representative of the company.**

**John C. Gung'l, attorney, Valley National Bank Bldg., Tucson is their local legal representative.**

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**Visited Control Mine, found no one around.**

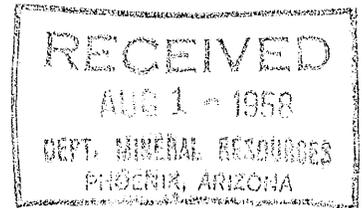
**GWI WR 8/23/65**

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1-10  
Jan. 17, 1958

Memo to Mr. Frank P. Knight, Director

From: Axel L. Johnson, Field Engineer



✓ Control Mines  
(also called 'Catalina')

Oracle (Control District) -- Pima County.

Location Drive south from Oracle on Summerhaven road, a distance of 16.6 miles to a Y in the road, and take right fork of the Y. Continue for another 6.4 miles on a steep & rocky road to mine. Oracle to the mine is 23.0 miles.

Owners ✓ Arizona Copper Mines, Inc.  
Milan Bldg., San Antonio, Tex.  
✓ John Mowinkle, Pres.  
✓ W. R. Shanklin, Gen. Mgr.  
✓ James E. Gaylor, local business manager.

Principal Minerals Copper ores, mixed oxides and sulphides. Lower lev. sulfide.

Pres. Mining Act. Idle.

Milling & Market. Fac. None at property. The 3 C Ranch Mill would, no doubt, be available for milling the ore on a custom or share the profit basis.

Past History Reported to have been in production about the time of World War II. No production records listed in Ariz. Bureau of Mines report.

Exploration work done by American Exploration Co. under direction of Ted Johnson, Oracle, Ariz. from July 1, 1954 to spring of 1955. Expl. work consisted of sampling and diamond drilling. Reported as having found some good values of scheelite in addition to copper.

Remarks: Richard Chilson reported as interested in the property.

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT



Mine Control Mines Inc.

Date Sept. 23, 1942

District Old Hat

Engineer George A. Ballam

Subject: Production Possibility Survey

Supplementing report on Control mines, Report to Leon Henderson, 1941.

Litigation with Daily Mine ended by agreement under which Control mill-site will be leased from Daily, and Daily mine ore will be received for milling at Control mill. Effected during the past few days. Department instrumental in effecting conciliation by working on all parties concerned, and having two parties interested in property report litigation as cause of rejection.

Rumor in Tucson that Capt. Benj. Anderson interest in Control sold. Could not find Wells and Capt. Anderson returned from leave to foreign service. Talked to Mrs. Anderson who has his power of attorney. Denies any sale but admits option on property. No further information obtainable, yet.

The Control mill has been running far below capacity during the past few weeks, due to a number of causes, among which the severe illness of Newt Wells, absence of Capt. Anderson in Panama, litigation with Daily, are important. I believe the new situation will improve matters, and Daily informed me that he can keep the mill going from his property alone. It has been on two shift basis for some weeks.

*George A. Ballam*

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine Control Mine Date June 19, 1942  
District Old Hat Dist., Pima Co. Engineer A. Brodie Campbell  
Subject: Location 28 miles SE Oracle on top  
eastern flank of Catalina Mts.

OWNER - Control Mines Inc., Oracle, Arizona.

OPERATOR - NEWT WELLS, Box 57, Oracle, Arizona.

PRINCIPAL METALS - Scheelite, Chalcopyrite.

PRODUCTION RATE - None for tungsten except for sparodic high grading.

POWER: AMP. & TYPE - 350 Diessel.

OPERATIONS: PRESENT Mining and milling about sixty tons of copper ore.

MEN EMPLOYED: 100

MILL: TYPE & CAP. None for tungsten

OPERATIONS PLANNED - Treat present ore for small amount of scheelite  
occurring with the copper. Explore for additional scheelite values.

DESCRIPTION: TOPOGRAPHY & GEOGRAPHY - Rugged mountainous - 6500' elevation.  
Fair amount of timber. Good precipitation.

MINE WORKINGS: AMP. & CONDITION - Many thousand of feet of drifts stopes winzes  
and cross cuts. Open for the most part. Backs  
hard to see because of open stopes.

