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325 Heard Bldg.
Phoenix, Arizona
December 4, 1943

TULLY - Ass't. Chief - Mining Section RFC - Washington, 25, D. C.

Re: Robert W. Nicholas - Docket No. ND-5886
Haddy and Nelson - Docket No. ND-5374

I enclose the original and one copy of my report covering the examination of applicants request for a loan of $30,000 on his mining property (ND-5886). Also is enclosed applicant's duplicate copy of application with supporting data consisting of assay certificate from Magma Copper Co., three pages of typewritten material, two sketches of mine workings, a letter from Chas. A. Kumke to applicant and copy of Bond and Lease. I do not recommend a loan to the applicant.

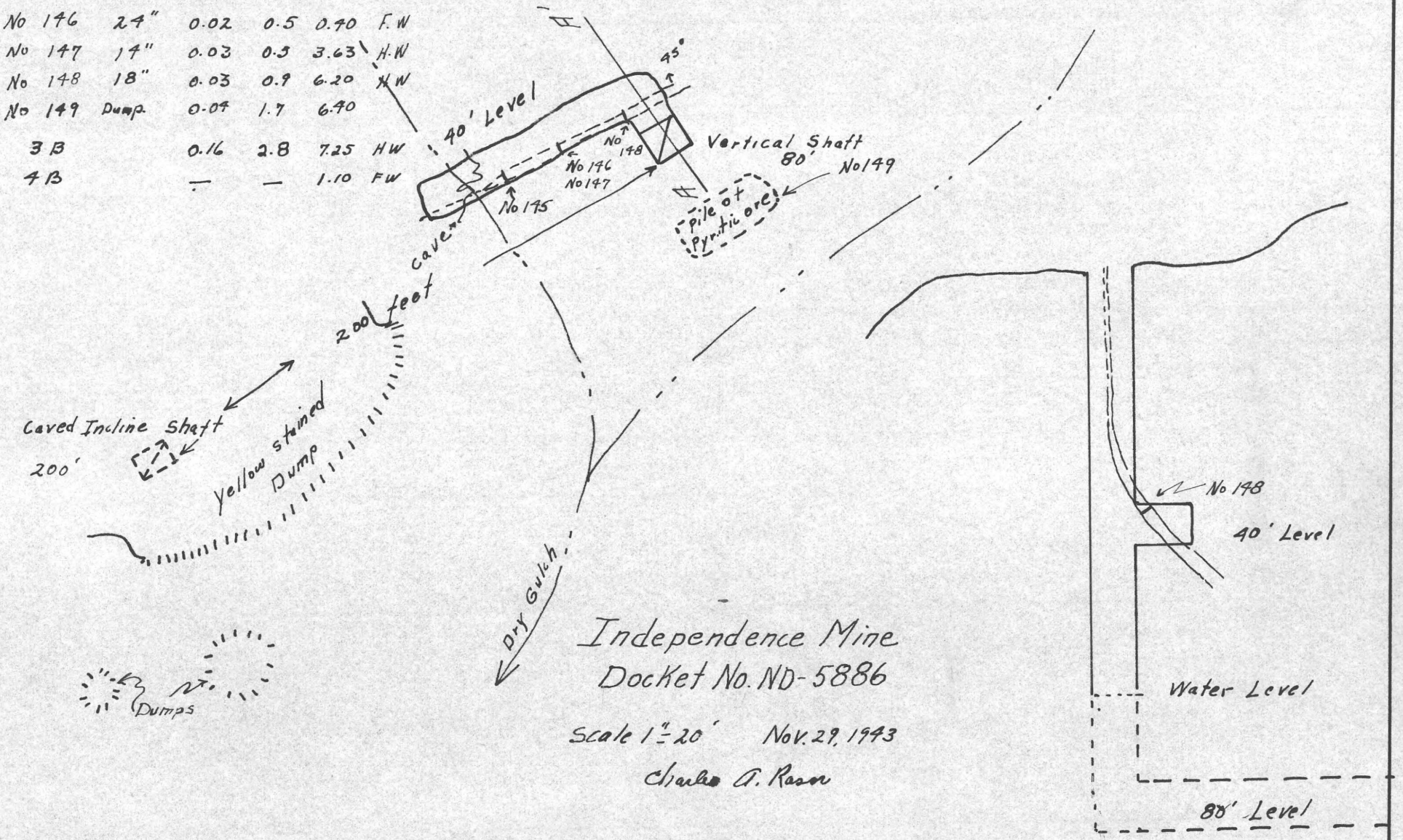
I also enclose original and one copy of my memorandum report on Docket ND-5374.

