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James Doyle Sell Mining Collection

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AMERICAN SMELTING AND REFINING COMPANY
SOUTHWESTERN EXPLORATION DIVISION
P. O. BOX 5747, TUCSON, ARIZONA 85703

1150 NORTH 7TH AVENUE
TELEPHONE 602-792-3010

July 20, 1973

Mr. Lyle R. Palant
Suite 1421
1501 North Miracle Mile
Tucson, Arizona 85705

Dear Sir:

Your packet of information arrived yesterday afternoon (July 19th) and I have had the opportunity to review both your information and some which is in our office.

In light of our own information and the apparent lack of any further geophysical or geological work, which might influence any decision, our office does not wish to participate in your proposal at this time.

I am returning your packet and map of the claim holdings. Also, for your information, Mr. J. H. Courtright is Chief Geologist of ASARCO. Mr. Courtright is presently out-of-state and could not handle this personally.

Sincerely,

A handwritten signature in cursive script that reads "James D. Sell".

James D. Sell

JDS:lb
Encs.

cc: JHCourtright
WLKurtz
RBCrist

Sheet 1421
1501 N. Mescal Mile
Tucson House
857 05.

July 19, 1973

Lyle Palant - Real Estate & Finance

ph. 622-8803

Original Call from Prof. Ted Anderson,

Californ., Consultant Economics.

1. Has assembled all T14S, R12E ^{Tract lands.} Sec. 28, 29, 30, 31, 32 ~~33~~ 33.
together w/ Sec. 22 T14S R11E. (W of Conoco)
Has colored coded map of property.
Sata this City initial development thoughts.
2. They are stumped on the SE development
so need mineral evaluation.
3. Have outright ownership on some.
4. Have 3400 acres of claims 1/2 of which has Fee ownership.
5. Have 400 acres of surface land with Conoco holding mineral claim.
6. Sedimentary strata. - Have outright mining rights thereof.
7. Have ideas & discussions with others. Has format.
8. Will deliver same.

KCL PDH MZs below 130' gravel SW SE Sec. 32 T14S R12E

Coehesly has done some work for him. ? In out - location so
could not confirm any work.

795-9790

OL

AMERICAN SMELTING AND REFINING COMPANY
Tucson Arizona

July 20, 1973

TO: W. L. Kurtz

FROM: J. D. Sell

Amole District
Tucson Mtn. Park Area
Pima County, Arizona

A Professor Ted Anderson, consultant in economics, from one of the California institutions called Norm Visnes on July 19th. The call was transferred to me and Prof. Anderson stated that he had a client who had some 3,400 acres of mineral claims. He asked if we were interested and I replied that ASARCO was always interested, but would need further information and especially geological-assay data and, of course, where the area is located.

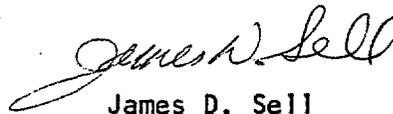
In the afternoon a Mr. Lyle R. Palant, real estate and finance, located at the Tucson House here in Tucson, called and said he was responding to Prof. Anderson's call. The area turned out to be south of Tucson Mtn. Park and west of Conoco's holdings.

After some one-way conversation, I asked if he had any new data which would help us evaluate the area and he replied that he had a map and some material and a proposal.

Attached is his material, proposal, and a Xerox copy of the claim portion of his map.

No information to help us evaluate the potential. As noted in the return letter to Palant, I have declined to participate in his offer, after reviewing this with Crist and our file information.

Last week I had lunch with Jim Cooksley and during the conversation we talked about Conoco, etc., and Jim alluded to having a client out in the area which was picking up a State Oil Lease within the Tucson Mtn. Park area and was a big dealer in the so-called "Satellite City" project. Apparently this is Mr. Palant's group. I was under the impression that Jim was or had done some geophysical work for the group. I called Jim's office, but he is on vacation so could not secure any further information.


James D. Sell

JDS:lb
Attachs.

cc: JHCourtright
RBCrist

From the desk of
L. R. Palant

Mr. Sells, Chief Geologist
American Smelting and Refining
1150 North 7th
Tucson, Arizona
85703

July 19, 1973

Dear Mr. Sells,

As per our conversation of this date please find enclosed the items we discussed. I shall look forward to hearing from you so that we may discuss this situation.

Yours most respectfully,



Lyle R. Palant
Phone # 622-8803

Enclosures
LRP/jm

TERMS AND CONDITIONS

FOR

SALE OF SURFACE & MINERAL INTERESTS
IMMEDIATELY SOUTH & WEST OF TUCSON MT. PARK
PIMA COUNTY, ARIZONA

- 1) SALES PRICE: \$15,000,000.00 (Fifteen Million Dollars)
- 2) DOWN PAYMENT REQUIRED: \$0.00
- 3) BALANCE PAYABLE:
 - A) \$15 million of unsecured long term notes (issued by a financially acceptable maker)
 - B) Not greater than 29% of par value (face amount) of the notes may be paid prior to July 15th, 1975; thereafter principal payments must be paid in not less than two (2) calendar years (exclusive) of 1975.
 - C) Amortization of notes: As specified by the financial institution that shall lend 90% of the face value of the notes above referenced. Lending institution to be provided by maker of the \$15,000,000.00 of notes.
 - D) Interest rate on notes: As charged by financial institution that will make the loan secured (only) by said notes.
 - E) Interest payable: Monthly
- 4) PROPERTY BEING SOLD: In Township 14 South, Range 12 East, Pima County, Arizona

SECTION 28:

65 acres-surface only (located in West $\frac{1}{2}$ of Southwest $\frac{1}{4}$)-
Continental Oil holds mineral claims.

