CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
520-770-3500
http://www.azgs.az.gov
inquiries@azgs.az.gov

The following file is part of the

Richard Mieritz Mining Collection

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

June 16, 1975

LETTER of CERTIFICATION

I, Richard E. Mieritz of 1634 W. Hazelwood Street, #2, Phoenix, Maricopa County, Arizona, does hereby certify that:

(1) I am a mining engineer, graduated from the University of Wisconsin with the degree of Bachelor of Science in 1939.

(2) I have practised my profession continuously since then, receiving my Arizona State Registration as a Mining Engineer in 1956 and my Arizona State Registration as a Geologist in 1970, being a member in good standing.

(3) The report to which this letter is attached and part of, has been prepared on the basis of personal observations on and of the property, on the writers general knowledge of the area and the review and study of available factual data.

(4) I have no direct nor indirect interest in the property.

(5) I have no direct nor indirect interest, nor do I expect to receive any interest, direct or indirect in the properties or the securities of General Gold Mining & Exploration Co., Phoenix, Arizona, or its affiliates.

(6) That the contents of this report may be utilized by and made public by General Gold Mining & Exploration Co.

Respectfully submitted,

R. E. Mieritz,
Mining Consultant
Phoenix, Arizona

A

GEOLOGICAL EVALUATION

and

EXPLORATION

REPORT

on the

TREASURE CHEST #1 CLAIM

Maricopa County, Arizona

by

Richard E. Mieritz
Mining Consultant
Phoenix, Arizona

June 16, 1975

TABLE of CONTENTS

	Page
INTRODUCTION	1
PROPERTY, LOCATION and ACCESSIBILITY	1
HISTORY, DEVELOPMENT and PRODUCTION	1
FACILITIES	2
GEOLOGY	2
LOCAL GEOLOGY	2
MINERALIZATION	3
SAMPLING	3
POSSIBLE POTENTIALS and EXPLORATION	4
ANTICIPATED EXPLORATION COSTS	4
CONCLUSIONS	5

INCLUDED EXHIBITS:

Assay Certificate, May 21, 1975, Valley Assay Office, Tempe, AZ
Assay Certificate, June 7, 1975, Iron King Assay Office, Humboldt, AZ
Assay Certificate, June 13, 1975, Iron King Assay Office, Humboldt, AZ
Map No. 1 - Index Map
Map No. 2 - General Geology Map
Map No. 3 - Claim Map
Map No. 4 - Surface Geology Map - Underground Workings

INTRODUCTION:

At the request of and authorization by Mr. William S. Alexander, agent for General Gold Mining & Exploration Co., an Arizona corporation, Phoenix, Arizona, the writer completed a field examination on June 4, 1975, of the Treasure Chest #1, patented mining claim, Superstition Mining District, Sec. 36, T. 2 N., R. 8 E., G. & S. R. B. & M., Maricopa County, Arizona.

This geological and exploration report is based on the above field examination, the taking of samples, factual data of others and the writer's general geologic and mineralogic knowledge of the area in which the claim is situated.

PROPERTY, LOCATION and ACCESSIBILITY:

The property consists of one lode mining claim known as Treasure Chest #1, Mineral Survey No. 4507, December 2, 1959, and under Bureau of Land Management Patent No. 1220767, dated June 23, 1961, with Arizona Serial No. 024671.

A true position of the claim covers parts of the NE/4 of Sec. 36, T. 2 N., R. 8 E. and the NW/4 of Sec. 31, T. 2 N., R. 9 E., of the G. & S. R. B. & M., Maricopa County, Arizona, about 6½ miles north-northeast of Apache Junction, which is approximately 30 miles east of Phoenix, Arizona. (See Maps No. 1, No. 2 and No. 3.)

All four claim corners were found on the ground by the writer during his examination.

The property is very accessible by automobile from Apache Junction. Using the intersection of U. S. Highways 60 & 80 with that of State Route 88 (center of Apache Junction) as a starting point, travel north-northeast on State Route 88 (Apache Trail) for 6.5 miles, just past Mile Post 202, to a junction with a gravel road on the left. A left turn onto this gravel mine access road and just past the power transmission lines, one is on the property. Numerous typical desert type roads lead in several directions to various parts of the claim. (See Map No. 3.)

The Treasure Chest claim is located about one mile north of the old Mammoth Mine, which in its day produced several millions of dollars in gold ore. Building and foundation remnants of this old mining camp are visible on the left while traveling north on State Route 88 to the Treasure Chest claim.

HISTORY, DEVELOPMENT and PRODUCTION:

Mr. Roy Galbraith located five claims in the late twenties and maintained their legal status by annual assessment work. Several surface pits and trenches were dug, as well as a vertical and an inclined shaft near the discovery point.

A year after the patent application was made by Mr. Galbraith, the property was leased by one Kenneth Hebner, who proceeded to equip the incline shaft with bucket and hoist, utilized air operated mining equipment and installed a small Gibson type gold recovery mill. Much material had been removed, about 250 tons, (See Map No. 5.), most of which was probably ore.

