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## Magma Copper Company

## ASSAY CERTIFICATE "A"

CENTROID Cu. Co.

Date

7-15-57

No.	LOCATION & REMARKS	CU %	AG OZ.	AU OZ.				
C-1	DDH#3 506' to 511'	0.15						
C-2	" 511' to 520'	0.15	✓					
C-3	" 530' to 543'	0.15						
C-4	DDH#2 271' to 273'	0.30	✓					
C-5	" 273' to 277'	0.70	✓					
C-6	" 277' to 283'	0.10	✓					
C-8	DDH#8 235' to 245'	0.05	✓					
C-9	2' Channel Centroid #17 Claim	0.25						
C-10	DDH#2 316' to 321'	0.10	✓					
C-11	" 321' to 322'	0.50	✓					
C-12	DDH#2 (323'-26') <sup>2.9</sup>	0.15	✓					
C-13	DDH#2 (326-336)	0.80	✓					
C-7	DDH#8-(216-235)	0.10	✓					
H-W-1	Grnt samples from	0.55						
H-W-2	House Whim Dump,	0.55						
H-W-3	" " "	0.45						
H-W-4	" " "	0.35						
H-W-5	" " "	0.55						

0.49%

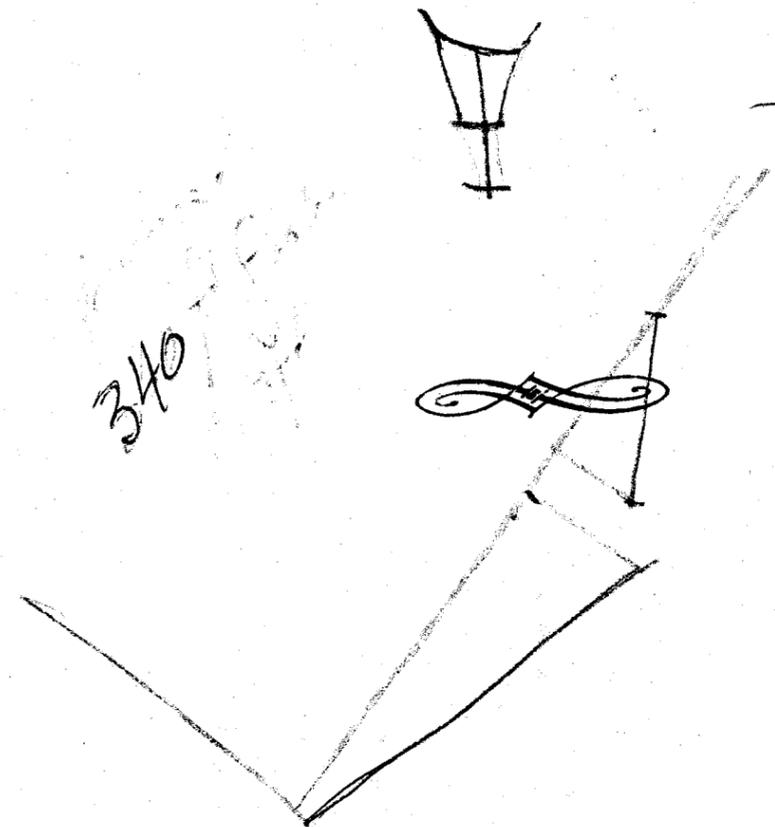
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 51245  
 245

R. E. Michman

CHIEF CHEMIST



# Prospectus



**CENTROID CONSOLIDATED MINES**  
**909 North First Street**  
**Phoenix, Arizona**

# Prospectus

## CENTROID CONSOLIDATED MINES

~~909 North First Street~~

Phoenix, Arizona

Telephone AL 4-2511

P. O. Box No. 2236

Incorporated under the laws of the State of Arizona - 1936

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**CAPITALIZATION:**

Total authorized capital	\$300,000.00
3,000,000 shares common stock	Par \$0.10
Fully paid and non-assessable	

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**THE COMPANY OFFERS TO THE PUBLIC:** 100,000 shares of its common capital stock at a selling price of \$0.50 per share. The per unit and aggregate offering price, commissions and net proceeds to issuer is set forth in the following table:

	Offering Price	Underwriting Discounts and commissions	Net Proceeds to Issuer
Per unit	\$ 0.50	\$ 0.10	\$ 0.40
Aggregate	50,000.00	10,000.00	40,000.00

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**TRANSFER AGENT**

First National Bank of Arizona—Trust Department

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The shares of stock are offered subject to prior sale and to withdrawal, cancellation or modification of the offer without notice.

**NOTE:** This prospectus has been filed with the Securities Department of the Arizona Corporation Commission, and also with the Federal Securities and Exchange Commission, under its regulations exempting from registration offerings not exceeding \$300,000.00. The offering herein described has been registered with the Arizona Corporation Commission.

**BECAUSE THESE SECURITIES ARE BELIEVED TO BE EXEMPT FROM REGISTRATION UNDER THE FEDERAL SECURITIES ACT, THEY HAVE NOT BEEN REGISTERED WITH THE SECURITIES AND EXCHANGE COMMISSION, BUT SUCH EXEMPTION, IF AVAILABLE, DOES NOT INDICATE THAT THE SECURITIES HAVE BEEN EITHER APPROVED OR DISAPPROVED BY THE SECURITIES AND EXCHANGE COMMISSION, OR THAT SAID COMMISSION HAS CONSIDERED THE ACCURACY OR COMPLETENESS OF THE STATEMENTS IN THIS COMMUNICATION.**

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No person has been authorized to give any information or to make any representations other than those contained in this prospectus, and if given or made, such information or representations must not be relied on as having been authorized by the company or by any person named in this prospectus. The statements herein contained are made as of the date of this prospectus unless another date is specified.

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August 5, 1952

**PURPOSE OF OFFERING**

The aggregate net proceeds to the issued will be expended, as nearly as can be estimated, as follows:

	Estimated
Administration, legal and engineering.....	\$ 7,500.00
Drifting, cross-cutting, sinking, Horse whim ore body.....	15,000.00
New head frame, power house, B. S. Shop, setting 25 H. P. hoist, incidental tools, etc., rehabilitation of timbering, main vertical shaft .....	10,000.00
Diamond drilling from the main shaftway.....	5,000.00
Timbering in main shaft and cross cut on 300 foot level .....	2,500.00
<b>TOTAL .....</b>	<b>\$40,000.00</b>

Priority of expenditure of the funds will be in the order above listed.

Some of the officers and directors may assist in selling the securities herewith offered for sale, in which event, they would be entitled to and would be paid, the commission of Ten (\$0.10) Cents per share, noted above. **THE CORPORATION, CENTROID CONSOLIDATED MINES, RESERVES THE RIGHT TO WITHDRAW THIS OFFER WITHOUT PRIOR NOTICE.**

**CORPORATE DATA**

The company was organized in the year 1936, as a mining company, under the laws of Arizona. The Articles of Incorporation, as amended, authorize the issuance of 3,000,000 shares of common capital stock, of a par value of \$0.10 per share.

1,680,950 shares have been issued and are outstanding.  
1,319,050 shares are unissued.

3,000,000 total shares authorized.

**PROPERTIES**

The principal assets of the corporation are set forth on the attached balance sheet. A survey map of the properties is also attached. The claims consist of:

- Jubilee Group
- Hancock Group
- Centroid Group
- Black Hawk Group
- Oversight and
- Capella Group

Comprising 37 unpatented mining claims, approximately 1-1/2 miles on the strike of the several vein systems and one mile wide. 23 of the claims are surveyed and mapped by J. W. Waara, U. S. Mineral Surveyor; 4 claims unsurveyed. These latter lie easterly from Jubilee 4, contiguously.

**Location**

Lying astride of and surrounding Cunningham Pass, Yuma County, Arizona, the mining claims groups are part of Sec. 7, 18 and 19, Range 12 west, Gila and Salt River Base and Meridian, and Sections 12, 13 and 24, Range 13 west, Gila and Salt River Base and Meridian.

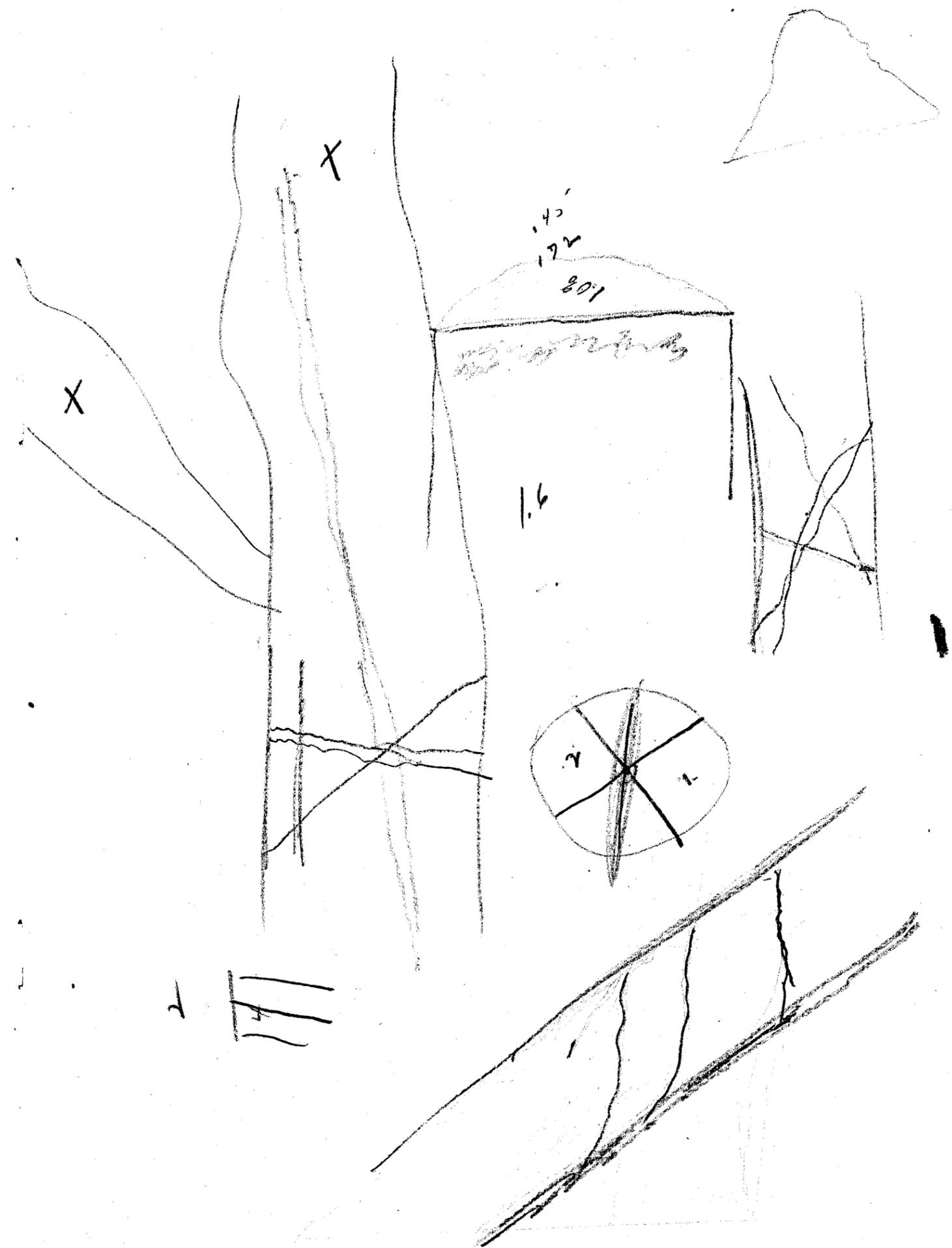
A Yuma County map is attached, upon which as been drawn the approximate location of the Centroid properties, eight miles northerly from the A.T.&S.F. Railroad Station, at Wenden, Arizona, and the surrounding mining properties which have been producers of valuable minerals. The Swansea Copper mine, a producer of much copper, lies approximately 20 miles north-westerly from Centroid property. Its ore is similar to that of Centroid.

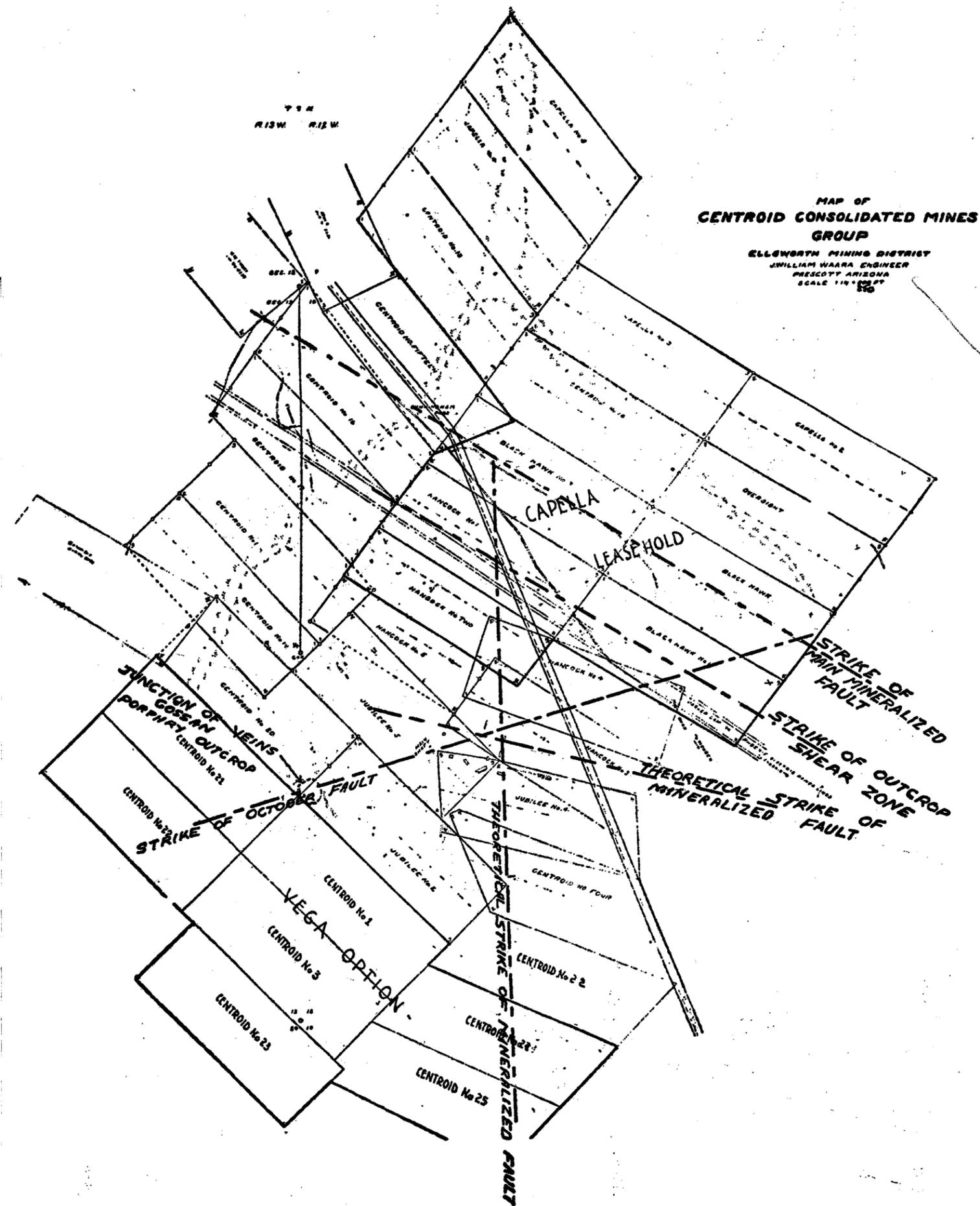
**Geology**

Pre cambrian, intruded by quartz porphyry, diabase, diorite, granite porphyry, pegmatite—and near the shears an ancient marine lime. (A map of the regional geology, showing the location of the Cunningham Pass, taken from Arizona State Geologic Map, is attached).

**Structure**

A wide mineralized fault runs through the Centroid Properties for over a mile, making its way finally through Cunningham Pass both northwest and southeast, presumably burying itself





northwesterly in Butler Valley and southeasterly in McMullen Valley. A claim map attached shows the approximate location of this mineralized fault and its theoretical extensions both northwesterly and southeasterly.

Westerly from the main mineralized fault, and extending both northwesterly and southeasterly, is an area spoken of by mining engineers as (1) a shear zone, or, (2) several parallel shears. The claim map attached shows the approximate location of this shear zone or the several parallel shears, with their theoretical extensions.