SECTION 29:

320 acres of mineral rights (owned in fee simple)

300 acres of surface ownership

Both mineral interests and surface interests are located in
South $\frac{1}{2}$ of Section 29

SECTION 30:

Mineral rights (claims) to the entire section (except Millstone
Manor No. 6 subdivision, which contains 160 acres)

80 acres surface ownership-North $\frac{1}{2}$ of Southeast $\frac{1}{4}$ of Sec. 30.

SECTION 31:

Mineral claims to the entire section

Surface ownership:

150 acres in Southeast $\frac{1}{4}$ of Section

150 acres (minimum) in North $\frac{1}{2}$ of Section

SECTION 32:

Hydro-Carbon Lease, plus mineral claims to entire Section (except two school site locations of 30 acres, total, situate therein).

Surface-None (owned by State of Arizona)

SECTION 33:

Surface ownership:

120 acres in Northwest $\frac{1}{4}$

90 acres in South $\frac{1}{2}$ of South $\frac{1}{2}$ of Section

Mineral ownership:

None-Continental Oil claims exist thereon

SECTION 16:

Mineral ownership:

Hydro-Carbon lease and mineral claims on the entire East $\frac{1}{2}$ of said Section.

Surface ownership:

None- (owned by State of Arizona)

PROPERTY BEING SOLD: In Township 14 South, Range 11 East, Pima County, Arizona

SECTION 24:

Mineral ownership:

Claims to the entire section

Surface ownership:

640 acres

TOTAL DEEDED ACRES (MINIMUM) - which includes more than 5.5 miles of major road frontages is 1,595 acres.

TOTAL MINERAL CLAIMS OR OWNERSHIP is 3,300 acres or more.

- 5) CLOSING DATE: Immediate
- 6) TITLE INSURANCE: Paid in full by Seller
- 7) EXISTING DEBT ON PROPERTIES: \$4,000,000.00
- 8) DEBT AT TIME OF CLOSING: None
- 9) SELLERS:
 - A) Rancho Riata, Inc., an Arizona corporation
 - B) and Associates
- 10) REQUIREMENTS FOR EXPLORATION AND DEVELOPMENT OF MINERALIZATION IN SUBJECT AREA: NEGOTIABLE
- 11) ROYALTY PAYABLE FROM MINERALS EXTRACTED FROM WITHIN THE AREA: NEGOTIABLE

ASSUMPTIONS USED IN ANALYSIS

OF

"WEST TUCSON PROJECT"

(as REAL ESTATE - ONLY)

- 1) THE "PURCHASER" IS INTERESTED IN "MAKING MONEY" IN A CONSERVATIVE MANNER.
- 2) THE "PURCHASER" HAS NO RESERVATIONS IN UNDERTAKING A SOUND, THOUGH UNIQUE, BUSINESS TRANSACTION, SIMPLY BECAUSE THEY "HAVE NEVER DONE ANYTHING LIKE THAT BEFORE!"
- 3) THE "PURCHASER" WOULD NOT BE "UNHAPPY" HAVING ADDITIONAL WORKING CAPITAL ON HAND, WITHOUT DILLUTION THROUGH SALE OF ADDITIONAL CORPORATE SHARES, ETC..
- 4) THE "PURCHASER" HAS A STRONG INTEREST IN MINERALOGICAL DEVELOPMENT OF THE SUBJECT AREA. (N.B. THE "PLAN" WORKS WELL EVEN IF THE "PURCHASER" HAS NO INTEREST WHAT-SO-EVER IN MINERALIZATION!)
- 5) THE "PURCHASER" HAS A CLEAR UNDERSTANDING OF THE USES OF FINANCIAL "LEVERAGE" IN BUSINESS ACTIVITIES.
- 6) THE "PURCHASER" IS AWARE OF THE EXCEPTIONAL GROWTH OF ARIZONA AND IN PARTICULAR, TUCSON.
- 7) THE "PURCHASER" HAS NO INTEREST IN THE SUBDIVIDING OR DEVELOPMENT OF REAL ESTATE. IF SUCH AN INTEREST DOES, HOWEVER, EXIST TOGETHER WITH A KNOWLEDGE OF REAL ESTATE DEVELOPMENT, THE FINANCIAL REWARDS TO THE "PURCHASER" MULTIPLY ENORMOUSLY!
- 8) THE "PURCHASER" IS A BUSINESS ENTITY THAT MAKES MONEY AND WILL CONTINUE TO DO SO, TO A SIGNIFICANT EXTENT, FOR THE NEXT ELEVEN (11) YEARS.
- 9) THE "PURCHASER" IS SUBJECT TO ANNUAL PAYMENTS OF FEDERAL AND STATE INCOME TAXES, AT A 50% LEVEL ON EARNINGS, BEFORE TAXES, OF \$1,200,000.00 PER ANNUM (ON THE AVERAGE).
- 10) INTEREST PAYMENTS, IF PAID NOT GREATER THAN ONE YEAR IN ADVANCE, ARE PRESENTLY 100% "TAX DEDUCTABLE" AGAINST STRAIGHT INCOME (AND WILL CONTINUE TO BE SO DEDUCTABLE FOR THE NEXT 11 YEARS).
- 11) TUCSON, ARIZONA REAL ESTATE VALUES ON "CLOSE IN" VACANT, USABLE REAL PROPERTY, HAVING ALL UTILITIES WILL CONTINUE TO INCREASE AT 10% (OR MORE) PER ANNUM. (N.B. VALUE OF THIS TYPE OF PROPERTY INCREASED BY FAR MORE THAN 10% PER ANNUM OVER THE PAST 20 OR MORE YEARS.
- 12) TUCSON, ARIZONA POPULATION INCREASE (PERCENTAGE WISE) OVER THE NEXT 11 YEARS WILL BE AT LEAST 10% (1/10th) OF THE AVERAGE ANNUAL PERCENTAGE OF POPULATION INCREASE EXPERIENCED IN TUCSON OVER THE PAST 11 YEARS.
- 13) THE "PURCHASER" WILL BE ABLE TO EVALUATE THE MINERAL PRODUCTION VALUE OF THE SUBJECT PROPERTIES WITHIN THE NEXT 11 YEARS.

