Schrader, Frank Charles

Unpublished Report on the Carson Sink Area, Nevada . . . (field work 1911-1920)

U.S. GEOLOGICAL SURVEY
DENVER, COLO.
MAR 5 0 1970
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203(275)
Sch69c
v.3
pt.2
PLATES

U. S. GEOLOGICAL SURVEY
MAR 10 1920
LIBRARY

203(2.75)
Sch. 910
v. 3
Pt. 2
PLATE 93

Gold Pen mine

Gold Pen mine

Vein about 18' wide mostly $20 ore

Stoping July 1920

Stoped $60,000

$54,000.

Gopher hole

Shaft

4' $60 ore

All in ore 2' - $12.

Vein 18' wide

20' $30

NW.

"Tunnel" of 55' level

$25. ore

Vein 20' wide mostly $20 ore

Vein 16' wide, mostly $20 ore from 130 foot surface

South East

100' Sill

100'

3' horse in vein

Pyrite in vein wall rock

B 130 ft Level

Vein 15' wide with mostly $136. ore across drift.

150' Sill

Vein 20' wide, mostly $20 ore, Some $103

Rhyolite wall rock Pyrite 3 feet $726

Vein 12' wide, mostly $15. ore

200' Sill

200'

30' $5-50 ore

Vein

258' Level

250

A

Vein 27' $3260 ore mostly

Xcut 35'

From line AB on 130' level to surface vein is about 20' in avrge width and mostly $20 ore

Longitudinal Section showing Fig 93 ~~Diagram of~~ principal workings and values in the Gold Pen mine according to the management in 1920

Scale 1 inch = 20 feet appx.

75% reduction
Fig. 93

N

149.9 Ft 04 LEVEL

DROMIAC Lease

126.4

80.9 Level

64 FT
SL = 4982.79

02

02

1' = 20 feet

N

BALLOON LODE

E Claim

150

N 20° E

150'

Level

Stope

Stope

Col 4

Col 3

Rowhile Lode
(claim)

T650

MORNING STAR FRACTN.

0152

50-60
Tons

187.6' Level

To winze

SHFT
SL 4965.33

54' Level

151.6' Level

0153

Fig 10 Workings in Morning Star mine and Dromiac Lease diagram.

Scale 1" = 20 feet

N

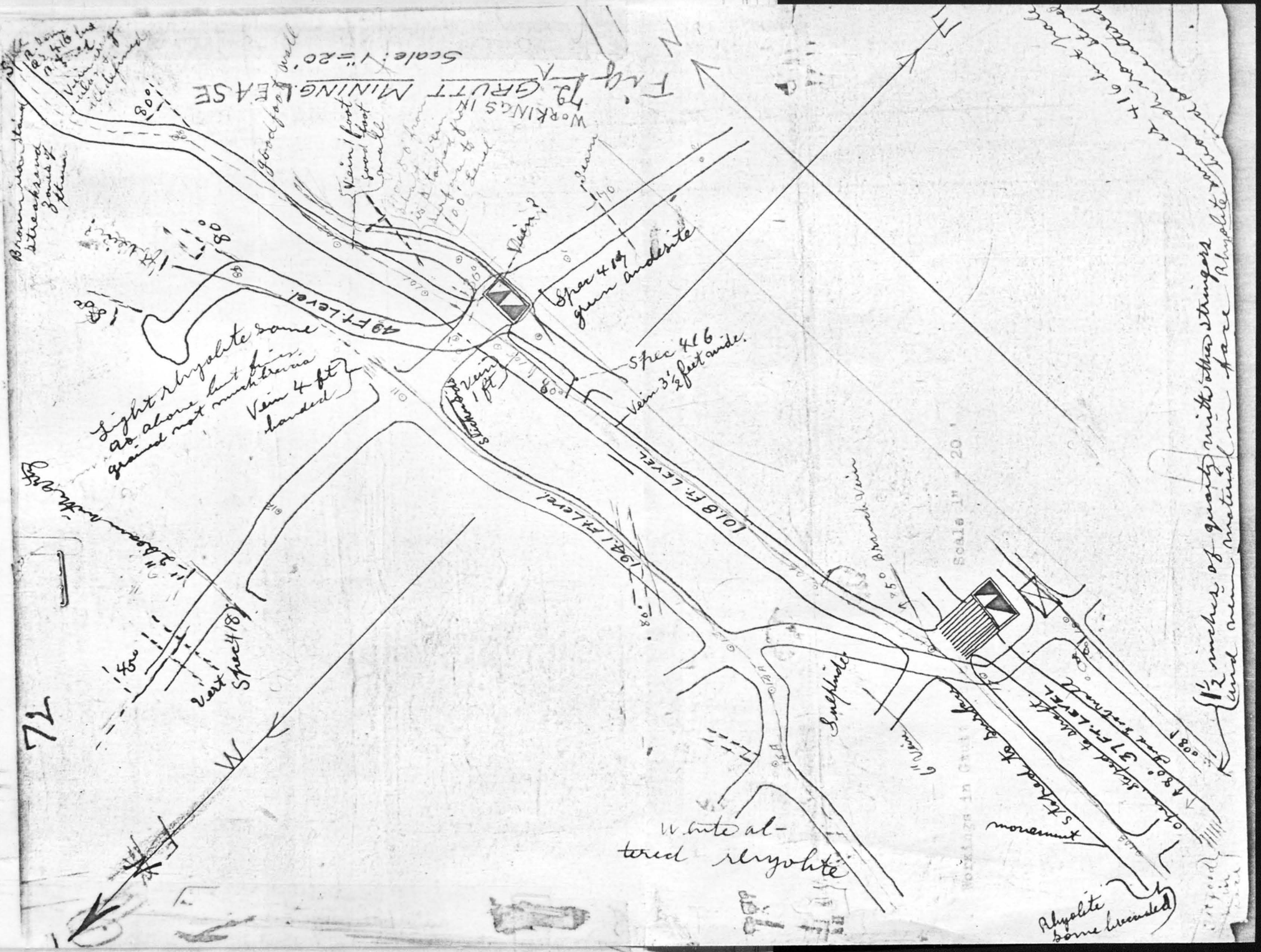
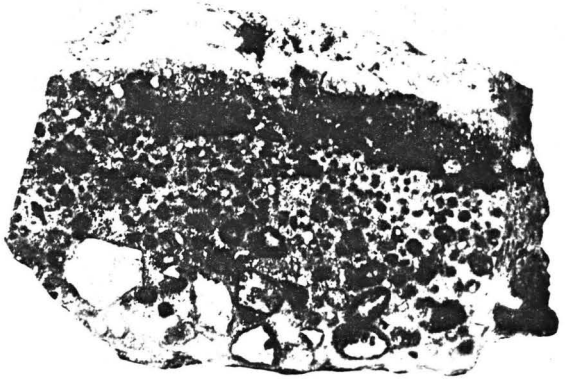
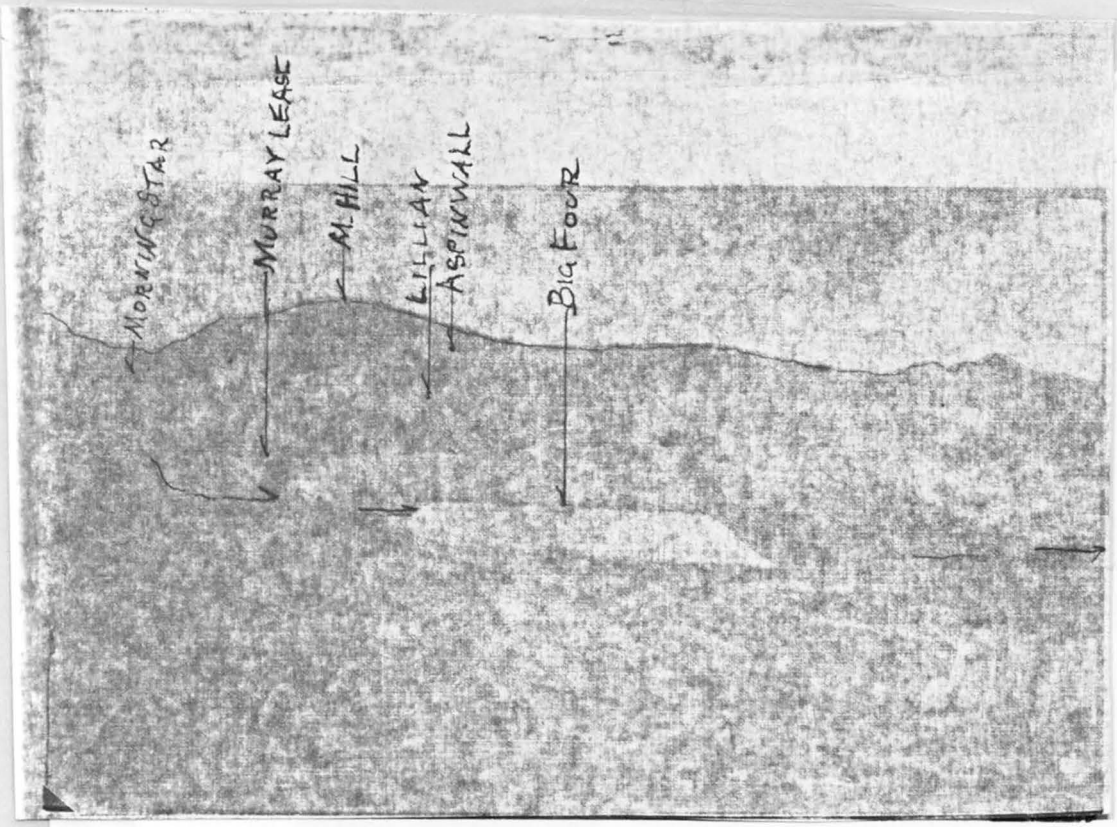


Fig 72. Workings in Grutt Mining Lease Scale 1" = 20 '

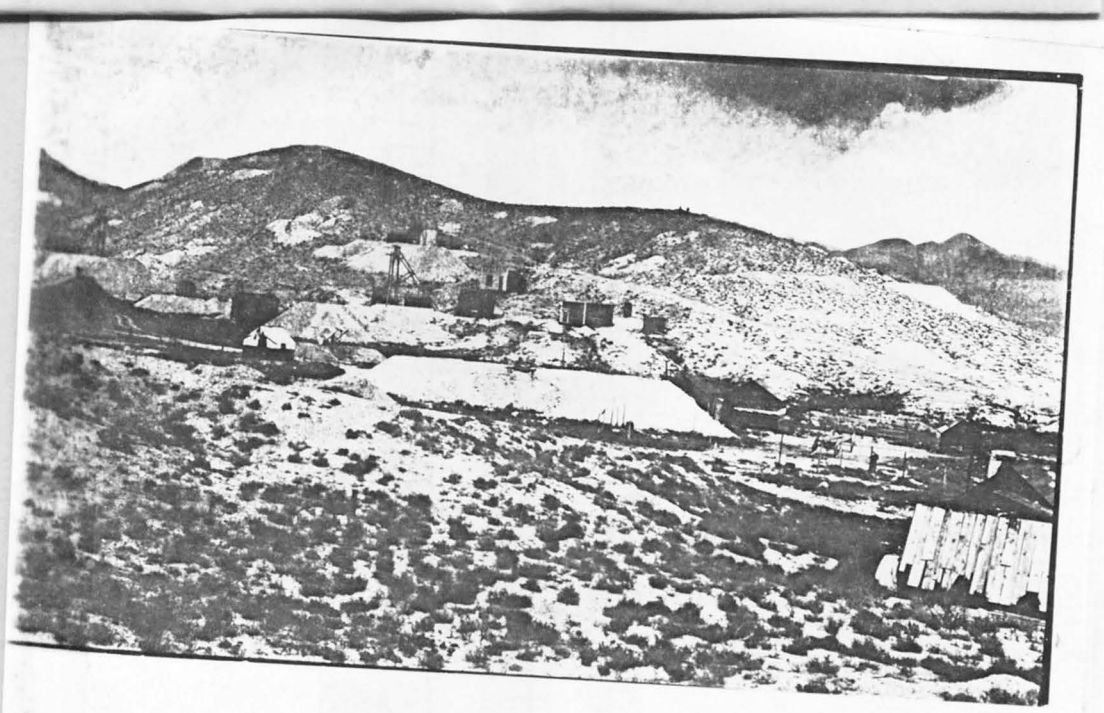


Spec 310

g 72A. Polished section of rich gold ore from the Bethania vein (specimen 310). Mostly silicified rhyolitic volcanic breccia and quartz slightly banded parallel with the vein and is said to run $1,600 to the ton. The darker and reddish-brown iron and manganese-stained part is the more highly oxidized and richest and contains small grains of pyrite, some of which are altered to hematite. Some of the rock fragments were pylitic before they entered the breccia. Some of the quartz is greenish. The large whitish fragments in the upper right are rhyolite.



