



CONTACT INFORMATION
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The following file is part of the John E. Kinnison mining collection

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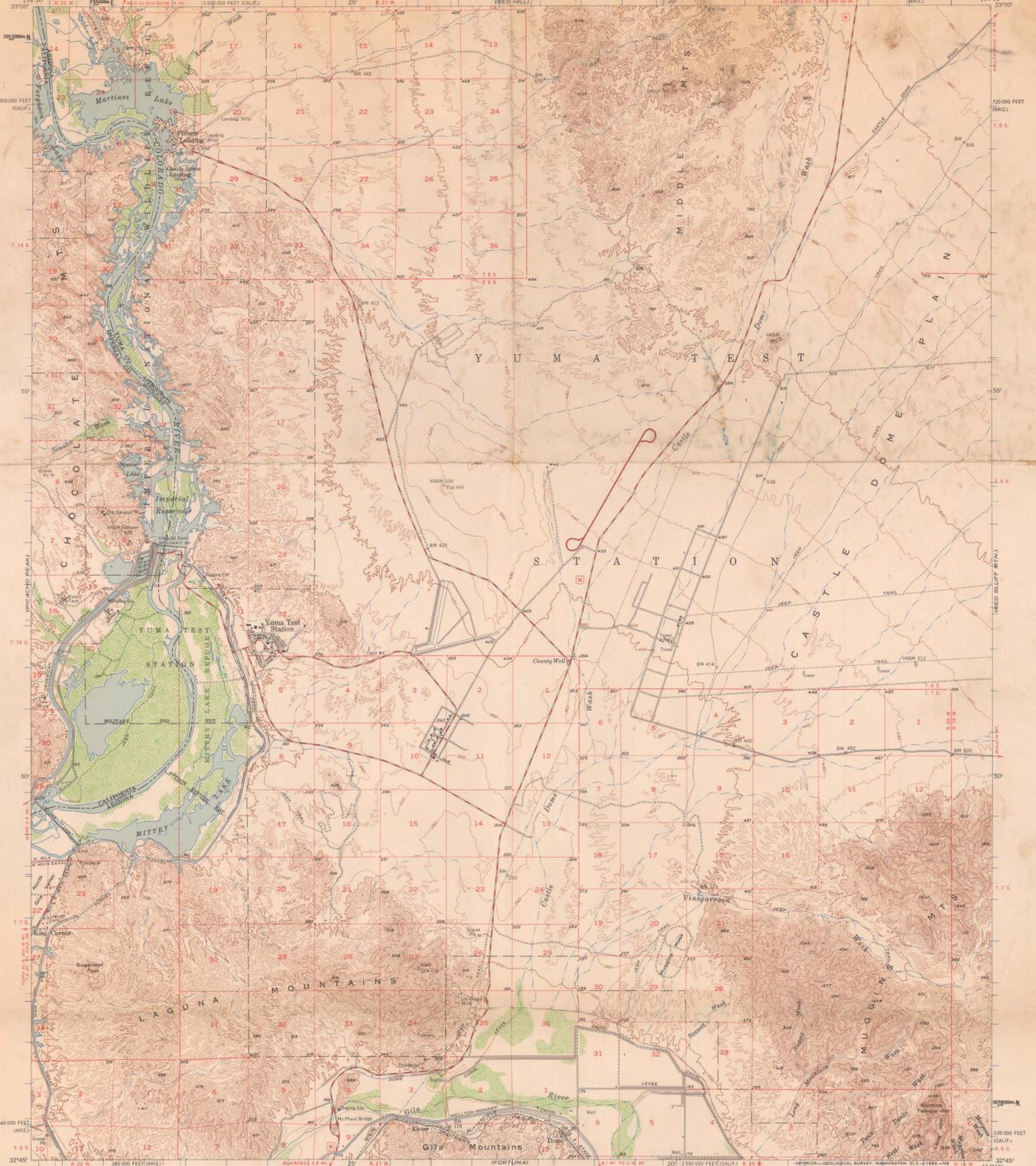
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QUALITY STATEMENT

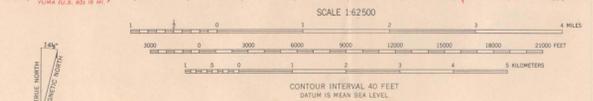
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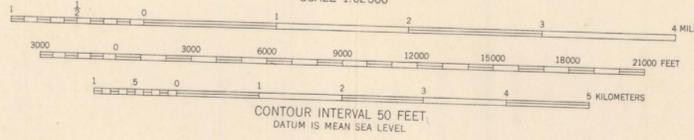
Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography from aerial photographs by photogrammetric methods
and from stamable survey by USGS 1936-1941
Aerial photographs taken 1953. Field check 1955
Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, west zone
and California coordinate system, zone 6
Dashed land lines indicate approximate locations
Unchecked elevations are shown in brown
State boundary subject to adjustment
1000-meter Universal Transverse Mercator grid ticks,
zone 11, shown in blue



ROAD CLASSIFICATION
Medium-duty ——— Light-duty ———
Unimproved dirt - - - - -
U.S. Route
This area is also partly covered by 1:24,000 scale maps of
the Imperial Reservoir, Laguna Dam and
Dome 7.5 minute quadrangles, surveyed 1955
LAGUNA, ARIZ.-CALIF.
142945-111415/15
1955



Mapped by the Army Map Service
Edited and published by the Geological Survey
Control by USGS, USC&GS, USCE, USBR and City of Los Angeles
Topography from aerial photographs by multiplex methods 1943
Aerial photographs taken 1940. Culture and drainage
revision by USGS 1951
Polyconic projection. 1927 North American datum
10,000-foot grids based on Arizona coordinate system, west zone
and California coordinate system, zone 6
California-Arizona boundary shown from best available information
Dashed land lines indicate approximate location
1000-meter Universal Transverse Mercator grid ticks,
zone 11, shown in blue



ROAD CLASSIFICATION

Heavy-duty	4 LANE 16 LANE	Light-duty
Medium-duty	2 LANE 16 LANE	Unimproved dirt

U. S. Route (square symbol)
State Route (circle symbol)

Maps of Picacho NW, Picacho SW, and Picacho quadrangles,
scale 1:24,000, from later (1954) and more detailed surveys
of this area, are available

FOR SALE BY U. S. GEOLOGICAL SURVEY, FEDERAL CENTER, DENVER, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

PICACHO, ARIZ.-CALIF.
N3300-W11430/15

1951

AMERICAN SMELTING AND REFINING COMPANY
Tucson Arizona

June 27, 1966

TO: J. H. COURTRIGHT

FROM: J. E. KINNISON

TRIGO MOUNTAINS
SILVER POTENTIAL
YUMA COUNTY, ARIZ.

There are many veins--or small mineralized zones--in the Trigo Mountains (Eureka or Silver District). I have seen some of these on the ground and we have good descriptions of nearly all of them in our files. My conclusion is that since the Revelations vein, which appeared to offer the best possibility for a moderate tonnage of low-grade, did not stand up to ore-grade value over the width of the mineralized zone, none of the others will be any better. Unless something very new or unusual is brought to our attention, then the entire district is of no further company interest.

The Revelations vein was examined and reported on last summer by myself and Mr. Thompson. Preliminary sampling suggested a well mineralized vein with low-grade values in the hangingwall, which combined might make a small open pit operation of company interest. Following this, Mr. Von Fay laid out a general pattern of short percussion drill holes, and this drilling was done in January under the supervision of Mr. Whaley. Although Mr. Whaley has not yet had time to write a final report, the property was rejected when the assays of the hangingwall showed a trivial amount of silver there.

The portion of the Revelations vein which was sampled is approximately 200 feet wide and 1500 feet long. Seventy-seven sample sites were utilized and the vein and hangingwall were cross-cut by lines of sampling at nine locations. Samples were derived generally from dry percussion drill holes which varied from a minimum of 5 to a maximum of 10 feet in depth and a few were outcrop samples. A few of the drill sites intersected the vein (about 30 feet wide) and in these holes the samples showed higher values. The original estimate of about 7 oz./ton of silver is probably correct for the vein itself. The hangingwall, however, is virtually barren--although it is fractured and locally altered and mineralized by quartz and calcite. The tenor of the hangingwall is less than 1 oz. silver, and more often less than .5 oz. silver. As stated in my report of last summer, the vein itself cannot be considered as an underground operation because the hangingwall is too weak to allow mining by shrinkage stopping--the only cheap underground method available for its width.

John E. Kinnison
JOHN E. KINNISON

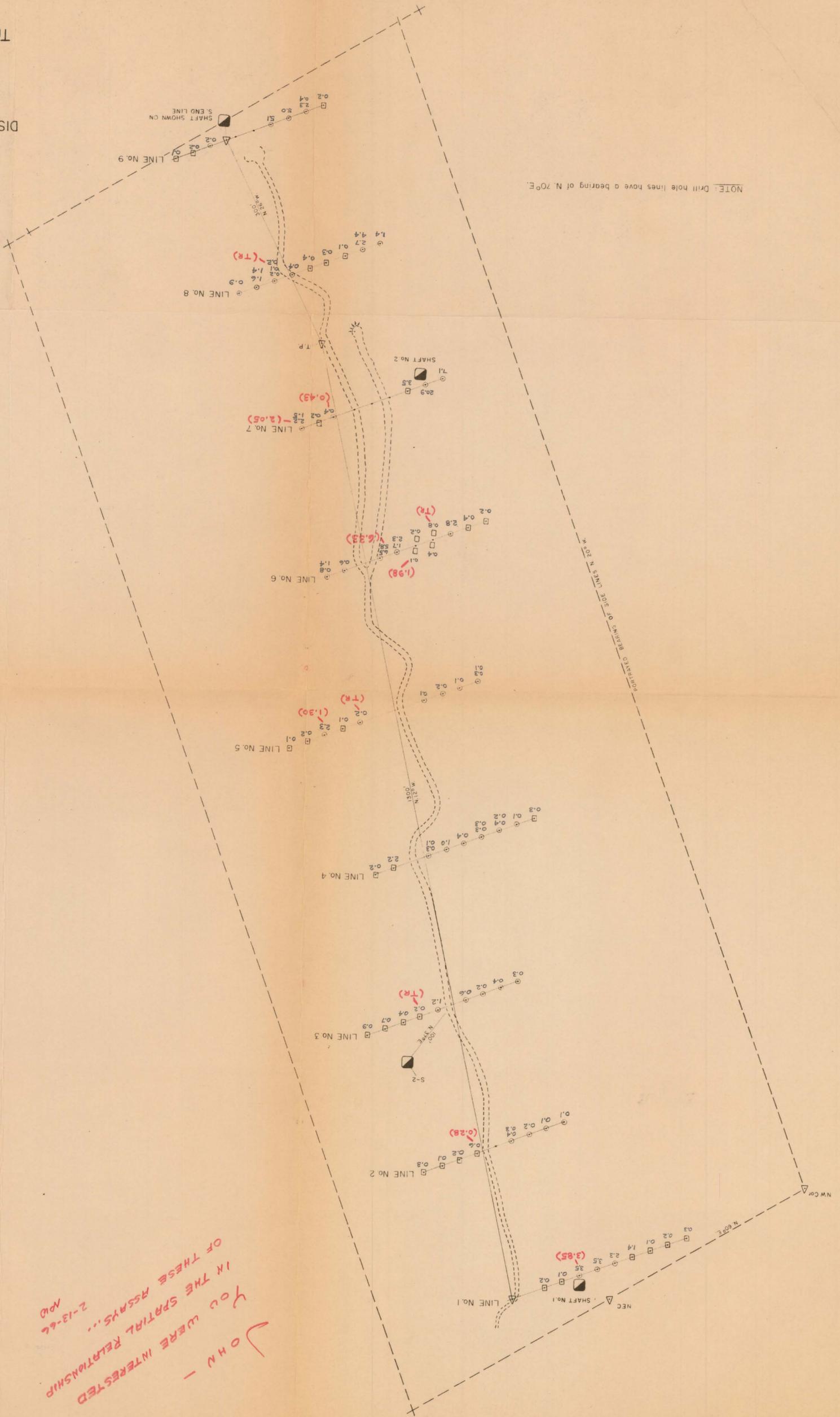
JEK/pjc
cc: NPWhaley

REVELATIONS No. 1
DISTRIBUTION OF ASSAY VALUES
Ag (ozs. / ton)

SCALE: 1" = 100'

Trigo Mts., Yuma Co., Arizona

NOTE: Drill hole lines have a bearing of N. 70° E.