CAR
CHARLES A. RASOR
Supervising Engineer

CAR:dem
Enclosures

Samples.

		Au	Ag	Cu	
No 145	23"	0.03	0.1	5.35	H.W
No 146	24"	0.02	0.5	0.40	F.W
No 147	14"	0.03	0.3	3.63	H.W
No 148	18"	0.03	0.9	6.20	H.W
No 149	Dump	0.04	1.7	6.40	
3 B		0.16	2.8	7.25	HW
4 B		—	—	1.10	FW



Independence Mine
Docket No. ND-5886

Scale 1" = 20' Nov. 29, 1943

Charles A. Rason

Section A-A'

RECONSTRUCTION FINANCE CORPORATION
MINING SECTION
REPORT OF SUPERVISING ENGINEER

Docket No. ND-5886
Date Authorization for Examination: November 24, 1943
Date of Examination: Nov. 29, 1943
Date of Report: December 2, 1943

1. Name of Applicant:

Robert W. Nicholas
311 North Fremont Ave
Tucson, Arizona

Correspondent: Applicant

2. Character of Project

To unwater shaft, sink in shaft, crosscut to vein, buy machinery and repair washed out road to applicant's copper mine.

3. Location of Mine:

In southern part of T. 1 S., R. 14 E, Globe Mining District, Gila County, Arizona. About 5 miles west of Miami, Arizona, a county road turns south over the mountains. After following this road for three miles to a junction, an unimproved road turns right. This is the old road built in 1907 from the Independence mine (the one examined in this report) to Globe, Arizona. It can be followed four miles. After that it takes an hour to hike to the mine. Although the old road is in existence, considerable repair work, new culverts and grading would be necessary to place this road in working condition. Applicant lists $1,000 as adequate for road repairs, but it appears that a sum twice that amount would barely be sufficient.

4. Applicant:

Applicant did not appear competent and he has no operating personnel. I believe the applicant had a loan turned down on a property he was operating near Redington, Arizona, and was declined a loan on a property in Santa Cruz County, Arizona (C-ND-7684).

5. Loan requested:

$30,000
None recommended.

6. Description of Project:

Applicant claims to have a bond and lease on the Independence Mine from Jack Corn, of Superior, Arizona, who is supposed to have re-located the Independence mine after it had been inactive for several years.

A letter from Mr. Chas. A. Kumke to the applicant states that he was engineer at the property in 1907 and that during his stay on the property, a 300 ft. crosscut adit on the south end of the property did not encounter any ore. North of the crosscut an inclined shaft was sunk 200 ft. On the 90 foot level a little stoping was done, and approximately 100 tons of ore shipped to the Old Dominion Smelter in Globe, but as near as he could recollect the ore averaged between 5 and 6 per cent copper. The vein where first cut on the 200 level was 20 miles wide and the first assay was 17% copper, but on drifting a short distance the vein pinched down. With that showing, the operation apparently ceased until Mr. Corn relocated and sank a vertical shaft 80 feet deep and about 200 feet east of the old workings.

The applicant accompanied me on the examination, but apparently he did not know the direction to the property, for he led us off on the wrong road before we hardly got started. The property is in a canyon about 2000 - 3000 feet lower than the summit south of Miami, Arizona. Except for the 80 foot vertical shaft, the property is inaccessible for underground examination. The original 200 foot shaft is caved with 35 years of brush growing all around the dump and former collar of the shaft. A boiler, a rusted steam hoist, and a rusted Cameron pump are the remains of a former operation. During the 35 years the dumps have turned a yellowish tint because of the oxidation of disseminated pyrite in schist. White quartz was associated with the pyrite.