73. Murray Hill mines. Looking N. 15 degrees E. across Rawhide Wash and the main road.



73. Murray Hill mines. Looking N. 15 degrees E. across Rawhide Wash and the main road.

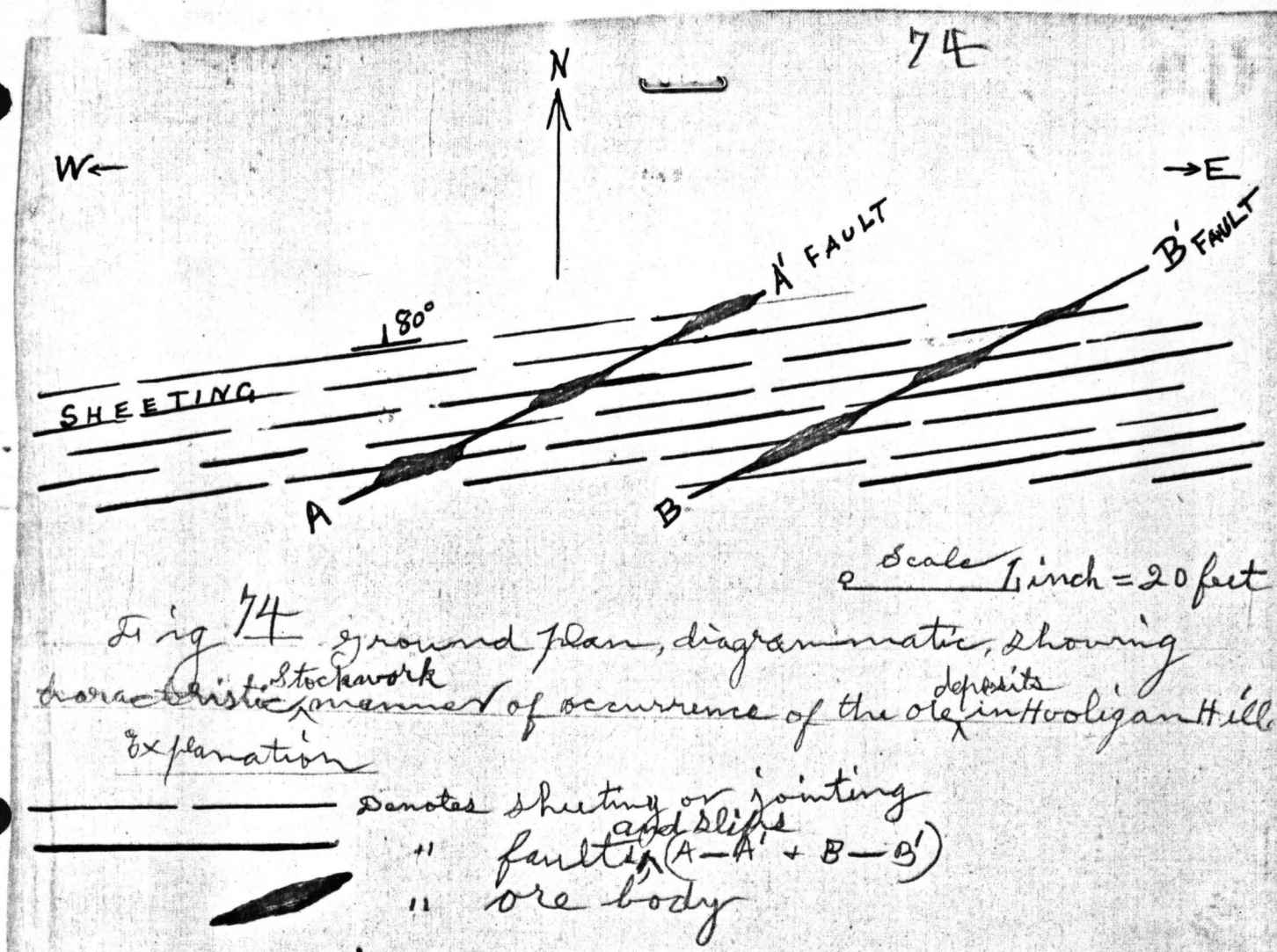


Fig. 74. Ground plan, diagrammatic. Showing stockwork manner of occurrence of the ore deposits in Hooligan Hill as at Truitt mine. Along the faults, as shown by the red, certain of the beds or joint plane slices seem to be far more favorable for ore depositories than others, especially those composed of chiefly rhyolite.

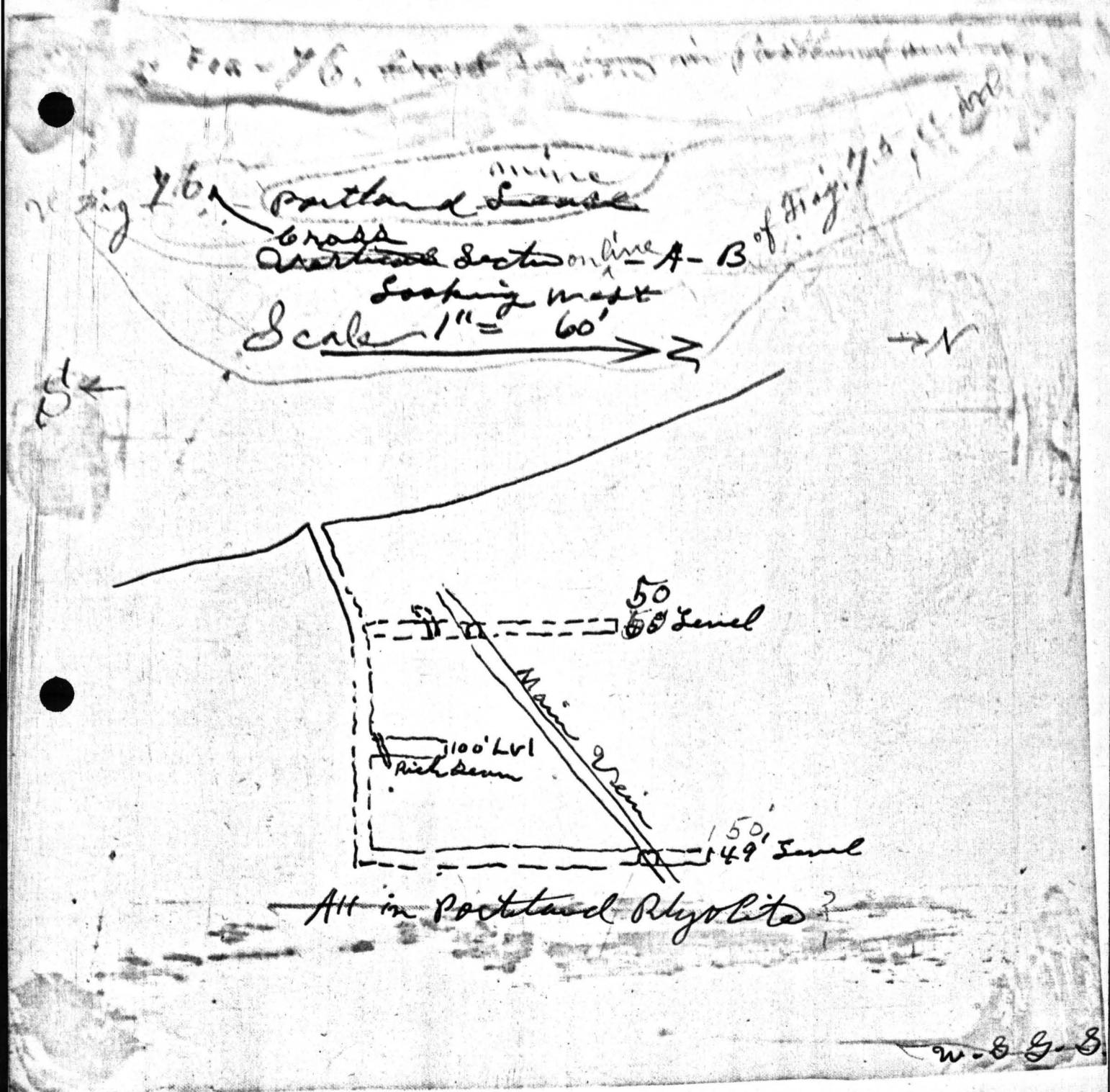


Fig. 76. Cross-section in Portland mine on line A-B of figure 75-C. Looking west. Scale 1 inch = 60 feet.

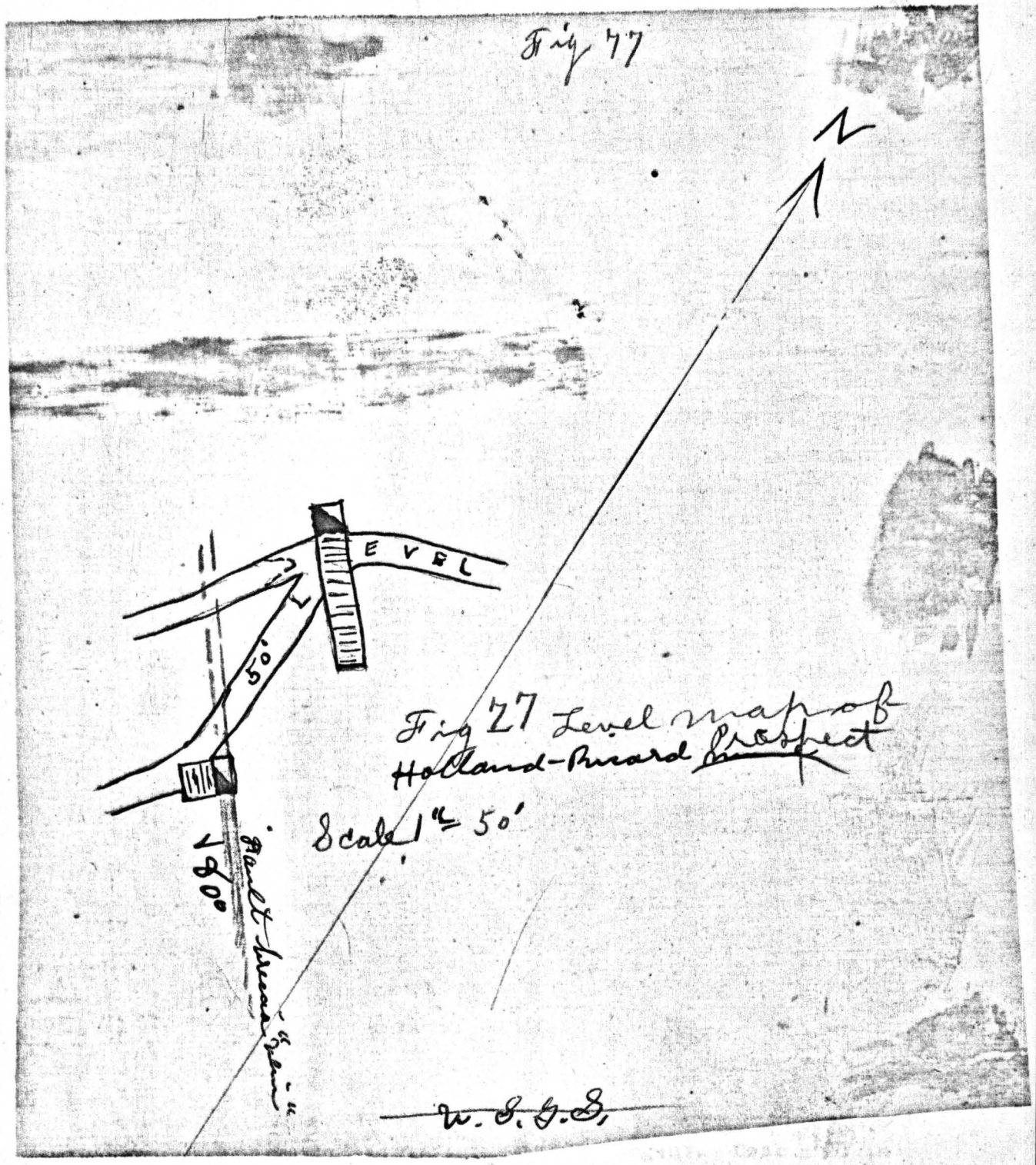
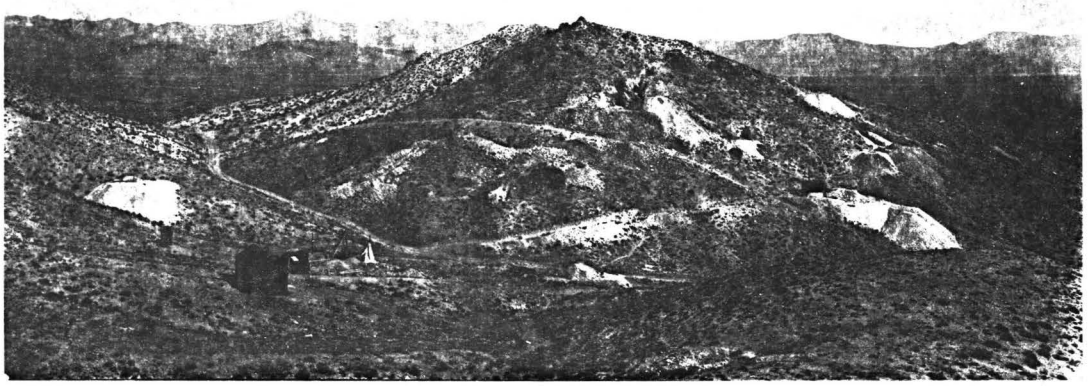