(3.85) CHECK ASSAY BY HAWLEY & HAWLEY

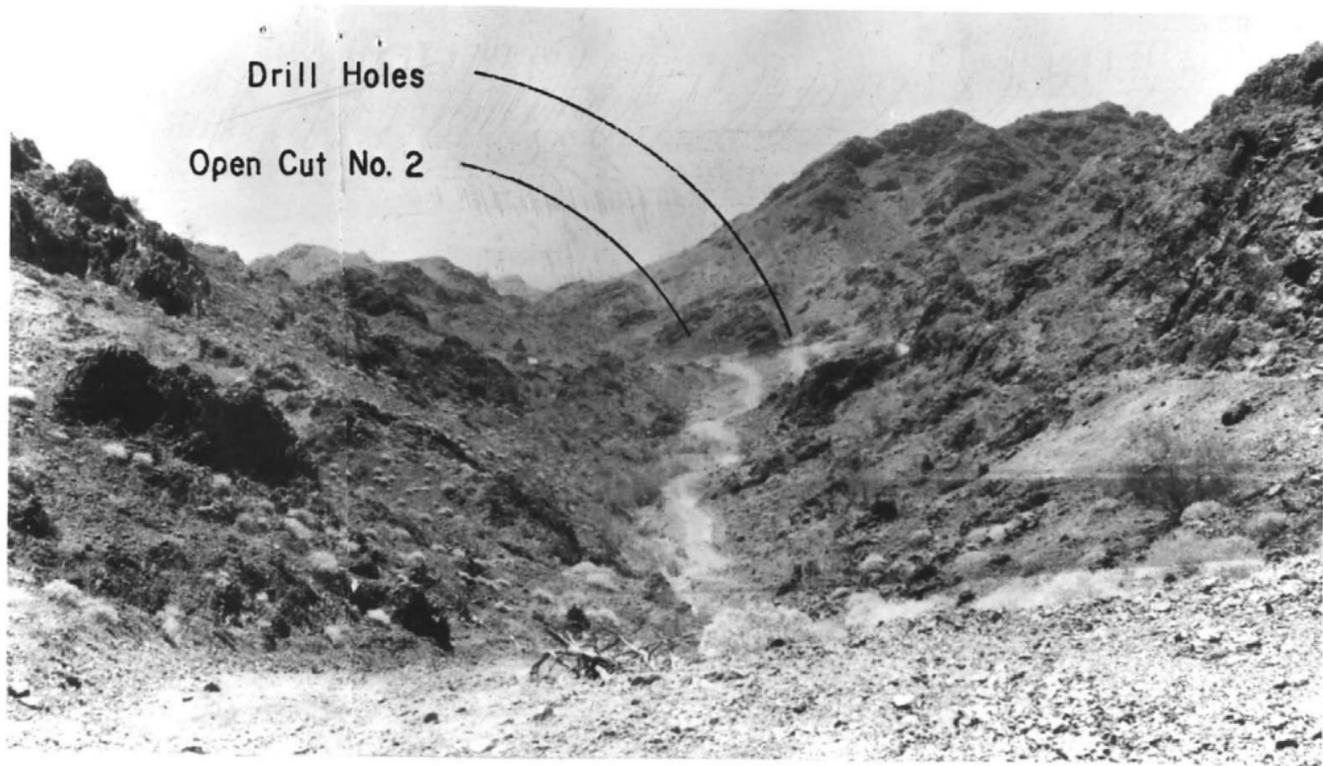
21 SAMPLE FROM SURFACE MATERIAL

21 SAMPLE FROM DRILL CUTTING

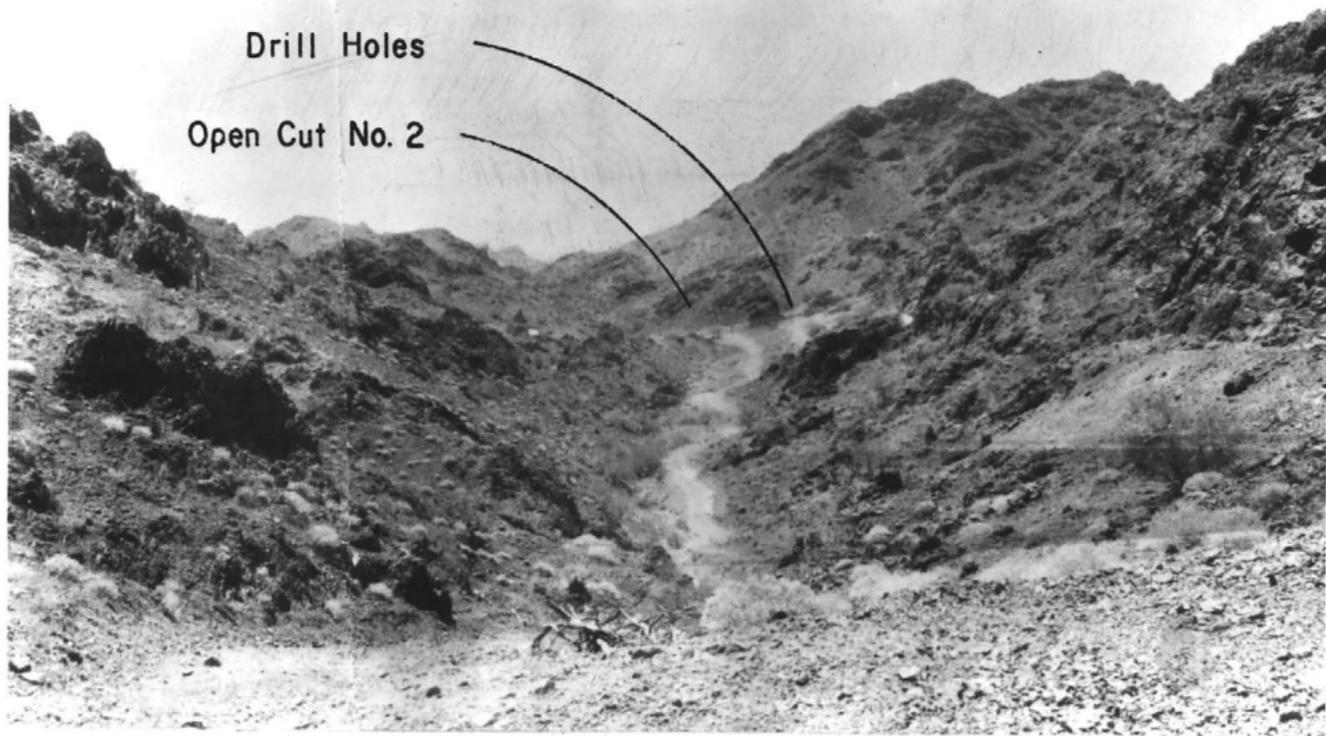
EXPLANATION



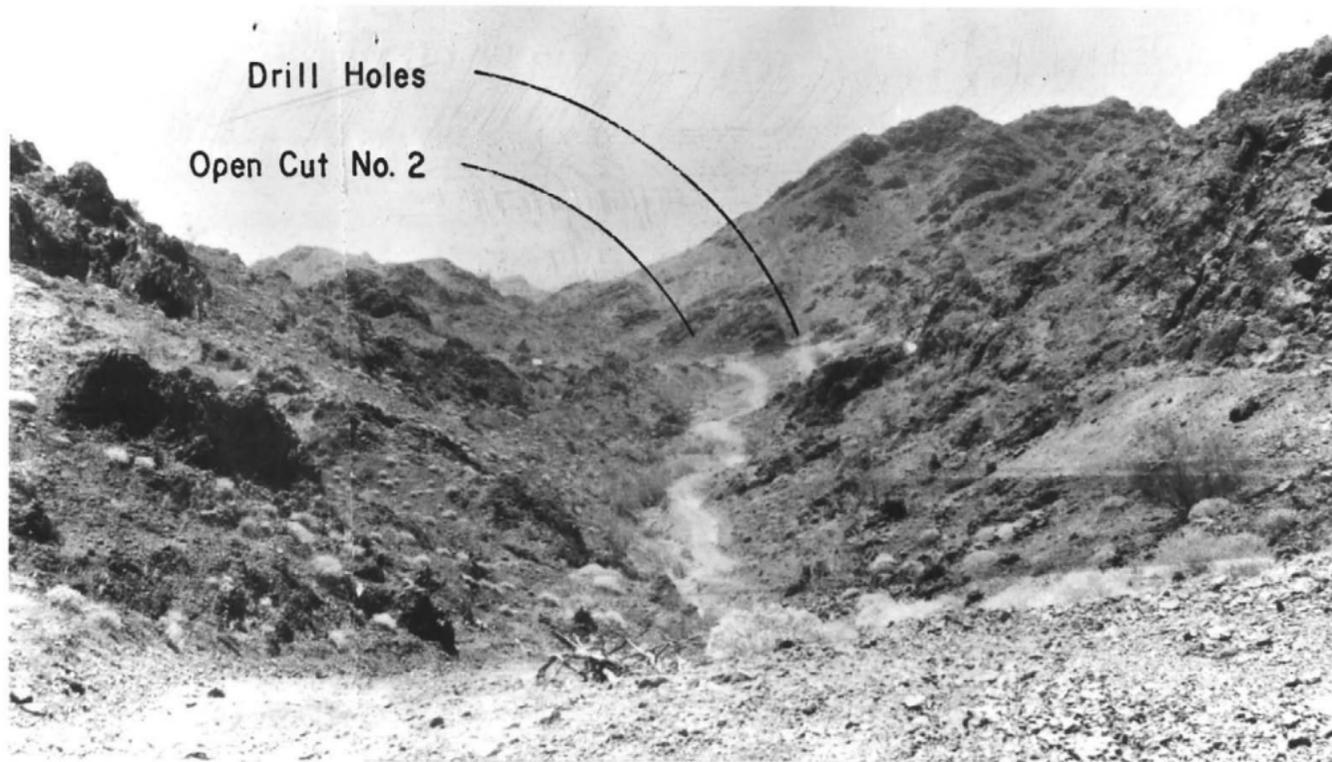
JOHN -
YOU WERE INTERESTED
IN THE SPATIAL RELATIONSHIP
OF THESE ASSAYS... 2-13-66
MJD



Looking SE Along Revelations Claims
Foreground at NEC No. 1, skyline along SEC No. 2. Vein does not stand out clearly. It lies up-slope a short way from the road



Looking SE Along Revelations Claims
Foreground at NEC No.1, skyline along SEC No.2. Vein does not stand out clearly. It lies up-slope a short way from the road



Looking SE Along Revelations Claims
Foreground at NEC No. 1, skyline along SEC No. 2. Vein does not stand out clearly. It lies up-slope a short way from the road



Kentucky	Dwyer
North Blaine	Jas. C. Blaine
Ganfield	Jas. C. Blaine

U.S.M. No. 1258 A

KEY

Alluvium
 Tertiary
 Lavas, Tuffs
 Pre-Cambrian
 Granite and Schist
 Schist
 Schist

Scale: 1:30,000
 600 Feet
 1500 Feet

U.S.M. No. 1258 A

Picture —

Francis piece

PURCHASE ORDER

DATE

January 3, 1966

ORDER NO.

T-5724

REQUISITION NO.

PLANT JOB NO.

APPROPRIATION NO.

AMERICAN SMELTING & REFINING CO.

Tucson Office 1150 North 7th Avenue
P. O. Box 5795 Tucson, Arizona 85703

TO: Jess Fisher and Don Fisher
Fisher's Landing,
hereinafter referred to as Contractor
P. O. Box 1471
Yuma, Arizona

FINAL DESTINATION — PLEASE NOTE CONSIGNMENT BELOW

DATE REQUIRED AT DESTINATION:

CONSIGNMENT — SELLER WILL SHIP TO

SHIPPING INTERVAL PROMISED

SELLER WILL SHIP BEFORE:

POINT OF SHIPMENT

TERMS

— RENDER BILLS AS PER ATTACHED SHIPPING INSTRUCTIONS —

F. O. B. POINT

SHIP VIA

QUANTITY	UNIT	SPECIFICATIONS	ITEM NO.	UNIT PRICE
----------	------	----------------	----------	------------

CONTRACTOR will renovate sections of the access road to and within ASARCO's prospect in the Trigo Mts., Yuma Co., Arizona and prepare access to equipment sites within this prospect as specified by ASARCO's engineers subject to the conditions listed below:

- (1) ASARCO will pay contractor at the rate of \$12.50 per hour for working time on the access road and prospect.
- (2) CONTRACTOR will furnish a Caterpillar D-4 tractor with fuel, maintenance, and operator necessary to conduct work in an efficient manner.

CONTRACTOR will submit acceptable evidence of the required insurance (note Clause Eleven on reverse of this order) on form attached hereto before entering on ASARCO's property to perform work.

Orig: Jess Fisher & Don Fisher
cc: Jess Fisher & Don Fisher, for acceptance
JEKinnison, JHCourtright, KvdSteinen, NPWhaley,
Kward, File

FISHER'S LANDING

CONTRACTOR

Accepted by: _____



IMPORTANT

Attached Acknowledgment Card must be completed and returned promptly.