- 14) THE "PURCHASER" WILL SELL (WHOLESALE) THE ENTIRE PROPERTY, AS REAL ESTATE ONLY AT THE END OF THE 11th YEAR, ABSENT A DESIRE TO DEVELOPE MINERALIZATION IN THE AREA.
- 15) UNSECURED NOTES OF \$15,000,000.00 ISSUED BY "PURCHASER" WILL BE ACCEPTABLE SECURITY FOR AN INSTITUTIONAL LENDER (TO BE PROVIDED BY THE MAKER OF SAID NOTES) FOR PURPOSES OF LENDING 90% AGAINST THE "FACE AMOUNT" OF SAID NOTES. THIS 90% LOAN WOULD BE MADE TO THE "SELLERS" OR HOLDERS, IN DUE COURSE, OF SAID NOTES.
- 16) THE INTEREST RATE ON SAID \$15,000,000.00 OF NOTES WILL BE 8% PER ANNUM (PAYABLE MONTHLY).
- 17) THE INSTITUTIONAL LENDER (PROVIDED BY THE MAKER OF THE NOTES) WILL CHARGE 8% INTEREST PER ANNUM ON THE 90% LOAN TO BE MADE USING THE \$15,000,000.00 NOTES AS SOLE SECURITY.
- 18) THE NOTES WILL PROVIDE FOR NO PAYMENTS OF PRINCIPAL FOR AT LEAST THE FIRST 11 YEARS, WHICH MORATORIUM OF PRINCIPAL PAYMENTS WILL MATCH THE TERMS OF THE 90% INSTITUTIONAL LOAN TO BE SECURED BY THE REFERENCED NOTES.

FINANCIAL OUTLINE
OF
PURCHASER BEFORE CLOSING

FIXED ASSETS (AT COST)= X

LONG TERM DEBT (UNSECURED)= Y

AFTER CLOSING

FIXED ASSETS (AT COST OR
MARKET, THE LOWER THEREOF)

LONG TERM DEBT (UNSECURED)

X plus \$15,000,000.00

Y plus \$15,000,000.00

BEFORE TRANSACTION

ANNUAL TAXABLE INCOME= X

ANNUAL INCOME TAXES PAYABLE (50%
BASIS)= Y

AFTER TRANSACTION

ANNUAL TAXABLE INCOME

ANNUAL INCOME TAXES PAYABLE (50%
BASIS)

X minus \$1,200,000.00 (8%
INTEREST ON \$15,000,000.00)

Y minus \$600,000.00

LONG TERM SECURED LOANS AVAILABLE TO PURCHASER
(BASED ON 2/3 OF ASSETS, AT COST OR MARKET VALUE, THE LOWER THEREOF)

BEFORE

LONG TERM LOANS AVAILABLE (SECURED)

LONG TERM LOANS OUTSTANDING
(SECURED)

X

Y

AFTER

LONG TERM LOANS AVAILABLE (SECURED)

LONG TERM LOANS OUTSTANDING
(SECURED)

X plus \$10,000,000.00 (2/3 OF
\$15,000,000.00 ACTUAL COST)

Y plus \$10,000,000.00

CURRENT ASSETS & LIABILITIES

BEFORE

CURRENT ASSETS:

CASH ON HAND= X

CURRENT LIABILITIES:

Y

AFTER

CURRENT ASSETS:

CASH ON HAND= X plus \$10,000,000.00

CURRENT LIABILITIES:

Y

INCREASE IN WORKING CAPITAL (AFTER CLOSING) \$10,000,000.00 IN CASH (NON-TAXABLE, AS IT IS PROCEEDS OF A LOAN; THE INTEREST ON SAID LOAN BEING AN ADDITIONAL TAX DEDUCTION AGAINST STRAIGHT INCOME!)

THE ADDITION OF \$10,000,000.00 MAY BE USED FOR MINERAL EXPLORATION, PURCHASE OF PUBLICLY HELD CORPORATE SHARES (ASSUMING A DEPRESSED PRICE EXISTS), PAYMENT OF CURRENT LIABILITIES, EXPANSION OF CORPORATE FACILITIES, PURCHASE OF INTERESTS (OR CONTROL) OF SMALLER COMPANIES, CALLING OF CONVERTABLE, CALLABLE DEBENTURES OR STOCK, ETC., ETC., ETC..

R E F E R E N C E T E R M S U S E D

- 1) SOFT DOLLARS= AMOUNTS OF MONEY WHICH ARE 100% TAX DEDUCTABLE AGAINST "STRAIGHT INCOME".

- 2) HARD DOLLARS= AMOUNTS OF MONEY REMAINING AFTER THE PAYMENT OF FEDERAL AND STATE INCOME TAXES.