Evidence of ore as a basis for consideration of a $30,000 loan, was found in a short drift on the 40 foot level of the 80 foot shaft. The shaft is vertical and open to the 60 foot mark where water stands . At the 40 foot mark, a short drift 30 feet long extends along the vein. However, the last 10 feet was partially caved and dangerous. By crawling around part of the cave, I was able to see the face and to observe that the last 10 feet did not contain ore of commercial grade. The vein strikes N 65° E and dips 45 degrees to the NW. However, as shown in the cross section of the shaft, the vein bends abruptly to the vertical position. The commercial ore is restricted to a thickness varying between 14 and 23 inches and consists of vitreous blue crystals of chalconthite and pyrite with chalcopyrite. Gypsum, various iron oxides and quartz were also observed.

S ampling:

Five s amples were taken of the ore. Four were along the exposed vein and one of the pyrite ore lying on the dump.

Sample No. 195 was taken across the H.W. portion of the vein near the west end of the lense of ore. The thickness of the vein was 23 inches, consisting of an upper 8 inches of soft material with seams of chalcanthite, a middle 3 inches of sulfide, and a lower 12 inches of oxidized vein material with veinlets of chalcanthite. Assay gives 0.03 ounces of gold; 0.1 ounces of silver and 5.35 per cent copper.

Sample No. 146 was taken 10 feet from the shaft and across 24 inches of the F.W. Applicant seemed to think that this was part of the vein. Assay gives 0.02 ounces of gold, 0.5 ounces of silver, and 0.40 per cent copper. Applicant's No. 4 B was taken at the same place. His sample shows 1.10 per cent copper

Sample No. 147 is above No. 146 and represents the H.W. of the vein. Actually it represents the vein. Thickness: 14 inches . Assay: 0.03 ounces gold; 0.5 oz. silver; and 3.63 per cent copper. Applicant's No. 3 B in same place shows 0.16 ounces gold; 2.8 ounces silver, and 7.25 per cent copper.

Sample No. 148 taken across 18 inches of vein material near the shaft gives 0.03 ounces gold, 0.9 ounces silver, and 6.20 per cent copper. The vein consisted of a hanging wall portion of 5 inches of soft material with copper sulfate and 13 inches of massive sulfide of pyrite and chalcopyrite.

Sample No. 149 was a grab of ore piled out on the dump. The ore was mainly pyritic; Assay gives 0.04 ounces gold, 1.7 ounces silver, and 6.40 per cent copper.

Purpose of the Loan:

Applicant has listed the items for which the money is to be spent, namely;

1.	Road repair, camp construction, etc.	$ 5,850.00
2.	Development of mine by sinking, drifting, etc.	11,550.00
3.	Purchas of equipment	8,650.00
4.	Superintendence, insurance, etc . . .	3,907.50
		$29,957.50

Comments of Supervising Engineer:

The total length of vein that could be sampled was 20 ft. To the west the vein pinched out, and up the shaft the vein pinched out. Without unwatering the shaft, and it is not known whether or not the vein was cut on the 80 foot level. Most of the ore sampled was oxidized, consisting of chalcanthite, the hydrous copper sulfate. The little sulfide ore that could be observed consisted of pyrite and chalcopyrite. The width of the vein is narrow, varying between 14 and 23 inches. Thus it seems with this small showing the applicant was rather optimistic in applying for a $30,000 development loan. Equipment is scarce, miners more so, and at least four miles of steep mountain road will need repairing before any work can be done on this property. Moreover, the statements of Mr. Chas. A. Kumke would substantiate the facts that the vein is narrow; that it pinches and swells within short distances, and that the ore was never very high grade.