PLEASE ENTER OUR ORDER FOR THE ITEMS SPECIFIED ABOVE. SUBJECT TO ALL INSTRUCTIONS AND PROVISIONS ON REVERSE SIDE.

Chief Geologist

PURCHASE ORDER

DATE	December 9, 1965
ORDER NO.	T-5694
REQUISITION NO.	

PLANT JOB NO.
APPROPRIATION NO.

AMERICAN SMELTING & REFINING CO.

Tucson Office 1150 North 7th Avenue
P. O. Box 5795 Tucson, Arizona 85703

TO:
Frank C. Metler, Drilling Contractor
dba Metler Brothers Drilling Company,
hereinafter referred to as Contractor
Route 7, Box 945
Tucson, Arizona

DATE REQUIRED AT DESTINATION:

SHIPPING INTERVAL PROMISED	SELLER WILL SHIP BEFORE:
POINT OF SHIPMENT	TERMS
F. O. B. POINT	

FINAL DESTINATION — PLEASE NOTE CONSIGNMENT BELOW

CONSIGNMENT — SELLER WILL SHIP TO

— RENDER BILLS AS PER ATTACHED SHIPPING INSTRUCTIONS —

SHIP VIA

QUANTITY	UNIT	SPECIFICATIONS	ITEM NO.	UNIT PRICE
		<p>CONTRACTOR will drill a series of holes on ASARCO's prospect in the Trigo Mts., Yuma County, Arizona at locations specified by ASARCO's engineers subject to the conditions listed below.</p> <ol style="list-style-type: none"> (1) ASARCO will pay CONTRACTOR at the rate of \$17.50 per hour for working time on the prospect. (2) ASARCO will reimburse CONTRACTOR at CONTRACTOR's cost for broken drill steel. (3) ASARCO will reimburse CONTRACTOR at cost FOB job site for collar pipes left in holes. (4) ASARCO will pay CONTRACTOR at the rate of \$0.15 per mile for use of CONTRACTOR's 4-wheel drive truck. (5) CONTRACTOR will furnish an air compressor, jackhammer, fuel, all bits and drill steel necessary to conduct the drilling operations in an efficient manner. (6) No single drill hole will exceed 10 feet in depth. (7) Work will proceed 10 hours per day, 7 days per week until drilling is completed. <p>CONTRACTOR will submit acceptable evidence of the required insurance (note Clause Eleven on the reverse of this order) on the form attached hereto before entering on ASARCO's property to perform the work.</p> <p>Orig: Frank C. Metler cc: Frank C. Metler, for acceptance JEKinnison, JRwojcik, NPWhaley, JHCourtright, KvdSteinen, Kward, File</p>		



IMPORTANT

Attached Acknowledgment Card must be completed and returned promptly.

PLEASE ENTER OUR ORDER FOR THE ITEMS SPECIFIED ABOVE. SUBJECT TO ALL INSTRUCTIONS AND PROVISIONS ON REVERSE SIDE.

J.H. Courtright
Chief Geologist

AMERICAN SMELTING AND REFINING COMPANY
Tucson Arizona

December 3, 1965

FILE MEMORANDUM

REVELATIONS SILVER PROSPECT
YUMA COUNTY, ARIZONA

Mr. Saegart has brought to my attention an error in the preliminary report on the subject property on page 1 of R. J. Thompson's section. The location is cited as being Section 36 T12S R23W; this should read Section 36 T3S R23W. I have instructed that the general files in the Tucson Office be changed.

ORIGINAL SIGNED BY
JOHN E. KINNISON

JOHN E. KINNISON 

JEK/pjc
cc: JHCourtright
SIBowditch
HPWhaley

Aa-25A.19.0
Silver Mtn. Mining Dist.
Yuma Co., Arizona

October 11, 1965

Certified Mail
Mr. Harry L. Duty
121 West Eleventh Avenue
Escondido, California

Dear Mr. Duty:

Enclosed is a fully executed copy of the lease from you to American Smelting and Refining Company of August 26, 1965, covering the Revelation 1 and 2 and Myrtle 1 and 2 lode mining claims.

We expect to start making a detailed examination and taking samples in another month or so, after the weather has cooled off a bit, and will get in touch with Mr. Carl Self at that time.

Let us hope this business will turn out to be fruitful for both of us.

Yours very truly,

S. I. Bowditch

SIB:bam
Enclosure
blcc: JHCourtright
JEKinnison ✓

Blind note on company copies: The free six month period ends February 25, 1966.

S.I.B.

October 5, 1965

AIR MAIL

Mr. J. H. Courtright, Chief Geologist
American Smelting and Refining Company
P. O. Box 5795
Tucson, Arizona 85703

Revelations Silver Prospect - Yuma, Arizona

Dear Mr. Courtright:

In accordance with your letter of September 30th to Mr. Richard referring to the Revelations Silver Prospect, Yuma County, Arizona, I am returning herewith two copies of the agreement which I have executed on behalf of the Company. With his copy of this letter, I am sending the copy of the agreement bearing the Legal Department stamp of approval as to form to Mr. Grose for safekeeping.

Very truly yours,

C. P. Pollock

Enc.

CC-SIBowditch - without enclosure
JEKinnison ✓ " "
HWGrose - with enclosure

K - please copy for KvdS, J.E.K. +
SIB

New York, N. Y., September 29, 1965

J. H. C.

Mr. C. P. Pollock

OCT 7 1965

The following is an extract from the minutes of the meeting of the Advisory Committee held today:

Mining Authorization No. 1038
Revelations Silver Prospect
Yuma County, Arizona

It was reported that the Company's geologists have negotiated an agreement under which Harry L. and Myrtle E. Duty grant Asarco an exclusive five-year option to purchase for \$100,000 four unpatented lode mining claims located in the Silver Mining District, 55 miles north of Yuma, Arizona, a possible silver prospect. Under the terms of the agreement Asarco will have the right to explore the property for a period of six months, without charge, after which Asarco will pay a rental of \$600 for a six-month examination period and \$300 per month thereafter, all of which would be credited against the purchase price. Asarco may terminate the agreement at any time upon 30 days' notice.

It was further reported that the Company's geologists recommend a sampling program at a cost of approximately \$3,000 to determine whether the potential ore reserve will justify a drilling program.

There were approved execution of the agreement with the Dutys and an expenditure of \$3,000 for a sampling program at the Revelations Silver Prospect, Yuma County, Arizona.

Harold Howe

FGHamrick
HLGoodenough
TASnedden
RENeen
JHCourtright ✓

August 23, 1965

Blind subject:
Revelation & Myrtle Claims
Silver Mining District
Yuma County, Arizona

Mr. Harry L. Duty
121 West Eleventh Ave.
Escondido, California

Dear Mr. Duty:

In accordance with the correspondence between you and Mr. Courtright, I have prepared the enclosed form of agreement covering your four claims in the Silver Mining District, Yuma County, Arizona.

The agreement is a five year option for \$100,000, with the right to examine the property and take samples, but no right to mine until the purchase price is paid. The first six months are free, the next six months will cost us \$600.00, and thereafter, if we continue the agreement, we pay you \$300.00 per month rental. All such payments apply upon the purchase price.

If this agreement is in accord with your understanding, will you and your wife please sign all three copies, have your signatures notarized, and then return all copies to me. I will send them on to New York for signature by Asarco, and in due course you will receive a fully executed copy for your records.

Yours very truly,

S. I. Bowditch

SIB:bam
Enclosures - 3
cc: JHCourtright w/o encs.
JEKinnison w/o encs.

Blind subject:
Silver District
Yuma County, Arizona

July 23, 1965

Mr. Harry L. Duty
121 West Eleventh Avenue
Escondido, California

Dear Mr. Duty:

I am glad that the Post Office found you, even though I mis-addressed my letter to you. The address on the sign was blurred or faded, and our man was not sure if it was 141 or 191. He did not think of 121.

Thank you for the photographs and Sweetser's report. We have made a copy of the report and maps, and I am returning them and the photographs herewith.

We would be prepared to take a five year option on your property for the \$100,000 you mention, provided we could have six months free time to make a preliminary examination of the property and do some surface sampling. If at the end of the six month period we were still interested and wanted to continue exploration of the property, we would pay you \$600 for the privilege of holding the option for the next six months. We would then pay \$2000 a year in advance for the next four years, if we keep the option that long. All such advance payments would apply upon the purchase price.

We would promise to do the assessment work while we hold the option (which, of course, we could cancel at any time) and if we did cancel and turn the property back to you we would give you copies of all maps, assays and logs of drill holes we may have made.

If these terms are satisfactory to you we will proceed to draw up the formal option agreement for your approval. For this we will need your wife's name, and it would be helpful if we had the book and page number where the location certificate of the claims are recorded.

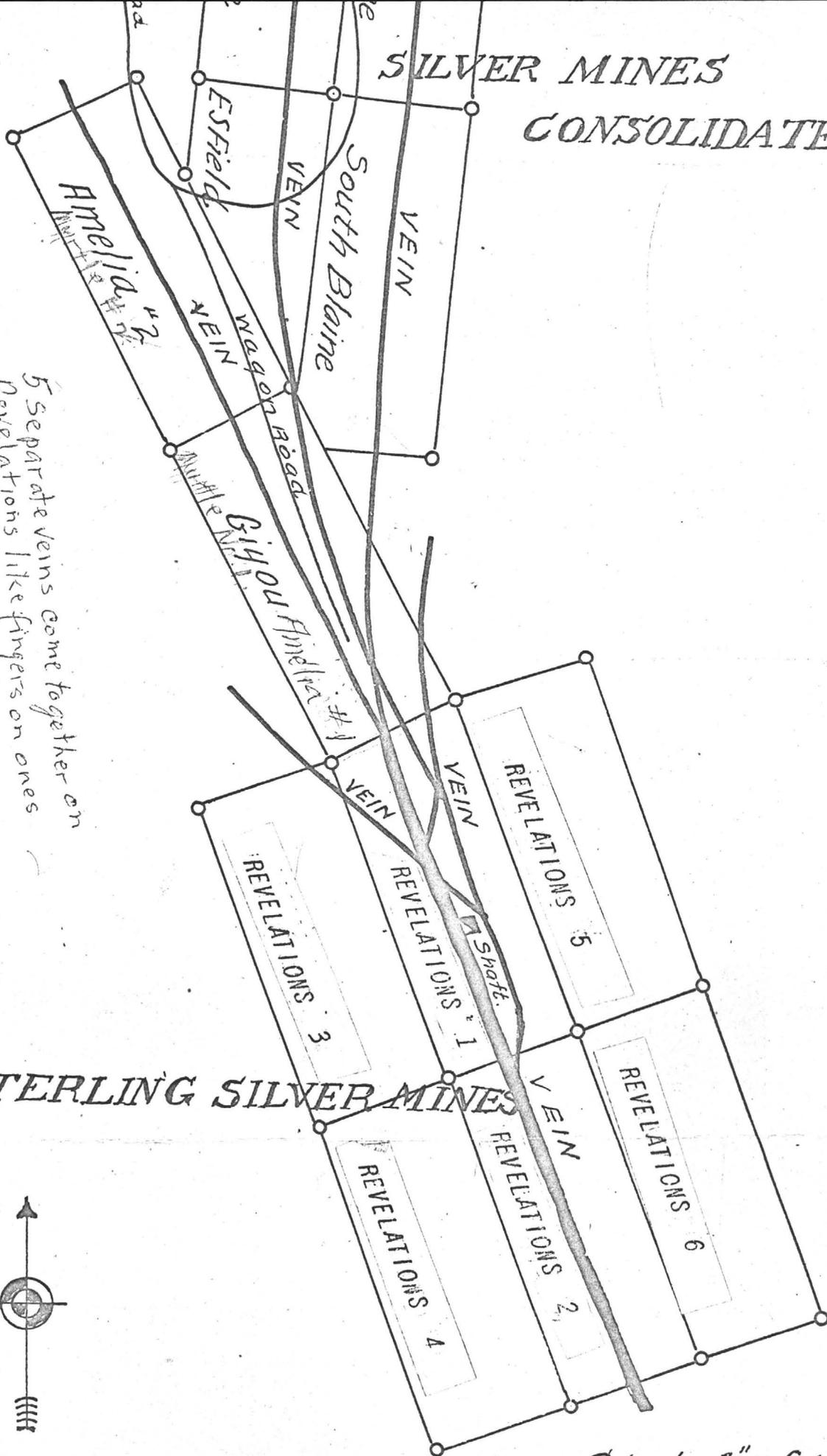
Yours very truly,

S. I. Bowditch

SIB:bam
Enc.

bcc: JHCourtright
JEKinnison

SILVER MINES CONSOLIDATED



5 Separate veins come together on
Revelations like fingers on ones
hand to form one giant vein

STERLING SILVER MINES



Scale 1" = 660'

HARRY L. DUTY
121 West Eleventh Ave.
Escondido, California

S. I. B.

Harry L. Duty
121 West Eleventh Avenue
Escondido, California

PHONE: 745-7390

JUL 20 1965

July 16, 1965

American Smelting and Mining Company
Southwestern Exploration Department
P. O. Box 5795
Tucson, Arizona 85703

Attention: Mr. S. I. Bowditch

Gentlemen:

Thank you for your letter of July 13, 1965, which, incidentally, had the address in error, which possibly delayed it. The correct address is 121 West Eleventh Avenue, instead of 191-as used.