- 3) HARD DOLLAR COST= THE AMOUNT OF AFTER TAX DOLLARS INVESTED IN A GIVEN SITUATION.

SCHEDULE OF HARD DOLLARS INVESTED

(ASSUMING 8% INTEREST RATE ON \$15,000,000.00 OF NOTES AND A 50% TAX BRACKET OF PURCHASER)

<u>YEAR</u>	<u>TOTAL HARD DOLLARS-TO DATE</u>
FIRST	\$600,000.00
SECOND	\$1,200,000.00
THIRD	\$1,800,000.00
FOURTH	\$2,400,000.00
FIFTH	\$3,000,000.00
SIXTH	\$3,600,000.00
SEVENTH	\$4,200,000.00
EIGHT	\$4,800,000.00
NINTH	\$5,400,000.00
TENTH	\$6,000,000.00

BALANCE OF HARD DOLLARS STILL OWED AT 11th YEAR= \$15,000,000.00
(LONG TERM UNSECURED NOTES OUTSTANDING, WHICH WERE ISSUED AT TIME OF CLOSING OF THE ORIGINAL PURCHASE).

AS AT THE 11th YEAR, THE "COST BASIS", IN HARD DOLLARS, FOR THE "WEST TUCSON PROJECT" (AS REAL ESTATE ONLY) WOULD BE:

AFTER TAX MONEY-INTEREST PAYMENTS=	\$6,000,000.00
UNSECURED NOTES OUTSTANDING =	<u>\$15,000,000.00</u>
TOTAL TAX BASE (COST) =	\$21,000,000.00

AVERAGE HARD DOLLARS INVESTED ("OUT OF POCKET") OVER THE 10 YEAR PERIOD EQUALS \$3,000,000.00 (\$0.00 AT TIME OF CLOSING, \$6,000,000.00 AT END OF 10th YEAR).

VALUE SCHEDULE OF WEST TUCSON PROJECT

AS

REAL ESTATE ONLY

NOTE: A 10% ANNUAL INCREASE IN LAND VALUE HAS BEEN USED.

<u>YEAR</u>	<u>VALUE INCREASE</u>	<u>VALUE AT END OF YEAR</u>
CLOSING (\$15,000,000.00)		
FIRST	\$1,500,000.00	\$16,500,000.00
SECOND	\$1,650,000.00	\$18,150,000.00
THIRD	\$1,815,000.00	\$19,965,000.00
FOURTH	\$1,996,500.00	\$21,961,500.00
FIFTH	\$2,196,150.00	\$24,157,650.00
SIXTH	\$2,415,765.00	\$26,573,415.00
SEVENTH	\$2,657,341.50	\$29,230,756.50
EIGHTH	\$2,923,075.65	\$32,153,832.15
NINTH	\$3,215,383.21	\$35,369,921.36
TENTH	\$3,536,921.53	\$38,061,136.89
ELEVENTH	\$3,890,613.68	\$42,796,750.57

VALUE COMPUTED TO ELEVENTH YEAR EQUALS	\$42,796,750.57
COST BASIS (FOR TAX PURPOSES)	\$21,000,000.00
NET TAXABLE GAIN EQUALS	\$21,796,750.57

ASSUMING THE "PURCHASER" DOES NOT DESIRE TO UTILIZE FROM A MINERAL DEVELOPMENT STANDPOINT, AND THUSLY ELECTS TO SELL THE PROPERTY ONLY FOR ITS REAL ESTATE VALUE (DURING THE TENTH YEAR OF OWNERSHIP) AND PRIOR TO THE DUE DATE ON THE \$15,000,000.00 OF UNSECURED NOTES USED TO ACQUIRE THE PROPERTY, THE TOTAL HARD DOLLARS "OUT OF POCKET" AVERAGED OVER A TEN YEAR PERIOD WOULD BE \$3,000,000.00 AS CONTRASTED TO A NET GAIN FROM REAL ESTATE OF \$21,796,750.57! THE GAIN OF \$21,796,750.57 SHOULD OF COURSE, ALSO BE DIVIDED BY TEN YEARS IN ORDER TO ASCERTAIN THE ANNUAL AVERAGE DOLLAR GAIN ON THE AVERAGE ANNUAL HARD DOLLAR INVESTMENT. USING SUBJECT FORMULA, THE AVERAGE HARD DOLLAR INVESTMENT OVER THE SUBJECT PERIOD (TEN YEARS) WOULD BE \$3,000,000.00. THE AVERAGE ANNUAL GAIN ON THE \$3,000,000.00 INVESTMENT WOULD BE \$2,179,675.06 (BEFORE FEDERAL AND STATE TAXES).

\$3,000,000.00 PER ANNUM YIELDS \$2,179,675.06 PER ANNUM (BEFORE TAXES).

THE AVERAGE INVESTMENT RETURN TO THE "PURCHASER" (AND OF COURSE ITS STOCK-HOLDERS, IF ANY) IS THEREFORE 72.656% PER ANNUM BEFORE TAXES.

THE FOREGOING ANALYSIS OF THE "WEST TUCSON PROJECT" ASSUMES NO MINERALIZATION DEVELOPMENT BY "PURCHASER" AND PRESUMES NO REAL ESTATE DEVELOPMENT BEING UNDERTAKEN BY THE "PURCHASER"!