Fig. 77. Level map of Holland-Rickard prospect

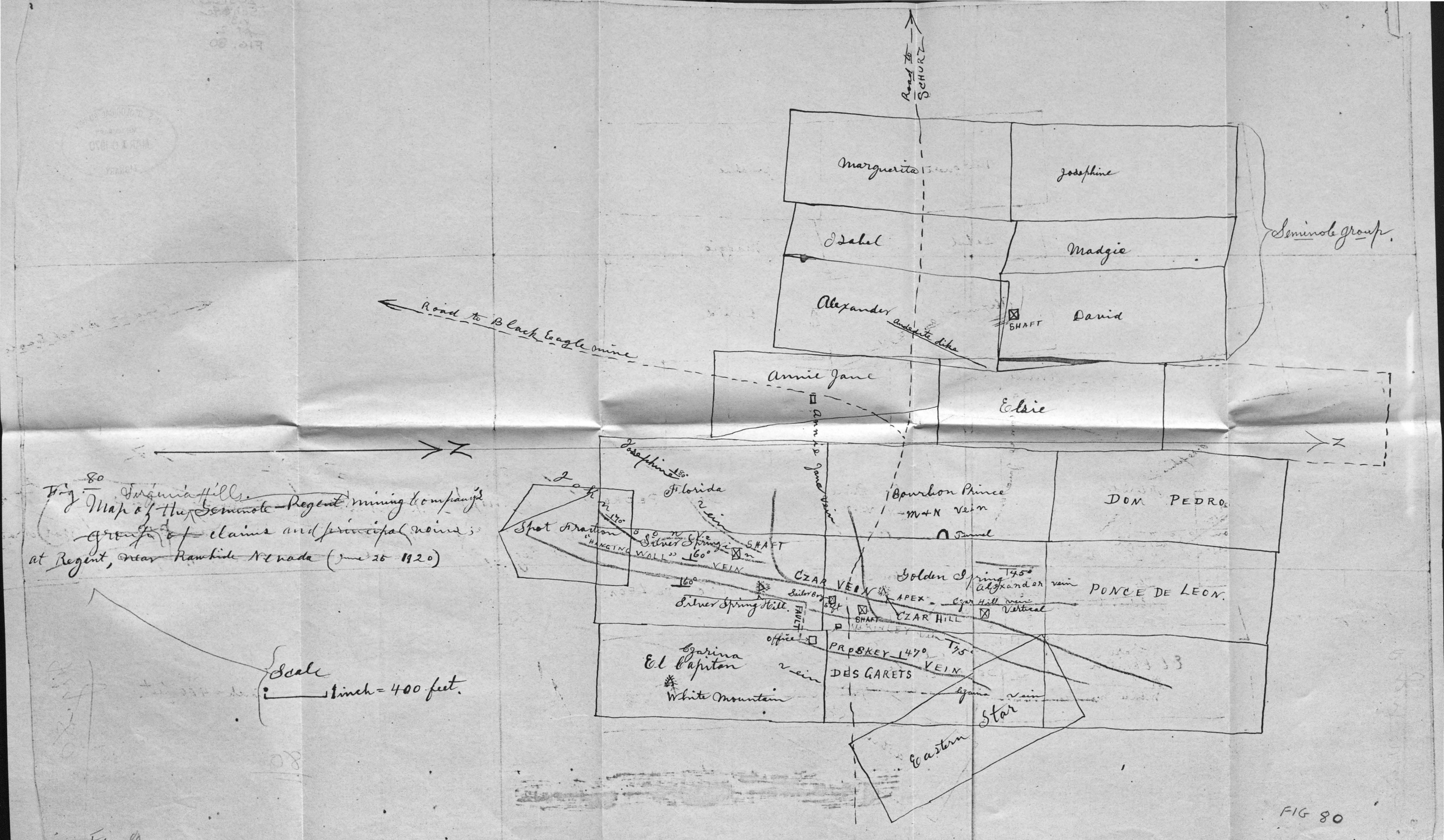


20-1674

Fig. 79. Czar and Regent mines and veins at Regent. Czar Hill in center; east base of Silver Hill in left. LookingN. 25 degrees W.

Fig 80 Virginia Hills.

Map of the Seminole-Regent mining Company's group of claims and principal mines at Regent, near Rawhide Nevada (June 26 1920)



Scale
1 inch = 400 feet.

Fig 80.

FIG 80

22-1676

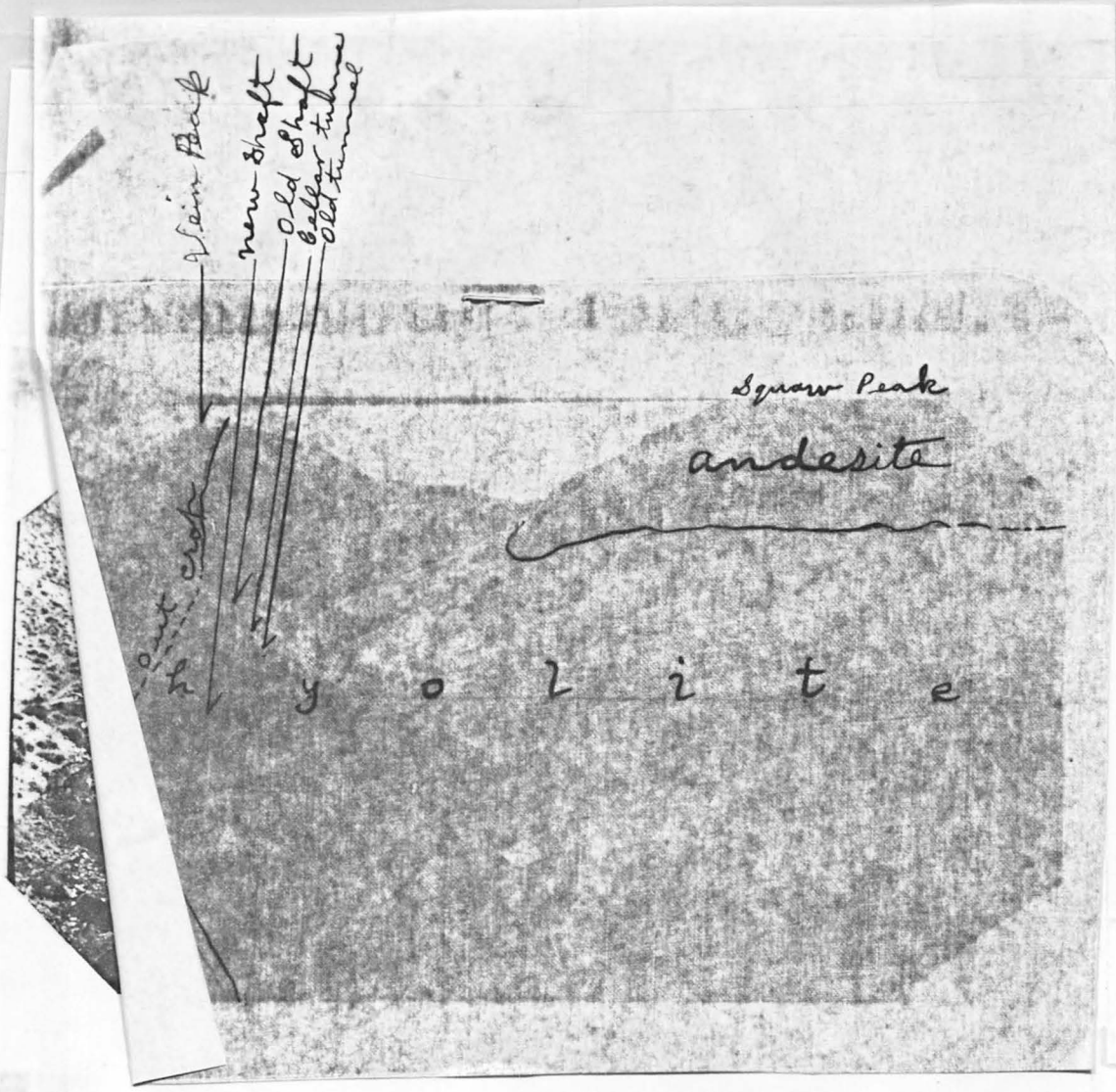


Fig. 81. Black Eagle mine and vein in B. E. Canyon, with Vein peak in left and Squaw Peak at right. Looking south from vein croppings.

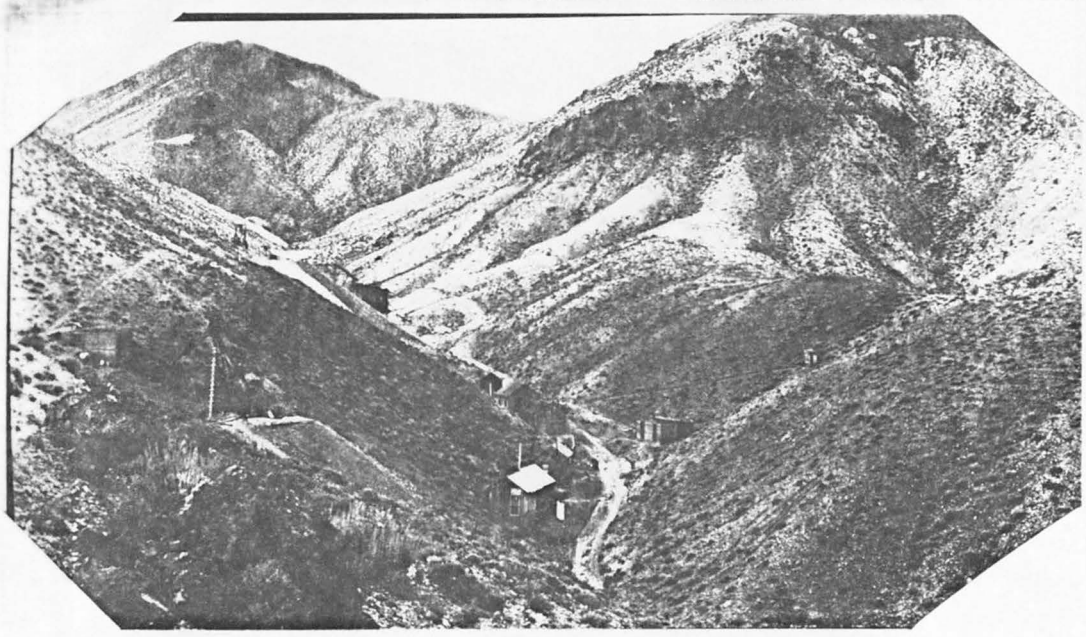


Fig. 81. Black Eagle mine and vein in B. E. Canyon, with Vein peak in left and Squaw Peak at right. Looking south from vein croppings.

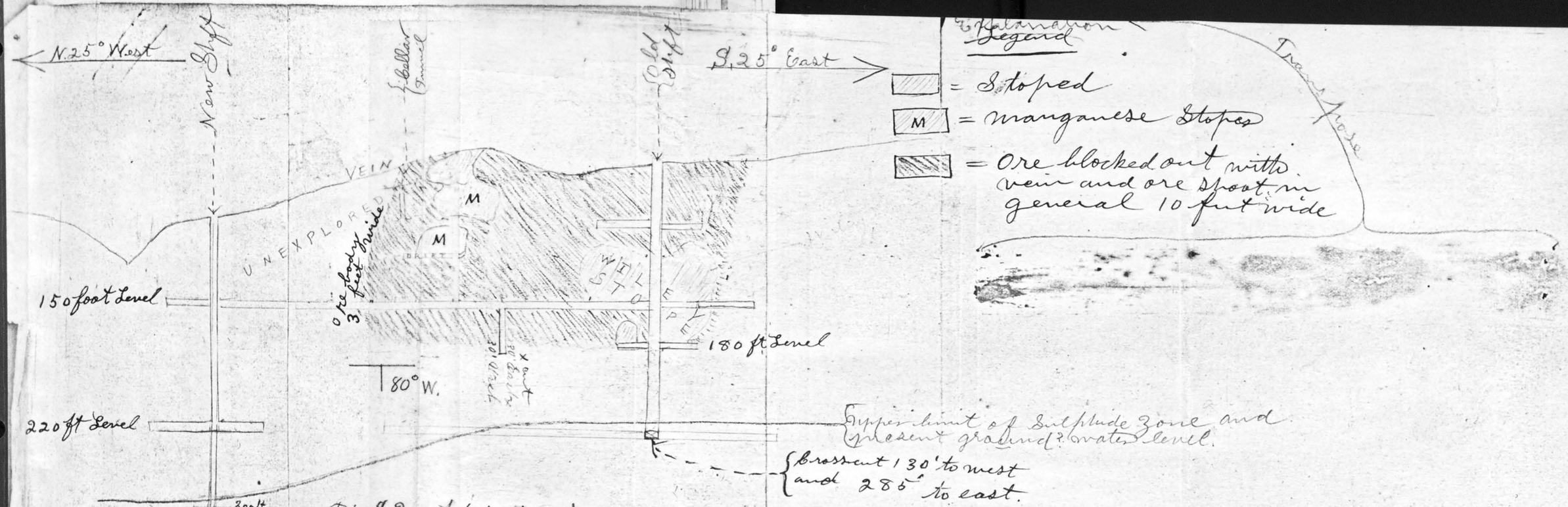


Fig 82 Stope map of ~~Longitudinal Section of~~ Black Eagle mine (on dip of vein. Which for the ore body here shown is about 80°

Scale 1 inch = 100 feet

Fig. 82. Stope map in Black Eagle mine. Looking easterly on hanging-wall side of vein which dips 80 deg W. Scale 1 inch = 100 feet.