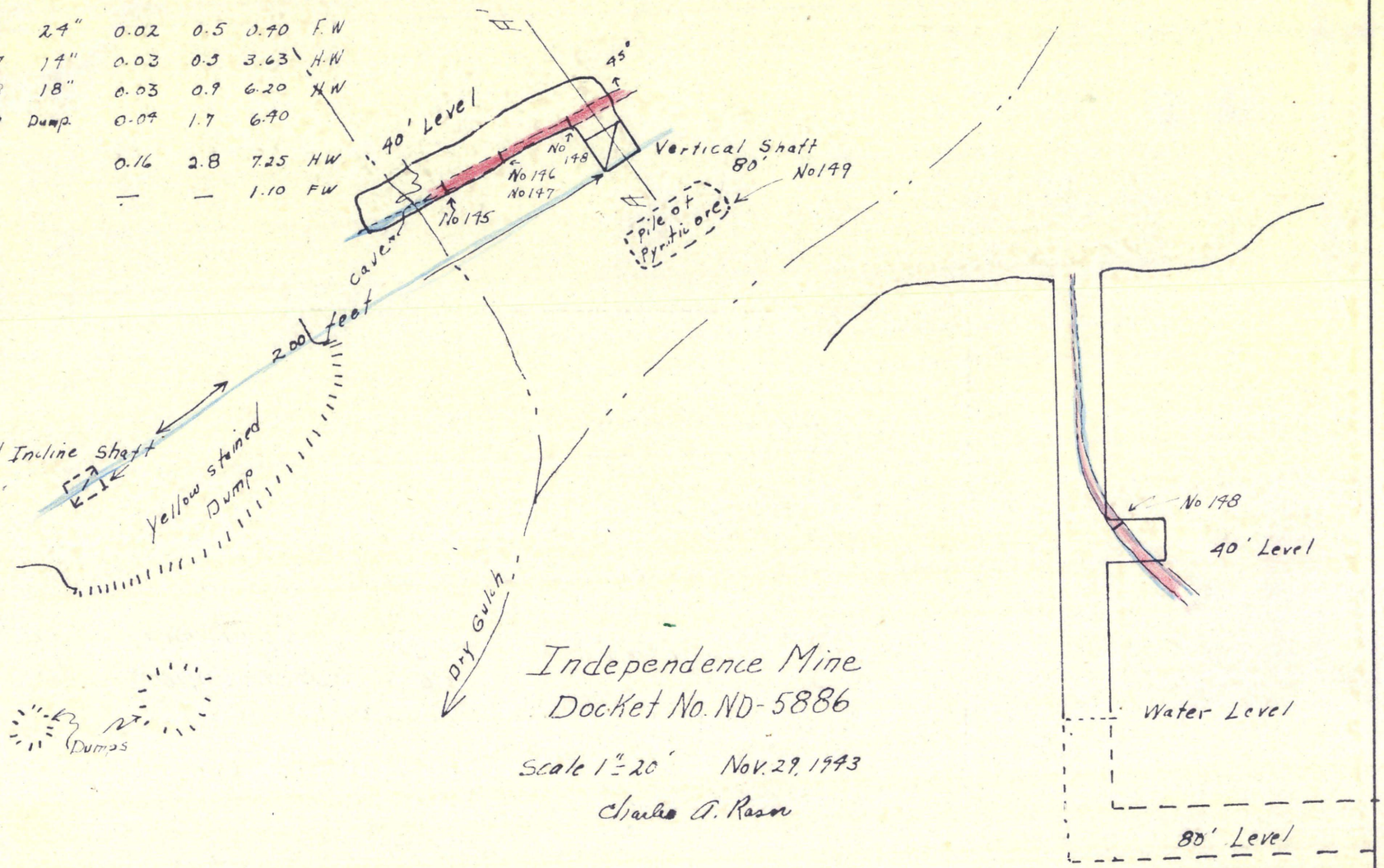
Thus, I do not recommend a loan to the applicant because of the above facts.

CHARLES A. RASOR
Supervising Engineer

Attachments:
Assay Certificate
Map

Samples.

		Au	Ag	Cu	
No 145	23"	0.03	0.1	5.35	H.W
No 146	24"	0.02	0.5	0.40	F.W
No 147	14"	0.03	0.3	3.63	H.W
No 148	18"	0.03	0.9	6.20	H.W
No 149	Dump	0.04	1.7	6.40	
3 B		0.16	2.8	7.25	HW
4 B		—	—	1.10	FW



Independence Mine
Docket No. ND-5886

Scale 1" = 20' Nov. 29, 1943

Charles A. Rason

Section A-A'

No. 232 Ra

Phoenix, Arizona,
Nov.30,1943.