Yes, I am the owner of the Revelation Silver Mines in the Silver Mining District, Yuma County, Arizona.

*(Side claims
prob correct)*

The present status of the property is that it is clear, and, as of this moment, I have no agreements pending on it and am open to offers. The Revelations Nos. 1 and 2, have been owned by me exclusively for twenty-five years; Myrtle Nos. 1 and 2 were acquired by me about five years ago. All four are unpatented. They run end on end with a total length of approximately 6,000 feet. At one time, I owned the side claims on both sides, but necessary costs in keeping up the annual assessment work made it necessary to drop them. It is my opinion, I still am the owner, as, to my knowledge they have never been relocated. All side claims are in ore and I located them for protection. My price is \$100,000.00, or ten percent royalty, or any reasonable terms.

Price is OK. Can we get, say, 3 year portion with no pay for 6 mo. or year.

Enclosed please find copy of an Engineer's report. While old, and the figures need to be brought up to date, Mining Engineer Nelson W. Sweetser, who has since passed away, who was a very reliable and well-known Engineer, stated I had over a quarter million tons of proven ore that would assay \$20.00 or better, per ton. Also enclosed are several maps, reports, pictures, etc., with description written on the back. I would like these returned after they have served their purpose.

Mr. Carl Self, a realtor of 2431 Fourth Avenue, Yuma, Arizona, does a lot of mining and has looked after my interests over there for many years. He has a complete file on me and my interests and would be only too happy to work with you in every way. He also has corresponded with your Mr. Reed Welch regarding these same claims-and also with your El Paso branch.

Further information will be gladly supplied if you desire, and I shall be happy to work with you in any way, and I know Mr. Self will be glad to assist in any way. He goes to the Silver District quite often.

Thank you for your inquiry. I shall look forward to hearing from you in the very near future.

Sincerely yours,

Harry L. Duty
Harry L. Duty

July 13, 1965

Mr. Harry L. Duty
191 West 11th Avenue
Escondido, California

Dear Mr. Duty:

Recently in reviewing our files we came across reference to the Revelation silver mine in the Trigo Mountains, north of Yuma, and when one of our men was in the area he visited the property. There was no one around, but a sign on the ground said you were the owner.

We are wondering if you still are the owner, and if so, what is the present status of the property. How many claims are now involved, and are any of them patented? If you would be interested in coming to an agreement with us by which we might examine the property and see if further work was justified to try and make an operation there, we would be glad to hear from you.

If you have any maps or reports pertaining to the property we would be glad to look at them.

Yours very truly,

S. I. Bowditch

SIB/ce
bcc: JHCourtright
JEKinnison

John:

Re the Revelation drilling.

We can rent a Gardner-Denver series 99 drill
(4" piston) on an ATD 3000 Air Track with a 10'
feed, an RP 365 diesel compressor and 50' of
1 1/2" air hose for \$400 = per week add to that

Buy ~~Buy~~
3- 10' 1600V series
" 1 1/4" diam. drill steel
@ \$49.25 147.75
" 3- couplings @ \$9.50 28.50
" 2- bits @ ± \$50 = 100.00
(I have one) total 13
" 1- striker bar @ \$28.75 28.75

Rent. 1- Flat bed truck @
\$12 = /day & 14¢/mile
From Phx-Phx 400 mi,
7 days. 140.00

Buy 150 gal. diesel fuel
@ 18¢/gal 27.00
" 12 gts oil @ 60¢/gt. 7.20
3 Men @ \$50 = /day
6 days 900.00

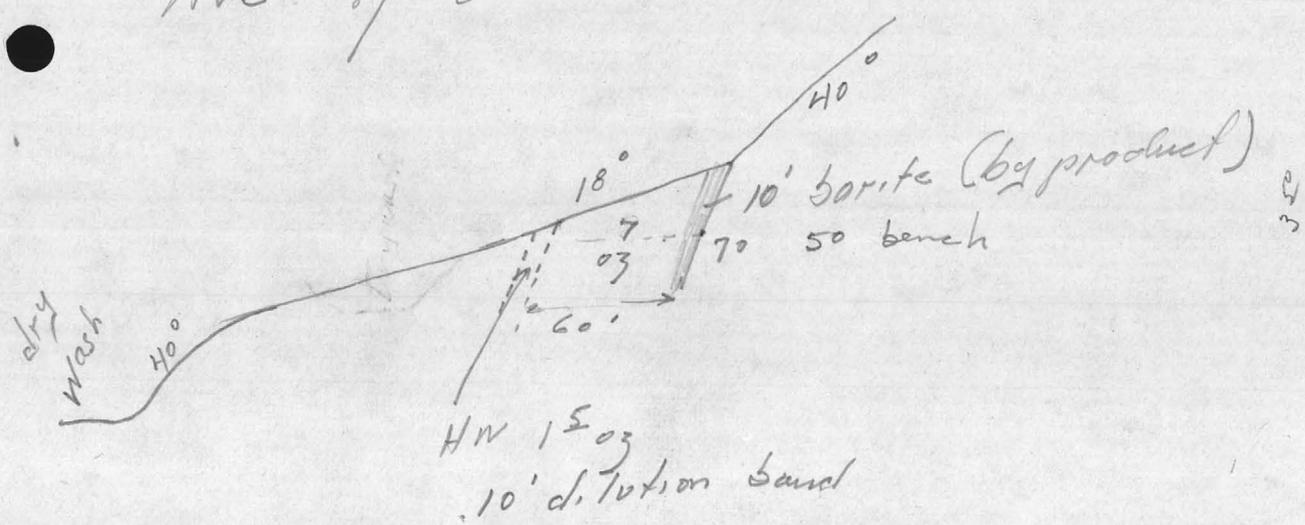
Total 15 days drilling \$1879.20
(500' +)

JRW

3000
- 690

2310

Ave of 60'

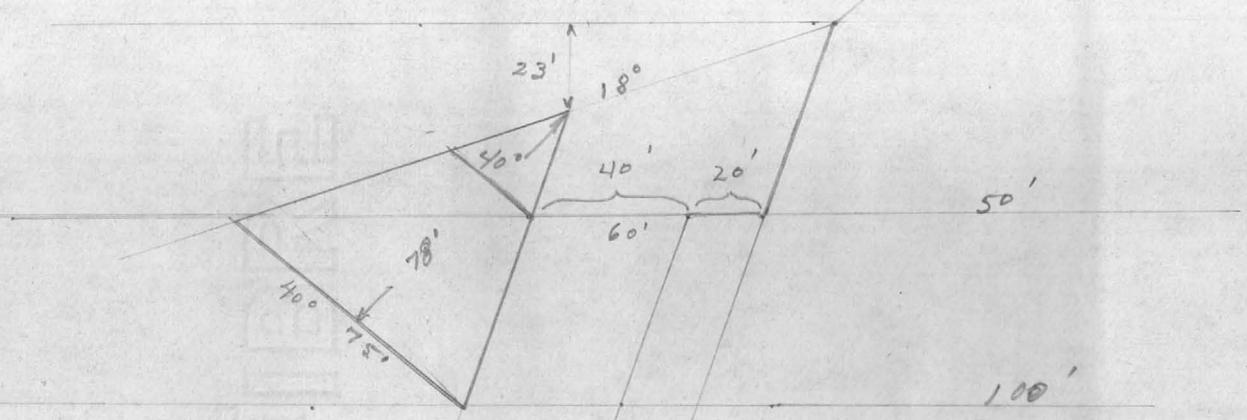


1st cut one ± $(50 \times 60) - \frac{60 \times 23}{2}$ per ft length = 2310 sq ft

2nd cut one ± (50×40)

stripping total $\frac{78 \times 75}{2}$

" " " = $\frac{2000 \text{ sq ft}}{4310 \text{ Total}}$
" " " 40 = 5850 sq ft



Barite by product 10×50 per ft length = $600 \text{ sq ft} \times 800 = \frac{480000}{7}$
stripping ratio 1.4 : 1 = ± 70,000 tons

holes to 20' depth

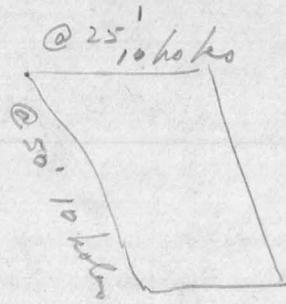
N part 500 x 250

100 holes 2000' drilling

@ 2.50 contract/ft = \$5000

Assaying (\$5/hole) = 500
(about 5/day)
Days 30

Sampler @ \$50 x 30 $\frac{1500}{\$7500}$



Tons
 $\frac{500 \times 250 \times 100 \text{ deep}}{11}$
 $= \frac{12,500,000}{11}$
 $= \text{over 1 mill.}$
plus 2 mill to 200'
@ 1 to 1

Central part

800 long @ 50' 40 holes

100 wide @ 25' 4 holes

160 holes

20' deep = 3200 ft. @ 2.50 = \$8000

4 holes per day - 40 days

Sampler, say 45 days @ \$50 = \$2250

Assaying $\frac{800}{\$3,050}$

11000 Total

(1) 10 holes 4 3/4 dry rotary 100' deep

1000' drilling @ \$4 =

4000
500

assaying

Sampling (15 days @ 50) =

750

Cost for woods

2000
7250

800' many trenches

600' on north lower grade more waste

South end open

$$4310 \times 800 = 3,448,000 \text{ cu ft}$$

@ 11 cu ft / Ton

$$= 313,000 \text{ Tons to } 100' \text{ depth}$$

Channel samples, ^{apparently cut} ~~reportedly cut~~ by Bur Naves

agrees with these values
of March 22 65

My Memo to JHC summarizing file data

recommended a brief field check.

This has now been done.

Clip 1 mill on Ag. 120' deep shot.

Camp needed for any extensive work.

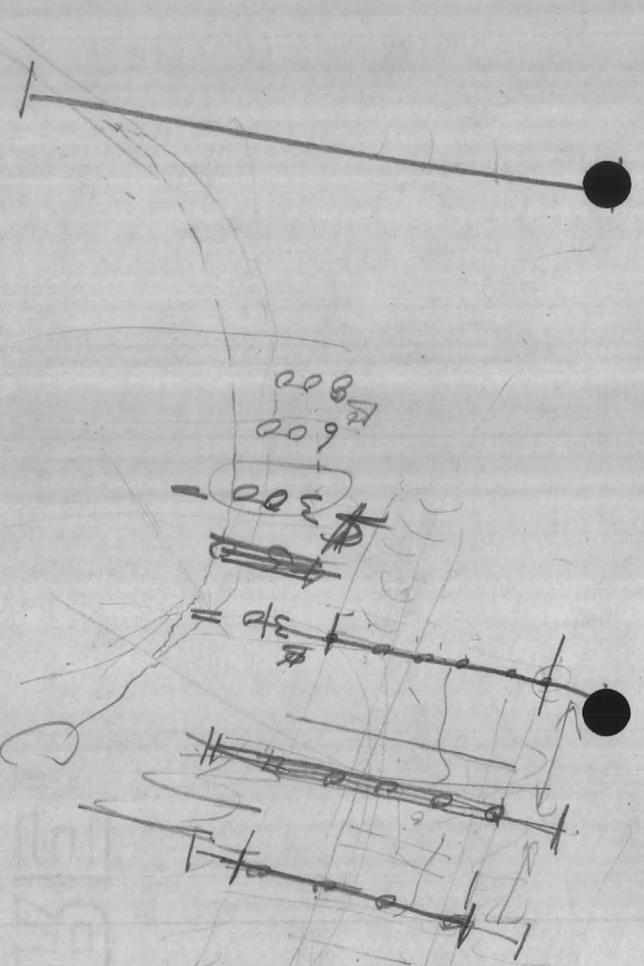
to begin Geol. work 2 months \$ 3000
including misc assays

Topogr. 2 men 15 days 1050
70 x 15

approx \$ 4000

to prepare for chilling - Cat₁ or wool and greaser 2000
\$ 6000

GOLD FIBRE



2-#500
#1300

Ramã leyo

1000

25,000,000

30,000,000

3,000,000

12/150,000,000

12,000,000

1,000,000

350,000

~~600~~
~~300~~

5000
200
1000000

Angles (Revelation Open Cuts)