GEOLOGY & MINERALIZATION - Mineralized zones occurring on the contacts of lime-  
stone pendants in granite. These contacts are traceable  
for many miles in various places. The mineralization,  
copper and iron sulphides and varying amounts of scheelite  
occur at places along the contact principally in the lime.  
In places, apparently old water courses, there has been  
a considerable enrichment of the scheelite and almost  
total leachment of the copper. Scheelite appears to  
favor extreme silification.

ORE: POSITIVE & PROBABLE, ORE DUMPS, TAILINGS - Discovery of tungsten mineral is too  
recent to estimate tonnage. There are about 60,000 tons of tailings that  
lamp as if they might run around 0.4% recoverable WO<sub>3</sub>.

VEIN WIDTH, LENGTH, VALUE, ETC. - The mineralized zone where the lime-granite  
contacts occur is roughly 12 miles long and three miles wide.

MINE, MILL EQUIPMENT & FLOW SHEET - Complete slime all-flotation copper mill. None  
for scheelite.

ROAD CONDITIONS, ROUTE - Good mountainous dirt road from Oracle to Mine. Take Mt. Lemon road from Oracle. Go 28 miles to first Forest Service Control Gate. Mine is in sight of gate about  $\frac{1}{4}$  mile off road.

WATER SUPPLY - Just sufficient to maintain 100 ton mill in normal seasons. This year being dry, water has been a problem.

BRIEF HISTORY - Has been a copper producer off and on for several years. Scheelite attendant in the copper ore was discovered in April, 1942.

REMARKS - This section is probably one of the best potential sections for new tungsten discoveries in the state. The Control Mine should erect a reclamation plant to treat current and past tails for scheelite.

# DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

## FIELD ENGINEERS REPORT

Mine Continental Copper, Inc.  
(Control Mine)

Date December 10, 1973

District Old Hat District, Pinal Co.

Engineer R. E. Lehner

Subject: Engineer's Field Report

Location: T 11 S, R 16 E, Secs. 16, 17 - West slope of Oracle Ridge, near base of Marble Peak (about 20 miles from Oracle by dirt road).

General Manager: John Roscoe - Box 662, Oracle, Arizona (Phone: 896-9500) (Continental Copper, Inc. is subsidiary of Continental Materials Corp.)

Geologists: C. J. Orback & John Fittes

Activity: Exploration and development work.