GRAY Eagle mine dgs 3 parts

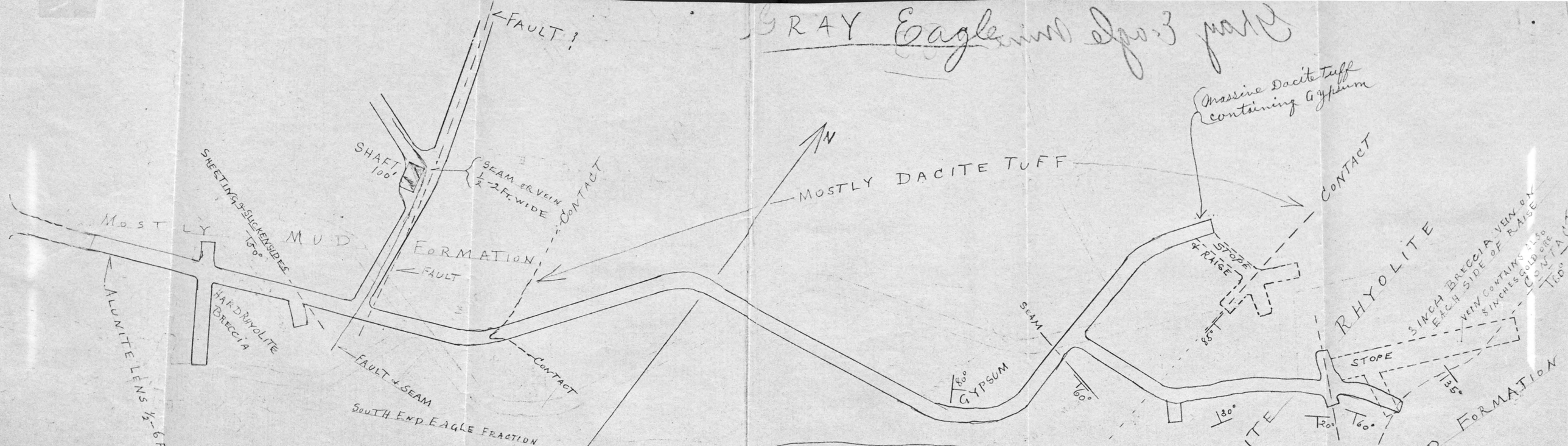


Fig 83 GRAY EAGLE MINE, WORKINGS IN

Scale: 1"=20'

after E. C. Templeton.

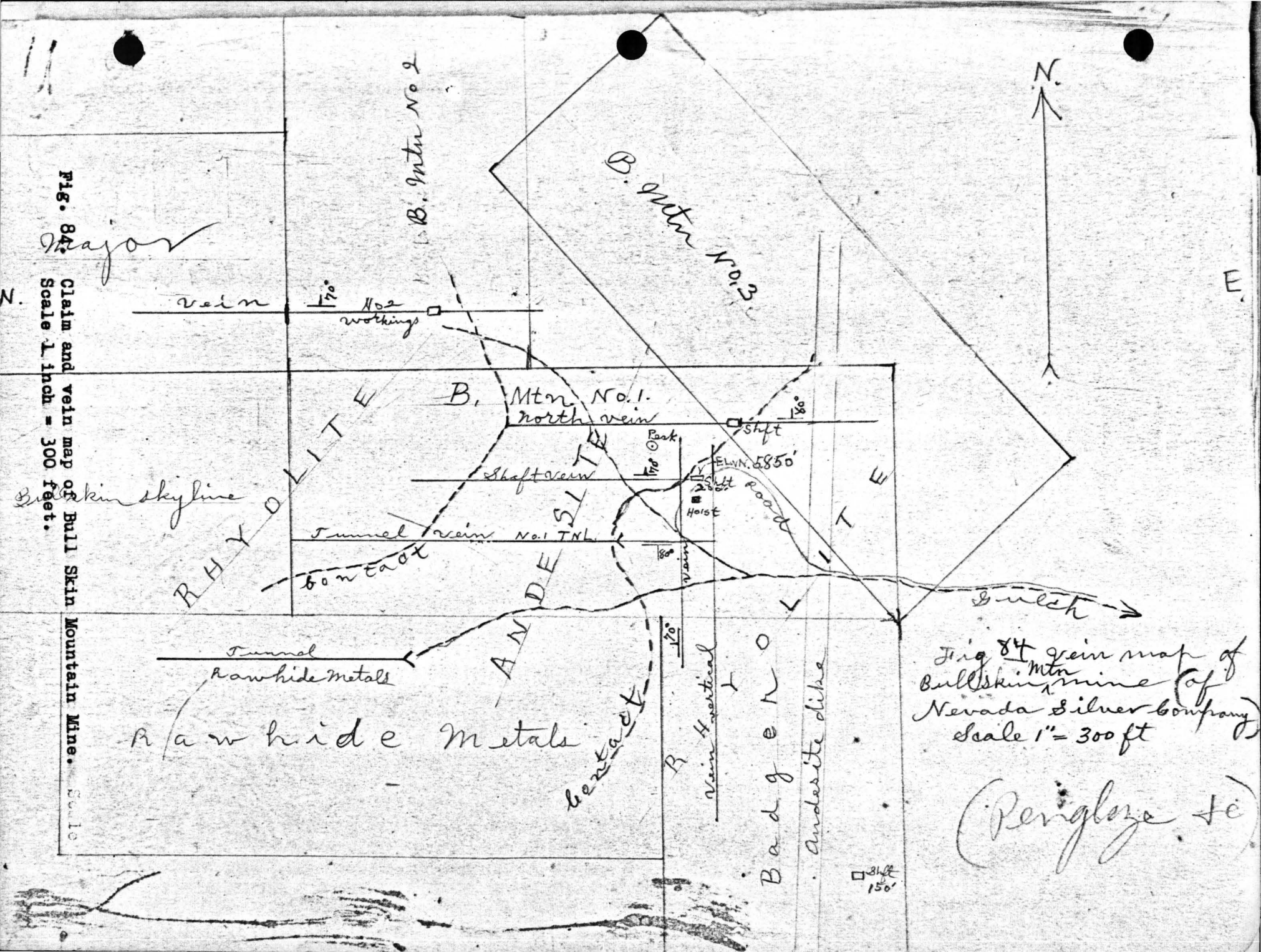


Fig. 84. Claim and vein map of Bull Skin Mountain Mine. Scale 1 inch = 300 feet.

Fig 84 Vein map of Bullskin Mtn. mine of Nevada Silver Company Scale 1" = 300 ft

(Perglaze 4e)

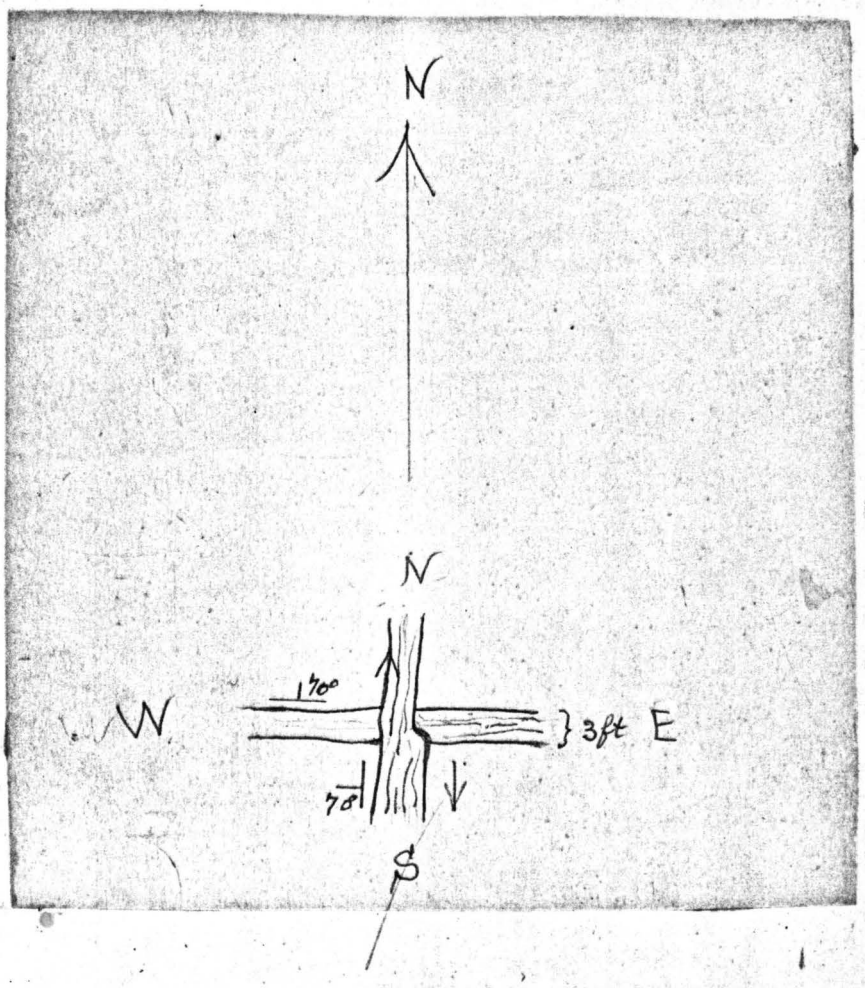


Fig. 85. Sketch of intersection of veins in Bull Skin Mountain mine, showing older vein E. - W. cut by vein N. - S. Scale 1 inch = 15 feet

Fig. 86. Map of workings in Bullskin Mountain mine, looking south on hangingwall side of vein. Scale 1 inch = 50 feet.

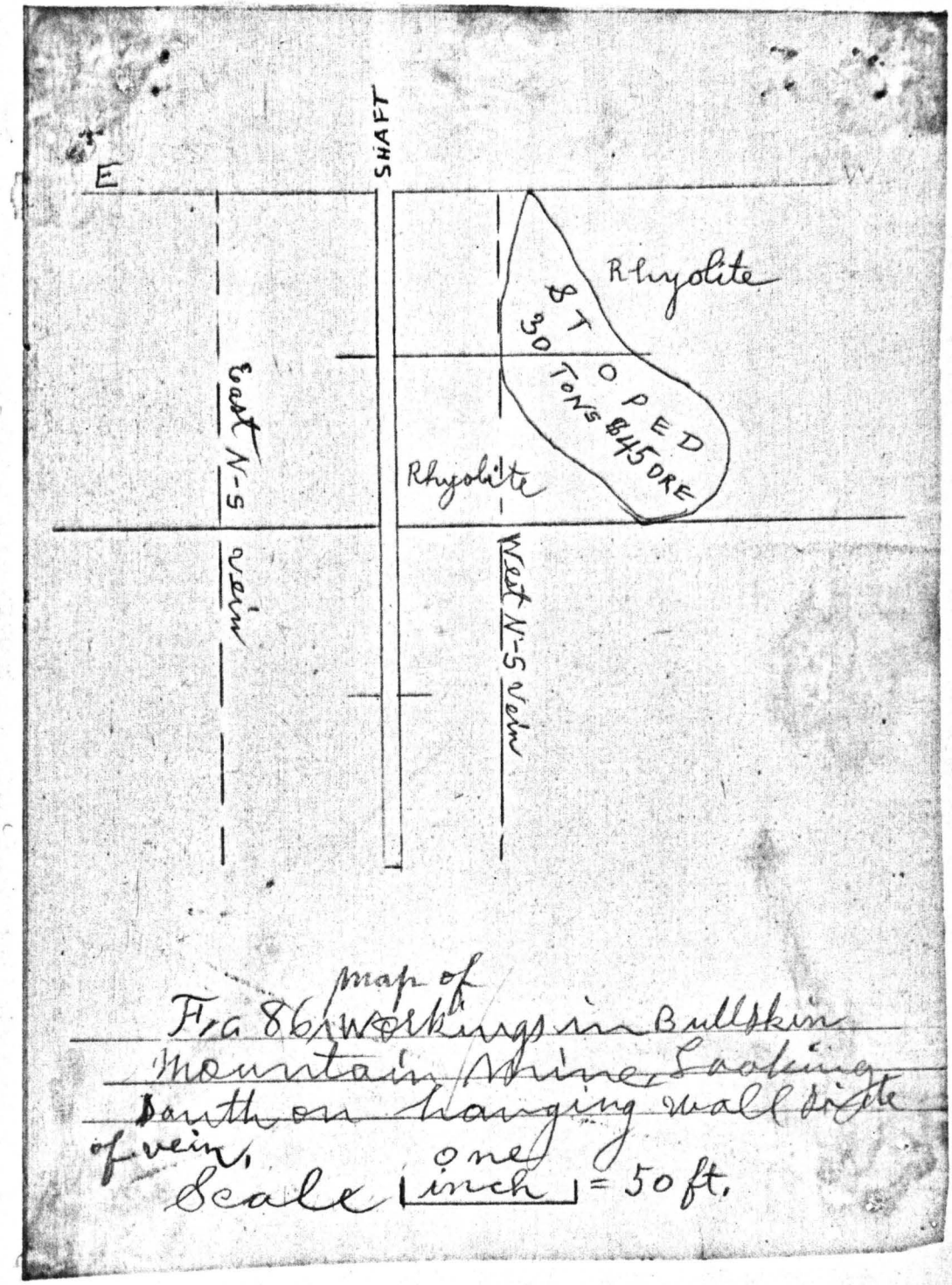


Fig. 86. Map of workings in Bullskin Mountain mine. Looking south on hangingwall side of vein. Scale 1 inch = 50 feet.