Atop the foothills, further west, is the principal outcrop of the Centroid properties. This apex of an important junction of wide mineralized veins, a fracture zone and intruded diorite in the vein matter, is prominent with outcropping copper stained porphyry. The claim map attached shows the approximate location of this outcrop.

#### Mineralization

Copper, gold, silica and iron appear to predominate.

#### Development

During the past fifty years (and probably before the year 1900—but of which we have no authentic information) intermittent prospecting has been carried on in the Cunningham Pass District. However, most of this prospecting has been done in search of high grade outcrops that would produce shipping grade ores. This type of prospecting, when carried on, has resulted in intermittent shipments of profitable ores, but has not properly prospected the district's possibilities as to the existence of large low grade deposits. Even so, this type of development has opened up pay ores near the surface, and such ores have been shipped to smelters from the mining properties known as the Critic, Bullard, Little Giant, Cuprite and Robinson. This last mentioned (Robinson) is now the location of the Centroid properties.

The present development of Centroid properties is being concentrated on large outcrops and adjoining mineralized areas in an effort to prove that these large veins and junctions will develop into large low grade deposits, or produce the much sought for secondary copper with gold and silver.

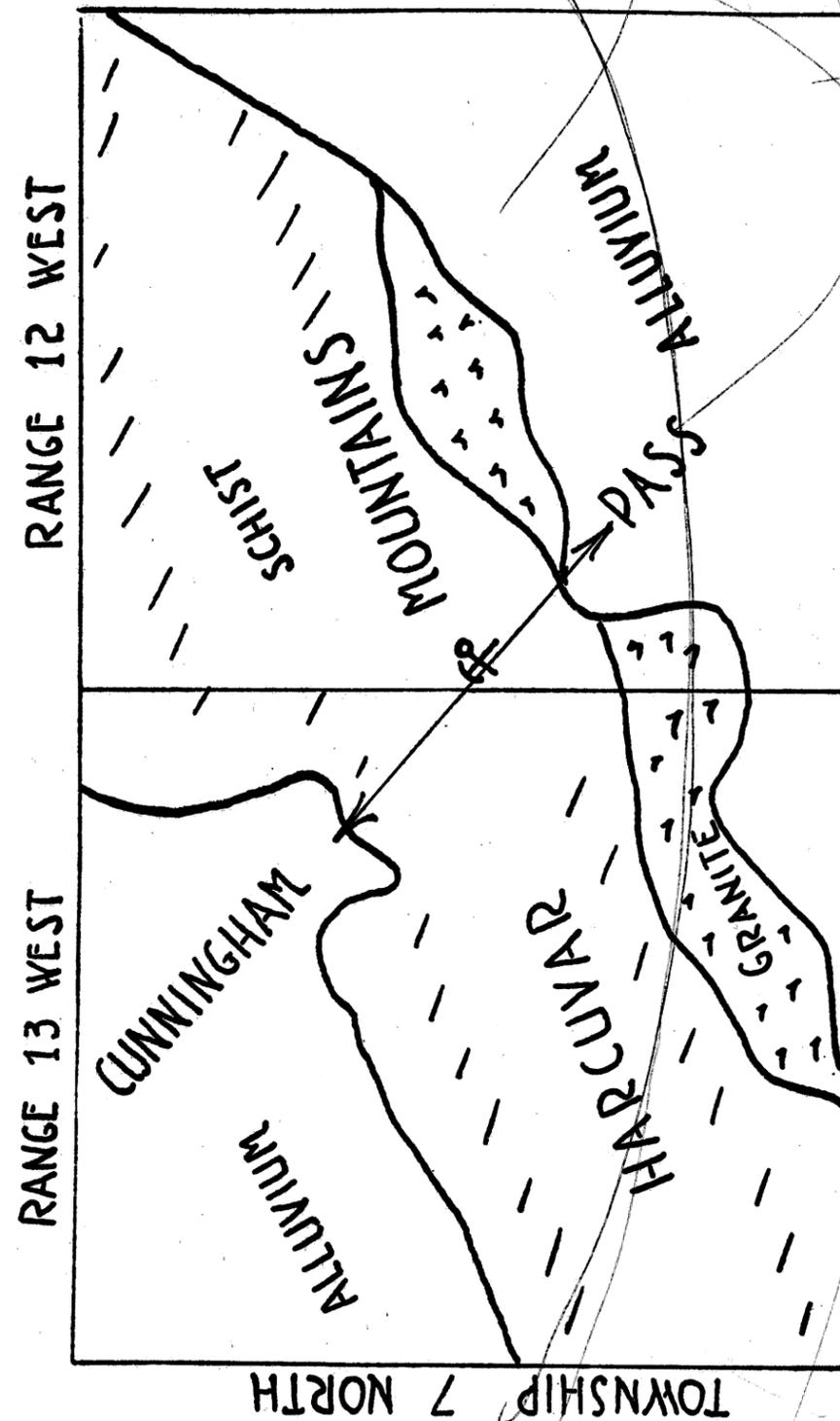
On the mining claim Hancock No. 2, open cuts found good grades of shipping ore and a shaft was sunk to a depth of fifty feet on a diorite contact which produced more evidence in the form of oxydized shipping grade of copper-gold ore. Along the foothills (being the westerly portion of the Centroid properties) every mining claim showed satisfactory mineralization in holes, shafts, open cuts and tunnels, the minerals exposed or shipped to the smelter being predominantly of gold, silver, copper, iron and silica.

Of late years, shafts were sunk on the mining claims Jubilee No. 5, Centroid No. 4 and Jubilee No. 2, each one encountering most encouraging deposits of oxydized and leached ores, and opening up wide, crushed (brecciated) shears or mineralized faults. Geological and mining engineering advice appears to indicate strongly that greater depth is necessary. Diamond drilling is advised.

On the mining claim Jubilee No. 5 is located the main vertical shaft. This shaft was sunk to the 300 foot level and a long cross cut sent forward for 600 feet, cutting at 200 feet from the shaft bottom a diorite dike, from 200 feet to 300 feet, a zone of porphyry and gneis, and from 300 feet to 326 feet, a wide, brecciated mineralized fault, so crushed and open that the downward percolating waters have impoverished the 26 feet of crushed, quartz porphyry; the secondary values are presumed at a greater depth. This fault or shear is known as the October vein and carries some pyrite, some chalcopryite, and in places bornite carrying gold was found covered with a black oxide of copper or what might be termed in other districts—sooty chalcocite. (Note: The water being pumped from this shaft is of a red rusty color). This main vertical shaft and its underground workings on the 300 foot level was done by a former owner, Consolidated Arizona Mines, and under the immediate supervision of its then General Manager, W. B. Harris, who is at this writing the President and General Manager of Centroid Consolidated Mines.

A sketch map of this shaft and its underground workings is attached with a cross section of the immediate area correlating the main shaft with the Horse Whim Workings on the adjoining mining claim Jubilee No. 2; here, the Centroid company has, during the past eighteen months, widened and straightened out the shaft to the 200 foot level, extended the upper drifts, sunk the shaft to a depth of 386 feet, and completed over 500 feet of drifting and cross-cutting in an oxydized and leached ore body.





**Edwin Walter Mills, E. M. states:**

"I consider the geological conditions of your entire mining claims area to be very favorable and to warrant the conclusion that further prospecting and development work will surely lead to the discovery of large and profitable ore bodies." (Copy of Mr. Mills' report is dated March, 1937 and is on file with the Arizona Corporation Commission at Phoenix, Arizona).

**R. Burton Rose, M. S., Mining Geologist, San Jose, California, says in a letter dated April 8, 1952:**

"Geologic and mineralogic indications show marked leaching effect and the probability of appreciable deeper secondary enrichment."

**MANAGEMENT AND CONTROL**

The name, address and business experience of each officer and director of the company is stated below:

Mr. William B. Harris—President, General Manager and Director.  
 P. O. Box 2236  
 Phoenix, Arizona  
 Telephone: AL 4-2511

Mr. Harris has had forty years mining, prospecting, millwriting and mine construction experience, in a supervisory capacity.

Mr. Robert W. Harris, Vice-President and Director  
 P. O. Box 1021  
 Phoenix, Arizona  
 Telephone: AL 4-2511

Mr. Robert W. Harris has had five years mining and prospecting experience, three years supervising of labor, five years office work and accounting, and fifteen years as a corporation executive.

Mrs. Virginia J. Harris, Secretary-Treasurer and Director  
 P. O. Box 2236  
 Phoenix, Arizona  
 Telephone: AL 4-2511

Mrs. Harris served as a member of the Arizona State Legislature for two years, where she was chairman of the Mines and Mining Committee, and a member of the Committee on Corporations, Banking and Insurance. Twenty-five years as a corporation executive.

Mr. A. C. Haigler, Assistant Secretary and Director  
 1211 North First Street  
 Phoenix, Arizona  
 Telephone: AL 3-3065

Mr. Haigler has had thirty years mining experience.

Mr. Glen F. Blair, Director  
 4626 South Central Avenue  
 Phoenix, Arizona  
 Telephone: BR 6-0274

Mr. Blair has had several years mining experience in Utah and Arizona. Twenty-six years as business executive in his own business, agriculture and allied pursuits.

The controlling interest in the outstanding stock is held as follows:

W. B. Harris .....	18,634 shares
W. B. Harris and Virginia J. Harris.....	410,000 shares
W. B. Harris and Virginia J. Harris, as joint tenants with right of survivorship .....	176,783 shares
Virginia J. Harris .....	50,000 shares
Robert W. Harris and W. B. Harris.....	50,000 shares
Robert W. Harris .....	29,014 shares
A. C. Haigler .....	3,320 shares
A. C. Haigler and Violet Haigler.....	16,610 shares
Glen F. Blair.....	17,000 shares

Upon the organization of the company in 1936, 551,958 shares were issued to W. B. Harris, Trustee. The consideration for this original issue was the conveyance to the company of the entire physical assets of Consolidated Arizona Mines, an Arizona corporation, which were purchased by Mr. Harris at execution sale under a judgment in his favor against that company, in the amount of \$38,823.87.

The actual cost of the properties to Mr. Harris was \$38,823.87. The total consideration of \$55,195.80 reflects the actual cost, plus expense of maintenance and upkeep of the properties, engineering reports, taxes and miscellaneous expense incurred over a period of approximately two years.

The stock now held by the Harris family, i.e., W. B. Harris and Virginia J. Harris, and their son, Robert W. Harris, over and above the original issue mentioned, was issued in consideration of actual cash, labor and services rendered the company since its organization.

Mr. A. C. Haigler acquired 320 shares by direct purchase, and 16,610 shares were issued him in consideration of services rendered over a period of twelve months.

Mr. Glen P. Blair acquired his stock interest by direct purchase for cash.

### CONTRACTS AND LITIGATION

#### Lease to Capella Copper Company

During 1952, Centroid Consolidated Mines leased to Capella Copper Company, an Arizona corporation, the undeveloped mining claims owned by the company, designated on the attached claims map as the "Capella Leasehold." Capella Copper Company has a total authorized capital of \$750,000.00, divided into 3,000,000 shares of a par value of \$0.25. Initially 33,000 shares of Capella stock were issued to each of the original incorporators, Mr. Albert C. Haigler, Mr. Glen F. Blair and Robert W. Harris, son of Mr. William B. Harris. The consideration for the issue was services and expense in organization of the company, and locating additional claims adjoining the Capella Leasehold.

This stock, aggregating 99,000 shares, has been placed in escrow with the First National Bank, Phoenix, Arizona, Trust Department, under an agreement that it may be released only on order of the Arizona Corporation Commission, and the owners of such stock shall not be entitled to sell or transfer the same without the consent of the Arizona Corporation Commission, and shall not, pending such escrow, participate in any distribution of assets to stockholders until after the owners of all other securities shall have been paid in full. By agreement, all voting rights in the escrowed stock remains in Centroid until such time as Capella shall have issued to Centroid 51% of its total authorized capital stock, under the terms of the lease agreement.

The stock structure of Capella is so arranged that Centroid Consolidated Mines will at all times retain voting stock control of Capella, the latter being a subsidiary corporation. Each member of the Board of Directors of Capella Copper Company is a member of the Board of Directors of Centroid Consolidated Mines. Mr. Albert C. Haigler is President, Mr. Glen F. Blair is Secretary-Treasurer, and Mr. William B. Harris is Vice-President. These officers constitute the Board of Directors of Capella Copper Company.

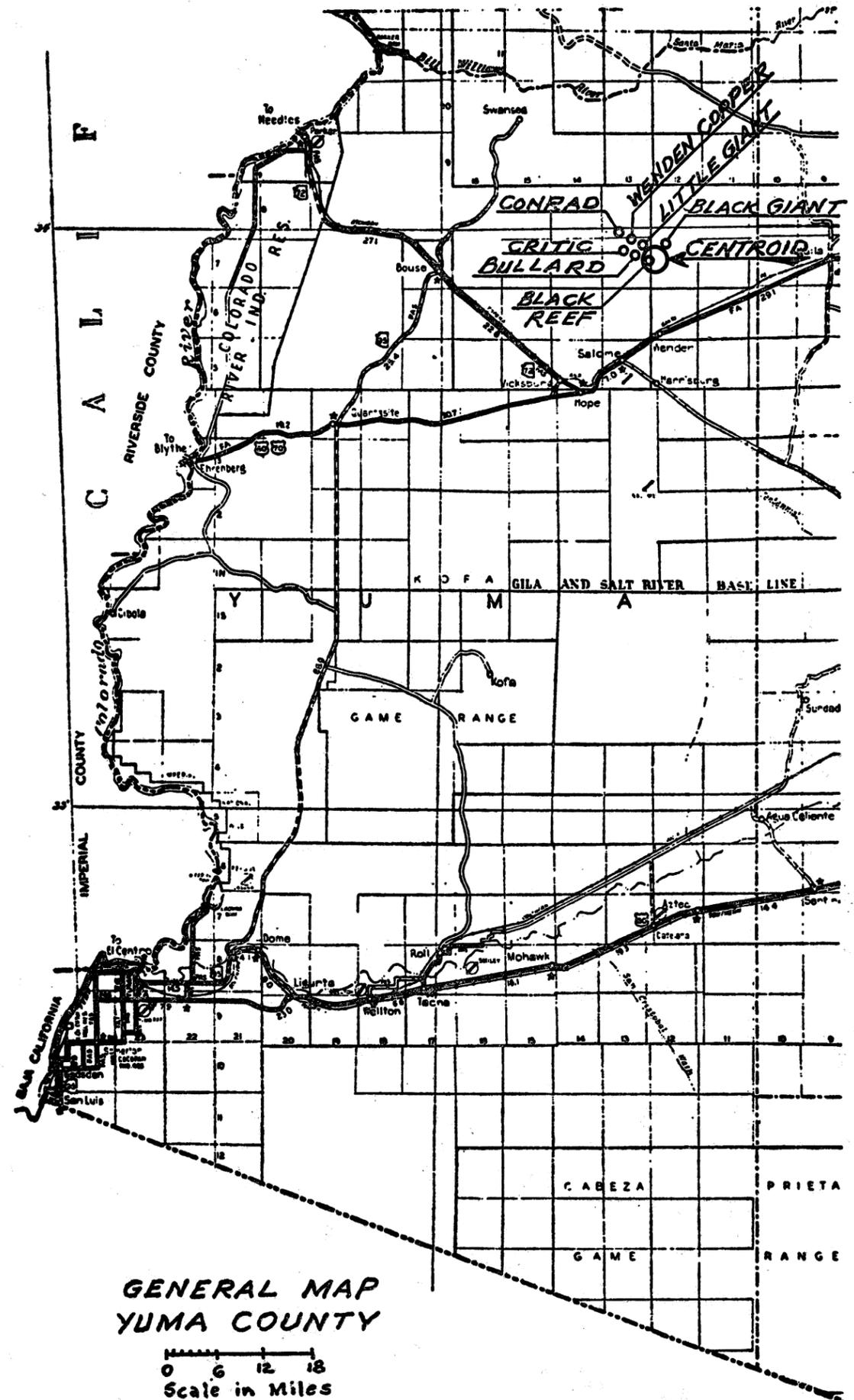
The lease with Capella Copper Company contains the following important provisions:

1. Capella has agreed to pay Centroid as rental for the five-year term, 251,000 shares of the capital stock of Capella.
2. Capella agrees to institute a diamond drilling development to cost \$50,000.00.
3. At the completion of the diamond drilling, Capella agrees to work continuously with reasonable diligence.
4. During the term of the lease (five years) Capella Copper Company is granted the option to extend the term of the lease an additional forty-five years, the rental for the extended term being 51% of the authorized capital stock of Capella.
5. No ore royalty is payable. Capella is entitled to all ores mined from the leasehold.