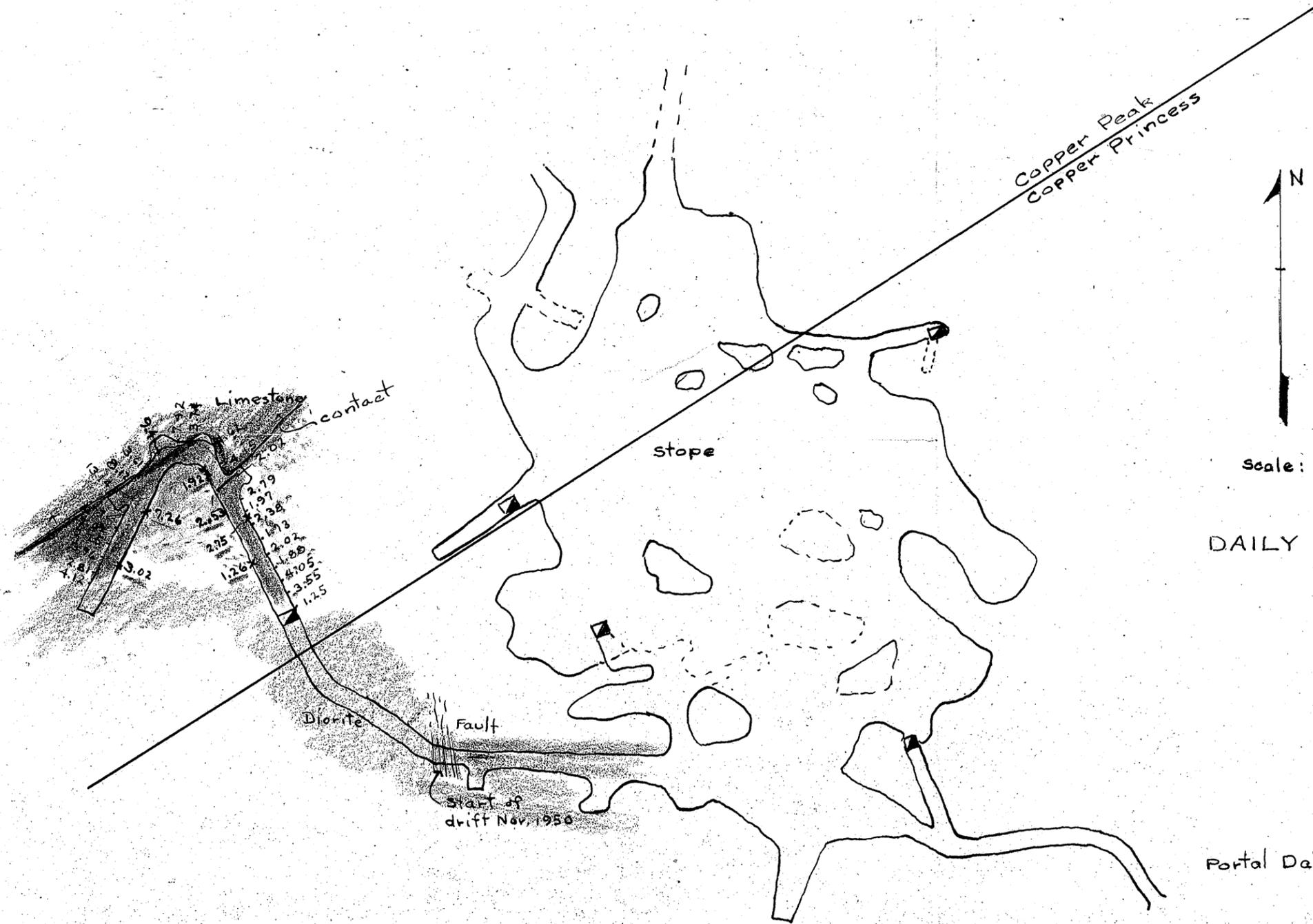
Brief History: According to Mr. Orback, a Mr. Alan Rugg (consultant) made a ground magnetometer survey over area 8 yrs. ago. He got a tremendous anomaly on north end of limestone area and another was found on the south end of property. Magnetite is within 100 feet of surface and in drilling that ensued, 80 feet of magnetite bearing rock contained 15% iron. This early drilling intercepted copper mineralization which was calculated to be about 350,000 tons of 2 to 2½ percent copper. This material would have to be mined underground and milled. A water survey indicated there would not be enough to support a 200 ton mill. Interest ebbed on the property. Later, Continental Materials Corp. got interested in property; formed Continental Copper, Inc. and started exploration.

Geology & Mineralization: The copper deposit is a pyrometasomatic replacement deposit. There have been found to date 10 separate deposits within a mile E-W and a mile N-S. They occur in a vague outline of a letter 'T.' The total tonnage of the 10 deposits is placed at 10 mt. with a grade of 2% copper (sulfides). One particular deposit has a firm tonnage of 3 mt. with a grade of 2.2% copper.

The ore controls are irregular but tend to follow: (1) general proximity to granodiorite stock (area containing mineralization is roof pendant); (2) joints and faults in stock (plumbing); (3) favorable beds and bedding planes in pendant; random fractures in rock. The stock was altered prior to mineralization. The ore minerals prefer zones of tremolite and serpentine. Garnet is pre-mineral and contemporaneous. There is a close association between magnetite and copper sulfides. Magnetite is on the hot side of sulfides. Two-thirds of the copper sulfide is bornite; one-third is chalcopyrite. There appears to have been an early stage of fine grained sulfides, and a later stage. Zone of minerals is good; Epidote, quartz, garnet, and scheelite occur on inside and bottomside near stock (things are zoned outward and upward); (2) next zone is magnetite, sulfides, garnet, diopside (dry silicates); (3) wet silicates, copper, magnetite; (4) silver halo (½ oz.), and manganese and iron and pyritic halo (400' - 500' wide zone).

Boyles Bros. was doing the drilling and the holes diviated quite a bit. The holes averaged about 600' depth, but the topography is rough and depths vary greatly. The position of the ore and the topography preclude open-pit mining. This granodiorite stock is the same one which extends to the Korn Kob mine to the south.