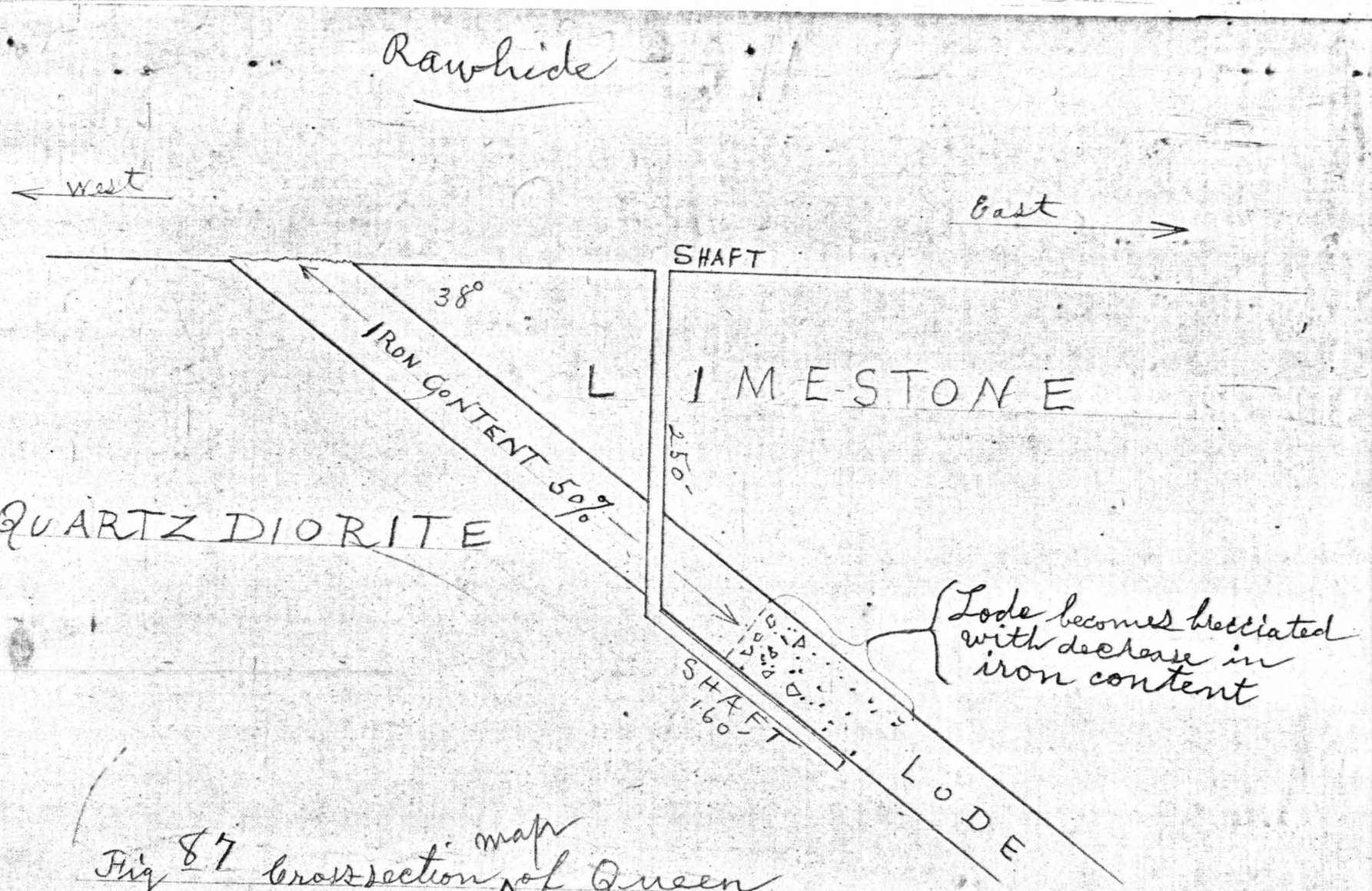


Fig 87 Cross-section map of Queen Regent Merger Iron bearing Lode Near Rawhide, Nevada,
Scale 1 inch (——) = 100 ft

Fig. 87. Cross-section map of Queen Regent Merger iron-bearing lode near Rawhide, Nevada. Scale 1 inch = 100 feet

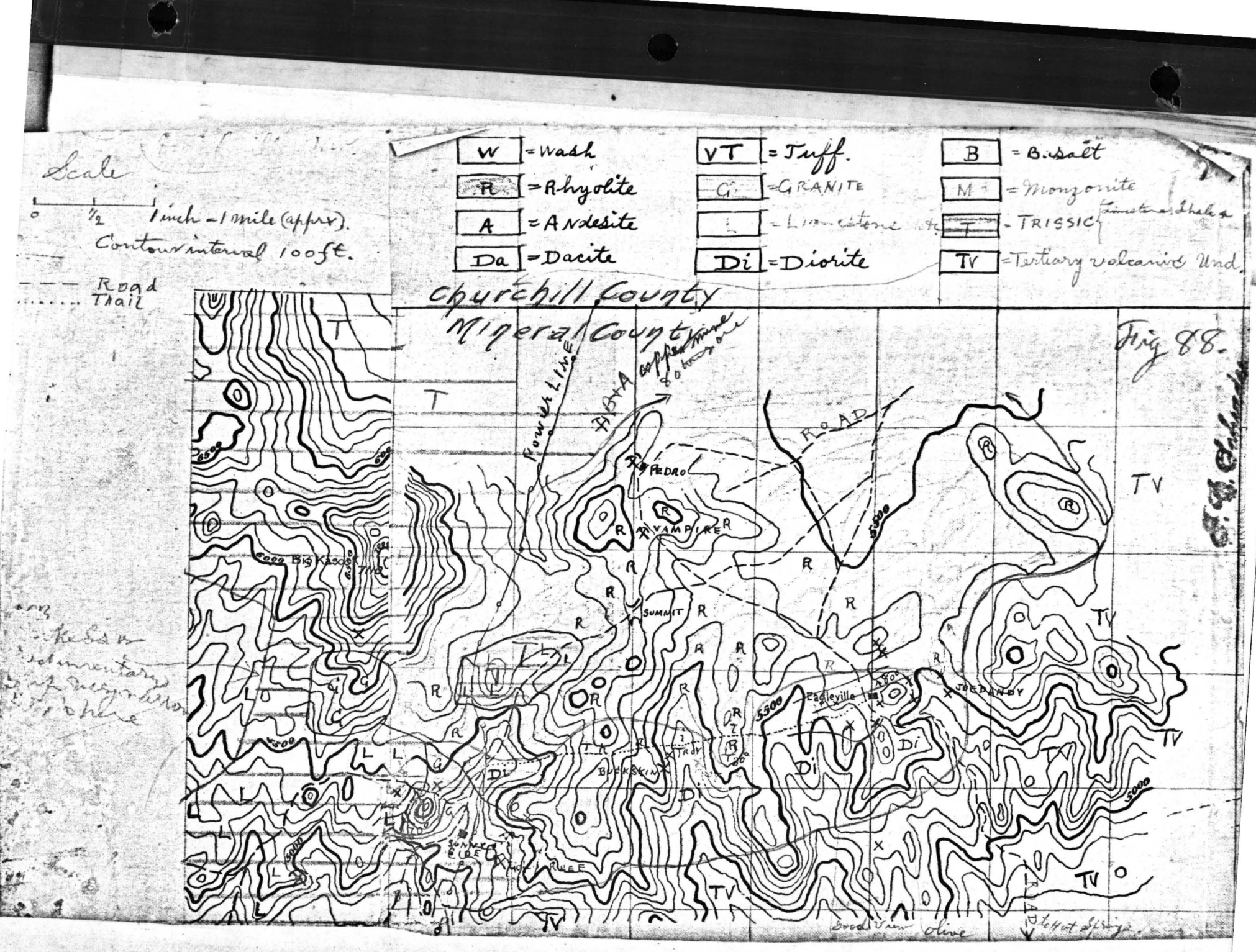


Fig. 88.-Topographic, geologic, and mine map of Eagleville district, Nev. Scale 1 inch = 1 mile. Contour interval 100 feet. (Explanation on map.)

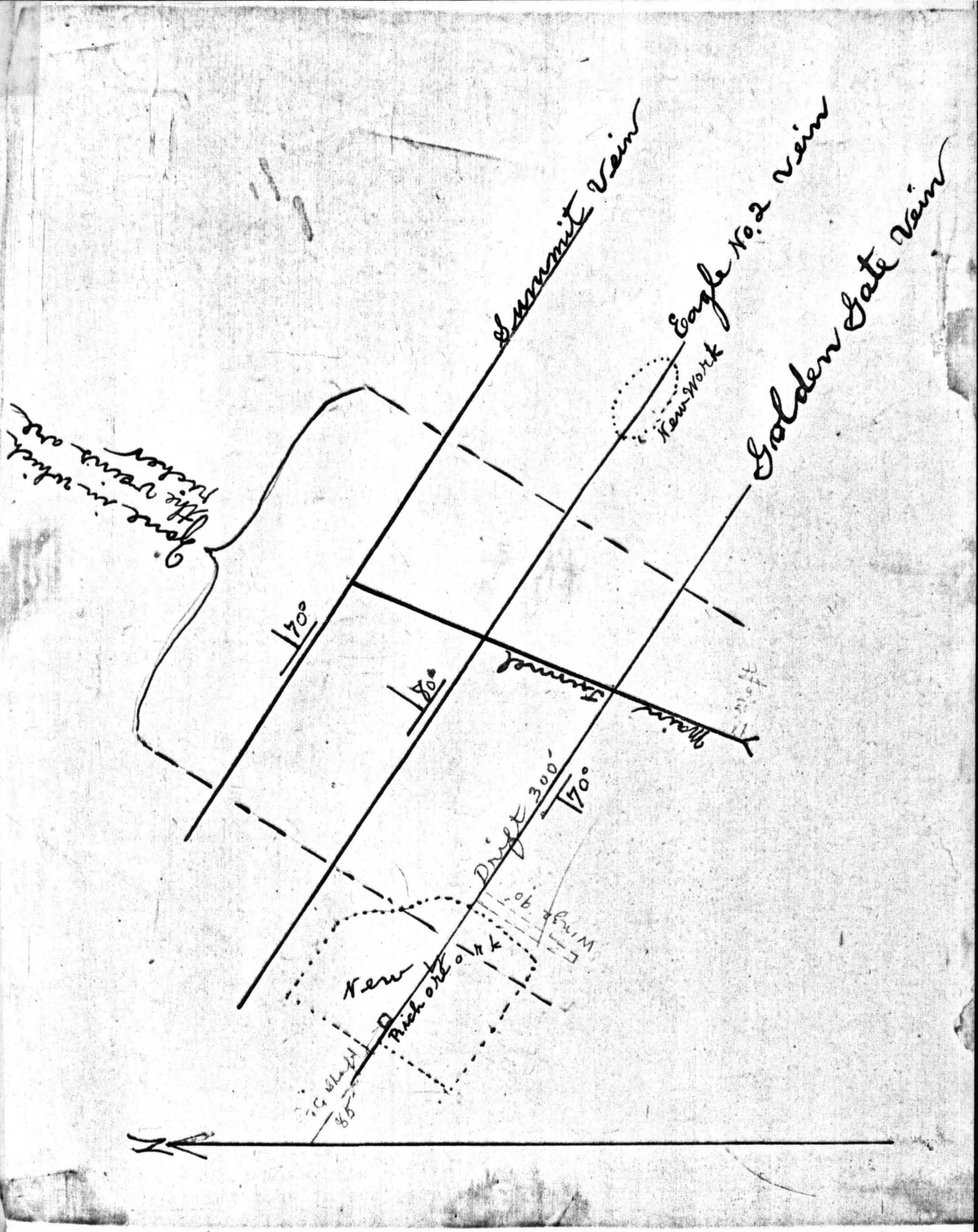


Fig. 89. Diagrammatic plan of veins at the Eagle mine. Scale 1 inch equals 100 feet approx.

Spec 372

Fig. 90. Polished section of gold-silver ore from Great Eastern Extension mine, Eagleville district, showing fracturing and recementation in and parallel with the vein. Natural scale

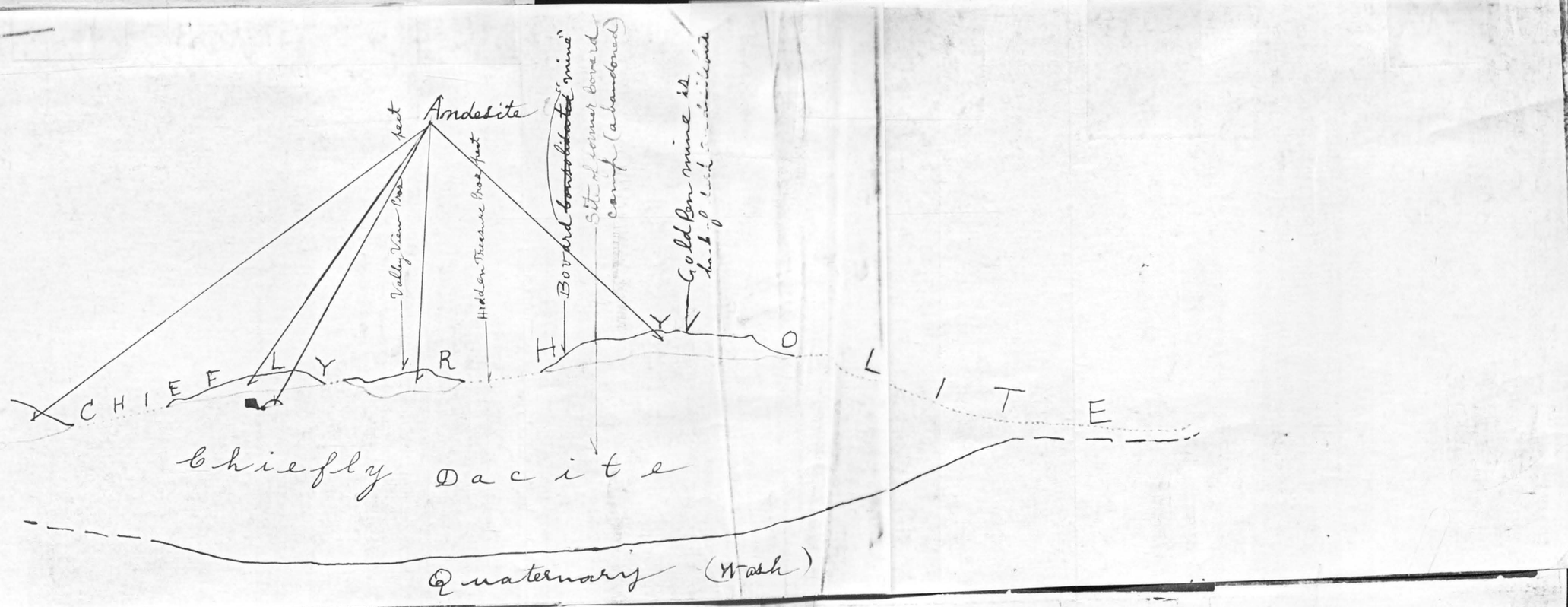


Fig. 91. View of the northeast front of Gabbs Valley Range in eastern part (formerly Bovard district) of Rand district, Nevada, showing topography, geology, and position of mines. (r. to l., Gold Pen Mine, Bovard Mine, Hidden Treasure prospect and Valley View prospect.). Looking S. 80 deg W. from old camp of Bovard, part of which appears in foreground. (Photos 43-46)

Fig. 91. View of the northeast front of Gabbs Valley Range in eastern part (formerly Bovard district) of Rand district, Nevada, showing topography, geology, and position of mines. (r. to l., Gold Pen Mine, Bovard Mine, Hidden Treasure prospect and Valley View prospect.). Looking S. 80 deg W. from old camp of Bovard, part of which appears in foreground. (Photos 43-46)

△ U.S. Loc, MNT
No 220

N

Lucky Strike No 1

BLUE BUTTE FRAC.