The performance of the obligation of Capella to carry on the diamond drilling program is contingent upon its ability to finance such program. Present plans of Capella are to sell sufficient of its capital stock to finance the drilling program.

In a lengthy report on the Capella Leasehold, Mr. R. Burton Rose, M. A., Mining Geologist, states:

"Deposition of the copper ore deposits, a prime Capella objective, is controlled by movement on the intersecting fault system after the hematite deposition and prior to the copper ore impregnation (and to a lesser degree) by channels left open. In this concept, the



major shear zone provided the access path for the copper solution from a deep-seated source and should contain the greatest copper ore accumulation."

The Number Two drill hole is pointed so that the Black Hawk vein and dikes showing copper content in the outcrops and a typical copper gossan, will be cut at an approximate vertical depth of 200 feet. Further diamond drilling is contemplated by Capella Copper Company upon completion of the preliminary diamond drilling advised by Mr. Rose. Mr. Rose further states in his report on Capella Copper Leasehold:

"Extreme leaching in the major shear zone near pole 340 (Note: in the vicinity of diamond drill hole No. 1) indicates the presence of a secondary enrichment zone at an indeterminate depth."

Hence, shallow drill holes first, deeper drilling later.

#### **Vega Lease and Option to Purchase**

A map of the Centroid properties under lease and option to Russell D. Van Houten and Edward S. Tanner is attached. This option includes the mining claims Centroid No. 1, Centroid No. 3, Centroid No. 21, Centroid No. 22, Centroid No. 23, Centroid No. 24 and Centroid No. 25 surveyed by J. W. Waara, U. S. Mineral Surveyor, and is referred to as the "Vega" leasehold. This block of marginal claims lying south of the Centroid principal development is cut through with one major fault in which there has been intruded a thoroughly oxydized diorite dike, and there are extensions of both shears and veins having their origin at or near the "Big Outcrop" reported upon by W. Tovote, Geologist and mining engineer.

The term of the lease is ten years; rental \$700.00 by April 30, 1953 and \$3,500.00 per year thereafter for nine years.

Lessees have the option to purchase the claims for Seventy Thousand (\$70,000.00) Dollars, rental and royalty to apply on the purchase price. Lessees agree within a reasonable length of time, after the completion of all preliminary details, to diamond drill and develop the properties.

Lessees are believed to be responsible operators and the development should add much to the progress of Centroid, and of the Cunningham Pass District; certainly potential copper deposits should be explored at this time.

#### **Litigation**

The company has filed a complaint against the United States of America in the Federal District Court, District of Arizona, seeking \$10,000.00 damages arising out of the construction by the Bureau of Reclamation of power lines across the company's claims without procuring easement or permission from the company.

Attention is called to what experience has taught us in the past—that all great mines once were prospects.

The history of all is very much the same, in that for years the prospector dug holes in the rocks in a "trial and error" operation which seldom, if ever, reached the desired objective. Discouragement and failure usually resulted. Rich outcrops were scarce and massive pay dirt for the most part was beyond the limits of pick and shovel work. Of late, however, science has made the game a lesser gamble; geophysical reconnaissance may now locate and map barriers, reefs, domes, faults and a probable loci for ores. Hazards and costly mining may thus in many cases be reduced. True, the science of mining has not reached a stage of perfection but the help it can give today is far superior to what the miner had access to at the turn of the century.

#### **Conclusion**

The undersigned believes that the plan of development of Centroid Consolidated Mines will result in the discovery of valuable ore bodies, and in handing you this prospectus, it has occurred to us that you might consider it a favor to be invited to join in an attractive speculation, which we recommend as such.

CENTROID CONSOLIDATED MINES,

a corporation

BY: (signed) W. B. HARRIS  
President

(From Phoenix Gazette July 5, 1952)

### COPPER REMAINS KING

"Official figures for 1951 show that Arizona again led all other states in the nation in the production of zinc, copper, lead, gold and silver.

The total value of the minerals was \$235,289,045, a healthy 17% higher than in 1950.

Copper of course was far and away the most profitable single mineral produced. Slightly more than \$200,000,000 worth of copper ore was extracted. Gold, silver, lead and zinc production, all fell off last year, due to exhaustion of veins. But COPPER REMAINED KING!

In view of the major new copper deposits now being developed, there is no reason to believe copper won't keep its crown firmly in place for many years to come."

### ASSAY INDEX

See sketch map of Main Vertical Shaft and Horse Whim Shaft underground workings.

- (A) 14 foot face, west drift, 375 foot level - Gold, \$0.35 Copper - 1.60%  
(B) Face, East Cross cut, 375 foot level - Gold, \$0.35; Silver \$0.72; Copper - 1.80%  
(C) Bottom of shaft - Gold, \$1.40 Copper - 2.45%  
(D) At 300 feet, shaft bottom - Gold \$0.35 Copper - 7.60%  
(E) At 215 foot level, drillings - Gold, \$0.35; Silver \$0.36; Copper - 1.40%  
(F) Drift 150 foot level, Gold, \$14.00 Copper - 8.95%  
(G) Drift 150 foot level, oxydized shoot, Gold, \$33.60; Silver \$0.54; Copper - 32.90%  
(H) Drift 215 foot level, slacked material from walls, oxydized, Gold \$0.35  
Copper - 4.20% (By fire assay. Leaching gives higher content)

Yuma, Arizona  
July 26, 1952

Board of Directors  
Centroid Consolidated Mines  
Wenden, Arizona  
Gentlemen:

At your request, we have made an examination of the accounts of your corporation for the period of from January 1, 1952 to July 25, 1952. Attached you will find Balance Sheet of Centroid Consolidated Mines as of July 25, 1952.

This Balance Sheet has been prepared from data obtained from the records of your corporation and data received from Mr. W. B. Harris, President of the Board of Directors, and is a result of the consolidation of all receipts and expenditures of the corporation since its inception to April 24, 1951, and detailed records from that date to July 25, 1952.

Inasmuch as all expenditures to this date have been for development, exploration and fixed assets, the total of such expenditures has been capitalized and is reflected in the Balance Sheet under "Fixed Assets". For this reason, no Profit and Loss Statement has been prepared, the same not being applicable.

No attempt has been made to place an actual value on the assets of the corporation, the values as shown by the Balance Sheet being stated at cost to the corporation.

In my opinion, the following Balance Sheet reflects substantially the true financial condition of your corporation on July 25, 1952, taking into consideration all records submitted to us for examination, and subject to the foregoing comments.

Respectfully submitted,

LAWLER & CROWDER, ACCOUNTANTS

By: E. G. Lawler

E. G. Lawler, Partner

### CENTROID CONSOLIDATED MINES

#### BALANCE SHEET

July 25, 1952

#### ASSETS

##### CASH ON HAND AND IN BANKS:

First National Bank of Arizona - Phoenix \$ 2,503.52

##### ACCOUNTS RECEIVABLE:

Canyon Copper Co. 4,481.62  
Vega Copper Co. 200.00  
Other 50.00 4,731.62

##### FIXED ASSETS:

Mining Claims - Cost 38,823.87  
Development & Exploration Cost to Date 128,554.66 167,378.53  
Buildings 15,983.69  
Machinery & Equipment 10,341.37 26,325.06  
Less: Reserve for Depreciation 3,225.66 23,099.40 190,477.93

##### OTHER ASSETS:

Insurance Deposit 510.00

##### TOTAL ASSETS

\$ 198,223.07

#### LIABILITIES

##### ACCOUNTS PAYABLE:

Harmon V. Averyt 250.00  
Harry I. Newman 100.00  
William A. Snyder & Samuel J. Rhose 720.00  
Virginia J. Harris 1,601.10  
Other 46.34 2,717.44

##### CONTRACTS PAYABLE:

First National Bank of Arizona 424.65  
Commercial Credit Corp. 466.02 890.67  
Federal Withholding Tax Payable 22.30  
Total Liabilities 3,630.41

##### CAPITAL & SURPLUS:

3,000,000 shares authorized, 10¢ per share Par Value  
outstanding 1,680,950 shares  
(unissued 1,319,050 shares) 168,095.00  
Less: Purchase Discounts & Selling Commissions Paid 22,745.84  
145,349.16

##### Paid in Capital Surplus:

Premium of 15¢ per share paid for 328,290 shares  
stock sold over and above par value 49,243.50 194,592.66

##### TOTAL LIABILITIES AND CAPITAL

\$ 198,223.07

Bancroft. Bul. #51. Reports - Northern Yuma Co., Ariz.

Boone - Critic -

Width of vein few inches to 3 to 4 feet.  
Changes abruptly barren to several inches - due  
to past mineral faulting (?) longitudinal, both  
horizontal and vertical (indicated on property)  
Strike is N 50-60 W. - 70-80 SW.

Quartz - calcite, barite. fills past mineral fractures.  
Oxide zone above water level. Chrys. & chalcopy. small  
amount of mala, cuprite, chalcocite.

Below water level - 2 to 20 ft in sh. # 3. No min in cc. &  
py. Qty abundant some magnetite. Sintered near surface  
contains 50-60 Si, 10-14 Fe; 1 to 1.6 S, 12 Cu  $\frac{1}{2}$ -1 oz Au.  
Lower down. Si to 75%.

Origin - theories derived from leaching and subseq. concentration  
of values in py & apy, this small probability being the source  
of gold values and chalcoc in run (Secondary enrichment due to  
downward moving waters.

Normal mica-orthoclase granite - changes abruptly to  
gneiss and including between the layers of gneiss the re-  
cutting schistose phases of former basic intrusives  
whole series cut by innumerable dikes of pegmatite  
and aplite with prominent diabase intrusives  
In vic of Critic - schistosity at a 15° dip NW. - Nills NE  
across wash - dip is NE. -

Little Giant - (family Black Giant) 1-15-1940

Work done on Wisconsin claim. 300 ft incline  
Run NW; dips NE. - During World War produced ± \$20,000  
in gold & copper - down to 200 ft. - On the 150 level output  
as high as 45% copper & gold - most of ore shipped was  
pyrite and chalcocite.

Dupe mining E-W - thru Wisc. cuts system - has  
mineralization in it.  
- ~~Little Giant~~ (Wisconsin) - Dupe from H. C. Rudall  
- ~~Little Giant~~ San  
Sabine, Ariz.

Antio - Mrs Rhoda Nahlchuck - Wenden Ariz.

Shipments to Hayden. \$50.00/ton

2 runs - 1 to 7 feet wide - traverse dip 80' NE -  
75 ft apart - on 410' level 35' apart.

40,000 tons on dump - \$8.00 - 4,000 tons stacked  
out in mine - chalc. & chalcocite.

1-10-40

Columbia - Charles Mathews, Congress, Arizona

4 tunnels -

- #1 - @ 2600 ft - 460 ft N.W.
- #2 - 2650 ft 260 ft " "
- #3 - 2675 210 " "
- #4 - 2705 140 " "

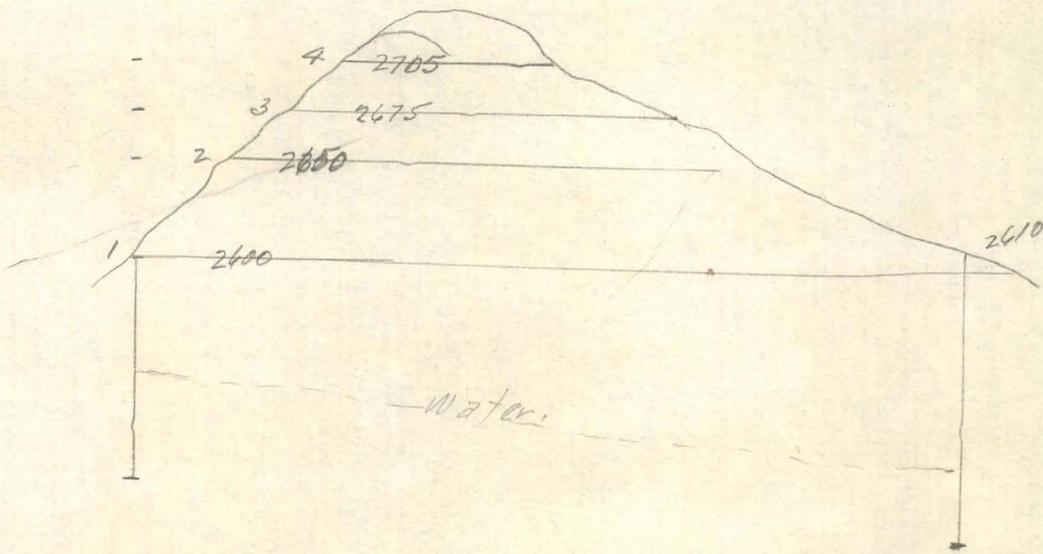
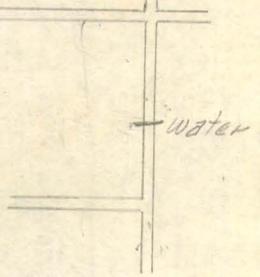
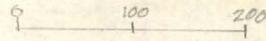
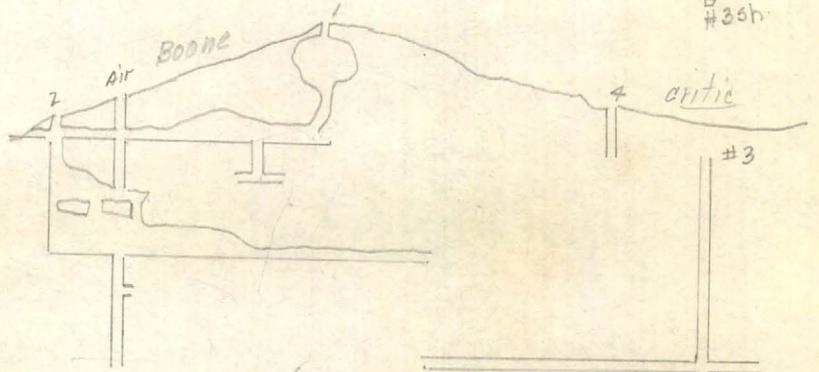
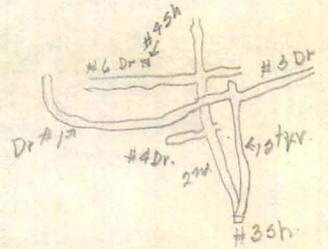
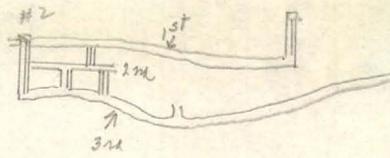
8" x 25" dia.  
110 mth.  
150' deep.

Shaft 115 - water at 60 ft. at SE - Shaft <sup>NW</sup> ~~SE~~ at (2610)  
Tunnel 375' SE.  
No ore - limonite

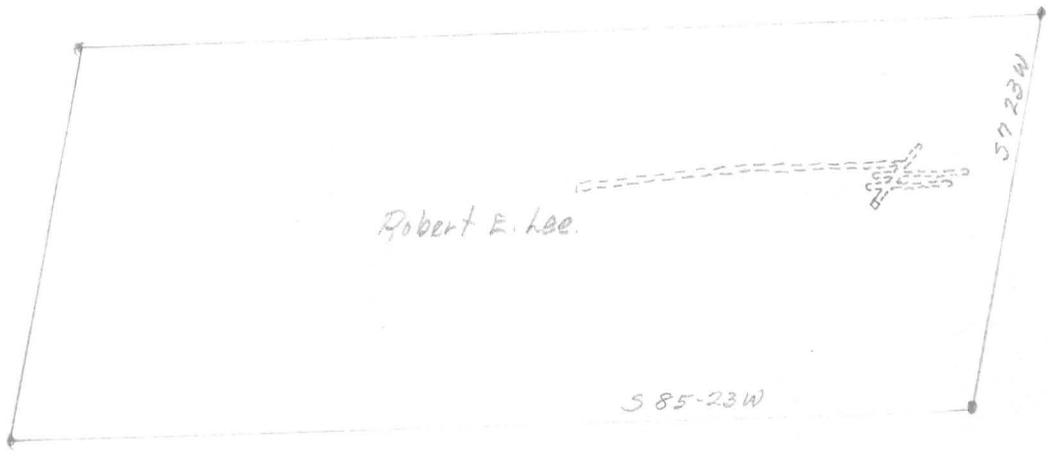
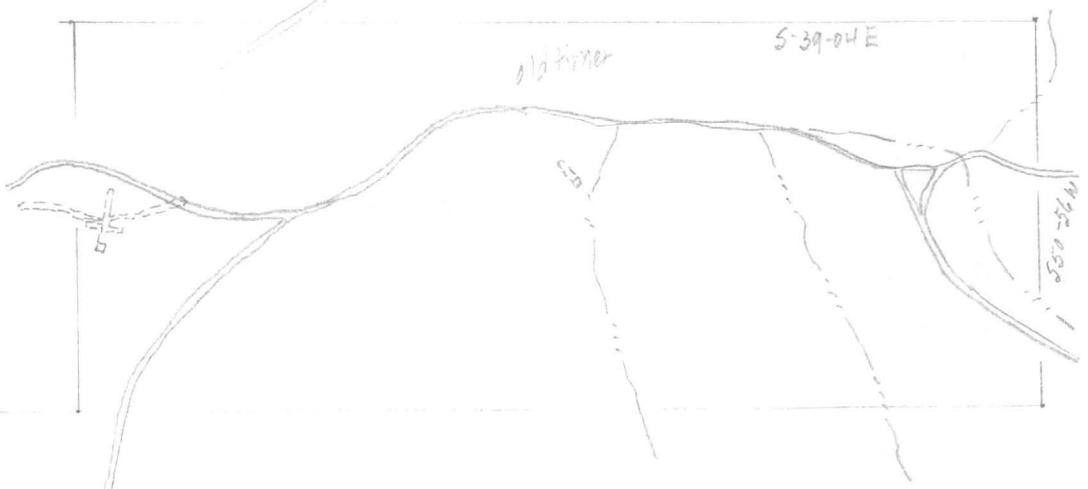
mm



COPY



Black-  
old timer  
Junction  
Wisconsin  
Teddy.