L-2 (including L-2d)

$$\angle = 18^\circ$$

L-2a

$$\angle = 20^\circ$$

L-2b

$$\angle = 25^\circ$$

L-2c

$$\angle = 15^\circ$$

L-3

$$\angle = 25^\circ$$

L-3a

$$\angle = 10^\circ$$

L-4

$$\angle = 17^\circ$$

L-5

$$\angle = 16^\circ$$

L-6

$$\angle = 23^\circ$$

L-7

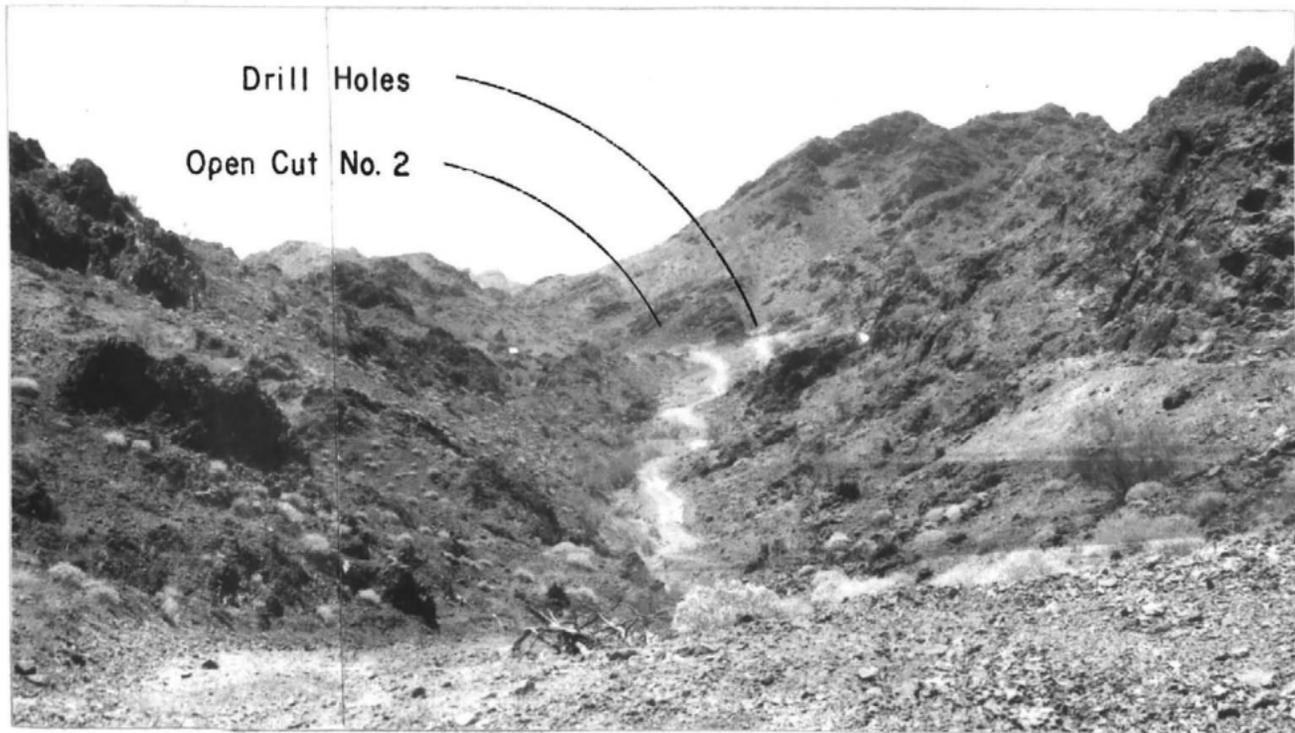
$$\angle = 26^\circ$$

L-8

$$\angle = 27^\circ$$

L-9

essentially horizontal



Drill Holes

Open Cut No. 2

Looking SE Along Revelations Claims
Foreground at NEC No. 1, skyline along SEC No. 2. Vein does not stand out clearly. It lies up-slope a short way from the road

vein and barite chip samples

$$100' \quad \begin{array}{r} 376 \\ 483 \\ \hline \end{array}$$

$$859 \div 100 = 8.6 \text{ oz/ton}$$

FW to HW Open Cut 2
and Surface chips.

open cut L-2

$$10 \times 7.4 = 74$$

$$10 \times 8.0 = 80$$

$$10 \times 8.5 = 85$$

$$10 \times 6.6 = 66$$

$$10 \times 7.1 = 71$$

$$20 \times 2.8 = 56$$

$$20 \times 5.0 = 100$$

$$20 \times 1.7 = 34$$

$$10 \times 1.4 = 14$$

$$\hline 582 \div 120 = 4.8 \text{ oz/ton}$$

for vein

74

80

85

66

71

$$\hline 376 \div 50 = 7.5 \text{ oz/ton}$$

Thompson obtains for cut 6.5 oz/ton and vein only 9.3 oz/ton
I do not understand how these figures were obtained.

H-5

$$30 \times 0.3 = 9.0$$

$$30 \times 1.2 = 36.0$$

$$40 \times 3.3 = 132.0$$

$$20 \times 1.2 = 24.0$$

$$\frac{201.0}{120} = 1.708 \text{ oz/ton}$$

O.K.

Weighted averages - open cuts:

L-7.

$$10 \times 2.8 = 28.0$$

$$10 \times 3.7 = 37.0$$

$$10 \times 6.5 = 65.0$$

$$20 \times 5.4 = 108.0$$

FOR CUT. $238 \div 50 = 4.76 \approx 4.8 \text{ oz/ton}$

FOR VEIN ONLY THOMPSON GETS 4.3 oz/ton
C.V.W = 27'

	37.0	37	4.3	4.3
	65.	65	27	30
	28.	102	301	1290
108	<u>130.0</u>		<u>860</u>	
			1161	

it seems that he took

VEIN $\left\{ \begin{array}{l} 10 \times 2.8 = 28 \\ 10 \times 3.7 = 37 \\ 10 \times 6.5 = 65 \end{array} \right.$

$$130 \div 30' = 4.3 \text{ oz/ton}$$

agreeing with Thompson's figure.

L-6

$$10 \times 9.4 = 94$$

$$10 \times 10.9 = 109$$

$$10 \times 9.5 = 95$$

$$10 \times 10.0 = 100$$

$$20 \times 7.9 = 158$$

$$556 \div 60 = 9.3 \text{ oz/ton O.K.}$$

to the nearest 10th

Now vein:

$$10 \times 10.0 = 100.0$$

$$10 \times 9.5 = 95.0$$

$$10 \times 10.9 = 109.0$$

$$10 \times 9.4 = 94.0$$

$$398.0 \div 40 = 9.9 \text{ oz/ton O.K.}$$

Revelation claims:

weighted averages - drill-holes.

H-1

$10 \times 1.5 = 15$

$40 \times 2.8 = 112$

$10 \times 5.1 = 51$

$20 \times 5.2 = 104$

$282 \div 80 = 3.5 \text{ oz/ton}$

O.K.

H-2

$40 \times 0.3 = 12.0$

$40 \times 0.5 = 20.0$

$40 \times 2.0 = 80.0$

$20 \times \begin{matrix} (2.5) \\ 1.6 \end{matrix} = \begin{matrix} 50.0 \\ 32.0 \end{matrix}$

$20 \times 2.6 = 52.0$

$\text{or } \frac{258}{200} = 1.3 \text{ oz/ton}$

~~20x5~~

$40 \times 1.1 = 44.0$

$\frac{238.0}{200} = 1.2 \text{ oz/ton}$

Thompson 1.5

H-3

$10 \times 0.2 = 2.0$

$30 \times 0.3 = 9.0$

$40 \times 1.4 = 56.0$

$40 \times 3.7 = 148.0$

$40 \times 2.6 = 104.0$

$10 \times 2.5 = 25.0$

$344.0 \div 170 = 2.0 \text{ oz/ton}$

O.K.

H-4

$30 \times 0.2 = 6.0$

$40 \times 0.4 = 16.0$

$40 \times 25.6 = 1024.0$

$20 \times 5.4 = 108.0$

$10 \times 4.1 = 41.0$

$40 \times 4.0 = 160.0$

$1355.0 \div 180 = 7.5 \text{ oz/ton}$

O.K.

Thompson { cut = 3.1 } oz/ton
 { vein = 3.7 }

3.

open cut L-8.

$$10 \times 6.4 = 64$$

$$10 \times 6.8 = 68$$

$$10 \times 3.3 = 33$$

$$10 \times 3.6 = 36$$

$$20 \times 2.2 = 44$$

$$20 \times 1.4 = 28$$

$$273 \div 80 = 3.4 \text{ oz/ton}$$

for vein $10 \times 6.4 = 64$

$$10 \times 6.8 = 68$$

$$10 \times 3.3 = 33$$

$$10 \times 3.6 = 36$$

$$20 \times 2.2 = 44$$

$$245 \div 60 = 4.0 \text{ oz/ton}$$

open cut L-5

$$20 \times 10.1 = 202.0$$

$$20 \times 10.7 = 214.0$$

$$20 \times 5.0 = 100.0$$

$$516.0 \div 60 = 8.6 \text{ oz/ton}$$

O.K.

for vein

$$20 \times 10.1 = 202.0$$

$$20 \times 10.7 = 214.0$$

$$416.0 \div 40 = 10.4 \text{ oz/ton}$$

O.K.

Open cut L-4.

$$10 \times 4.1 = 41$$

$$20 \times 5.0 = 50$$

$$10 \times 3.9 = 39$$

$$20 \times 3.5 = 70$$

$$200 \div 50 = 4.0 \text{ oz/ton}$$

Thompson: 4.9
oz/ton

open cut L-3

$$10 \times 3.0 = 30.0$$

$$10 \times 2.1 = 21.0$$

$$10 \times 3.5 = 35.0$$

$$10 \times 2.7 = 27.0$$

$$20 \times 1.6 = 32.0$$

$$20 \times 0.6 = 12.0$$

$$157.0 \div 80 = 1.9 \text{ really}$$

check to 2 oz/ton.
O.K.

for vein

$$30.$$

$$21$$

$$35$$

$$\underline{27}$$

$$113 \div 40 = 2.8 \text{ oz/ton O.K.}$$

open cut L-2a.

$$20 \times 4.9 = 98.0$$

$$20 \times 6.4 = 128.0$$

$$\underline{226.0} \div 40 = 5.65 \text{ oz/ton}$$

$\approx 5.7 \text{ O.K.}$

L-2 ~~D~~ D.