L.S. No 2 QUARTZ

SANTA

ROAD

CANYON

5820 EL

ROSE

FRONT VEIN

VEIN

KING SOLOMON

RHYOLITE

5805 EL

ANDIE SITE

BLACK BUTTE

5640'

H. T. No 4

Black VEIN

VALLEY VIEW

O.K.

5650'

TRAIL

H. T. No 3

VINDICATOR

V.V. No 2 FRAC.

5680

TLH

RHYOLITE & LIMESTONE

80 FT in hard fault

Tunnel in rhyolite

CONTACT 5880'

RHYOLITE

5436

MOHAWK

RAINES FRAC.

V.V. No 1

BLACK VEIN

LIMERSZ

HOMER

WABASH

H. T. No 2

5310 EL

BLACK CAP ROCK

5340'

HIDDEN TRESURE No 1

No 3

DIVIDE

C. No 4

C. No 5

C No 6

C No 2

C No 3

PORPHYRY LEDGE

DIVIDE

TX Quartz outcrop

Scale 1 inch = 300 ft

Draftsman:— Put all veins and claim boundaries in broken lines

Fig 92 Map of old Bovard Dist Title dictated

Claim & Vein

= vein or lode
Tr 60 = Strike and dip
= formational contact
= Draft
= Tunnel

Drawn by F. C. Schrader

75/Newton

Fig 92

Figure 92 ~~Map of Bovard Consolidated Mines Company's claims and~~ old claim & Veins

~~Scale 1" = 300 feet.~~

Explanation

Blue (—) denotes drainage lines; red (—) denotes veins; (□) shaft; (⌐) tunnel; (⊃) cut; (X) prospect; (T 3) strike and dip; (...) boundary of limestone area; yellow (—) denotes ~~lode~~ road; green (—) trail; drill.

Fig 92 Map of old Bovard Dist Title dictated

— = vein or lode

T 80 = Strike and dip

..... = formational contact

□ = Shaft

⌐ = Tunnel

Geology by F. L. Schwarzer

△ U.S. Loc. MNT No 220

N

LUCKY STRIKE No 1

BLUE BUTTE Fm.

U.S. No 2 QUARRY

ROAD

CANYON

SANTA ANA

5820' E

ROSE

FRONT VEIN

RHYOLITE

5800' E

ANDESITE

BLACK BUTTE

VEIN

KING SOLOMON

5640'

H. T. No 4

CLEOPATRA

BACK VEIN

DIVIDE

C. No 4

C. No 5

C. No 6

PORPHYRY

C. No 3

C. No 2

VALLEY VIEW

OK

VINDICATOR

5650'

TRAIL

H. T. No 3

V. V. No 2 FRAC.

5670'

V. V. No 1

BRECCIA VEIN

LIMEST

RAINES FRAC.

RHYOLITE

5430'

NE

MOHAWK

HondR.

WABASH

CONTACT 5580'

RHYOLITE & LIMESTONE

Shaft in land slide

Tunnel in bluish rock

H. T. No 2

BLACK CAP ROCK

5310 EL

5340'

5280'

SHAFT No 3

HIDDEN TRESURE No 1

WASH

Scale 1 inch = 300 ft

Draftsman:— Put all veins and claim boundaries in broken lines

Base surveyed by H. G. Tilden, U.S. Dpty Mineral Surveyor.

Fig 71 Grutt Hill Mint Mine

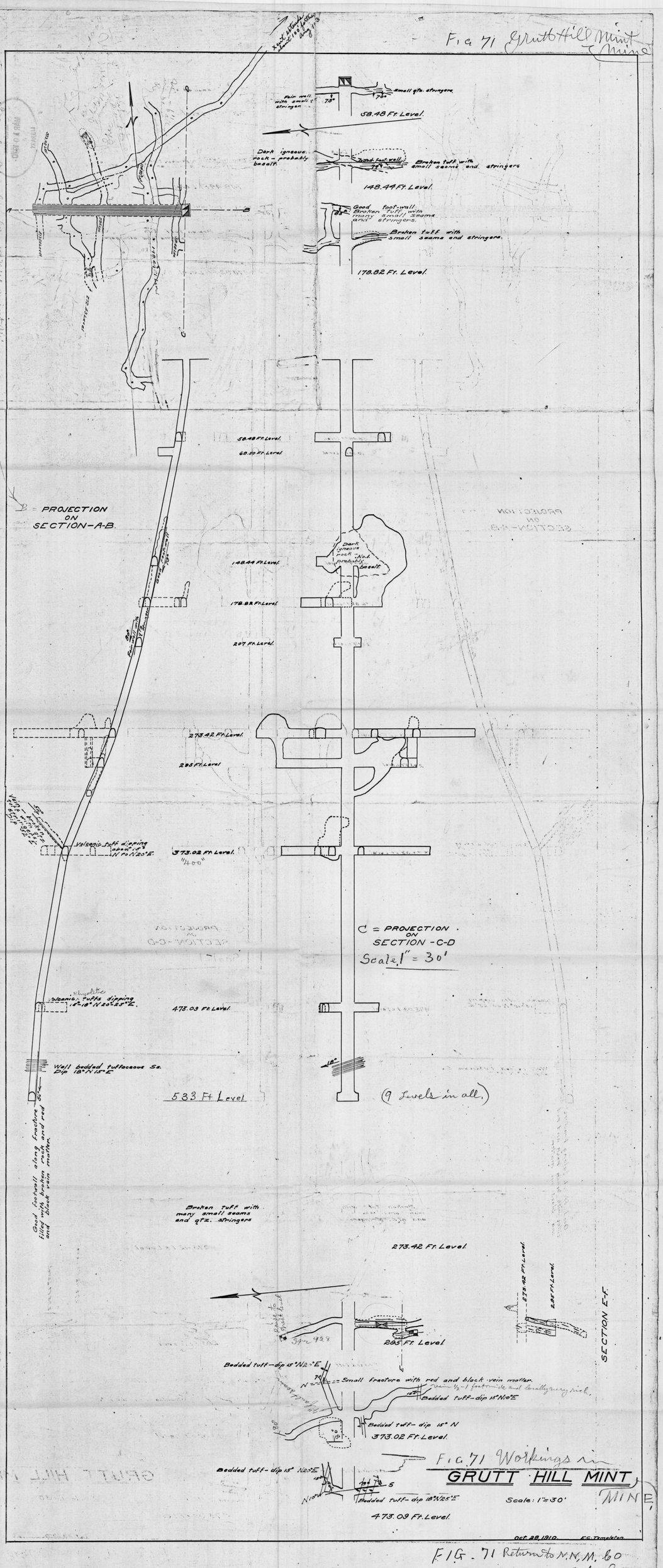
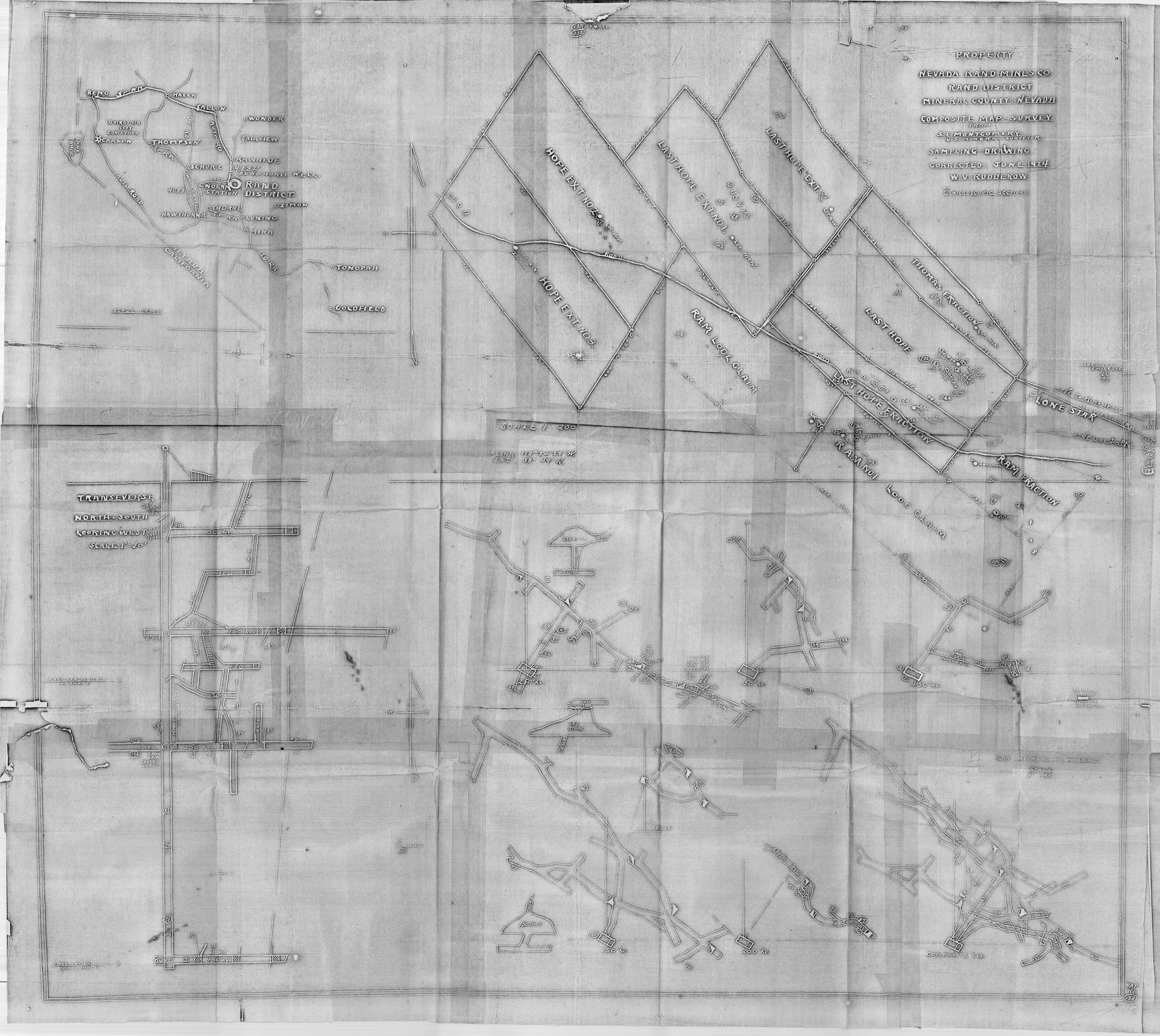


Fig 71 Workings in GRUTT HILL MINT MINE

Scale: 1" = 30'

Oct. 28, 1910. F.C. Templeton

FIG. 71 Returned to N.M.M.M. 60


PROPERTY
NEVADA RAND MINES CO.
RAND DISTRICT
MINERAL COUNTY: NEVADA
COMPOSITE MAP - SURVEY
FROM
S.E. MONTGOMERY-
U.S. MINERAL SURVEYOR
SAMPLING - DRAWING
CORRECTED: JUNE 1924
W.V. RUDDEROW.
NO. MICROSCOPIC SECTIONS.
RENO
S.P.R.R.
HAZEN
FALLON
WONDER
FAIRVIEW
VIRGINIA CITY COMSTOCK
CARSON
LAKE TAHOE
THOMPSON
S.P.R.R.
AUTO RD.
SCHURZ
RAWHIDE
4182'
DEAD HORSE WELL.
11 M.
NOLAN STATION
RAND DISTRICT.
4083'
WALKER LAKE
THORNE
SIMON
HAWTHORNE
S.P. R.R.
LUNING
MINA
AUTO ROAD
NEVADA
CALIFORNIA
T.G. R.R.
TONOPAH
GOLDFIELD
SCALE 19 MI. 1"
2 MILES
HOPE EXT. NO. 2.
HOPE EXT. NO. 3.
LAST HOPE EXT. NO. 1.
LAST HOPE EXT.
RAM. LODE CLAIM
THOMAS FRACTION
LAST HOPE
LAST HOPE FRACTION
LONE STAR
R.A.M. NO. 1
LODE CLAIM
R.A.M. FRACTION
LOC. MON.
ROAD
SHAFT
CAMP
SECTIONS 3 MILES = E
S 75° E. TO MINS SHAFT
S 79° E. LONE STAR PK.
SCALE 1" 200'
LONG. 118° 24' 29" W.
LAT. 38° 49' N.
TRANSEVERSE
NORTH x SOUTH
LOOKING WEST
SCALE 1" = 20'
CAP ROCK
OLD ANDESITE
50' LV.
AIR RAISE
86' LV.
A.R.
150 STOPE
150' LV.
E. END
180'
200'
STOPE
RAISE 69'
RAISE 39'
250' LV.
E. END DRIFT 180' E. SHAFT
E. END 200' LV. 110' E. OF SHAFT
450' LV.
E. END 450' LV. 95' E. OF SHAFT
250 STOPE
TO 200' LV.
250' LV.
WINZE
ORE RAISE
SURFACE GULCH
150
180 STOPE
TO 250'
180 LV.
150 STOPE
150' LV.
200' LV.
50' LV.
JONES DRIFT
450' LV.
VERTICAL POSITION RICH ORE ON 250' LV.
PLAN UNDERGROUND WORKINGS
SCALE 1" = 30'
COMPOSITE LV.
MAP NO. 138

