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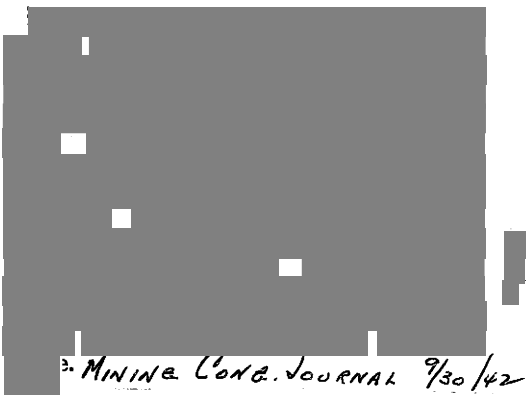

3. MINING CONG. JOURNAL 9/30/42

Reconstruction Finance Corporation
Mining Division
Report of Supervising Engineer

Docket No _____ B-ND.4613
Date Authorization for Exam Recd. _____ Nov 16, 1942
Date Examination, inclusive _____ Nov. 28 & 29, 1942
Date of Report _____ Dec 1942

1. Name and Address of Applicant

Aaron E. Segal
117 South High street
Globe, Arizona
Correspondent: same

2. Character of Project

To further develop copper ore now exposed by sinking shaft 100 feet and drifting 200 feet.

3. Location of Mine

In Section 27, T. 1 S., R. 16 E. G. & S.R. Meridian Globe mining district, Gila County, Arizona. Nearest railroad station is Globe, Arizona, approximately 12 miles north of the property. Property is accessible by improved roads and can be operated without seasonal shut-downs.

4. Applicant

The applicant and his superintendent, Mr. Sidney Gribble are competent to handle any loan or mine operation.

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The applicant and his superintendent, Mr. Sidney Gribble are competent to handle any loan or mine operation.

Sampling and assay data

Nine samples were taken at all the available ore exposures and have been recorded on the attached maps of the workings. A stope has been mined out from the 100 foot level to 20 feet above the 80 foot level. How far upward this stope will extend is problematical for the copper values seem to be decreasing. The floor of this stope was inaccessible for sampling. However, it appears that this stope has bottomed from the size of the ore exposures in the shaft and on the 125 foot level.

Sample No 1 was taken across eight inches, the maximum thickness of a lense of exposed ore. This lense of ore was seven feet long and pinched out both in the bottom of the shaft and seven feet above. The fissure going on down was ch inch in thickness and composed of gouge. On the south side of the shaft, there was not a trace of mineralization.

Sample No 2 was taken across eight inches the maximum thickness of a lense of ore in the floor of the 125 foot level. This lense was 50 inches long. There was no indication of ore in the roof

Sample No 3 was taken on the north side of the shaft between the 100 and 125 foot levels. This lense was about 10 feet long and 7 inches thick. There was no indication of mineral on the south side of the shaft.

Sample No 4 and 5 were taken to see if there could be any values in the downward extension of the stope. The assays revealed practically nothing. The first samples just described give all the evidence necessary for determination of any downward extension of the ore. Nevertheless, four additional samples were taken at remaining ore exposures to give some idea of the copper values

The applicant submitted a smelter return on approximately 26 tons of ore and has returns on another shipment of 26 tons assaying about the same value. At the time of my examination the applicant had about 15 tons more in the ore bin. When I arrived at the property the applicant was closely hand sorting piles of rock and tossing the ore into the bin. By this method the grade of the mined ore was increased considerably. The ratio of concentration must be high.

c condition and accessibility of mine workings

The mine is in good condition and accessible except for the drifts blocked by waste from the stope.

(d) General features of deposit

The rock of the district consists exclusively of granite of possibly Pre-Cambrian age. across this granite a narrow fissure strikes N 10° E and dips between 40 and 50 degrees northwest. The width of the fissure, where exposed, varies from one inch to thirty inches. However the average more closely varies between one inch and eight inches. The ore occurs in lenticular masses which pinch out along the strike and dip. From observations in the bottom of the shaft, the presently worked stope does not continue below the 100 foot level. The ore lenses are frozen to the walls of unaltered granite. Mineralization consists of quartz lenses impregnated with pyrite and chalcopyrite.