$$20 \times 16.5 = 330$$

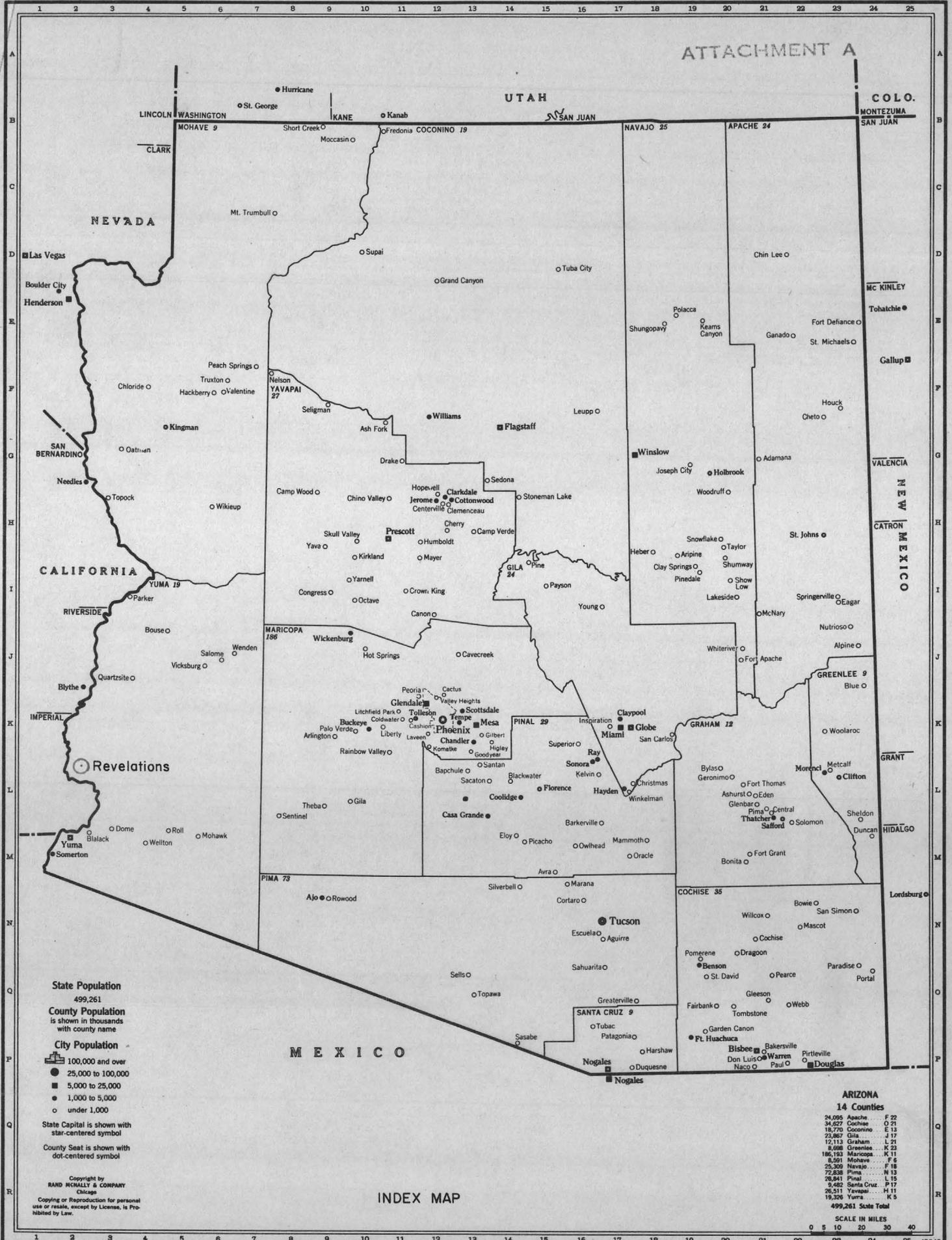
$$20 \times 5.0 = 100$$

$$10 \times 5.3 = 53$$

$$\underline{483} \div 50 = 9.6 \text{ oz/ton}$$

L-2d-1 51.5

ATTACHMENT A



State Population
499,261

County Population
is shown in thousands
with county name

City Population

- 100,000 and over
- 25,000 to 100,000
- 5,000 to 25,000
- 1,000 to 5,000
- under 1,000

State Capital is shown with
star-centered symbol

County Seat is shown with
dot-centered symbol

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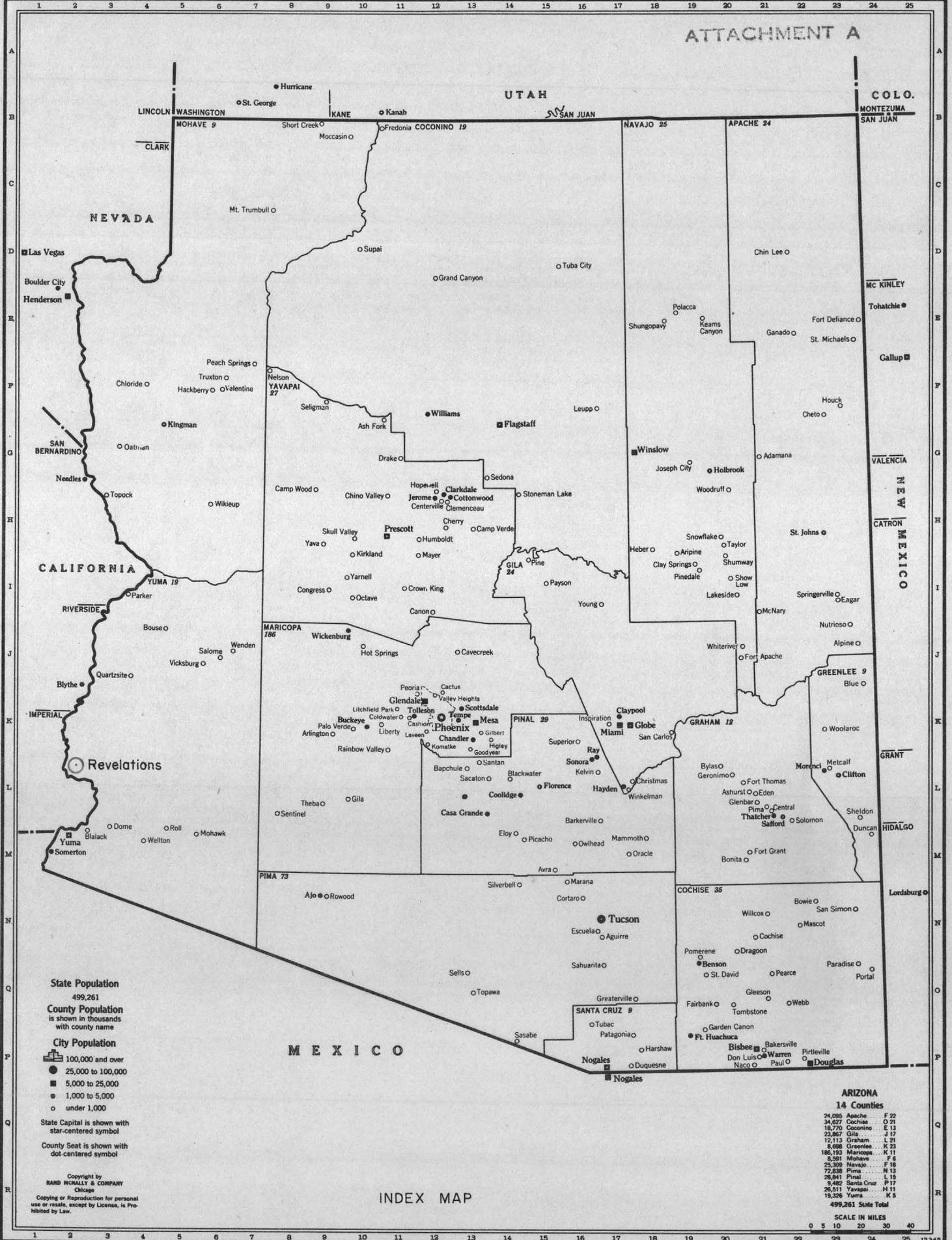
INDEX MAP

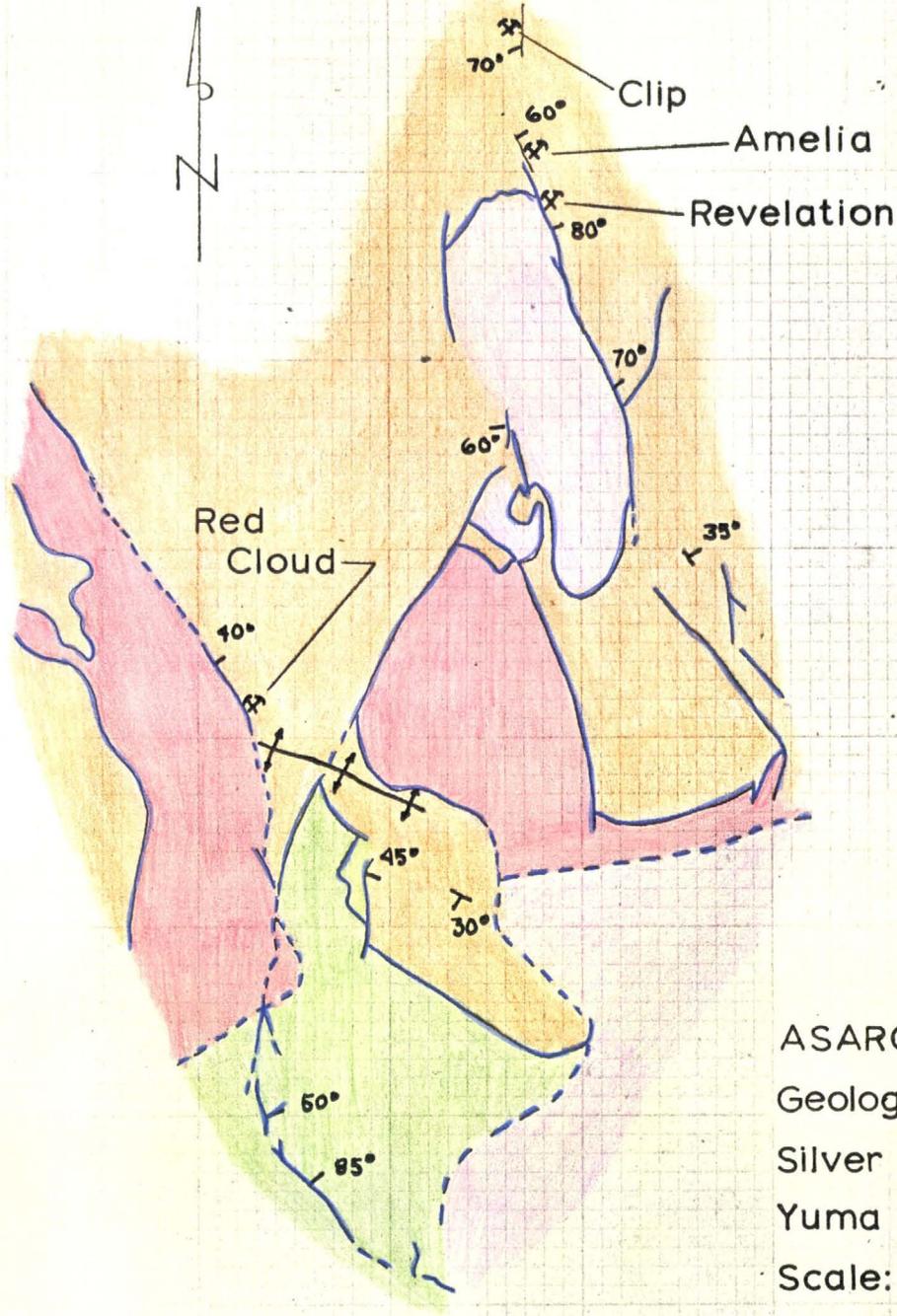
ARIZONA
14 Counties

24,095	Apache	F 22
34,627	Cochise	O 21
18,770	Cocconino	E 13
23,867	Gila	J 17
12,113	Graham	L 21
8,608	Greenlee	K 23
186,153	Maricopa	K 11
8,591	Mohave	F 6
25,309	Navajo	F 18
72,838	Pima	N 13
26,841	Pinal	L 15
9,482	Santa Cruz	F 17
26,511	Yavapai	H 11
19,528	Yuma	K 5
499,261 State Total		

SCALE IN MILES
0 5 10 20 30 40

ATTACHMENT A

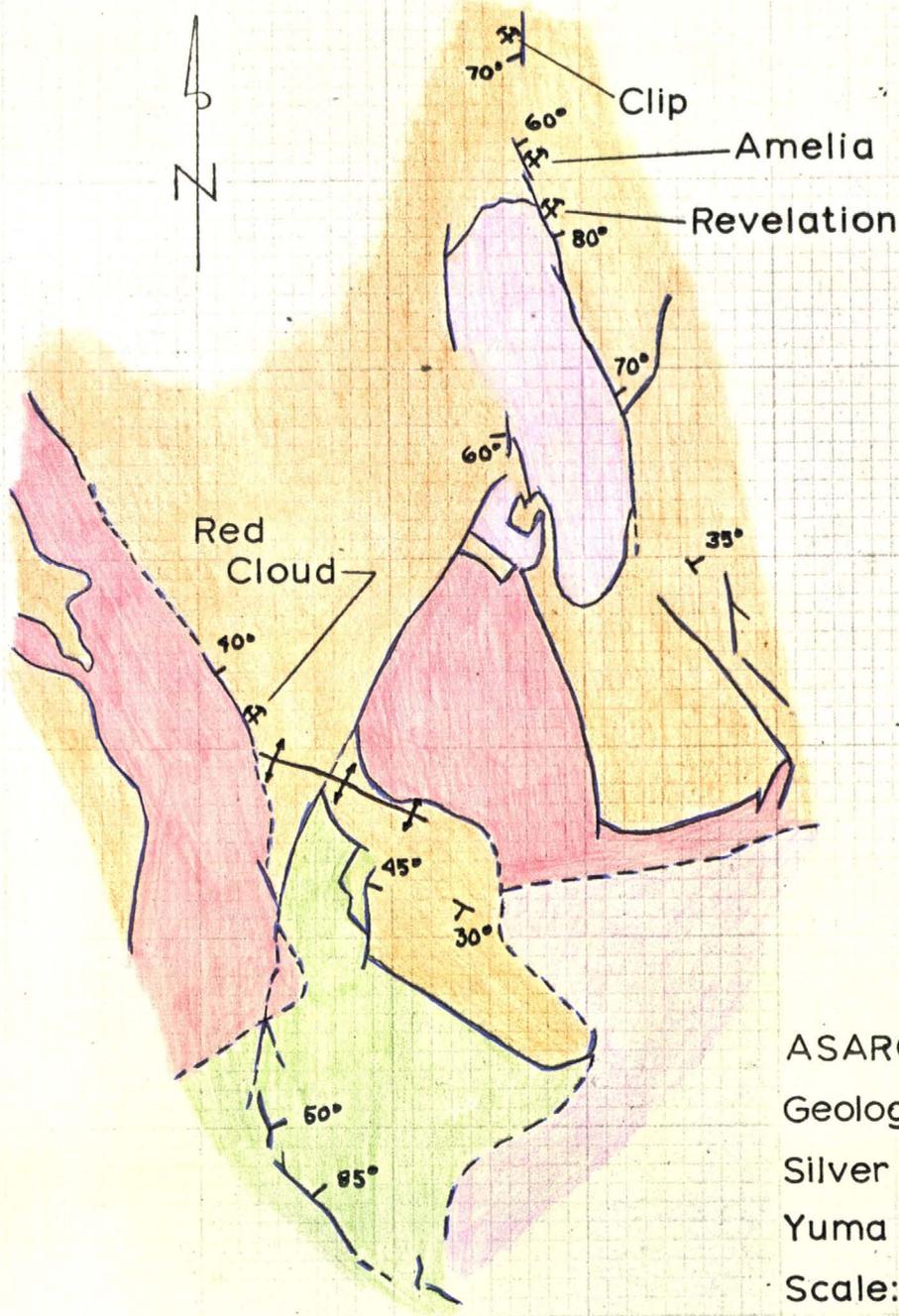




ASARCO
 Geologic Map
 Silver District
 Yuma Co, Ariz.
 Scale: 1.5" = 1 mile
 (Ariz. Bull. 158)