COLOR CODE

Mineral and Surface Ownerships

SOUTHERLY PORTION OF Tucson Mountain Park Area

3562

3748 III
(COCORAOUE BUTTE 1:62,500)



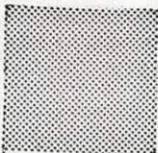
CONTINENTAL OIL COMPANY (CONOCO) MINING CLAIMS ON PRIVATE AND PUBLIC LAND (CONOCO OWNS NO SURFACE AREA)

3560



SIGNO VINCES, INC., AND/OR RANCHO RIATA, INC. (AND ASSOCIATES) SURFACE OWNERSHIP AND MINERAL CLAIMS (OR OUTRIGHT OWNERSHIP OF MINERALS)

3559



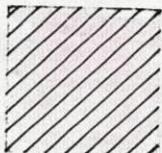
SIGNO VINCES, INC. HYDRO - CARBON LEASE, MINERAL CLAIMS; SURFACE OWNED BY STATE OF ARIZONA

10'

T. 14 S.

T. 15 S.

3558



RANCHO RIATA, INC. MINERAL CLAIMS ON FEDERAL LAND (OPEN FOR MINERAL ENTRY)

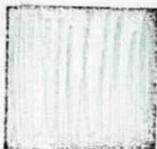
420 000
FEET

3557



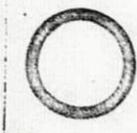
SIGNO VINCES, INC. AND/OR RANCHO RIATA, INC. (AND ASSOCIATES) OWNS SURFACE; CONOCO HAS STAKED MINING CLAIMS THEREON

3556



TUCSON MOUNTAIN PARK AND SAGUARO NATIONAL MONUMENT AREA (NOT OPEN FOR MINERAL ENTRY)

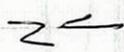
3555



AREAS OF KNOWN MINERAL PRODUCTION AND/OR PROSPECTING

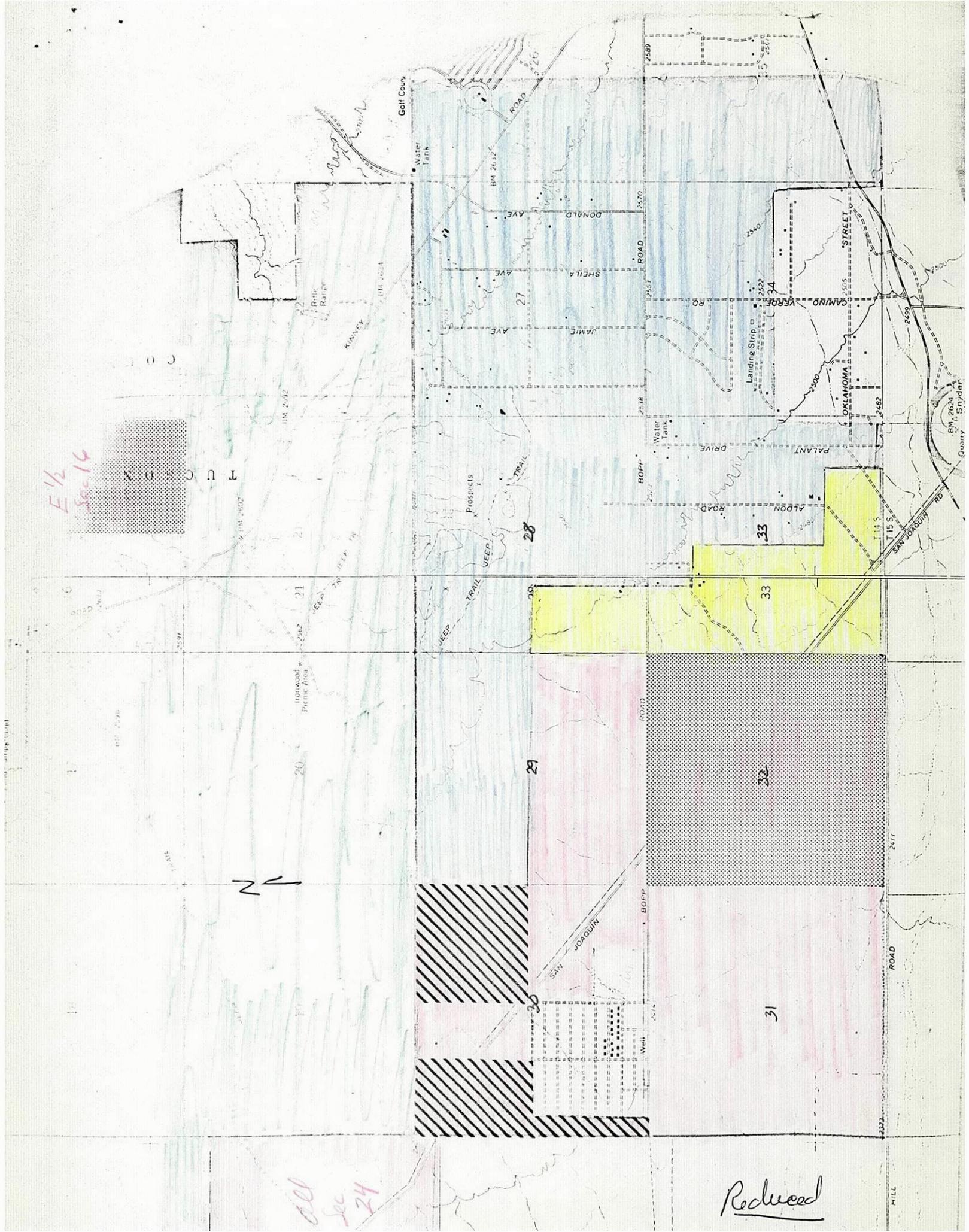
E 1/2
Sec 16

T U C S O N



old
Sec 24

Reduced



May 25, 1977

FILE MEMORANDUM

Current and Future Land Status
in the Amole Mining District
Pima County, Arizona

On May 24, 1977 I met with the following members of the Planning Department of the Pima County Manager's Office (792-8361): Alex Garcia, the director, Bob Johnson, Jim Lynch, Lance McVittie, and Ron Greene. The purpose of the meeting was to discuss the mineral potential of the Amole mining district, specifically the area bounded on the north by the Tucson Mtns., on the east by the Santa Cruz River, on the south by the San Xavier Indian Reservation, and on the west by Sandario Road.