S-33-15W

N-40-20N

1/2-3/4-1/2

□

Mabank

N-61-36

N-36-27W

S-30-21-27N  
W-1-10-20E

□ Aric.  
1

□ 2

Ditch

3 □  
4 □  
5 □  
6 □  
7 □

N-53-28W

W

□

□ Aric.

N-58-51

Chandler

N-39-15E

THANK  
YOU

of the amount from the

A -0.51 135

MAY 22

*Pan Refills*

FOWLER

BOOKS

CREATING

14 of 21 2008

THANK  
YOU

At School Amount Date

10.

A -1.02 139

MAY 22

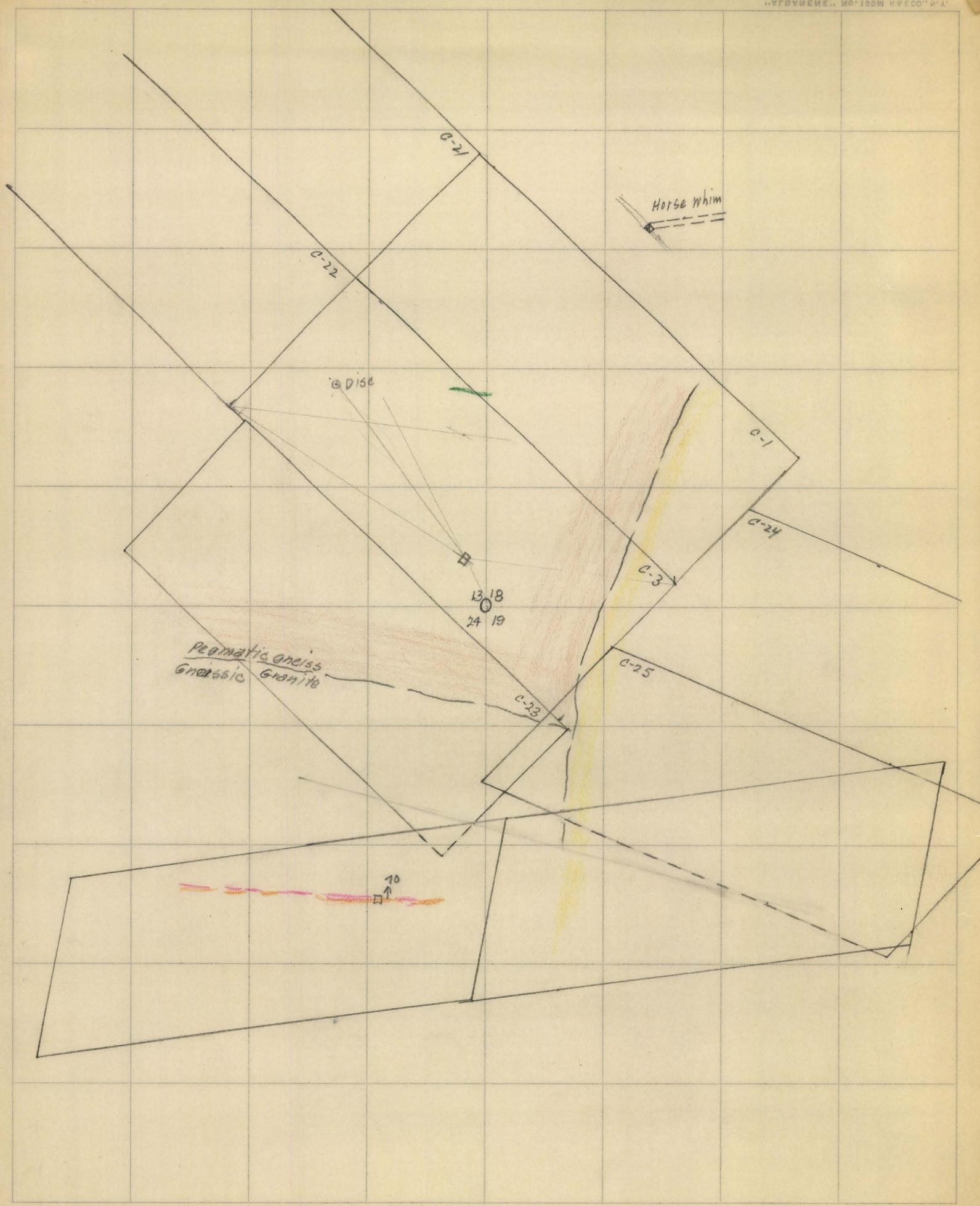
*Pen Refills*

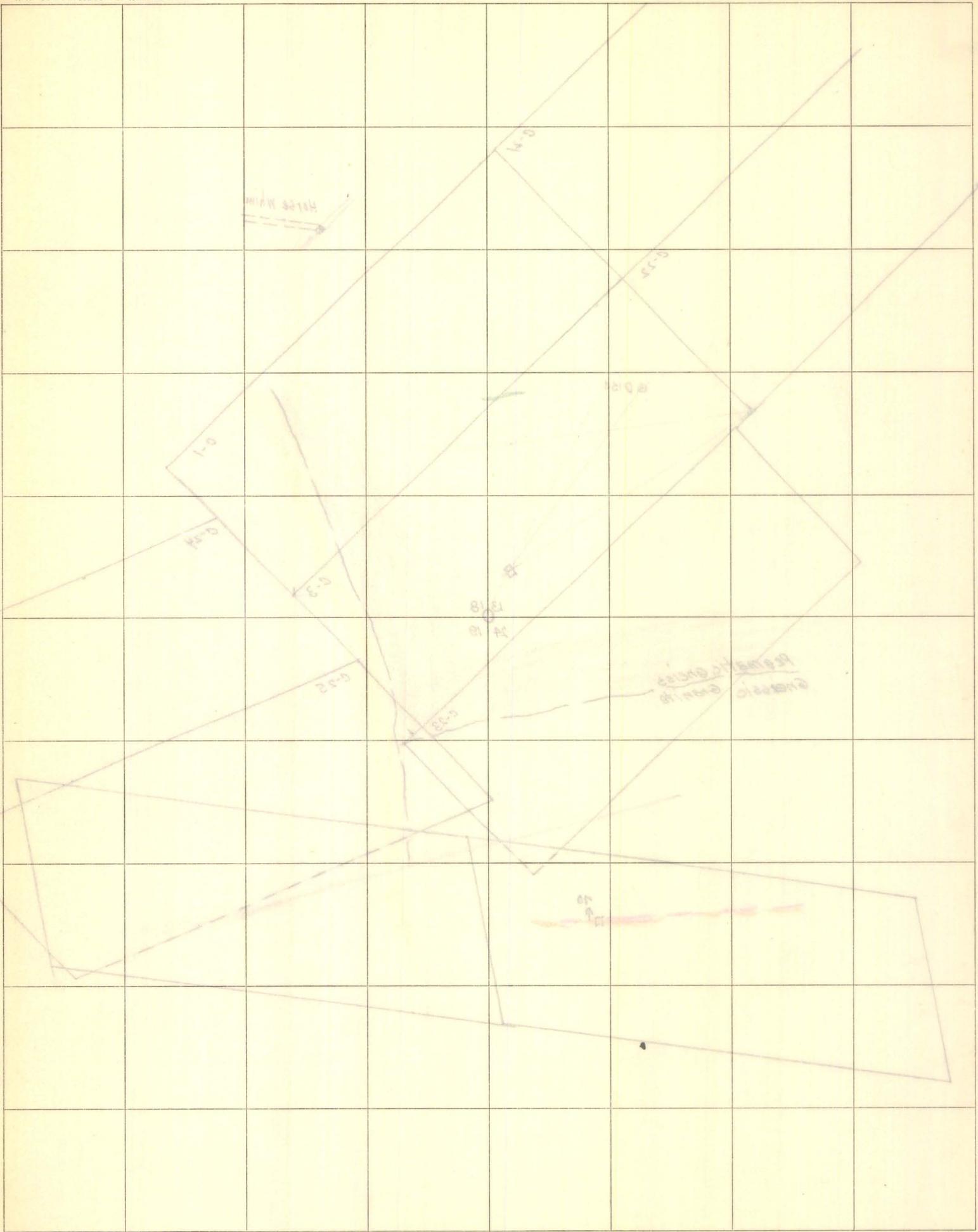
FOWLER

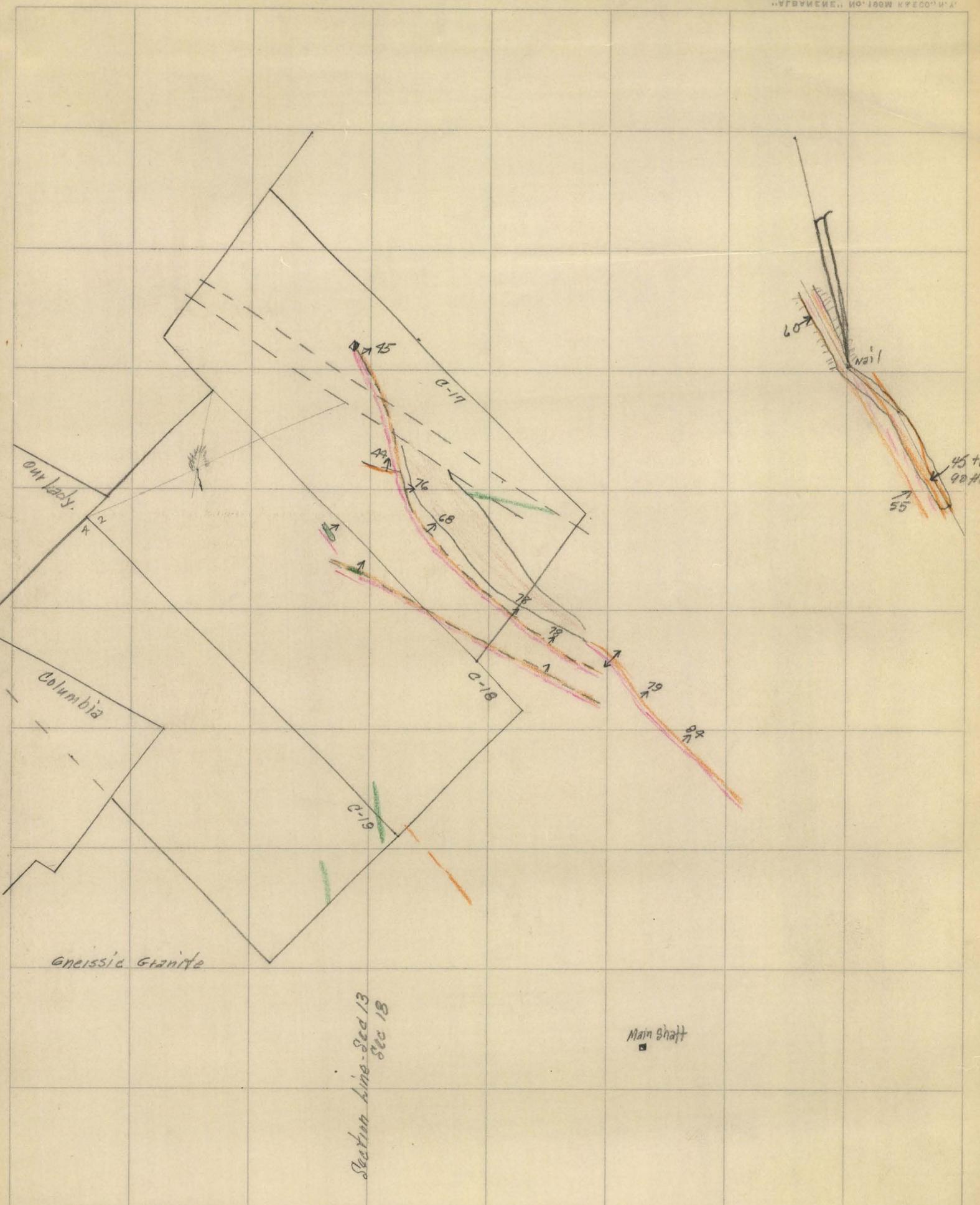
BOOKS Stationery

Business Cards  
Envelopes Stationery

214 W 4th Los Angeles

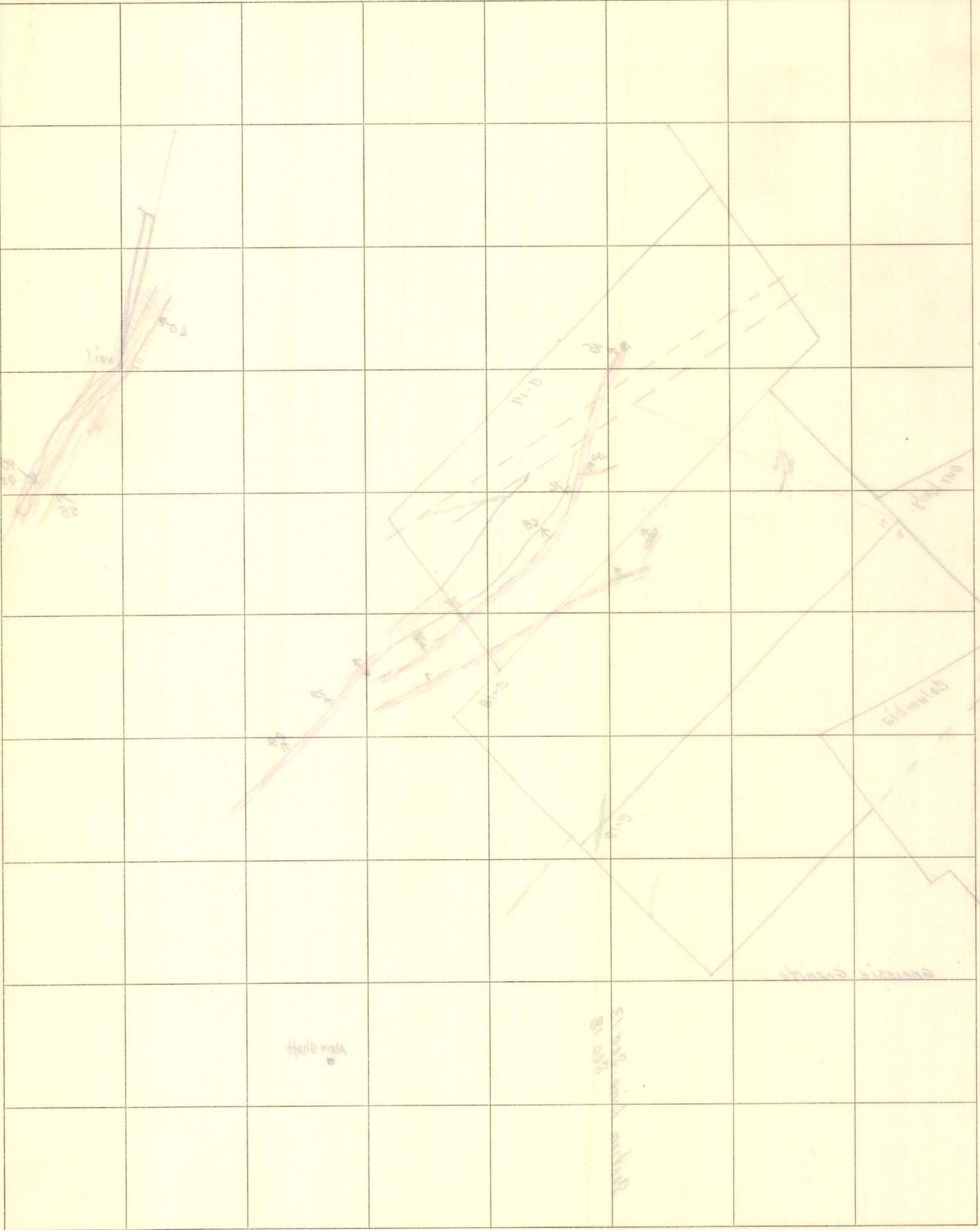






Section line - Sec 13  
Sec 18

Main Shaft



DD Hole #2

From	To	Core Rec.	%Core Rec.	Mineralization			Remarks	Core
				CuFeS <sub>2</sub>	FeS <sub>2</sub>	FeO <sub>x</sub>		
0	NX	5.0	50%				Gneissic Granodiorite(?) Very high in Silica (9%) Some Biotite & Hornblend. Little FeO <sub>x</sub> min along fractures	
10	14	4.0	100%				"	
14	28	10.0	72%				"	
28	38	10.0	100%				1/4" FeO <sub>x</sub> filled fractures (Hemetite)	
38	49	10.0	91%				Gneissic Granodiorite(?) Very High in Silica. 3/4" Hemetite vein.	423
49	59	10.0	100%				1/4" " Stringers, in Gneissic Granodiorite. Pegmatite dike from 42.3 to 57.5 = very high in feldspar.	525
59	70	10.0	91%				Gneissic Granodiorite. No mineralization.	
70	81	10.0	91%				Pegmatitic bands & blebs (feldspar) 87.0' to 88.0' Very few Hemetite stringers.	
81	100	9.0	100%				"	
100	AX	10.0	78%				Gneissic Granodiorite. Small bands of pegmatite & blebs.	
113	123	10.0	100%				"	
123	134	10.0	91%				Basalt from 125.3 to 149.8	1243
134	144	10.0	100%				"	
144	155	10.0	91%				Pegmatite 149.8 to 157.7. Basalt dike from 157.7 with one Hemetite stringer & FeS <sub>2</sub> specks.	1498
155	166	10.0	91%				Basalt	
166	176	10.0	100%				"	
176	186	10.0	100%				"	
186	196	10.0	100%				"	
196	206	10.0	700%				Gneissic Granodiorite with little pegmatite from 197.6	197.6
206	216	10.0	100%				"	
216	226	10.0	100%				Basalt dike 2242-2266	2242 2266
226	236	10.0	100%				Pegmatite dike	
236	247	10.0	91%				Gneissic Granodiorite 235.6 to 241.7 Very Pegmatitic granodiorite. Basalt 241.7-243.2	235.6 241.7 243.2
247	257	10.0	100%				" Add spathic "	
257	271	10.0	72%				"	
271	283	10.0	83%				Horsewhim Vein 1/4" & less stringers of CuFeS <sub>2</sub> = 3.6' of Curran.	278.0 279.4
283	293	10.0	100%				"	
293	310	10.0	59%				" Very little CuFeS <sub>2</sub> along FeO <sub>x</sub> filled fractures Specks of CuFeS <sub>2</sub> & one 1/4" stringer of FeO <sub>x</sub>	
310	316	4.8	90%				Very light & highly altered pegmatite	
316	322	6.0	100%				Very Strong FeO <sub>x</sub> Min & CuFeS <sub>2</sub> at 321 to 322 in what appears to be highly altered pegmatite	
322	326	2.7	70%				"	
326	336	2.5	25%				"	
336	351	0.6	3%				Good Cu & Fe in broken core.	
351	366	1.0	5%				Very light altered pegmatite specks ev	

# DD Hole #3

From	To	Core Rec. EXCore	%Core Rec.	Mineralization			Remarks	Core
				CuFeS <sub>2</sub>	FeS <sub>2</sub>	FeO <sub>x</sub>		
0'	29'	3.5'	5%				No mineralization.	
29'	34'	1.0'	20%				Slightly pegmatic gneissic granodiorite (?)	
34'	44'	10'	100%				Pegmatite "dike" from 29.0' to 33.0'	
44'	52'	6'	75%				Slightly pegmatic gneissic granodiorite (?)	
52'	63'	6'	67				" " " "	
63'	67'	4'	100%				" " " "	
67'	78'	11'	100%				Very feldspathic or pegmatic gneissic granodiorite	
78'	87'	8'	89%				" " " "	
87'	88'	1'	100%				" " " "	
88'	97'	4'	44%				" " " "	
97'	104'	5.4'	77%				" " " "	
104'	114'	10'	100%				gneissic granodiorite from 109 to 121.0	109
114'	123'	9'	100%				" " " "	121.0
123'	133'	9.5'	95%				Very feldspathic or pegmatized gneissic granodiorite	133.0
133'	138'	3.2'	64				<del>Pegmatite dike high in feldspar from 135.0 to 139.5</del>	
138'	139.5'	1.5'	100%				Feldspathic gneissic granodiorite	139.5
139.5'	144'	5.5'	100%				Slightly pegmatic gneissic granodiorite (?) With Very few FeO <sub>x</sub> (Hemetite) Stringers	
144'	152'	7'	87%				" " " "	
152'	157'	3.5'	70%				" " " "	
157'	163'	3.5'	59%				" " " "	
163'	170'	4.6'	61%				" " " "	
170'	176'	5.3'	89%				" " " "	
176'	183'	2.2'	31%				" " " "	
183'	192'	9'	100%			191.0 ✓	" " " "	
192'	202'	10'	100%				" " " "	
202'	209'	3.5'	50%			205.5 ✓	Few Hemetite Stringers. Highly pegmatic gneissic granodiorite	
209'	219'	7'	70%				" " " "	
219'	226'	6'	96%				" " " "	
226'	230'	2'	50%				" " " "	
230'	238'	6.5'	82%				" " " "	
238'	246'	6'	75%				" " " "	
246'	257'	9.5'	82%				" " " "	
257'	267'	9.0'	90%			261.0 ✓ 261.5 ✓ 262.0 ✓	One "foot" of CuFeS <sub>2</sub> mineralization.	
267'	274'	2'	29%			264 ✓ 273 ✓	" " " "	

# DD Hole #3 Cont'

From	To	Core Rec.	%Core Rec.	Mineralization			Remarks	Core
				CuFe <sub>2</sub> Stringers at:	Fe <sub>2</sub>	FeOx		
274'	279'	3.7'	74%				Very few hematite stringers. Highly pegmatic gneissic granodiorite.	
279'	283'	2'	50%				" " " "	
283'	293'	9'	90%				" " " "	
293'	298'	2'	40%				" " " "	
298'	305'	4'	57%				" " " "	
305'	313'	8'	100%				" " " "	
313'	323'	8.5'	85%				" " " "	
323'	331'	1.8'	22%				" " " "	
331'	341'	5'	50%				" " " "	
341'	349'	3.5'	58%				" " " "	
349'	351'	3.0'	75%				" " " "	
351'	355'	3.3'	82%				Very <del>dioritic</del> <sup>dioritic</sup> cooling schistose material Highly pegmatic gneissic granodiorite(?)	352 354
355'	358'	2'	67%				Basalt	354 to 355
358'	363'	3.7'	74%				"	
363'	371'	1.3'	16%				"	
371'	380'	7.2'	80%				" Pegmatite dike 371.0 to 371.5 371.5 to 380.0	371.0 to 371.5 371.5 to 380.0