- Volcanics
- Granitic Rocks
- Schist & Granite
- Schist

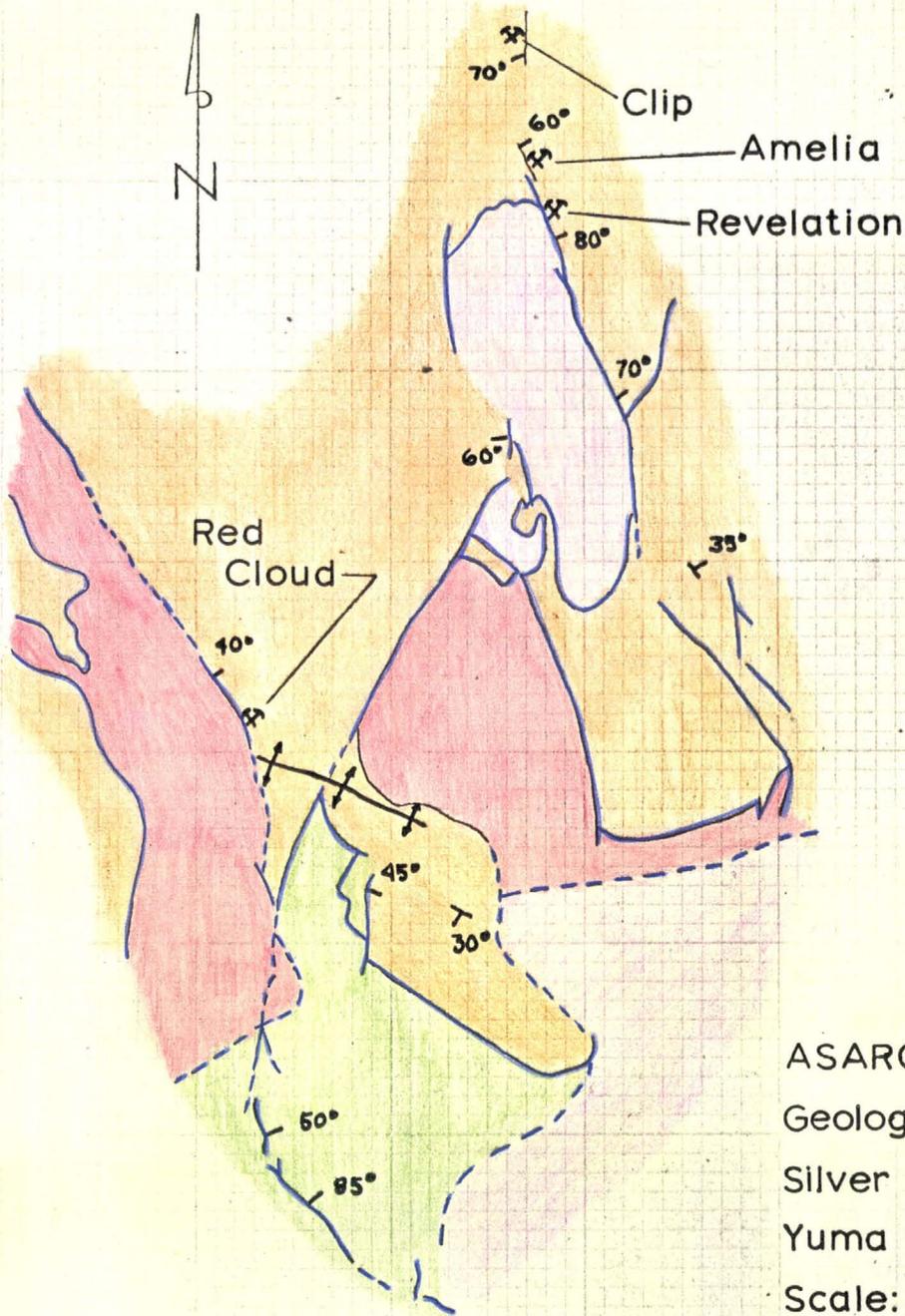
Fault



ASARCO
 Geologic Map
 Silver District
 Yuma Co., Ariz.
 Scale: 1.5" = 1 mile
 (Ariz. Bull. 158)

- Volcanics
- Granitic Rocks
- Schist & Granite
- Schist

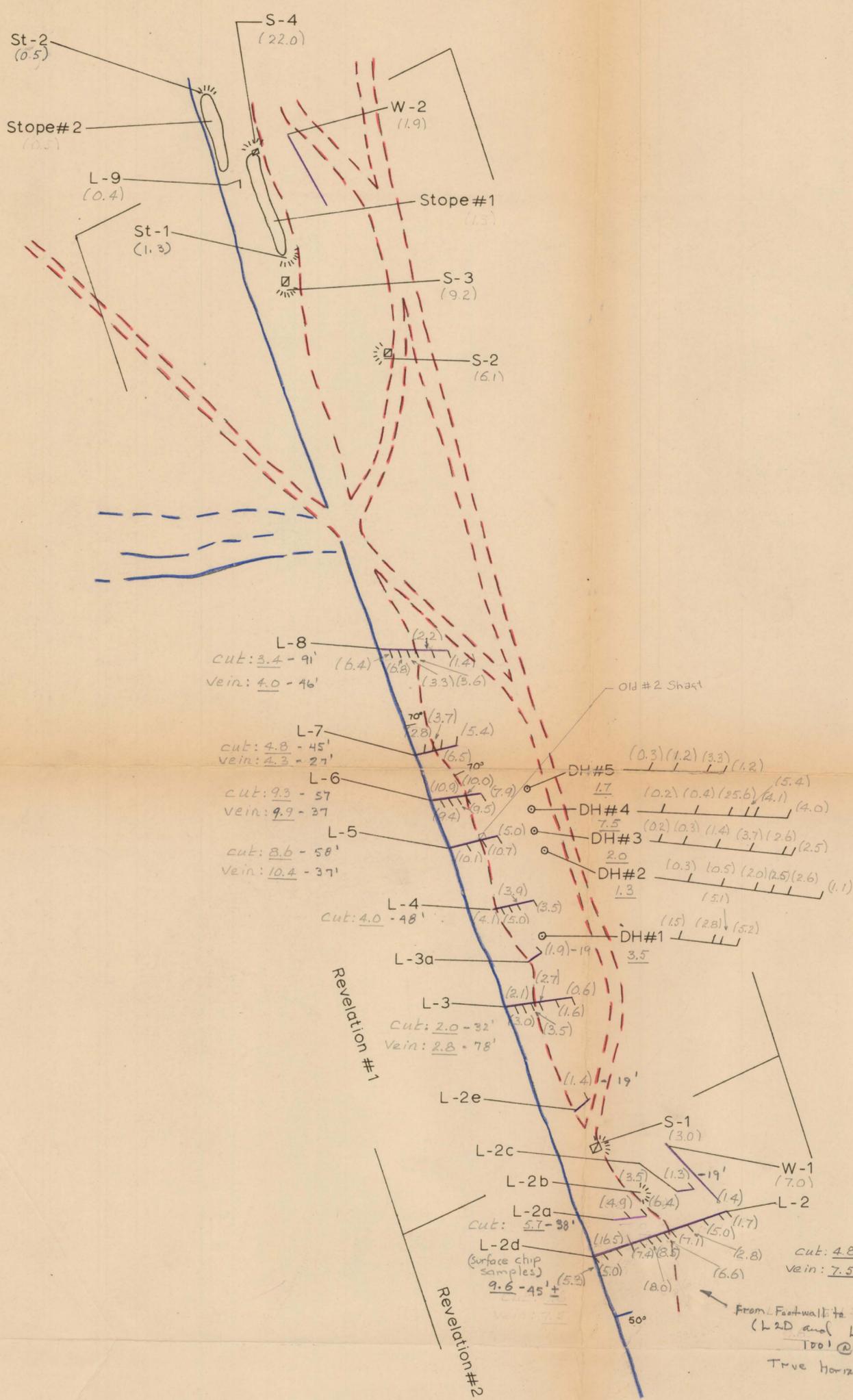
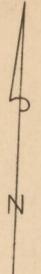
Fault



ASARCO
 Geologic Map
 Silver District
 Yuma Co., Ariz.
 Scale: 1.5" = 1 mile
 (Ariz. Bull. 158)

- Volcanics
- Granitic Rocks
- Schist & Granite
- Schist

Fault



ASARCO
Assay Map
Revelation Claims
Silver District
Yuma Co, Arizona

- Scale: 1" = 100'
- Sample Line ———
- Assay - Ag oz/ton (2.7) - 10
- Weighted Average and horizontal length 3.5 - 40'
- Dump - - - - -
- Fault ———
- Vein - - - - -

(Au & Pb were also assayed but not included on this map)
6-24-65 RJT



ASARCO
 Revelation Claims
 Silver District
 Yuma Co., Arizona
 Scale: 1"=100'

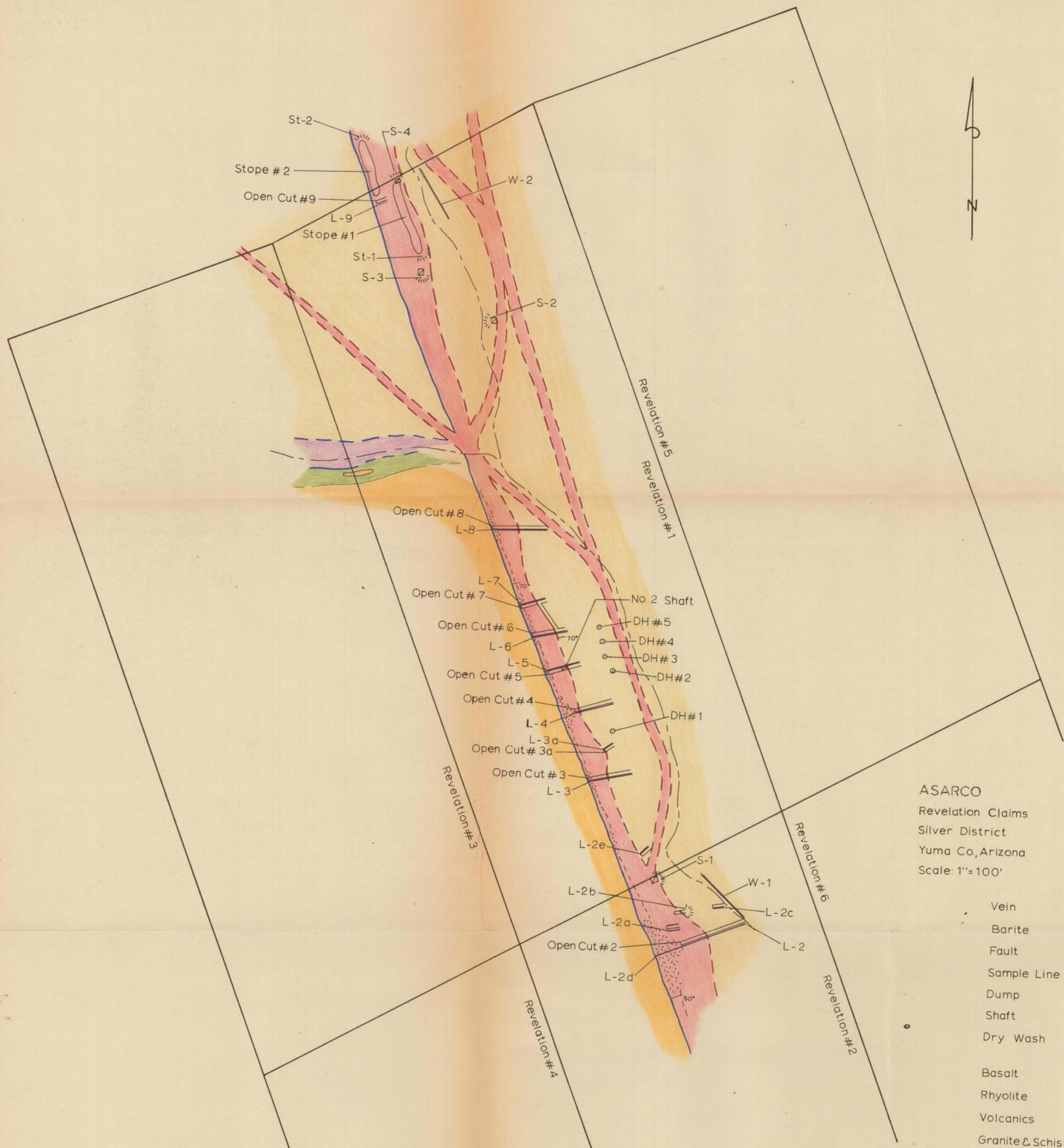
Vein	
Barite	
Fault	
Sample Line	
Dump	
Shaft	
Dry Wash	
Basalt	
Rhyolite	
Volcanics	
Granite & Schist	
6-23-65	RJT