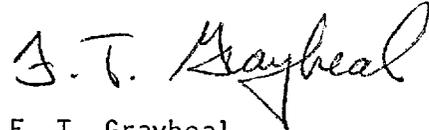
The meeting was the result of a move by various developers to zone this area for high-density housing developments. They want to make this the growth area of Tucson for the next twenty or so years. The members of the Planning Department recognize the importance of mineral deposits and wish to keep urban sprawl out of this area if various mining companies consider it worthy of further exploration. I informed them that the Amole District is considered to possess moderate to high potential for future discovery and that suburban expansion should be prevented here if at all possible. Specifically I noted the numerous small prospects, the very large area involved, the previous exploration activity in the district, the presence of extensive post-mineral cover, and the location of the area between the Silver Bell and Pima Mining Districts. I also pointed out the tendency of porphyry coppers to occur in clusters so that even if one submarginal deposit, such as currently exists at Saginaw Hill, should be found it does not mean that that is the only deposit in the area.

The Planning Dept. is now using the U.S. Geological Survey mineral resource potential maps for planning purposes. I noted that these maps use an alluvial depth of 1,000 feet as an arbitrary cut-off below which they consider there to be no further mineral potential and informed them that the current trend in Arizona is toward exploration in the valleys and at depths up to at least 3,000 feet. I pointed out that various new extractive techniques may make copper deposits at these depths fully as profitable as some of the shallower deposits.

They wanted to know how they might transmit my opinions to their superiors -- the Planning and Zoning Commission and the Pima County Board of Supervisors. I suggested they first obtain opinions from other exploration groups here in Tucson, then present the aggregate opinion. If they need to have someone speak personally I told them I preferred not to, particularly in public, because Asarco regards its exploration concepts as proprietary and public statements tend to bring the second stringers out of the woodwork looking for targets they can't generate themselves. I did

May 25, 1977

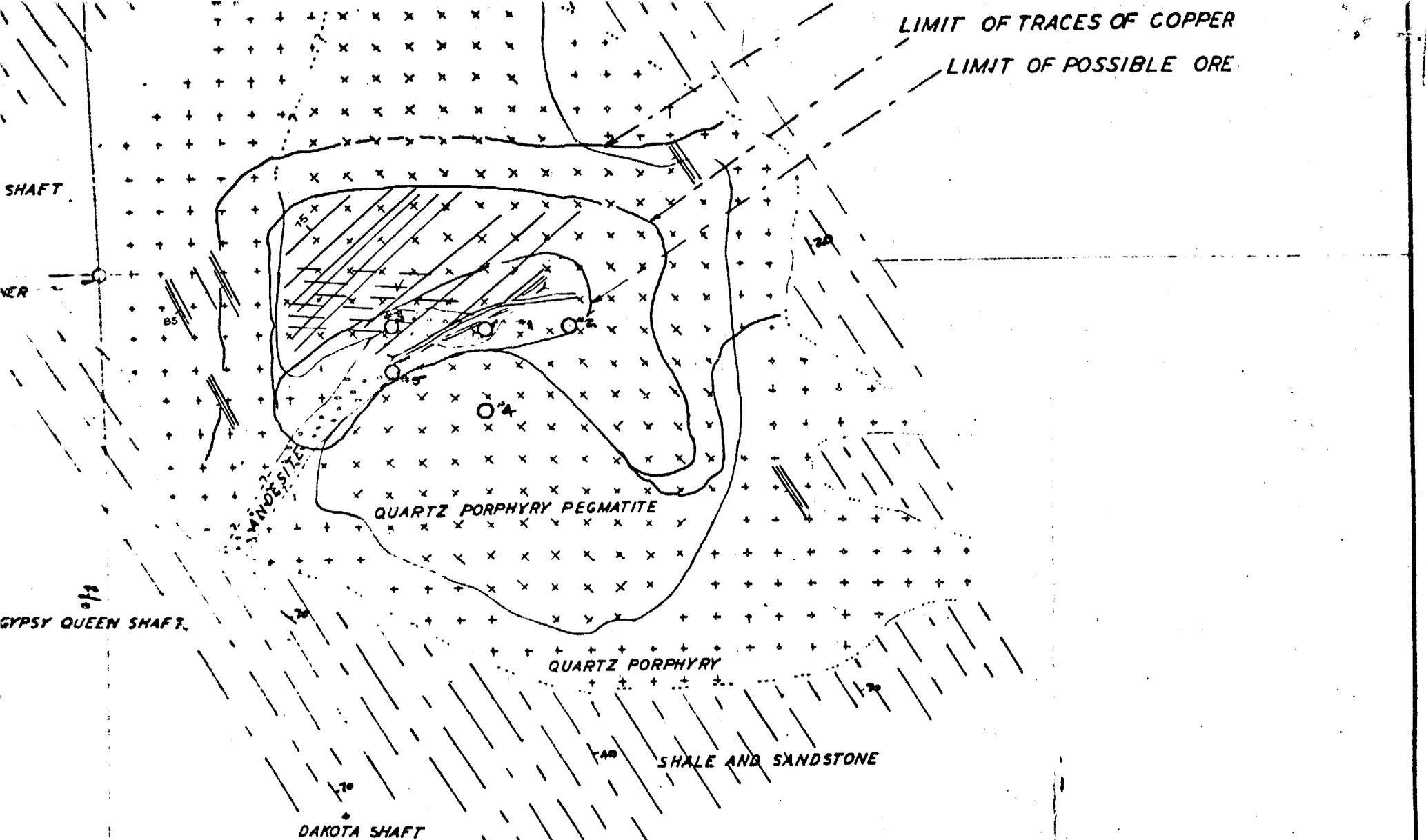
indicate I might talk to their group if all else failed and that the Arizona Mining Association might also make a statement on our behalf. In my opinion the Planning Dept. is on our side and they should be helped whenever possible. The area which may be opened to subdivision is large and once the county starts putting various utilities in the area it will be rather difficult to alter a westward expansion of the city.