380'	383'	2.8'	93%				Very schisty basaltic material	380.0 to 384
383'	395'	8.5'	71%				Highly pegmatic gneissic granodiorite(?)	
395'	405'	1.4'	14%				" " " "	
405'	420'	1.4'	9%				" " " "	
420'	435'	0.4'	3%				" One last of copy min. location(?)	
435'	445'	0.4'	9%				" " " "	
445'	450'	0.3'	6%				" " " "	
450'	460'	1.5'	15%				" " " "	
460'	463'	0.3'	10%				" " " "	
463'	475'	2.7'	22%				" " " "	
475'	478'	0.7'	5%				" " " "	
478'	484'	1.2'	20%				" " " "	
484'	490'	1.0'	17%				" <sup>Diorite?</sup> Black Schist From 485.0 to 494.7	
490'	495'	1.6'	32%				" " " Pegmatite Dike 494.7-495	
495'	500'	5.0'	100%				" " " "	
500'	506'	6'	100%				Pegmatic gneissic granodiorite.	
506'	511'	4.5'	90%				Highly pegmatic gneissic granodiorite(?)	
511'	520'	4.5'	50%				Black Schist from 519.8 to 520.0	

# DD Hole #3 Cont

From	To	Core Rec.	%Core Rec.	Mineralization			Remarks
				CuFeS <sub>2</sub>	FeS <sub>2</sub>	FeO	
520'	526'	5.6'	92%				Black basaltic(?) Schist Pegmatite dike
526'	532'	6.0'	100%				" " " " Pegmatite dike
532'	541'	6.0'	67%				Highly pegmatic gneissic granodiorite
541'	546'	4.4'	88%				" " " "
546'	555'	7.2'	80%				Very pegmatic gneissic granodiorite
555'	559'	3.8'	95%				" " " "
559'	561'	1.5'	75%				" " " "
561'	566'	4.3'	86%				" " " "
566'	575'	8.2'	91%				" " " "
575'	585'	4.3'	43%				" " " "
585'	592'	5.2'	75%				" " " "
592'	595'	1.0'	33%				" " " "

529.0  
530.5  
531.0  
532.0  
532.5  
533.0  
541.0

522.0  
523.5  
530.0  
532.0

FIRE



# DD Hole # 8

From	To	Core Rec	% Core Rec	Mineralization		Remarks	Core
				Cu <sup>2+</sup>	FeO <sub>x</sub>		
0'	15'	BX No	Core				
15'	30'	AX 10'	67%			Gneissic granodiorite to 18.0'	
30'	46'	10'	62%			Basalt from 18.0' to 30.0'; Few FeO <sub>x</sub> Stringers Basalt Pegmatite dike 30.0-32.0'	
46'	66'	11'	55%			" " 34.6-36.7' Basalt Dikes 152.0-152.5'	
66'	75'	9'	81%			Gneissic granodiorite " " 164.0-165.0'	
75'	86'	10'	91%			Basalt " " 1/2" veins (FeO <sub>x</sub> ) 84.0 to 84.5'	
86'	96'	9.5'	97%			Basalt dike - 86.0-87.0'	
96'	105'	8.5'	77%			Gneissic granodiorite " " 94.0-96.0'	
105'	115'	9.5'	97%			Gneissic granodiorite Some small veins of pegmatite also blebs.	
115'	125'	10'	100%			" " " " few FeO <sub>x</sub> (hair like) Stringers	
125'	133'	8'	100%			" " " " " "	
133'	143'	10'	100%			" " " " " "	
143'	155'	9'	75%			" " " " " "	
155'	164'	9'	100%			Very little pegmatic material in gneissic granodiorite?	
164'	178'	8'	57%			" " " " " "	
178'	189'	7'	64%			Very pegmatic gneissic granodiorite	
189'	208'	8'	73%			Somewhat pegmatic gneissic granodiorite(?)	
208'	225'	10'	59%			" " " " " "	
225'	245'	5.7'	38%			" " " " " "	
245'	262'	10'	59%			No Mineralization Very pegmatic gneissic granodiorite(?)	
262'	274'	10'	83%			No Mineralization Some pegmatic material in gneissic granodiorite(?)	
274'	284'	9.5'	97%			No Mineralization " " " " " "	
284'	293'	9'	82%			No Mineralization " " " " " "	
293'	303'	10'	100%			Few FeO <sub>x</sub> (hair like) Stringers Very pegmatic gneissic gnd. Pegmatite Dike 293-294'	
303'	315'	6.5'	81%			Several FeO <sub>x</sub> filled Stringers " " " " " "	
315'	335'	10'	50%			" " " " " " Few FeO <sub>x</sub> filled Stringers	
335'	358'	10'	44%			" " " " " "	
358'	370'	10'	83%			" " " " " " Somewhat pegmatic gneissic granodiorite from 340.2 to bottom of hole.	

Cu<sup>2+</sup>  
159.2

194.0  
214.3  
214.8  
226.0  
235.0  
236.0

Very Pegmatic

# DD Hole #7

From	To	Core Rec.	%Core Rec.	Mineralization CuFeS <sub>2</sub> FeS <sub>2</sub> FeO <sub>x</sub> Stringers at:	Remarks	Core
10'	10'	No Core			Very pegmatic gneissic granodiorite(?)	
10'	31'	10'	48%	19.5 16.1	"	
31'	50'	10'	53%		"	
50'	68'	10'	55%	55.2 67.7 69.0	"	
68'	83'	10'	67%	68.5	"	
83'	96'	10'	77%	85.0	"	
96'	106'	10'	100%	97.3 97.8 105.0	"	
106'	118'	10'	83%	115.0	"	one foot of outer Spalls
118'	133'	10'	40%	130.4 132.5 134.1 136.7	"	Hematite veins 1/2"
133'	150'	10'	59%		"	
150'	167'	10'	59%		"	Several Hematite Veins from 150.0 to 160.0
167'	180'	10'	77%		"	
180'	189'	9'	100%	181.0 183.0 185.0 186.0 187.0 188.0	"	
189'	199'	10'	100%	192.0 197.5 197.7	Slightly pegmatic gneissic granodiorite(?)	
199'	209'	10'	100%		"	
209'	222'	10'	77%		"	Very few Fe <sub>2</sub> S <sub>3</sub> Stringers
222'	232'	10'	100%		"	
232'	242'	10'	100%		"	
242'	252'	10'	100%		"	
252'	262'	10'	100%		Pegmatic gneissic granodiorite(?)	
262'	272'	10'	100%		Very pegmatic gneissic granodiorite(?)	
272'	282'	10'	100%		"	
282'	292'	10'	100%		"	
292'	302'	10'	100%		"	
302'	312'	10'	100%		"	Pegmatite dike 309.5-310.7
312'	323'	10'	100%		"	
323'	333'	10'	100%		"	
333'	343'	10'	100%		"	Pegmatite dike 338.0-340.0
343'	365'	10'	100%		"	Pegmatite dike 352.0-352.0
365'	375'	10'	100%		"	
375'	385'	10'	100%		"	Few FeO <sub>x</sub> Stringers 384.0-384.7
385'	398'	10'	77%	384.5	"	Few FeO <sub>x</sub> filled Stringers
398'	400'	2'	100%		"	
400'	411'	10'	91%		"	Several small FeO <sub>x</sub> Stringers

# DD Hole #7 Cont

From	To	Core Rec	% Core Rec	Mineralization Cu, Fe, FeO <sub>x</sub> Stringers etc	
411'	421'	10'	100%		Very pegmatic gneissic granodiorite.
421'	431'	10'	100%		" " " " Few FeO <sub>x</sub> Stringers
431'	441'	10'	100%		" " " " "
441'	453'	10'	83%		" " " " "
453'	477'	10'	42%		Very Pegmatic & Slightly gneissic granodiorite
477'	488'	10'	91%		" " " " "
488'	498'	10'	100%		Somewhat pegmatic gneissic granodiorite.
498'	500'	2'	100%		Last inches of hole is <del>to</del> Diorite