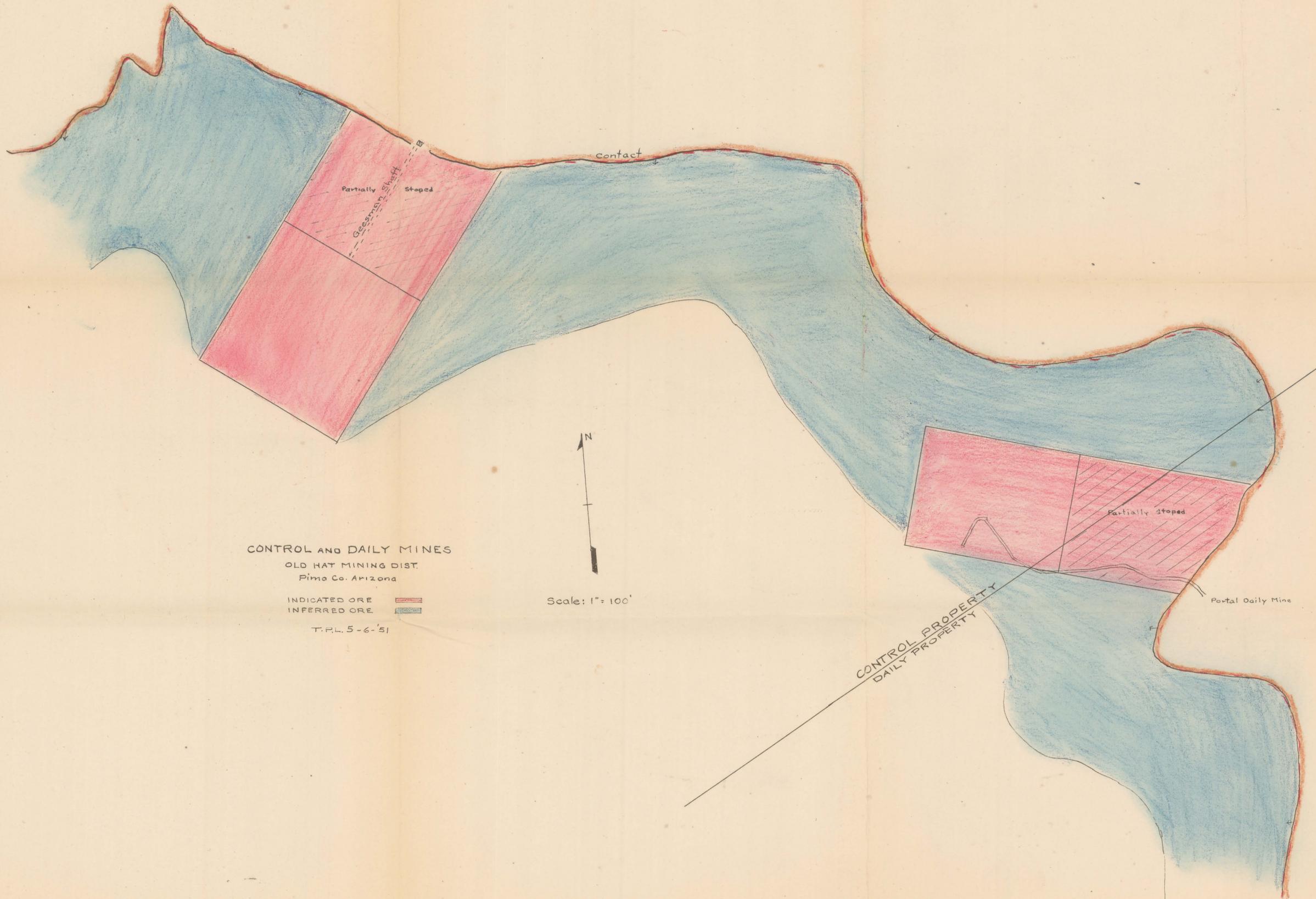
Water supply is a problem. A test well on State land indicates the availability of water but they want to charge 10¢/1000 gals. Also the State wants a 2-yr. lease with renewable



DAILY MINE

Portal Daily Mine

SKETCH No. 1



CONTROL AND DAILY MINES  
 OLD HAT MINING DIST.  
 Pima Co. Arizona

INDICATED ORE [red box]  
 INFERRED ORE [blue box]

T.P.L. 5-6-'51

Scale: 1" = 100'

CONTROL PROPERTY  
 DAILY PROPERTY

SKETCH NO. 2

SECTION - PROPOSED TUNNEL  
Scale: 1" = 200'