F. T. Graybeal

FTG:lb

cc: WLKurtz
RBCrist
JDSe11 



LIMIT OF TRACES OF COPPER
 LIMIT OF POSSIBLE ORE

QUARTZ PORPHYRY PEGMATITE

QUARTZ PORPHYRY

SHALE AND SANDSTONE

DAKOTA SHAFT

AMOLE COPPER PROSPECT
 PIMA COUNTY ARIZONA

MARCH 30, 1946
 SCALE: 1:300

○ ESTIMATED POSITION OF
 C.&A. DRILL HOLES

RESULTS OF CALUMET AND ARIZONA DRILLING

This area was under option to the C and A in 1914 and was diamond drilled subsequent to a report recommending drilling from the area near Joralemon. One of the chief reasons for this interest was the proximity of the prospect to a proposed Tucson to Ajo railroad. Five diamond drill holes were put down as tabulated below. They were closely spaced in the most favorable zone as can be seen from the map, except for number 4.

<u>Drill Hole</u>	<u>Depth</u>	<u>Au</u>	<u>Ag</u>	<u>Cu</u>	
1.	376 feet	.007	0.16	0.44	Assays are average of entire hole
2.	293 "	.007	0.09	0.37	
3.	270 "	.007	0.09	0.48	
4.	290 "	-	-	0.25	
5.	271 "	-	-	0.54	
	00			0.41	Geometric average all holes

The holes were sampled in five foot portions, all of the hole being sampled. Values varied from .10% to 1.5% Cu. Core and sludge was averaged together, the core recovery being rather poor. No significant change was observed with depth, the higher values being associated with random fractures.

Sulphides

September 8, 1977

FILE MEMORANDUM

Future Land Development
Amole Mining District
Pima County, Arizona

On Wednesday Sept. 7, 1977 a meeting was held at the Pima County Planning and Zoning Department at the invitation of J. D. Lynch, Planner. Also in attendance were 2 other members of the Planning staff, J. D. Sell and Stu Bengsten - Asarco, John Thames - U. of Ariz., Bob Moore - Cities Service, J. D. Johnson - Ariz. Mining Assoc., Paulette Dryden - a homeowner in the area, John Lacy - representing SMEA, two members of Argonne Nat'l. Labs, and myself. The purpose was to discuss the mineral potential of this area relative to a possible major expansion of suburban Tucson in this area. The details of this problem were recorded in my memo of May 25, 1977.

Basically, the same points made then were repeated this time -- that the Amole Mining District should be kept open to mineral exploration. Several comments were made relative to mineral resource potential maps in the report of the Southwest Area Plan -- basically that the line they drew representing 1000 ft. of alluvium had no bearing on the potential for the occurrence of copper deposits. It was pointed out that depth does have an impact on the economics, although there was no magical depth at which deposits became uneconomic.

The overall discussion was of a general nature and we were told that we would be kept advised of progress of the plan which will be presented to a number of different groups. Lynch indicated that a letter to him with a general statement of our viewpoint would be helpful and I told him I would oblige. J. D. Johnson also said he would provide a letter from the Ariz. Mining Assoc. It is my opinion that the 72 square miles encompassed by the Southwest Area Plan is legitimate porphyry copper exploration ground, lying as it does along strike of the Ruby Star granodiorite and adjacent to exposed copper mineralization in the Amole District, and it is worth our effort to keep it open to exploration until such time as holes can be drilled. The county can't zone for no development, but they can zone for low density development (no more than 1 house per 4 acres) and they should be provided with enough general information to convince the Board of Supervisors to do so.

F. T. Graybeal
F. T. Graybeal

FTG:lb

cc: WLKurtz /
JDSe11 /
RBCrist

AGENDA

POTENTIAL FOR MINERALIZATION-SOUTHWEST AREA PLAN

- I. Introduction *Discussion*
 - A. Names and Organizations
 - B. Reason For Meeting
- II. Review Text and Maps - SWAP
 - A. Geology Text
 - B. Copper Potential and Non-Metallic Maps
- III. Recent Trends in the Southwest Area
 - A. Population
 - B. Housing
 - C. Vacant Land/Developed Land
 - D. Public Services
 - E. Capability Maps
- IV. SWAP Planning Process
 - A. Planning Process
 - 1. Development Capability Inventory
 - 2. Citizen Participation
 - 3. Alternatives
 - 4. Citizen Participation
 - 5. Plan Selection/Adoption
 - B. The role groups or citizens play in the planning process.
 - C. Possible courses of action for this group.
 - 1. ???
 - 2. ???