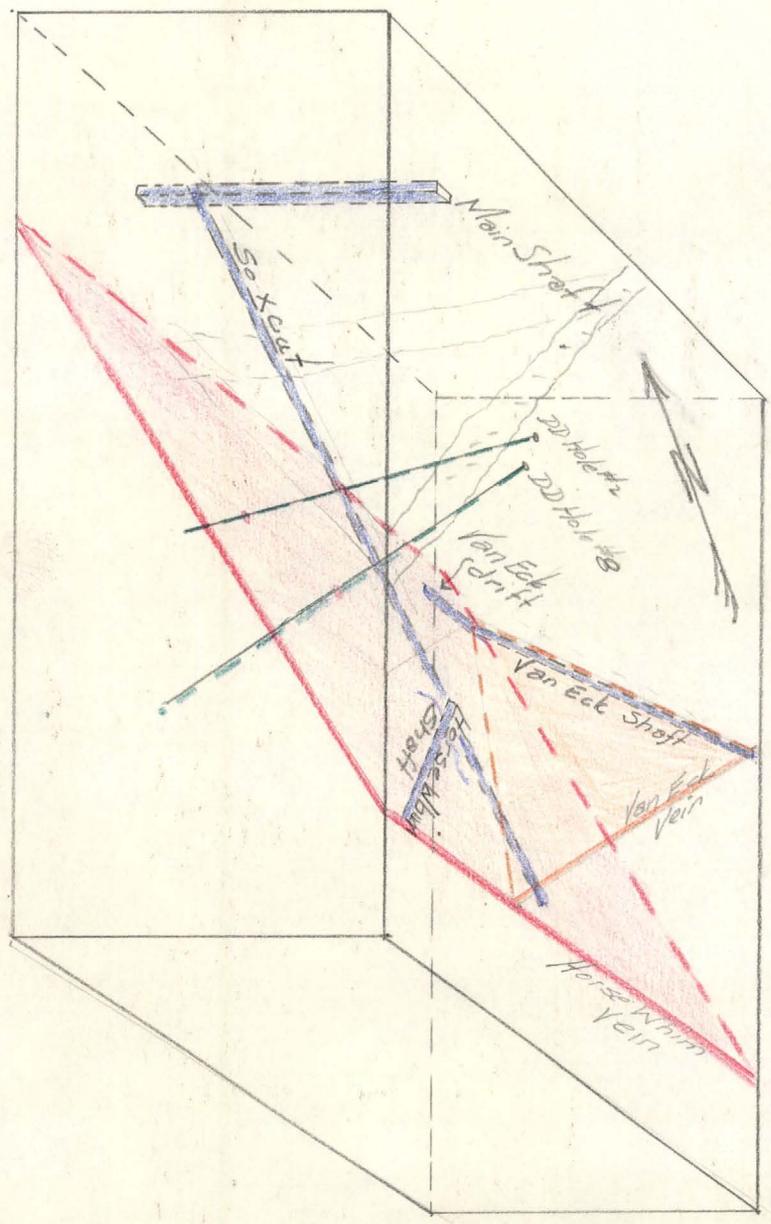
# D.D. Hole #6

From	To	Core Rec.	%Core Rec.	Mineralization			Remarks	Core
				CuFeS	FeS <sub>2</sub>	FeO <sub>x</sub>		
0'	29'	0	0%				No Core	
29'	38'	3.7'	41%				No mineralization. Gneissic granodiorite (Silica = 79%; Mica & Hornblnd 12)	
38'	43'	3'	60%				" " Pegmatite dike 42.9-43.2	
43'	48'	1.3'	26%				" "	
48'	53'	1.8'	36%				" "	
53'	63'	11.2'	12%				" "	
63'	68'	4.8'	96%				Slightly pegmatic gneissic granodiorite	
68'	73'	5.0'	100%				Gneissic granodiorite Few small hornblende filled stringers.	
73'	78'	4'	80%				Slightly pegmatic gneissic granodiorite	
78'	83'	3.2'	64%				" " " "	
83'	88'	4.8'	96%				" " " "	
88'	93'	4'	80%				" " " "	
93'	98'	5'	100%				" " " "	
98'	102'	2.1'	53%				" " " "	
102'	107'	1.5'	30%				" " " "	
107'	117'	3.7'	37%				" " " "	
117'	122'	4.6'	92%				" " " "	
122'	127'	4.4'	88%				" " " "	
127'	132'	5.0'	100%				" " " "	
132'	137'	4.7'	94%				" " " "	
137'	142'	5.0'	100%				" " " "	
142'	147'	5.0'	80%				" " " "	
147'	152'	4.0'	100%				" " " "	
152'	158'	5.5'	100%				" " " "	
158'	163'	5'	100%				" " " "	
163'	168'	5'	100%				" " " "	
168'	178'	10'	100%				" " " "	
178'	183'	5'	100%				" " " "	
183'	193'	10'	100%				" " " "	
193'	198'	5'	100%				" " Pegmatite dike 193.5-200	
198'	203'	5'	100%				" " " "	
203'	213'	9.5'	95%				" " " "	
213'	223'	10'	100%				" " " "	
223'	235'	12'	100%				Pegmatite dike from 230.0' to 238.0'	

# DD Hole #6 Cont

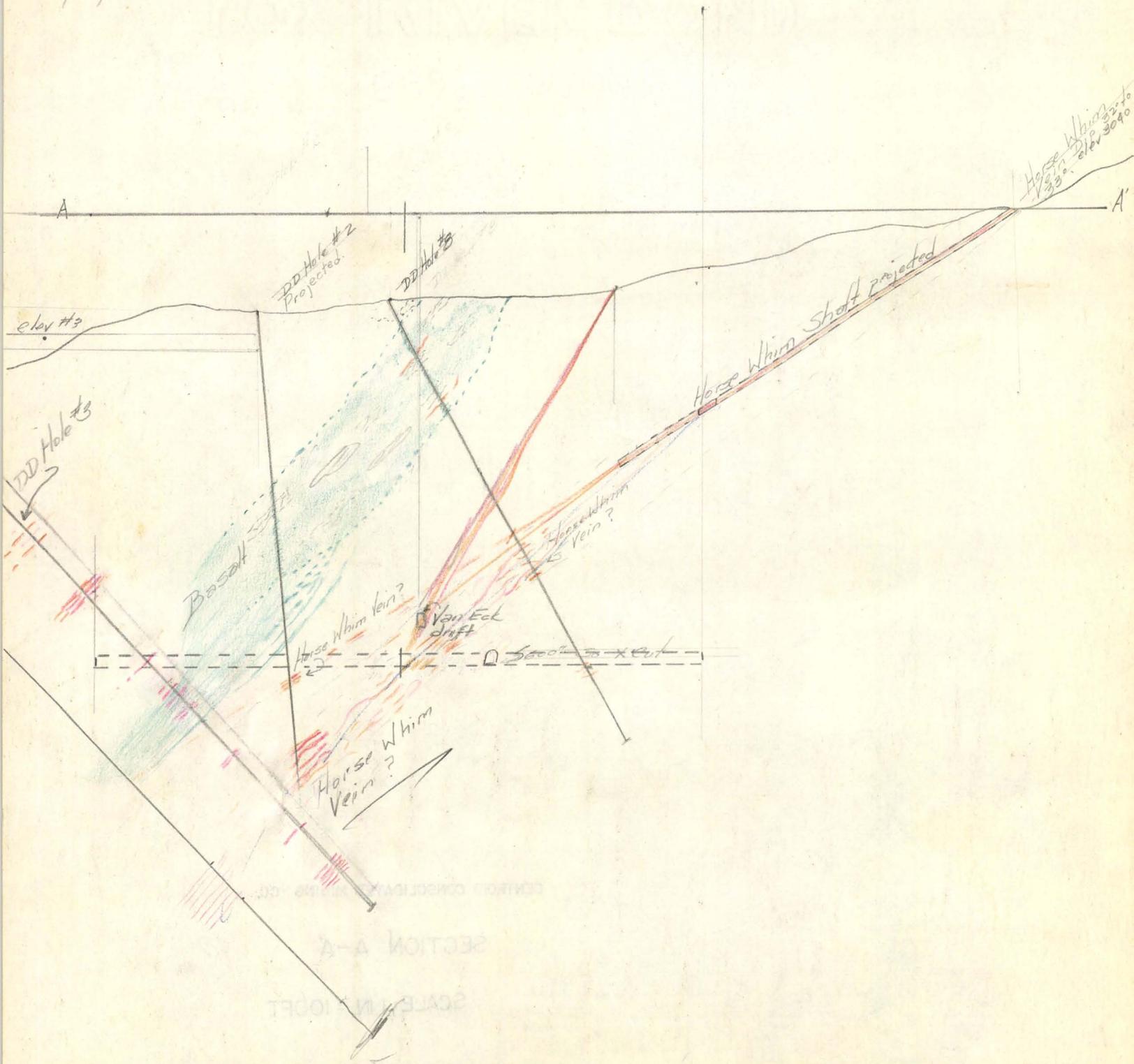
From	To	Core Rec.	%Core Rec.	Mineralization			Remarks
				Cu	FeS <sub>2</sub>	FeO <sub>x</sub>	
235'	246'	10'	91	None			Few Hematite filled stringers Slightly pegmatic gneissic granodiorite
246'	256'	8'	80	"	"	"	Pegmatite dike 250.0" to 252.0"
256'	264'	7.7'	96%	"	"	"	Slightly pegmatic gneissic granodiorite
264'	272'	6'	75%	"	"	"	" " "
272'	282'	10'	100%	"	"	"	pegmatite dike from 279.0' to 281.0'
282'	292'	10'	100%	"	"	"	Slightly pegmatic gneissic granodiorite
292'	302'	3.3'	33%	"	"	"	" " "
302'	305'	3'	100%	"	"	"	" " "

Block Diagram  
Centroid Mine



FOX RIVER BOND

3049  
2704  
---  
336



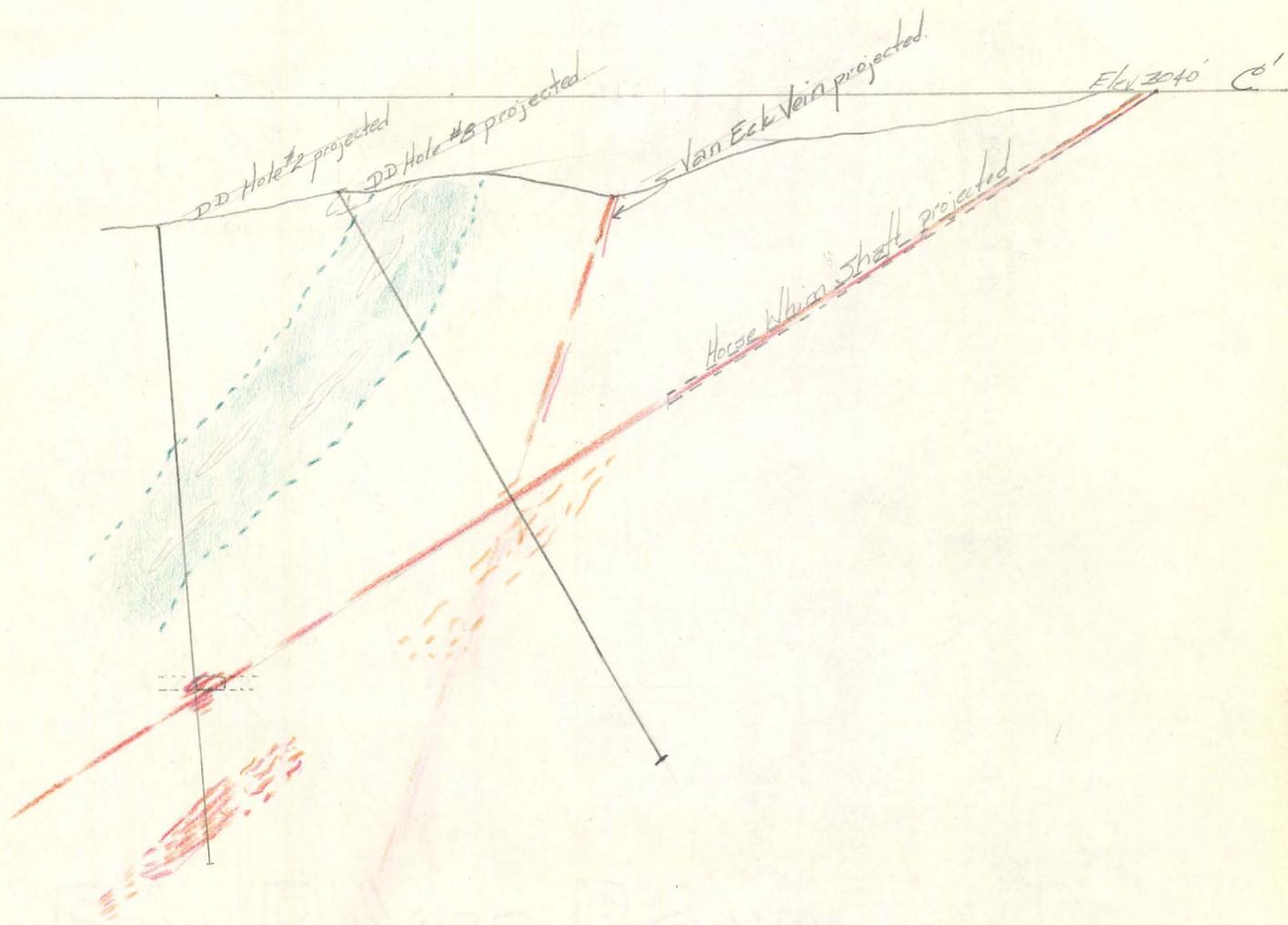
Section AA'  
Scale 1"=100'

CENTROID CONSOLIDATED MINING CO.

SECTION A-A'

SCALE: 1 IN. = 100 FT



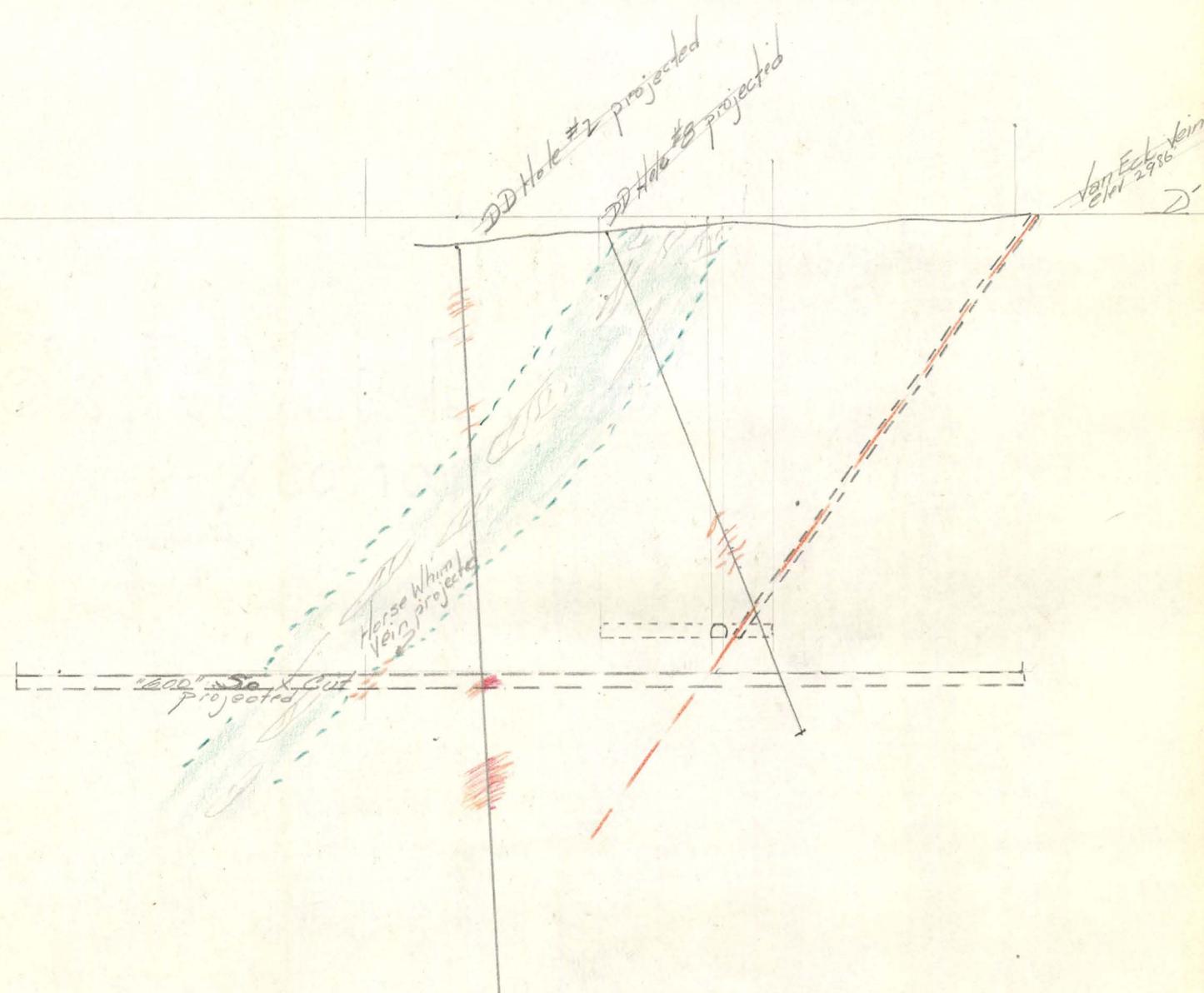


RIVER BONDS  
 1/2" = 100'