C. Proposed Development

Applicant proposes to sink the present shaft an additional 250 feet or more, drift on any ore exposed, install necessary timbering and tracks, raise from the 100 level to the surface for ventilation and erect a building over the machinery

D. Equipment

Applicant is renting all equipment ~~on the which he has~~ listed in his application. In the application he also stated that he owned a complete supply of small tools. At the time of the examination, he stated that he rented these tools and would expect to buy them from loan funds.

E Cost Estimations

Mining — applicant claims $2.50 per ton on basis of 25 tons per day. At that rate the ore would have been extracted in three days.

Drifting — applicant estimates $13.50 per foot.

Raising — $10.00 per foot.

Shaft sinking - applicant estimates $35.00 per foot.

Haulage mine to smelter on crude ore $1.00 — $1.50 per ton.

Smelter treatment — $3.50 per ton on metal values not exceeding $15.00. 10% on excess over $15.00

Timber — $60 per 1000 at mine.

7. Employment.

Including the applicant, three men are employed on the property.

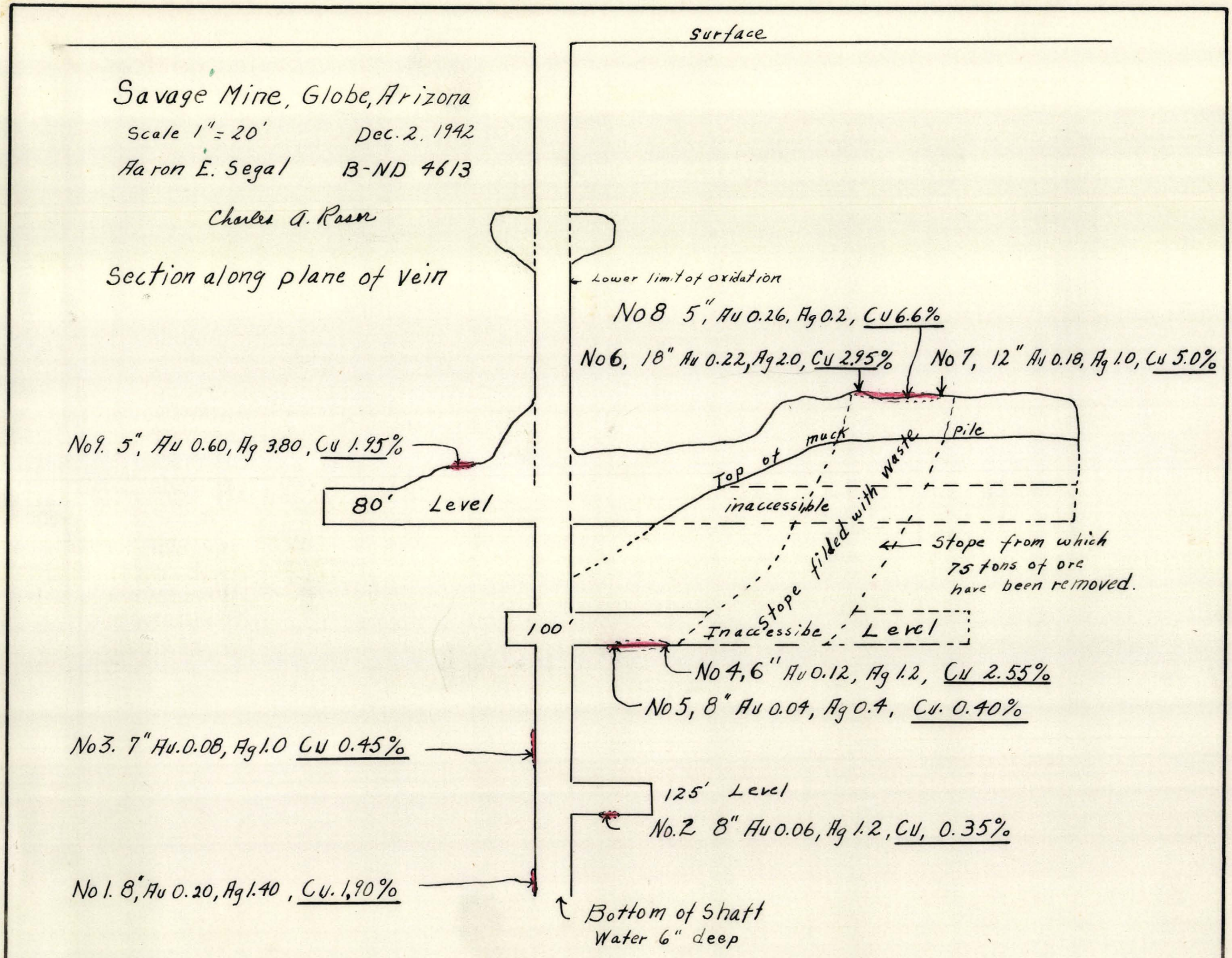
12 Comments of Supervising Engineer

The applicant is at present mining ore from the stope shown on the map. Three samples that can be upholed. taken here indicate the grade of ores After hand sorting the grade is represented by the smelter returns. Below the 100 level, five samples were taken of the only ore exposed. These samples are low in copper and are representative of narrow lenticular masses in the vein. Examination of the bottom of the shaft did not disclose any ore. From the facts submitted it is believed that additional exposures of ore will not be disclosed by further shaft sinking

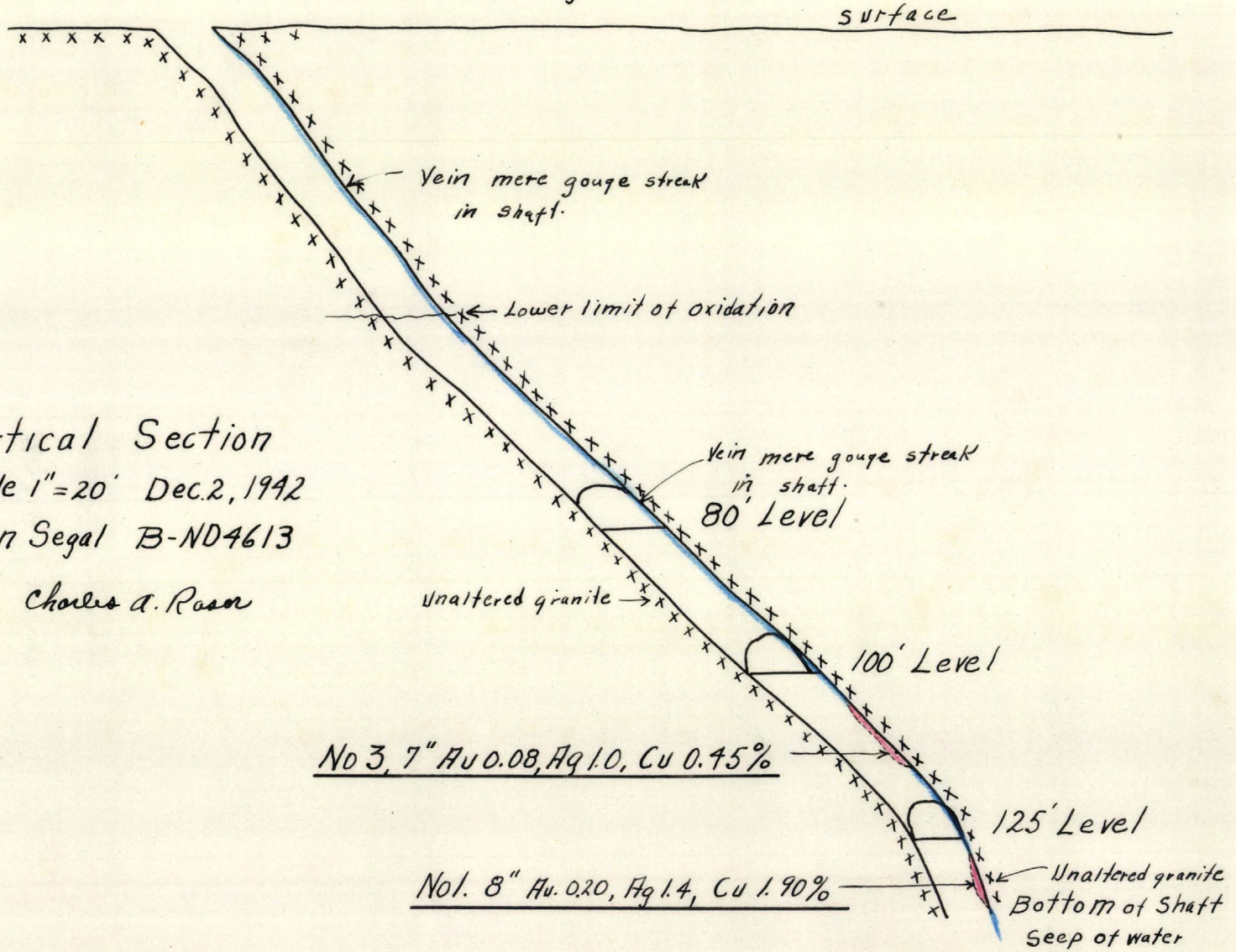
Charles A. Reser
S. E.