? on fault = south coast.

*present GR
General Residual*

TRENDS

*2010 is not within
jurisdiction*

I. Population

<u>Year</u>	<u>People</u>
1970	5,974
1975	15,964
1977	19,500*

*estimated

II. Housing - See Chart

<u>Type</u>	<u>Amount</u>	<u>Percent</u>
Conventional Single Family	1,721	32%
Mobile Homes	3,387	63%
Multi-family	311	6%

III. Vacant Land/Developed Land

A. Vacant Land. Out of a total of 45,920 acres (72 square miles), 39,445, or 86% is vacant. Most of the vacant land, 31,762 acres, is in parcels larger than 20 acres in size and located in the western portion of the Plan area.

B. Developed Land.

1. 72 subdivisions, 7,234 lots, 64% developed.

2. 1,557 parcels less than 5 acres in size, 45% developed.

IV. Ownership

<u>Owner</u>	<u>Acres</u>	<u>Percent</u>
Private	29,383	64%
Public	12,156	26%
Institutional	4,361	9%
Mining Claims	20	1%
Totals	45,920	100%

V. Services

A. Schools - 25 sites reserved by District 1

B. Parks - reserved park sites by school sites

C. Water - 42" main along Valencia

D. Sanitary Facilities - Existing Interceptors at capacity. New study being proposed. *is part of any further development.*

VI. Capability Maps

1. Urban

2. Suburban

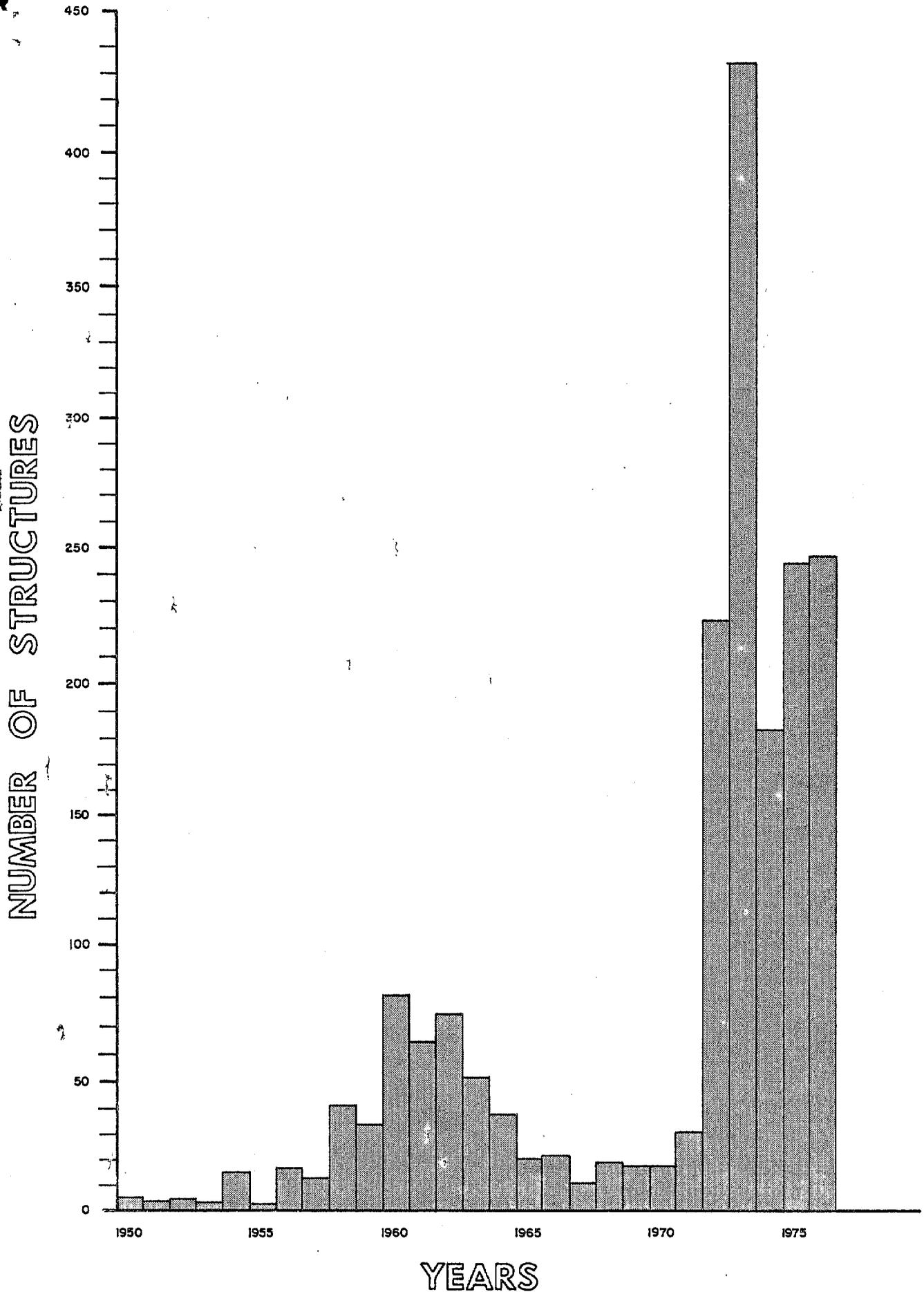


FIGURE 4 CONSTRUCTION OF RESIDENTIAL STRUCTURES BY YEARLY INCREMENTS