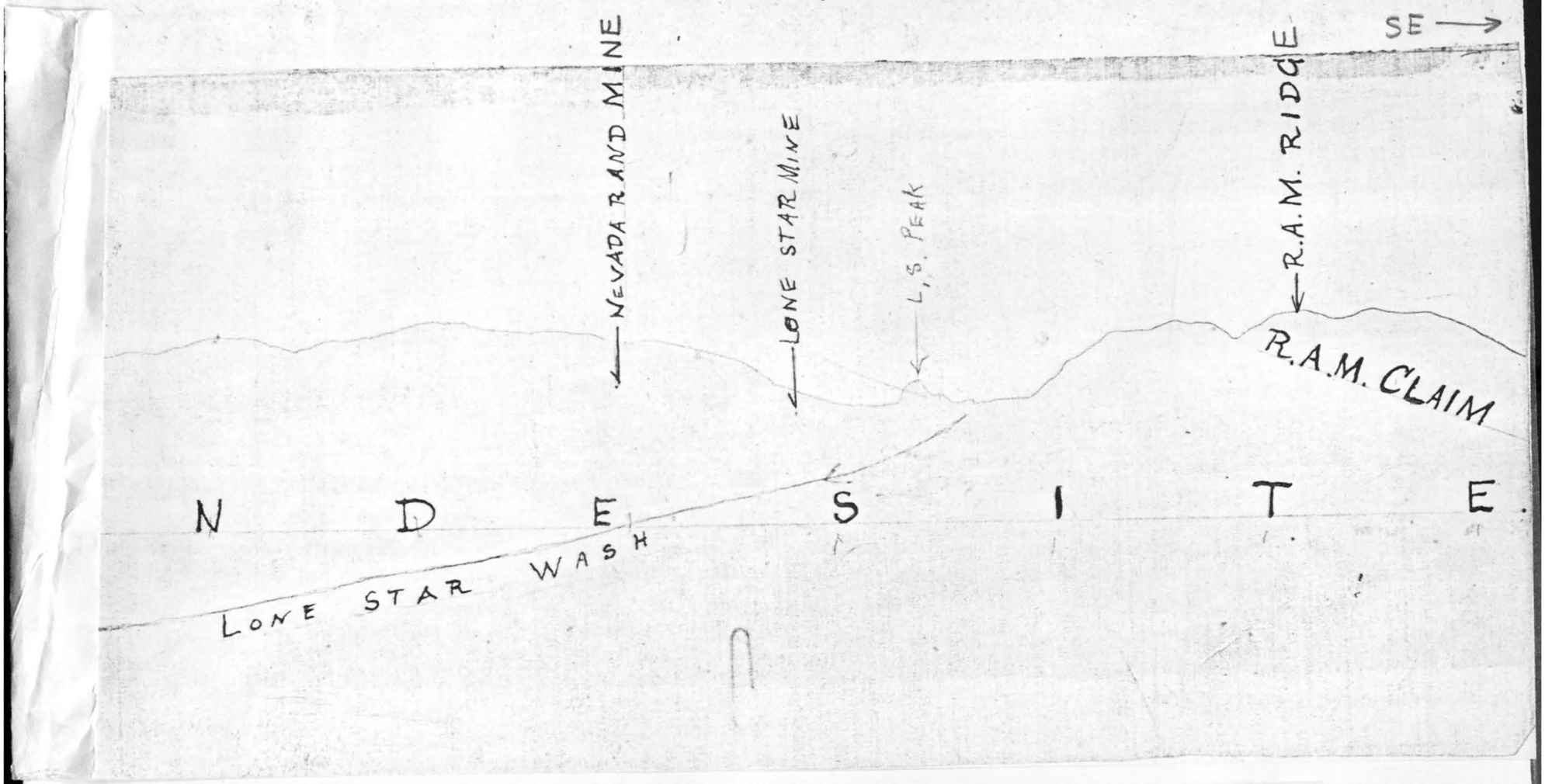


Fig. 94.-Nevada Rand and Lone Star mines, topography and geology. Looking northeast. Photo from the Nevada Rand Co.

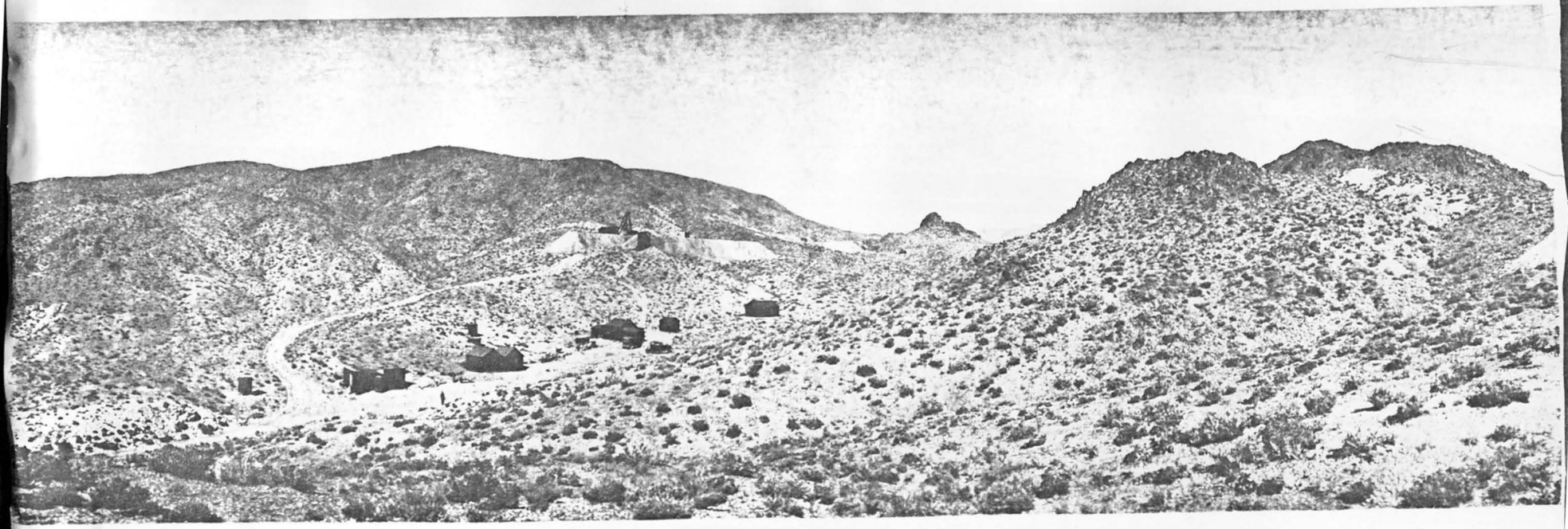


Fig. 94.-Nevada Rand and Lone Star mines, topography and geology. Looking northeast. Photo from the Nevada Rand Co.

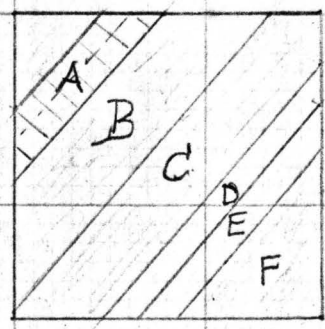


Fig. 96. Cross-section sketch of Kelly mica prospect. Looking north. Scale 1 inch = 5 feet.

A. brown blocky limestone? silicate rock
B. Garnetiferous quartz monzonite
C. Mica (biotite) in siliceous matrix
D. Altered greenstone containing pyroxene and amphibole (quartz monzonite)
E. Quartz biotite monzonite
F. Mica (biotite) similar to C 2⅔ feet

Fig 96. Cross-section sketch of Kelly mica prospect. Looking north. Scale 1 inch = 5 feet.

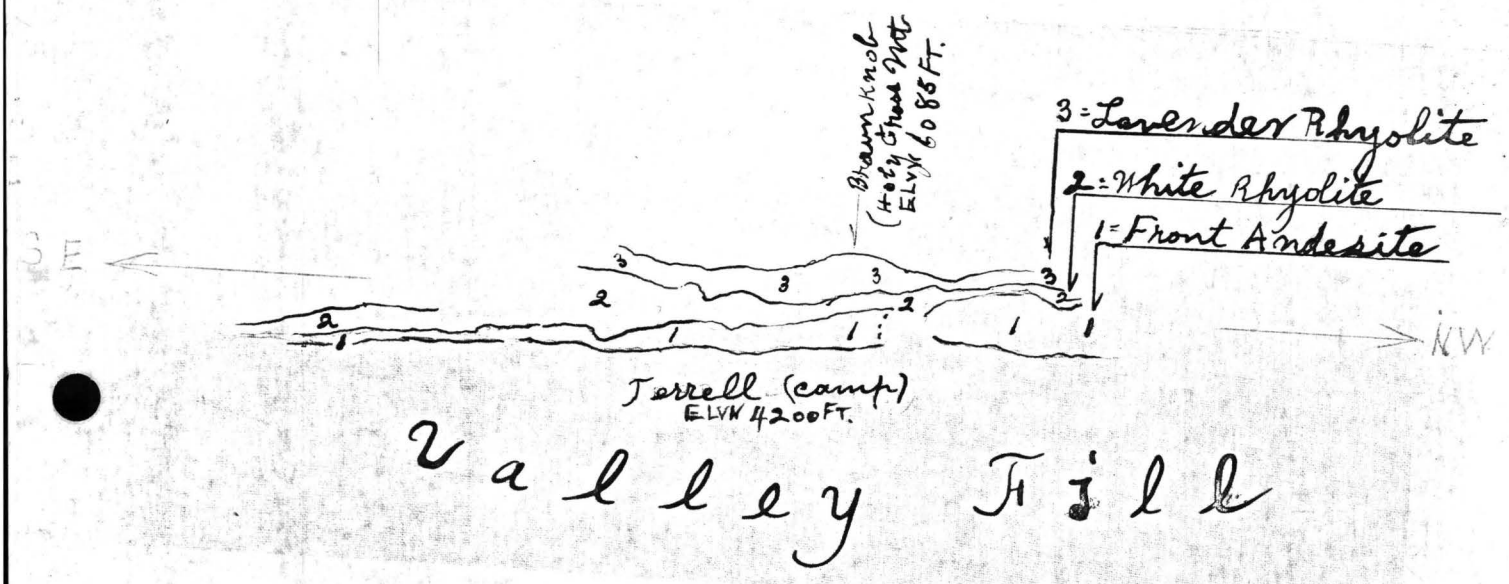


Fig. 100. View of the northeast front of the Desert Mountains, containing the ore deposits in the Holy Cross district. Camp Terrell in center. Looking southwest. (Photo by Terrell Mining Co.)