Centroid  
 Sec A-B'  
 Scale: 1" = 100'

July Scale 1" = 100' RE

D



Scale  
1" = 100'

Scale 1" = 100'

A N

DD Hole #3  
S89°E Dip - 45° Elev ?  
2950'

DD Hole #2  
Dip 84° SW Elev 2966'

DD Hole #5  
S59°W Dip 61° Elev 2976'

Probable Intersection of  
Horse Whim & Van Eck Veins

Van Eck Shaft  
Elev 2986'

Main shaft elev 3004'

2850' on 1600' 50' X cut

200' SW X cut  
Elev 2704'

Horse Whim vein  
on surface

Van Eck vein  
on surface

Dunning reports  
Horse Whim vein at this  
point on 50' X cut

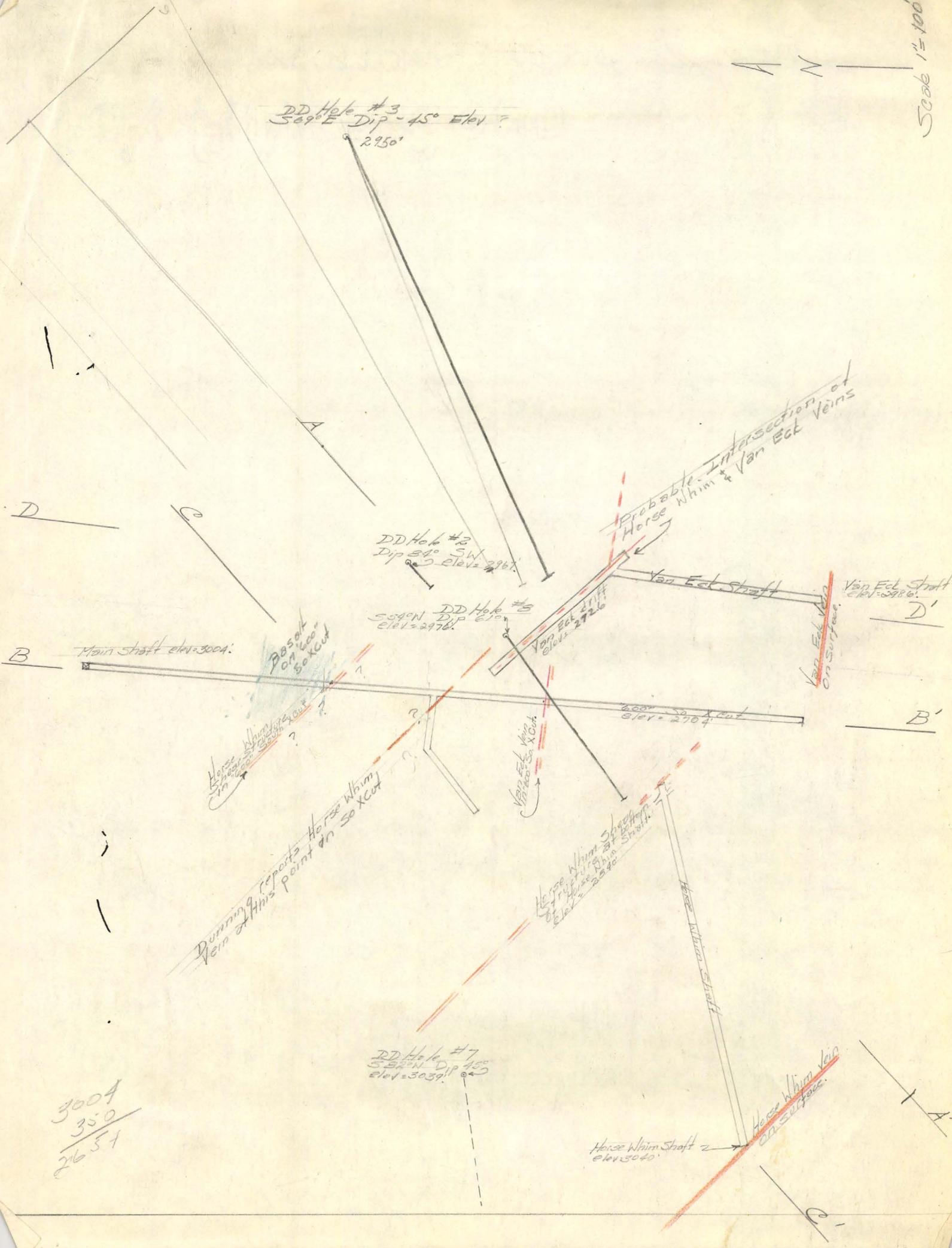
Horse Whim Shaft  
at base of  
Horse Whim vein  
Elev 2890'

DD Hole #7  
S52°W Dip 45°  
Elev 3039'

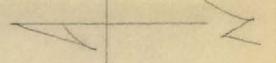
Horse Whim Shaft 2  
Elev 3040'

Horse Whim vein  
on surface

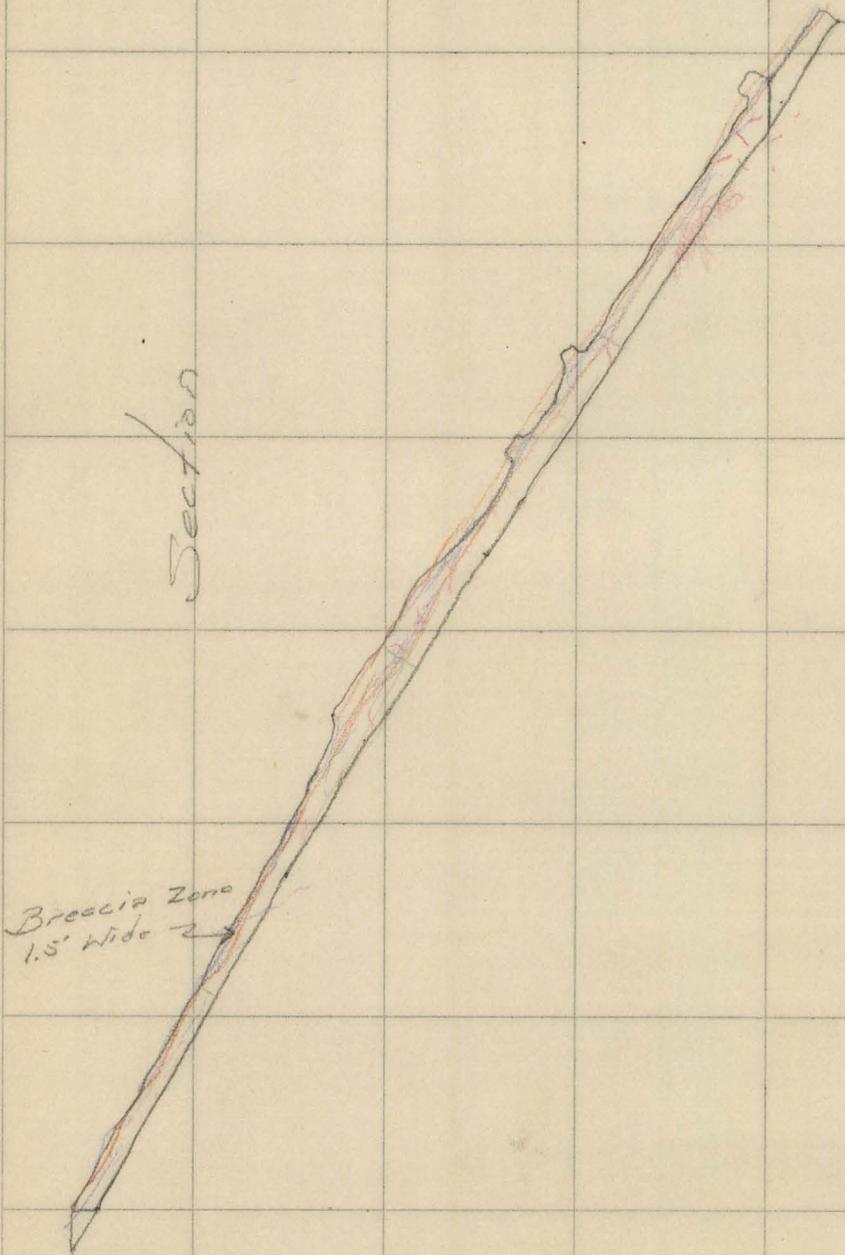
3004  
350  
2654



N79°E

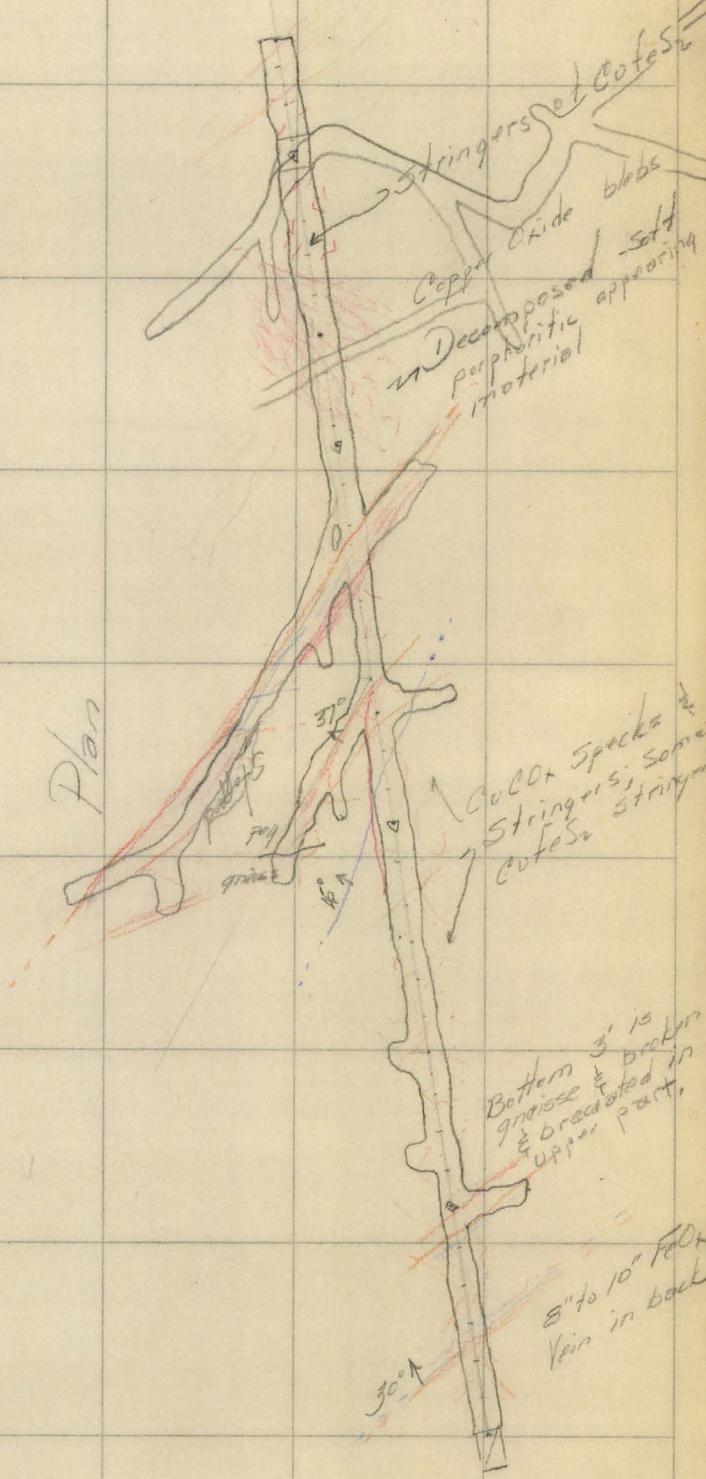


Section



Breccia Zone  
1.5' wide

Plan

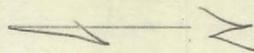
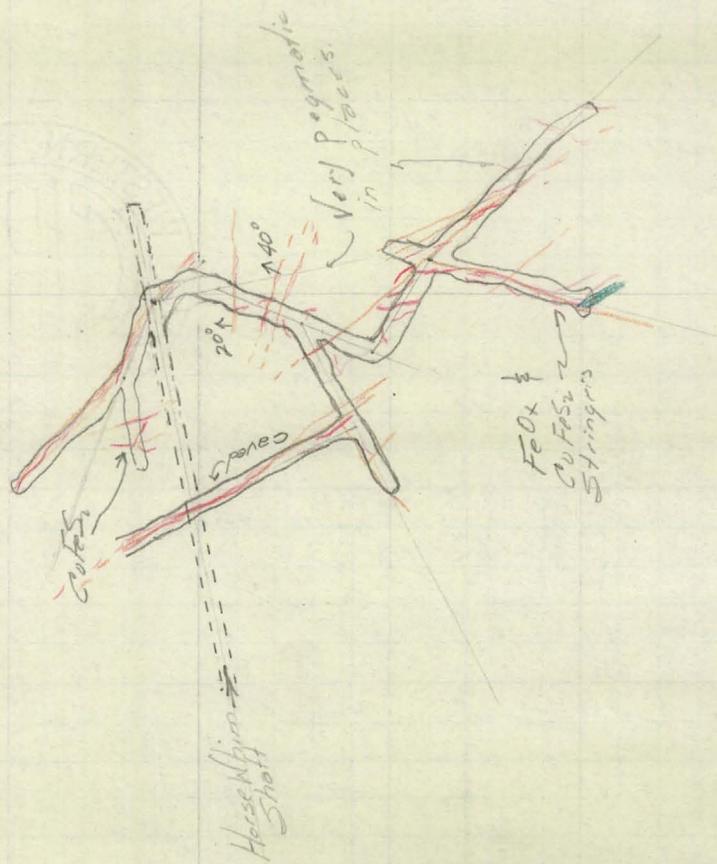


Bottom 3' is  
gneiss & brecciated in  
upper part

8" to 10" FeOx  
vein in back

30°

30° Dip first  
100 feet  
32° Dip second  
100' then 33° Dip



"300" Level  
 Horse Whim  
 Shaft  
 so Scale

Footage, Rec	Remarks
347-355 = 6'	pegmatic gneissic granite
355-363 = 8'	Slightly <del>gneiss</del> Pegmatic gneissic granite
363 373 = 10'	"
373 - 391 = 11'	"
391 397 = 4'	"
397 401 = 4'	Very peg gneissic granite
401 - 410 = 7'	"
410 - 419 = 9'	"
419 - 426 = 7'	pegmatic gneissic qs.
426 - 436' = 10'	3 FeOx stringers at 432.0 to

432.5.

436 - 446 - 10' Very pegmatitic  
gneissic grd.

446 - 456' 10' Very peg to 453  
then turns to  
gneissic grd.

456' 466 10' Very pegmatitic  
gneissic grd. to  
462.0' then turns

466' - 476' 10' ~~452~~ to pegmatite  
→ Pegmatite

476' - 486' 10' Pegmatite to 477.0  
then turns pegmatitic  
gneissic grd.

486' to 499 10' Very pegmatitic gneiss

499-510 -10' gneissic granite  
with some  
pegmatite bands

510-521 10' " "

521-534 10' " "  
pegmatite Dike  
from 523 to 529.

534-544 -10' Very pegmatic  
gneiss with FeOx  
stringers at:

- 535
- 540.5
- 541.0
- 541.2
- 542.0

544-554 <sup>5'</sup> ~~10'~~ " " "  
FeOx  $\frac{1}{2}$  CoFeS<sub>2</sub>  
at 553.0, 553.5

- 554-564 -4' { Altered pegmatic  
gneiss &  $\text{CuFeS}_2$   
 $\text{FeOx}$  at 554.5-  
560.0 563.5
- 564-568 1.3' { Altered pegmatic  
gneiss few  $\text{FeOx}$   
&  $\text{CuFeS}_2$  Stringers
- 568-571 1.5' { Altered peg gneiss.  
No Stringers.
- 571-587 (0') { Fresh <sup>very</sup> pegmatic  
gneissic grb.
- 587-599 10' { Very pegmatic  
gneiss - 3  $\text{FeOx}$   
stringers at  
588.0 to 589.0.

599-612 10' Slightly  
altered pegmatic  
gneiss.

612-627 10' Very pegmatic  
gneiss to 618  
then diorite to  
624.0 last 3'  
Pegmatite

627-634 10' Diorite from 627  
to 633.0 then  
Very pegmatic  
gneiss  
FeOx & CuFeS<sub>2</sub>  
at:

632.00

633.00

633.5

638.644-10 Slightly pegmatite  
gneiss

549-559-8' Very pegmatic  
gneiss.  
Stringes of FeOxide  
at:  
649.0  
649.5-

659-670 10' Very Pegmatic  
gneiss.