ASARCO
 Revelation Claims
 Silver District
 Yuma Co, Arizona
 Scale: 1"=100'

- | | |
|------------------|-----|
| Vein | |
| Barite | |
| Fault | |
| Sample Line | |
| Dump | |
| Shaft | |
| Dry Wash | |
| Basalt | |
| Rhyolite | |
| Volcanics | |
| Granite & Schist | |
| 6-23-65 | RJT |





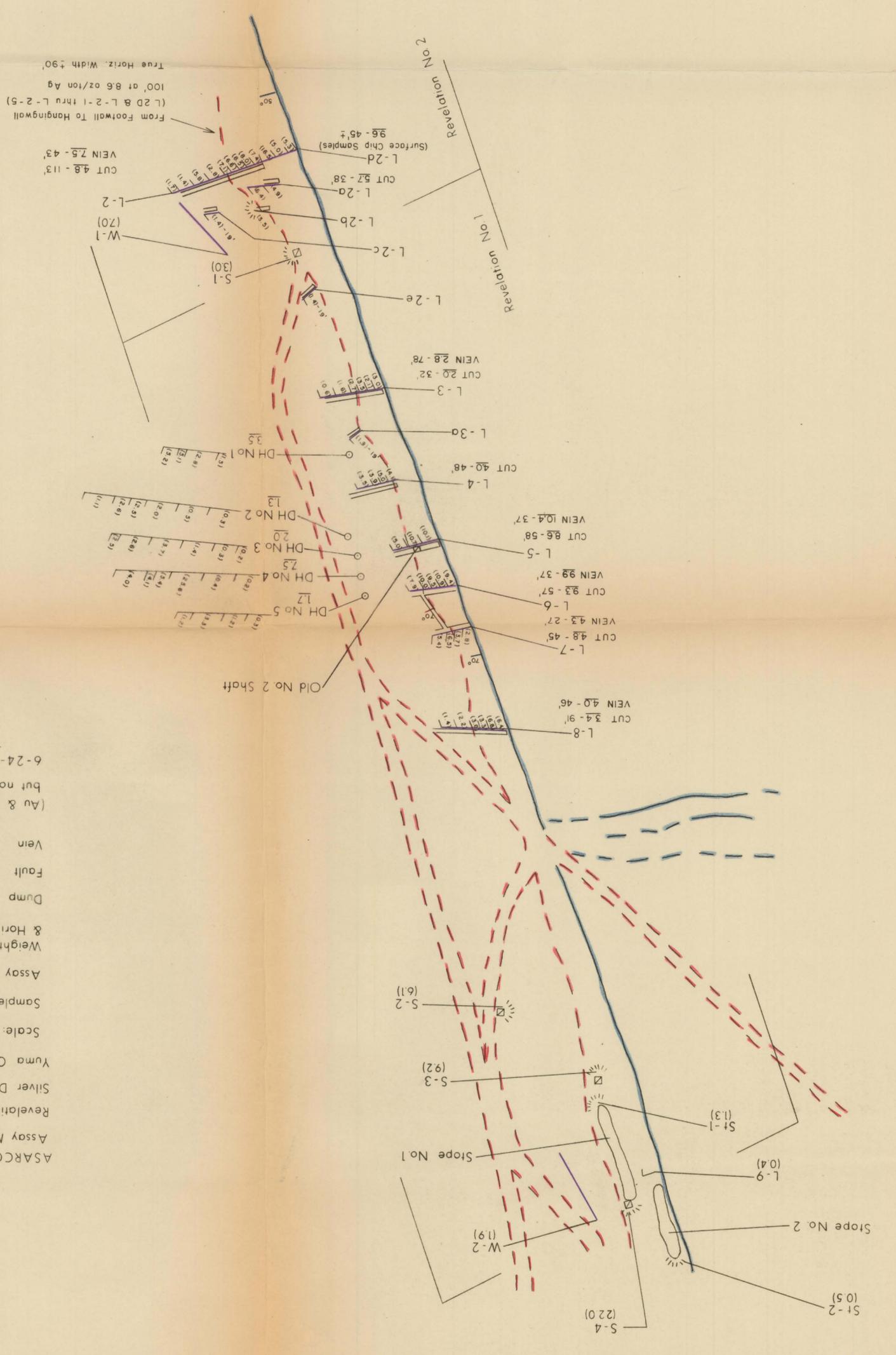
ASARCO
 Revelation Claims
 Silver District
 Yuma Co, Arizona
 Scale: 1"=100'

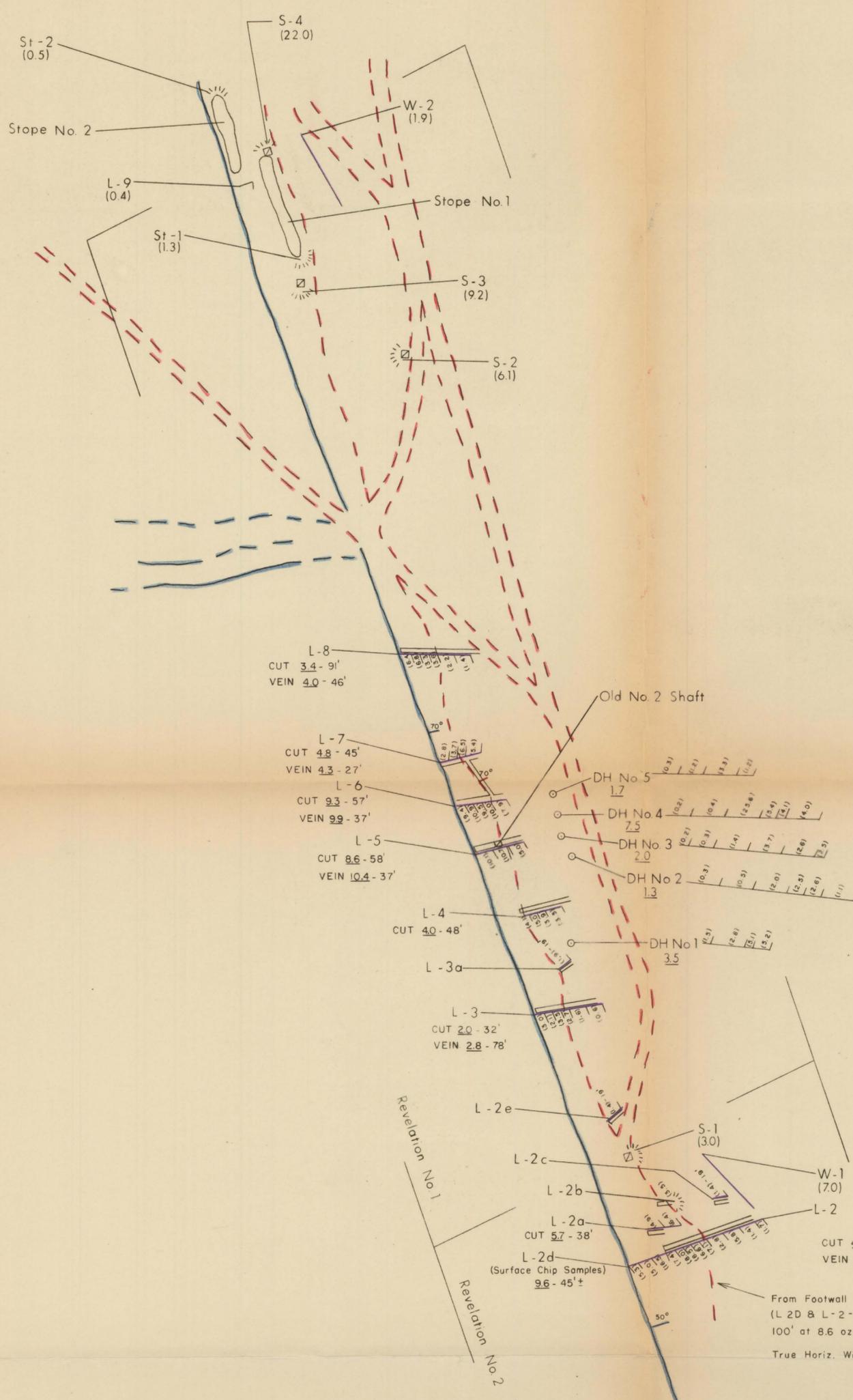
- Vein
 - Barite
 - Fault
 - Sample Line
 - Dump
 - Shaft
 - Dry Wash

 - Basalt
 - Rhyolite
 - Volcanics
 - Granite & Schist
- 6-23-65 RJT



ASARCO Assay Map
 Revelation Claims
 Silver District
 Yuma Co., Arizona
 Scale: 1" = 100'
 Sample Line
 Assay Ag oz/ton (27)
 Weighted Average
 & Horizontal Length
 Dump
 Fault
 Vein
 (Au & Pb were also assayed
 but not included on this map)
 6-24-65
 RJT





ASARCO
 Assay Map
 Revelation Claims
 Silver District
 Yuma Co, Arizona

Scale: 1" = 100'

Sample Line —
 Assay Ag oz./ton (2.7)
 Weighted Average & Horizontal Length 3.5 - 40'
 Dump
 Fault —
 Vein - - -

(Au & Pb were also assayed but not included on this map)

6-24-65 RJT

From Footwall To Hangingwall
 (L 2D & L-2-1 thru L-2-5)
 100' at 8.6 oz/ton Ag
 True Horiz. Width ±90'

AMERICAN SMELTING AND REFINING COMPANY
Tucson Arizona

March 22, 1965

TO: J. H. COURTRIGHT

FROM: J. E. KINNISON

REVELATION CLAIMS
SILVER MOUNTAIN DISTRICT
YUMA COUNTY, ARIZONA

As you requested, I looked into information available on the subject property. Nothing of recent date has been published, and the one person that has been into the district in recent times, Elred Wilson of the Arizona Bureau of Mines, is out of town.

Our files contain in themselves, I find, enough information to warrant an examination of the property. It appears possible that a vein or mineralized zone, in width 30 to 80 feet and in length about 2000 feet, exists there, as may be deduced from our file information, and that this vein near the surface might grade about 8 oz. per ton silver. The uncertainties which exist with respect to previous sampling largely come about because the several reports in our files are written and/or labeled in an obtuse manner, causing difficulty in relating specific data to the Revelation Claims.

The general geology is shown by Attachment A (from the Arizona Bureau of Mines Bulletin 158, Part II).

A report dated 8/25/35 by N. W. Sweetser, I.M., has an unsigned map of the Revelation Claims and the vein, which shows the location of some surface crosscuts and two shafts (Attachment B).

Clipped loosely to a letter dated 1947 in our files are photographs of what probably are these crosscuts (Attachment C).

A typed copy of a U. S. Bureau of Mines Metallurgical test from this area (which apparently was not published) contains an assay sheet referenced to these crosscuts and also the two shafts (Attachment D).

RECOMMENDATIONS

I suggest that the Revelation Claims be examined to determine if the vein and crosscuts exist as listed above, and that the crosscut dumps be grab-sampled.

ORIGINAL SIGNED BY
JOHN E. KINNISON

J. E. KINNISON

JEK/jak

Attachments - 4

cc: JHCourtright, w/o atts.

JEKinnison, w/o atts. 