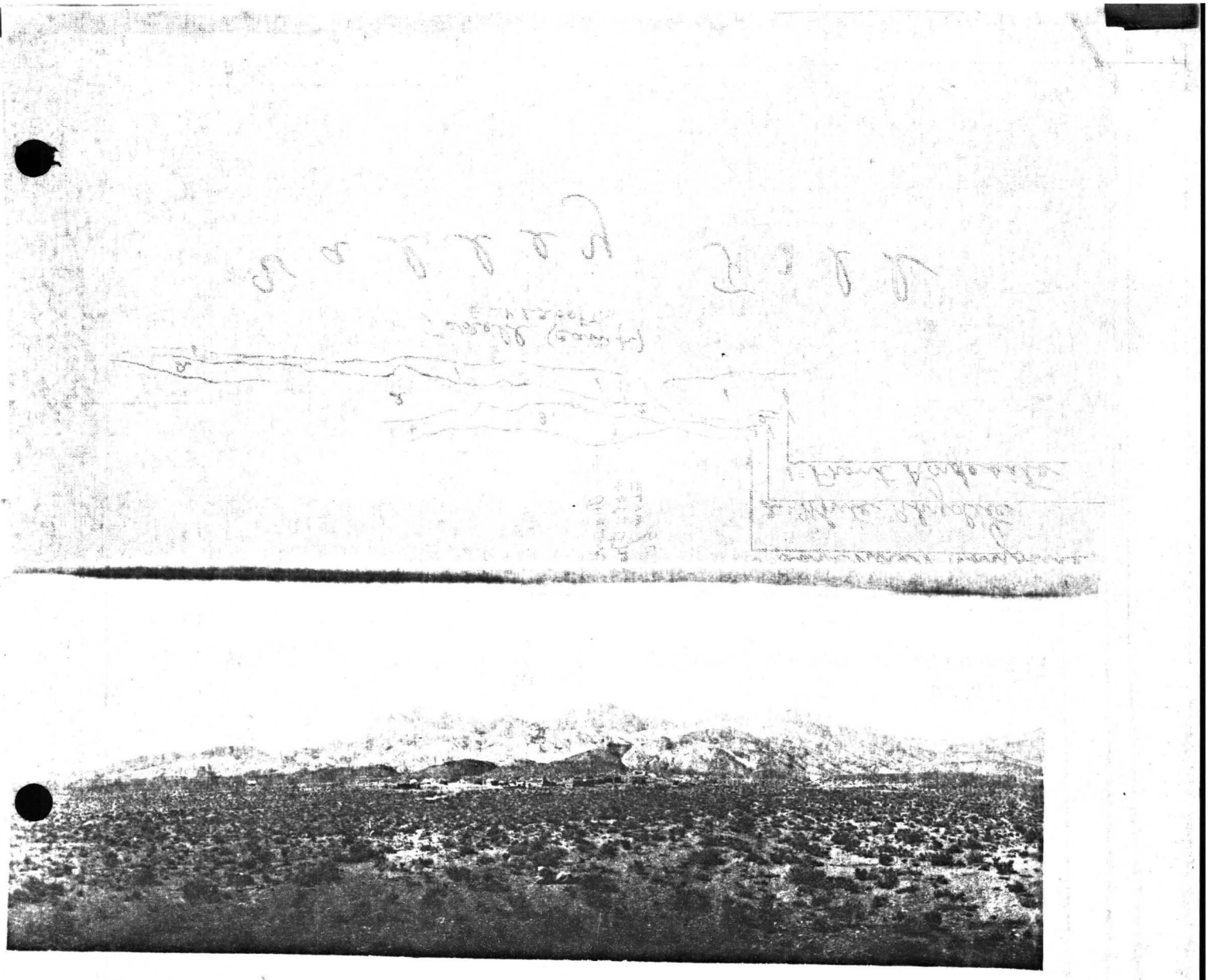
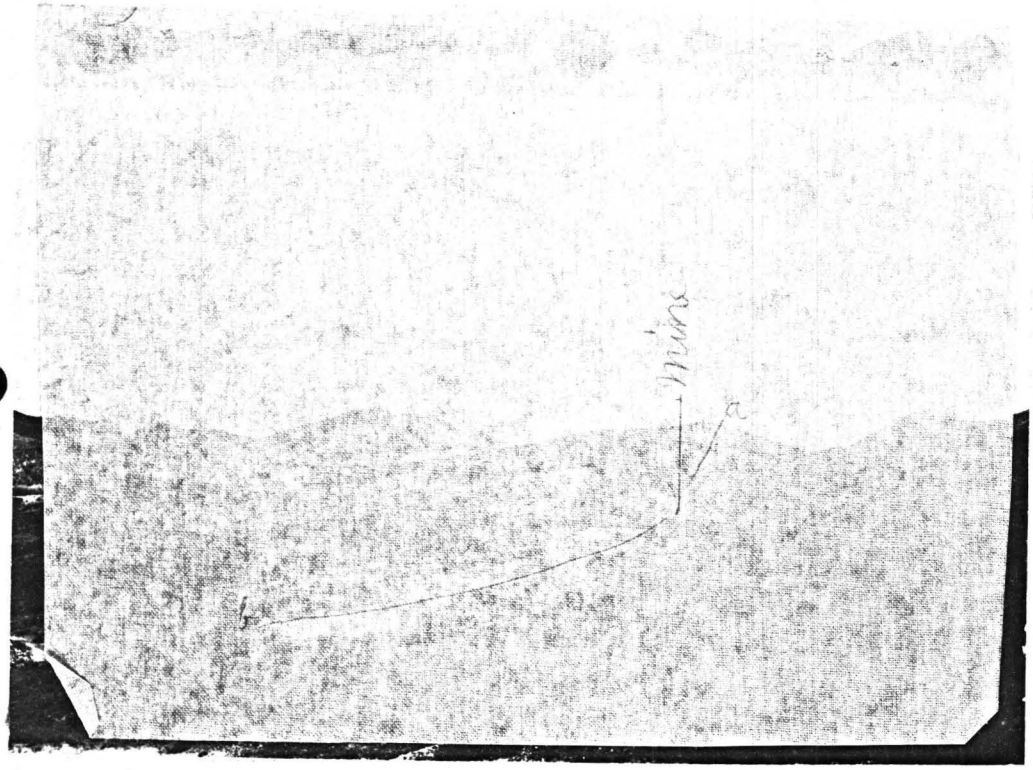


Fig. 100. View of the northeast front of the Desert Mountains, containing the ore deposits in the Holy Cross district. Camp Terrell in center. Looking southwest. (Photo by Terrell Mining Co.)



49-1689

Fig. 100A. View showing location of Kinney mine and mineralization zone a-b. Near Sand Springs. Looking east.

49-1689

Fig. 100A. View showing location of Kinney mine and mineralization zone a-b. Near Sand Springs. Looking east.

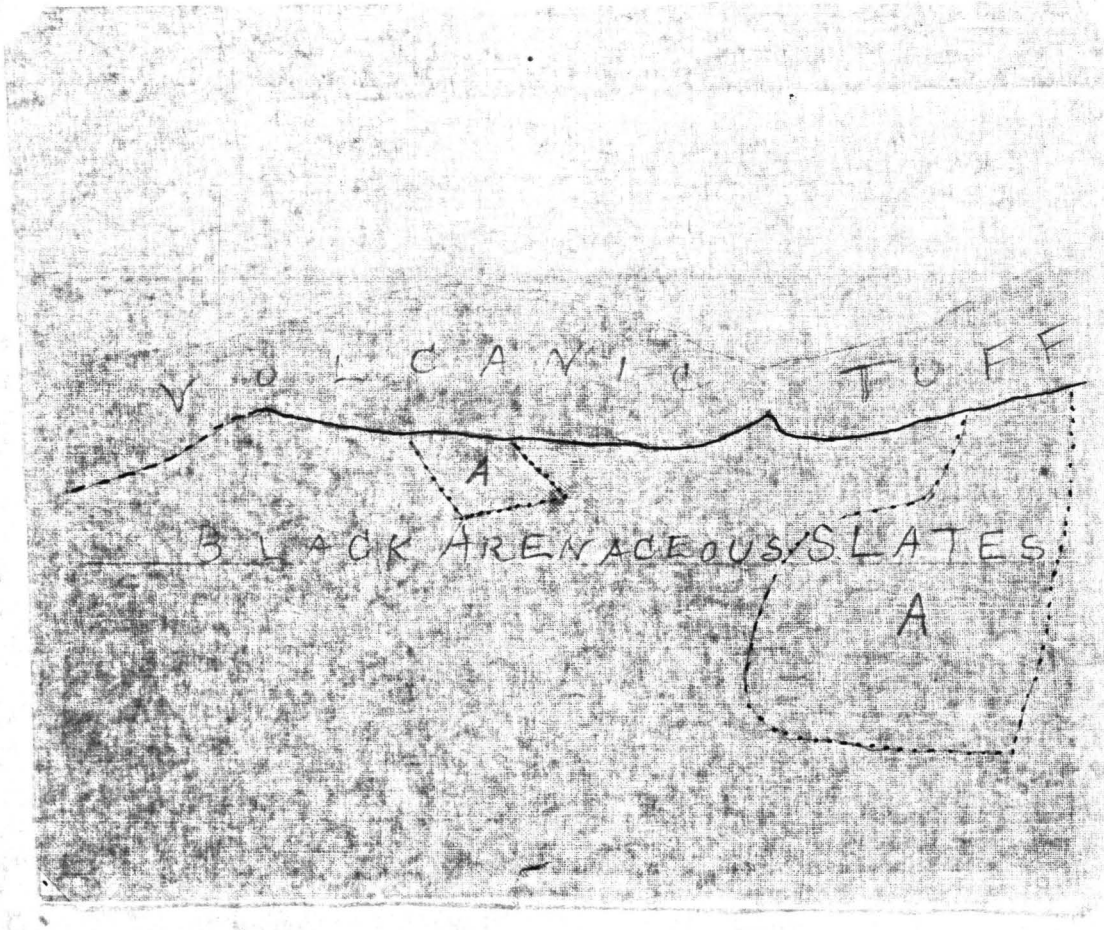
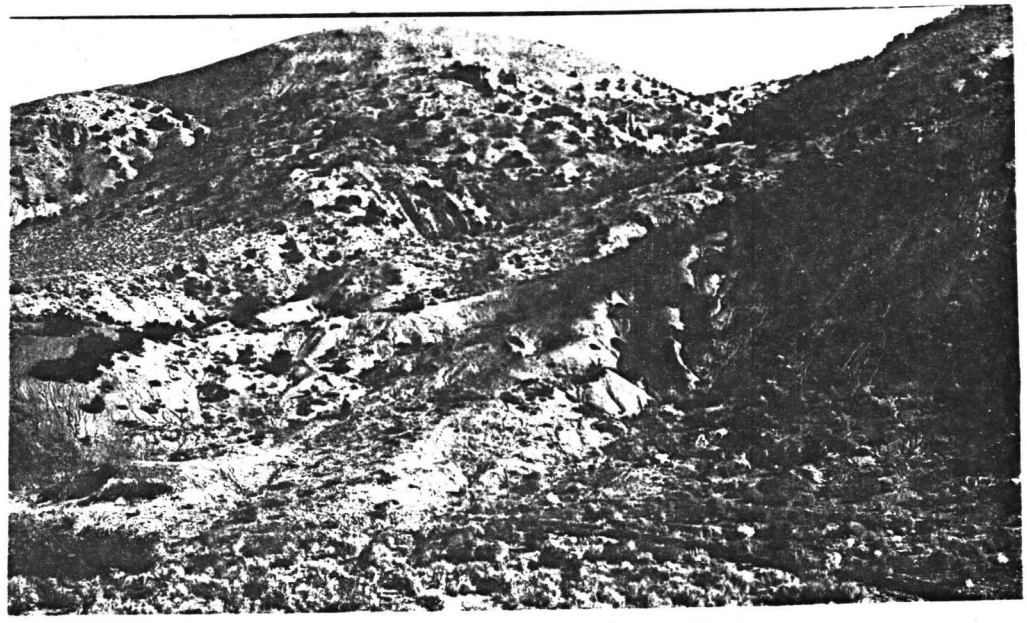


Fig. 101. View of topography and rocks at Bernice, near head of Antimony Canyon, showing in the dotted line areas (A) edges of the steeply uptilted slate-sandstone formation with the green volcanic rocks horizontally overlying it and forming the top of the mountain. Looking north from above mill forks.



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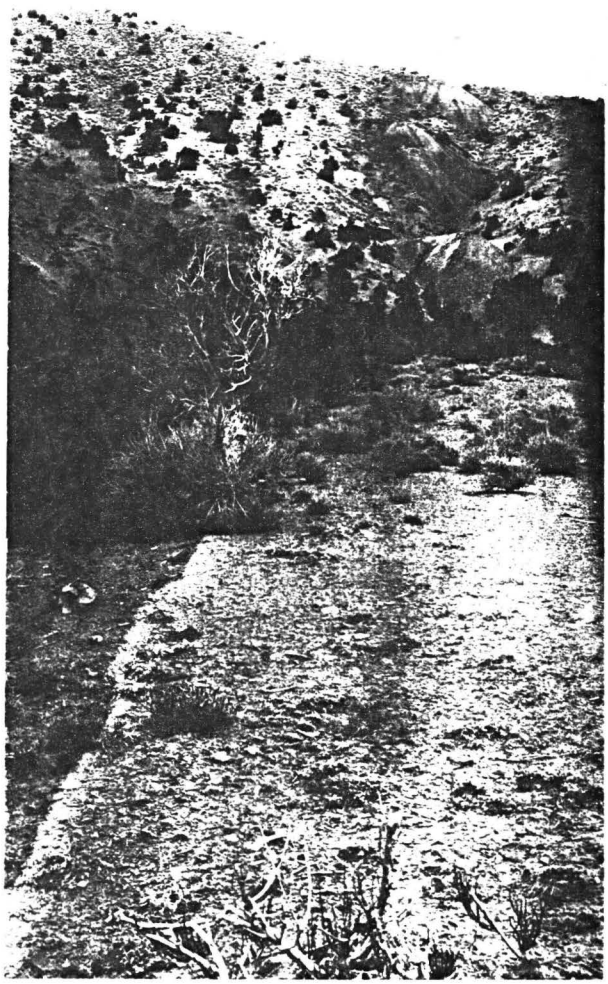
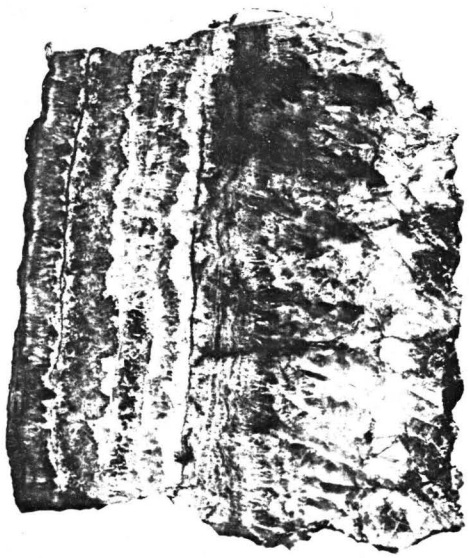


42-1687

Fig. 102. View showing Bernice mine. Looking N. 30 degrees E. from road ridge

47-1634

Fig. 103. View near Alpine showing location of Senator Williams mine in foreground in rhyolite at 6300 feet elevation. Background and higher part of range is andesite. Looking west.



Spec 505

Fig. 104. Polished section of silver-gold ore from Windlass mine near Alpine, showing quartz-adularia banding, indicating open space deposition, crenulation, and intergrowth of the bands. Natural scale.