670-680 10 " " "

Diorite 676.3 to  
677.3

680-709

709-722-10

slightly por.  
gneissic grd.  
Fox stringer  
at 721.8  $\frac{1}{2}$ "  
wide

722-733 10'

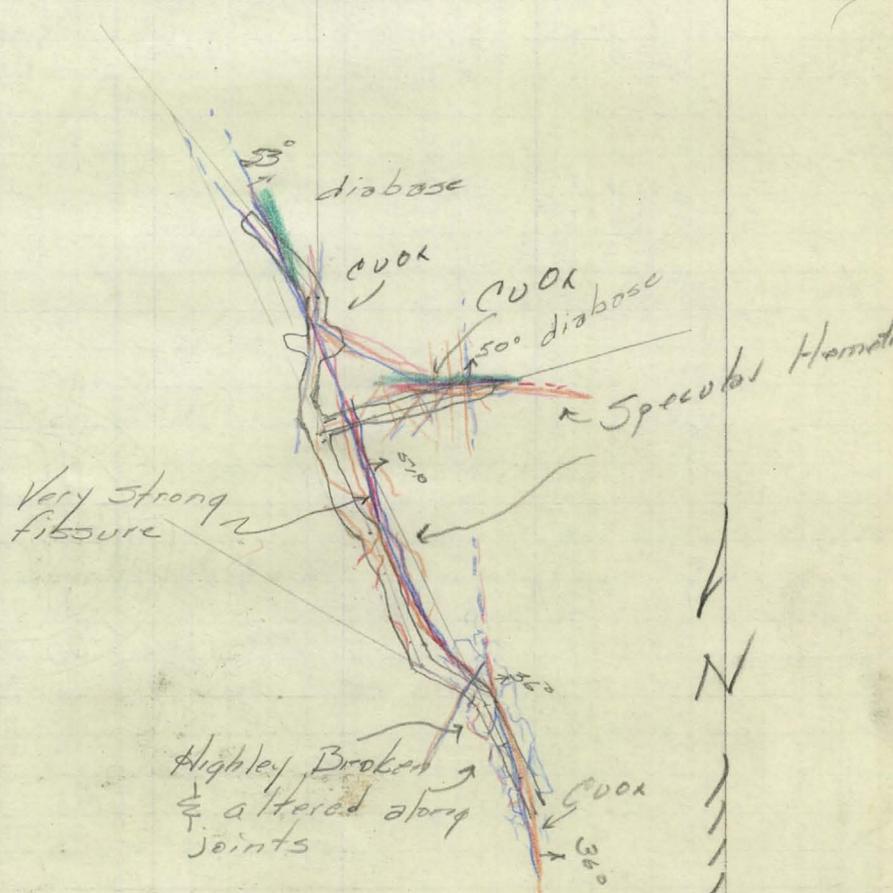
" " "

733-744 10'

" " "

744 750 7'

" " "



Adit Above Horsewhim  
 Shaft  
 50 Scale  
 H.E.P.

**Richard F. Mieritz**  
MINING CONSULTANT

April 29, 1957

**Centroid Consolidated**

**Mr. President,  
Members of the Board,  
Stock Holders.**

I deeply regret my absence from this special meeting but other business requires my presence elsewhere.

I have been consulted by your Board to advise them as well as each of you what, in my opinion, would be the best route to follow in order to continue the existence of your Company to your advantage.

I advised you at your last annual meeting that we were endeavoring to contact some financially sound and exploratory minded organizations whom we might interest in our property. A spark of interest has been shown but is soon "dead" because our ammunition, existing files, reports, etc do not contain the necessary "punch" to influence and maintain an increasing interest of those to whom the property has been submitted. We must therefore supplement or better still, replace this information with a sound geological and engineering report and necessary maps, bringing up to date all the available information and incorporating same in one fine report. This prerequisite is a "must" in order to better the condition of Centroid.

In its present condition, Centroid has two exits of escape and each can be traveled individually but simultaneously. They are (1)-interest a financially sound and exploratory minded organization who would provide the necessary capital and professional staff to adequately explore the property in a fashion common to the profession and backed up with sound geological reasoning and (2) to prepare a new prospectus and allow a new stock issue to obtain funds to further our exploratory endeavor to prove the existence of commercial mineralization which is thought to exist because of surface-wise indications locally and regionally.

In either case we do need ammunition-- an engineering and geological report. Without it, we cannot progress to your advantage.

-2-

The geologic and engineering report of which I speak must include a complete geologic surface map, accurately surveyed, complete logging of drill holes drilled to date, some sampling of the cores where necessary, correlation of such geologic conditions encountered, correlation of the surface geology with that found in the drill holes and other underground workings where accessible along with the usual but necessary information common to this type of report.

I strongly urge you as stockholders to requisition your board to enact on some means by which sufficient funds can be obtained to finance this important work.

Respectfully submitted

cc.

R. E. Mieritz, Engineer

P. O. Box 511  
Balboa, California

April 20, 1957

Mr. C. J. Lunenschloss, President  
Centroid Consolidated Mines  
650 North 1st Avenue  
Phoenix, Arizona

Gentlemen:

I wish to submit the following suggestions regarding the possible sale of the Centroid group of claims for your approval.

I shall place your property in the hands of financially strong companies that now have active exploration departments.

The terms will be from 12 to 15 % of all stock issued or some other method of payment such as lease and bond with sliding scale royalty, subject to negotiation. This type of deal usually is 5% on one below \$25.00 per ton and 10% on \$25.00 and better.

If exclusive sales rights are given, I shall upon completion of Mr. Mieritz' work start organizing your material, reports, etc.

Respectfully submitted,

Jerry Bell

cc.

Richard E. Mieritz

MINING CONSULTANT

March 18, 1957

Board of Directors,  
Centroid Consolidated Mines  
650 N. 1st Ave.  
Phoenix, Arizona

Gentlemen:

Acting on the request of your President, I, along with two members of the Board, Messrs. Haigler and Kostolnik, visited the Critic Mine, Sarah Mine and the Bullard Mine, all in the Cunningham Pass area, Mohave County, Arizona. These mines lie northwesterly of your Centroid Group.

The purpose of the visit was to examine these mines as best as possible in the time allotted as a basis for rendering or providing the Board with an opinion, based on sound geologic and engineering considerations, which fundamentally could provide a decision of whether to accept or reject the "deal" offered by Mr. D. Garrick, presently, majority interest holder in these properties.

By acquisition of these properties, Centroid could provide itself a saviour and an agent for inducing increased interest from outsiders and very likely a treasury builder along with its own livelihood.

Considerable production in dollars and cents has been produced from these mines and on the basis of geologic structures and mineralization, there is no apparent reason why future production could not be duplicated. It is my opinion that mineralization should continue laterally and vertically downward beyond the present workings of these mines because of the strong structural features on which the past work had been done.

Had Mr. Garrick been present we would have tried to get down the one shaft on the Critic property and that of the Bullard property. I personally respect Mr. Garrick's talk and thinking and therefore would accept his word with respect to his previous inspections. Regardless, I feel sure there is ore of good shipping grade available on these properties which certainly is a strong inducement for acquisition.

The media through which Centroid enters into the "deal" and the matter of providing the required funds to

-2-

complete the "deal" is a matter of the Board to decide.

Since the deal is a 50-50 proposition, there should be the same representation on the new Board of the company. This Board should include technical and/or professional members and some representative of the legal profession, and as an added protection for all concerned, should also include a person with a broad knowledge and experience in the business world. A Board composition such as this could diligently and senseibly solve any major or minor problem which could arise.

For me to describe in detail all the advantages and geologic conditions of each property under consideration would be time consuming and of minor importance since we have entertained the "district" idea and it is on such idea that we should therefore concentrate upon.

It is my unbiased opinion that Centroid should do all in its power to acquire, combine with or associate with the group who now holds acquisition rights to the three properties of concern.

Very truly yours,

R. E. Mieritz



Richard E. Mieritz

MINING CONSULTANT

January 23, 1957

Mr. Jerry Y. Bell  
P. O. Box 511  
Balboa, California

Dear Mr. Bell:

Enclosed please find three copies and maps of the Centroid Consolidated Mining Company's reports which you requested.

You also requested information as to the type of deal the Company would want and what money we would be talking about on this property. Although, in my opinion, the property has good possibilities, I cannot forward an opinion as to what ore reserve and grade is existent or what could be developed. An outright purchase price would be a non-realistic figure at this time. Our interest in the property is to obtain some group to accomplish such exploration as is necessary whether it be underground work and drilling or surface drilling, through which work would indicate a continued exploratory program in the advanced stage or disprove the thoughts of its possibilities. It therefore appears that a reasonable examination, lease and option to purchase agreement would be the simplest and most beneficial arrangement possible,--for all concerned. Centroid feels, as I do, that the financial terms of any arrangement should favor the interested group. We feel therefore that a \$10,000 down payment is not beyond the limits of the property concerned nor would a \$2,000 a month minimum non-operating royalty be excessive. For this consideration, Centroid would permit the interested to conduct any type and amount of exploration to their liking to arrive at a decision of acceptance or rejection of the option. The minimum non-operating royalty includes use of the existing housing facilities, appliances within the structures, electric generating plant and mine equipment such as mine hoist, rail, pipe, water pump, jack hammers, drill steel and miscellaneous small tools. Reasonable wear and tear would be acceptable. Incoming and outgoing inventories would be required. We believe the minimum royalty is justified since a considerable investment saving could result for the interested group were these facilities not available.

The tenure in terms of months for any arrangement should be determined and guided by the extent of a planned program of exploration. Any arrangement beyond a six month program, examination and exploration, would require an increase in the minimum royalty payment to \$3,000 per month. All payments however would be credited to an agreed purchase price.

I as well as Centroid are of the opinion that a purchase price would best be figured on a unit price per ton of developed ore. I feel sure Centroid would accept something less than 10% of a gross dollar value but certainly with a minimum rider to any purchase price. It ofcourse depends on whether we speak in terms of large tonnage low grade or small tonnage and high grade.

Naturally a consideration is due you if a deal ~~is consummated~~ consummated by your intermediary efforts. Would you therefore submit to us through me your thoughts on this consideration. Centroid is willing compensate on reasonable terms, since your position is that of a "broker".

I wish you luck in all your efforts.

Very truly yours,

R. E. Mieritz

ccCentroid Cons.

Richard E. Mieritz  
MINING CONSULTANT

January 17, 1957

Mr. Jerry Y. Bell  
P. O. Box 511  
Balboa, California

Dear Jerry:

Thanks much for your two notes and also for leaving the reports of the Blue Bell and DeSoto at the desk of the Adams Hotel. Both have been received.

With respect to the required or requested reports on the Centroid, we are in the process of preparing additional reports and I will send them to you as soon as possible. As to the terms on which these people might deal, I have asked the Board of Directors to give me that information as soon as possible, in which case I shall advise you immediately.

Hope you had a good trip to Mexico.

Will see you at some future date.

Sincerely yours,

R. E. Mieritz

P. O. Box 511  
Balboa, California  
Jan. 12, 1957

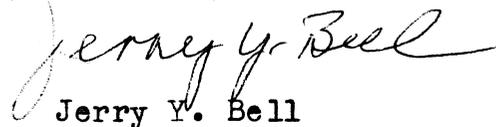
Mr. Richard Meiritz  
306 East Indian School Road  
Phoenix, Arizona

Dear Dick:

I am sorry I didn't get down to return the reports to your office but I left them at the Adams Hotel as I advised you.

Can you tell me what Centroid desires or will the asking price be subject to negotiation later. Generally, as you know, the economics of the proposal needs to be carried in mind when the examination is made. The people to whom I am sending the report will want to know exactly as to terms and conditions.

Sincerely,

  
Jerry Y. Bell

JYB/as

Richard E. Mieritz

MINING CONSULTANT

December 26, 1956

Mr. Manning W. Cox  
222 A Oak Court  
Palo Alto, California

Dear Bill:

Sure hope you will pardon my tardiness in forwarding to you the information on the Centroid Consolidated mining property. The near holidays and pressure for a report prevented my sending earlier.

For your convenience I am enclosing several reports and a map, all of which I know do not constitute adequate equipment and material to work with to form an opinion of the property but it may serve to give you a moderate idea as to whether you may have an interest in the area. For the present, this is all we have.

The contents of this envelope are as follows:

- 1-Wayne E. Kirtchner Report
- 2-W. Tovote Report
- 3A. E. Place Letter to Virginia Harris
- 4-Charles H. Dunning Report
- 5-Edwin W. Mills letter to W. B. Harris-3/8/37
- 6- " " " " " " 10/14/51
- 7-R. Burton Rose letter to Centroid, 4/8/52
- 8-Dept of Mineral Resources Report-1/10/40
- 9-Claim Map, J. W. Weers, Mineral Surveyor, 1950

You will recall I mentioned we had sampled to same extent the Horse Whim Shaft from the collar down. As a matter of interest, the following weighted averages were obtained. Collar to -90 ft. @ 1.79%cu, -90 to -250 ft. @ 0.58%cu, -250 to -340 ft. @ 1.10%cu. The overall average being 1.05 % cu from the collar to 340 ft. The copper assay is that of total copper only. Several composites will be made to determine the oxide copper.

When you have arrived at a positive or negative decision of interest, we would appreciate if you return the enclosed information to us, that Centroid Consolidated Mining Co. 650 No. 1st Ave., Phoenix.

Sure wish you and the family had a very nice Christmas and will enjoy a good New Year.

Sincerely yours,

CC. Centroid Cons.

R. E. Mieritz

Richard E. Mieritz

MINING CONSULTANT

November 27, 1956

Mr. J. C. Kostolnik, Sec-Treas.  
Centroid Consolidated Copper Co.  
650 North 1st Ave.  
Phoenix, Arizona

Dear Joe:

As mentioned in a previous conversation I would provide you with a brief outline of inexpensive exploration which should be done to (1) check early general and rumored information and (2) to provide additional positive or negative information as a guide to planning future exploration.

The current problem confronting the organization is the limited financial assets available for an elaborate program. Present drilling of hole will, if carried to completion of some 300 to 325 feet, consume much of the reserve. As previously mentioned, little would be gained by drilling below this maximum depth. Thus a small reserve would be available to obtain limited but essential information.

A general knowledge of the organization, the board interest in the project and the financial status and contemplated future plans have all been given consideration in formulating the program herewith outlined as a guide for your organization, to accept or reject as the group sees fit.

SAMPLING

The Horse Whim Shaft should be sampled at 10 foot intervals alternately on each side such that there is a 20 foot spacing between samples on each side. Samples should be cut normal to the dip of the shaft and as long a cut as possible; adequately identified by sample number, location as 10 ft., 20 ft., etc. written description as to character of sample, that is, type of rock and mineralization, mark each sample on wall with carbide lamp-beginning and end, sample number.

Sample levels at ten foot intervals alternately on each side employing same procedure as described above.

All samples should be thoroughly mixed and quartered to a maximum of two pounds, assayed for copper only with a request to the assayer to save the pulps from

which composites can be prepared to determine the gold and silver values.

#### DEWATERING

Dewater the Main Shaft and its workings along with the Van Eck Shaft and its workings to provide entrance to, examination of, mapping and sampling where needed. Since you have advised that Mr. Farrin might cooperate on this matter, the expenditure should not be too great. The program appears feasible since little moisture was noticed in the Horse Whim Shaft bottom. Consequently, the rate of water production is negligible unless the underground workings penetrated or encountered a water bearing structure. If the ~~bottom~~ be the case, the source should be determined.

#### SURVEYING

The organization does not have ample survey information to adequately and accurately locate coordinate and elevation wise the positions of the past diamond drilling and underground workings. In my opinion, this is a "must".

#### EXPENDITURES

The primary expense involved for the outlined program would be reflected by the necessary labor involved. Since all members of the "board" are extremely interested in the project, are young and energetic in mind and body and for the most part luxurious in leisure time, it is suggested the members combine in equal terms their physical abilities to make the program successful and financially conservative. All I am sure like to "get away from it all" for a short time.

Surveying and examination assistance can be provided by myself when time permits on an actual expense plus equipment rental (instruments, etc.) basis plus a reimbursement along the lines suggested by Mr. Haigler.

Dollar wise, the expenditures should approximate the following figures.

Assaying 120 samples	\$180.00
Pumping-sup, equip etc.	\$300.00
Out of pocket expenses, Board members, Eng. etc.	\$250.00
Equipment rental	\$ 40.00
10% Contingencies	\$ 80.00
Total	<u>\$850.00</u>

Sincerely,

R. E. Mieritz