CHAS. A. DIEHL

ARIZONA ASSAY OFFICE

Phone 3-4001 — 815 North First Street — P. O. Box 1148

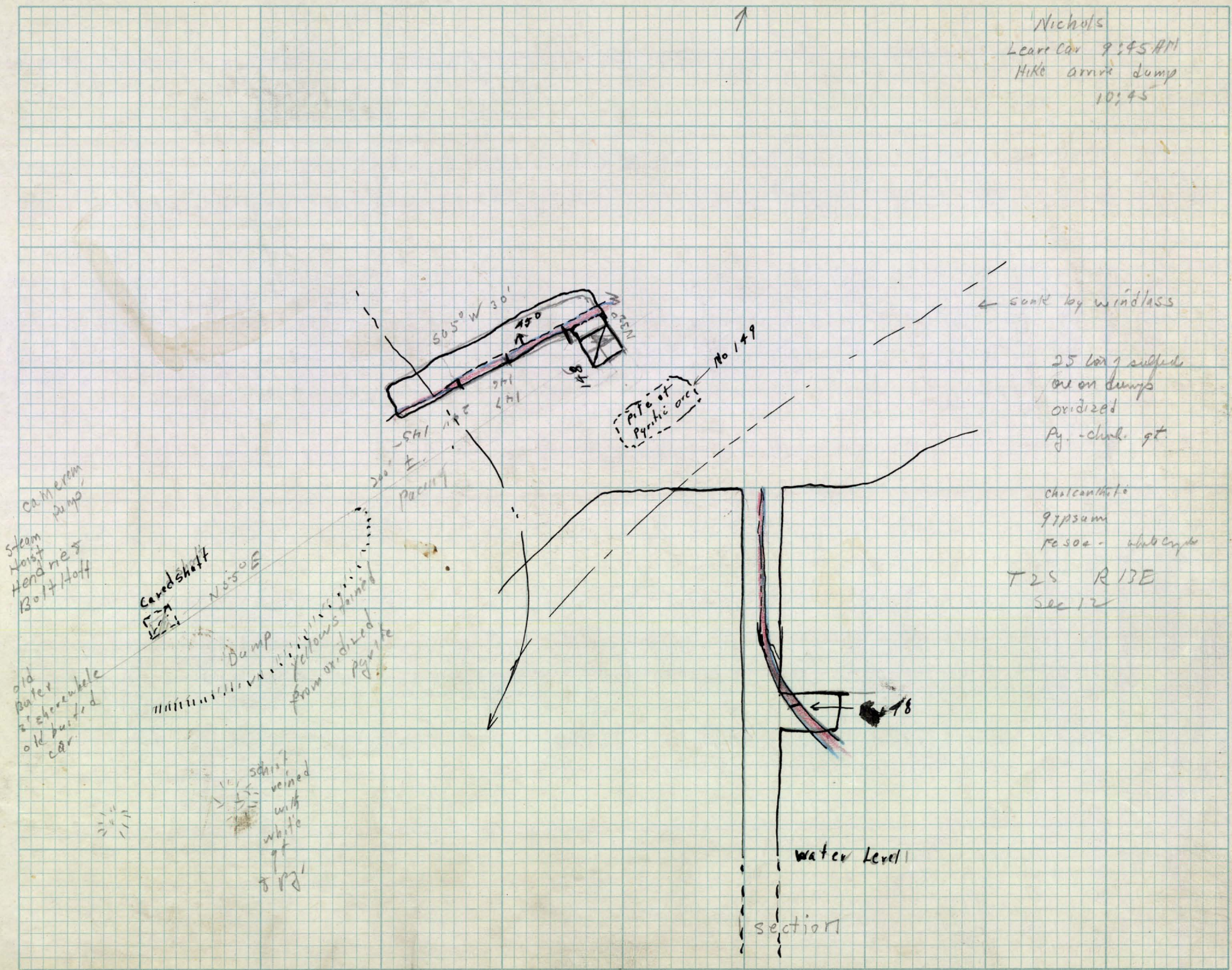
This Certifies That samples submitted for assay by Mr.C.A.Rasor. contain as follows per ton of 2000 lbs. Avoir.

No.	MARKS NICHOLS Width	SILVER Ounces	SILVER Tenths	VALUE (Oz.)	GOLD Ounces	GOLD Hundths	VALUE (Oz.)	TOTAL VALUE Of Gold and Silver	% PERCENTAGE COPPER				REMARKS
145	23"		.1			.03	$1.05		5.35				
146	24"		.5			.02	$.70		.40				
147	14"		.5			.03	$1.05		3.63				
148	18"		.9			.03	$1.05		6.20				
149	Dump		1.7			.04	$1.40		6.40				

Charges $ 10.00

Assayer ARIZONA ASSAY OFFICE

Nichols
Leave car 9:45 AM
Hike arrive dump
10:45



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