attachments

vertical section map-
Map of section along plane of vein
Plan map of levels
Assay certificate


Savage Mine, Globe, Arizona
Scale 1" = 20'
Dec. 2, 1942
Aaron E. Segal
B-ND 4613
Charles A. Rasor
Section along plane of vein
Surface
Lower limit of oxidation
No 8 5", Au 0.26, Ag 0.2, Cu 6.6%
No 6, 18" Au 0.22, Ag 2.0, Cu 2.95%
No 7, 12" Au 0.18, Ag 1.0, Cu 5.0%
No 9. 5", Au 0.60, Ag 3.80, Cu 1.95%
80' Level
Top of muck pile
inaccessible
Stope filled with waste
Stope from which 75 tons of ore have been removed.
100'
Inaccessibe Level
No 4, 6" Au 0.12, Ag 1.2, Cu 2.55%
No 5, 8" Au 0.04, Ag 0.4, Cu. 0.40%
No 3. 7" Au. 0.08, Ag 1.0 Cu 0.45%
125' Level
No. 2 8" Au 0.06, Ag 1.2, Cu, 0.35%
No 1. 8", Au 0.20, Ag 1.40, Cu. 1.90%
Bottom of Shaft
Water 6" deep

Section Looking South

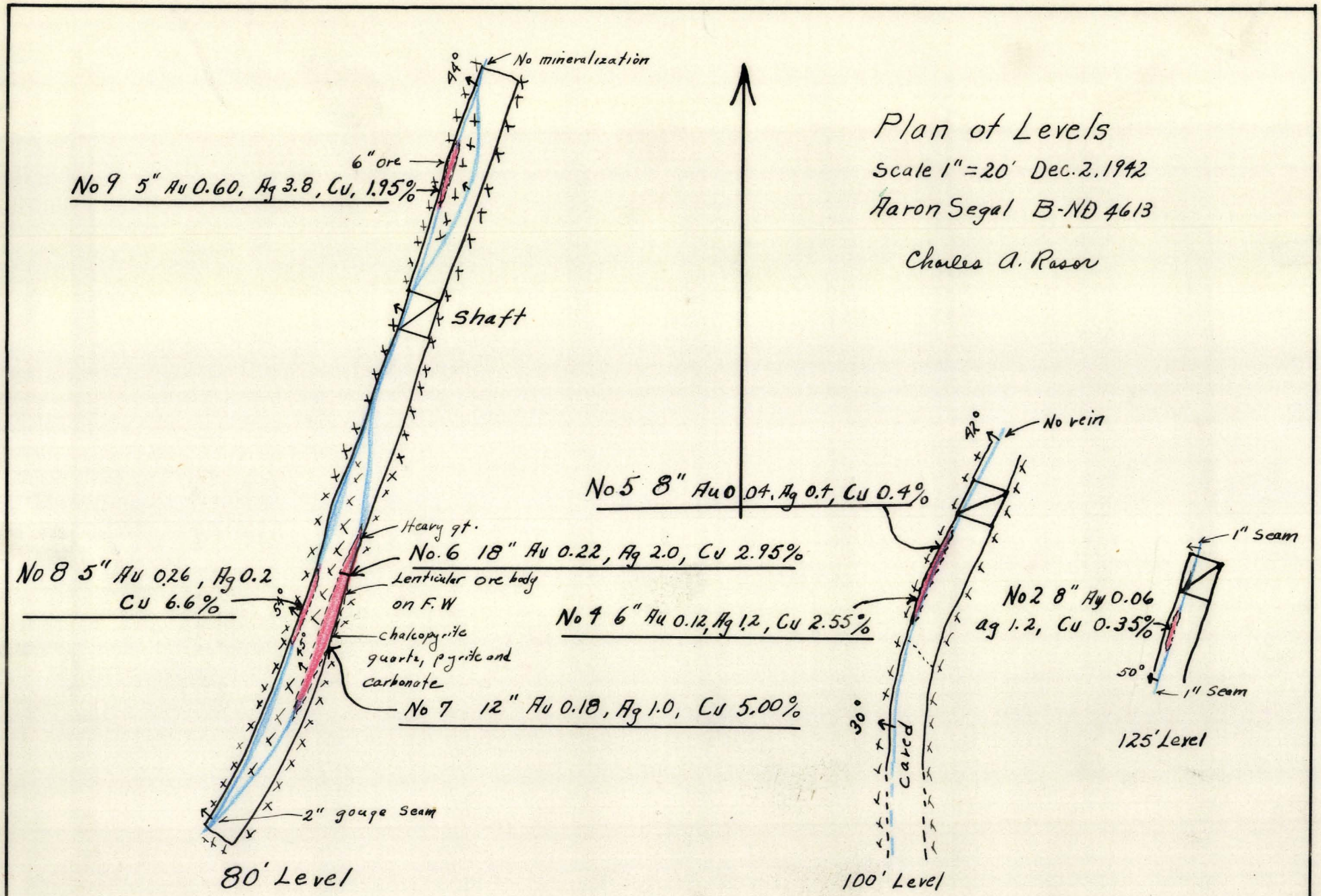


Vertical Section

Scale 1"=20' Dec. 2, 1942

Haron Segal B-ND4613

Charles A. Rose


Plan of Levels
Scale 1"=20' Dec. 2, 1942
Aaron Segal B-ND 4613
Charles A. Rasor
No mineralization
44°
6" ore
No 9 5" Au 0.60, Ag 3.8, Cu, 1.95%
Shaft
Heavy gt.
No. 6 18" Au 0.22, Ag 2.0, Cu 2.95%
No 8 5" Au 0.26, Ag 0.2
Cu 6.6%
Lenticular ore body
on F.W
chalcopyrite
quartz, pyrite and
carbonate
No 7 12" Au 0.18, Ag 1.0, Cu 5.00%
2" gouge seam
80' Level
No vein
42°
No 5 8" Au 0.04, Ag 0.4, Cu 0.4%
No 4 6" Au 0.12, Ag 1.2, Cu 2.55%
No 2 8" Ag 0.06
ag 1.2, Cu 0.35%
1" seam
50°
1" seam
125' Level
30°
Caved
100' Level