The writer has no information as to what grade, or gold value, the mined material contained or was recovered by the mill.

FACILITIES:

A high voltage, 6 wire transmission line passes near the southeast sideline of the claim, while a 3 wire power line crosses the northeastern corner of the claim. (See Map No. 3.)

A water well on the property, although not capacity tested, could provide sufficient water from its 45-50 foot depth, for domestic and mine-mill use.

There is no source of gas on or near the property.

GEOLOGY:

The regional area consists of a basal Precambrian granite that is overlain in places by late Cretaceous (?) andesite and/or conglomerate (probably a fan-glomerate, since the pebbles and larger pieces of rock up to six inches are poorly rounded, being mostly very angular). The "Superstition" rhyolite flows overlay the andesite-conglomerate complex. East and west of the claim area the dacite series of flows unconformably overlay the previously mentioned rocks.

LOCAL GEOLOGY:

The normal erosion process has, in the vicinity of the claim, exposed the fan-glomerate, andesite and the Precambrian granite. The contact of these rocks has a general north-south trend with the andesite lying between the granite on the east and the fan-glomerate on the west. These contacts range from 20° to 45° W. dip-wise.

Some surface mapping by the writer indicates the fan-glomerate strikes about N. 10° to 15° W. and dips from 40°-50° E. in the area southwest and west of the incline and vertical shafts. (See Map No. 4.) Several layers of the fan-glomerate are distinguishable by their colors, pinkish, greenish to deep dull red. (See Map No. 4.) Considerable surface dozing has been done northeast of the two shafts and this work has exposed the Precambrian granite which exhibits local areas of limonitic staining with north-south and northwest trends, paralleling the two main structures observed in the two shafts.

These conditions are, perhaps, all part of a shear zone which has developed as a result of the andesite invasion along the original

contact between the fan-glomerate and granite, creating good conditions for mineral deposition, particularly at intersections of the two different striking structure sets.

MINERALIZATION:

The two shafts examined by the writer exhibit the conditions as previously described. The incline shaft follows the intersection of the N. 45° W. fault structure and the north-south fault contact. This intersection has a rake of about 60° to the northwest.

Much limonitic iron staining and much gouge are visible in the two structures. The iron staining penetrates both the foot and hanging walls of the two structures. These structures vary in width (foot wall to hanging wall) from two to four feet. Gold-silver mineralization tends to favor the foot wall gouge of the structures as well as the line of intersection of the structures. Mineralization tends to weaken in strike direction of both structures away from the intersection.

The iron stained zones, northeast of the two shafts, and their projections dip-wise, as well as their intersections, are thus favorable areas for finding gold-silver mineralization.

Old data indicates additional vertical and inclined shafts exist, however, these workings have been accidentally or purposely filled, for what reason, unknown to the writer.

SAMPLING:

During May 1975, Mr. Harold Ferrin examined the Treasure Chest claim and took five samples. These were assayed by the Valley Assay Office, Tempe, Arizona. During the June examination of the property by the writer, three samples were taken and assayed by the Iron King Assay Office, Humboldt, Arizona. The writer obtained the rejects of the five samples from Mr. Ferrin and selected two samples to be assayed as checks to determine whether the results of the Ferrin samples could be used as part and fact of the writer's analysis of the existing mineralization as known and potential mineral possibilities in the future.

Samples taken by Mr. Ferrin are identified as T.C. 1 through T.C. 5, whereas those of the writer are identified by numbers 1286 thru 1288, 1292 and 1293, the latter two being the check samples above referred to.

Sample descriptions and their results are tabulated on the following page.

It should be noted that the check assaying and the check sampling (one sample) are actually very good checks, therefore, all samples, Mr. H. Ferrin's and the writer's, have been used by the writer in the study and analysis as regards possible potentials to be explored.

SAMPLE and ASSAY DATA

Sample Number	Sample Description and Location	Ounces/ton Gold	Ounces/ton Silver	Dollars/ton Gold	Dollars/ton Silver	Total Value
T.C. 1	8 feet below Platform, 5 foot channel.	1.16	24.80	$174.00	$ 99.20	$273.20
1292	Pulp of Sample T. C. 1, different Assayer, check.	1.10	31.36	$165.00	$125.44	$290.44
T.C. 2	16 feet below Platform, 3 foot channel	0.26	5.20	$ 39.00	$ 20.80	$ 59.80
T.C. 3	14' N. Drift, 6 foot channel	0.21	2.90	$ 31.50	$ 11.60	$ 43.10
1293	Crushed crude portion of Sample T.C. 3, different Assayer	0.235	1.50	$ 35.25	$ 6.00	$ 41.25
T.C. 4	30' N. Drift, across face, 3 foot channel	0.14	2.20	$ 21.00	$ 8.80	$ 29.80
T.C. 5	Across N. face of winze bottom.	0.76	1.90	$114.00	$ 7.60	$121.60
1286	3 foot chip-channel across back of south drift at bottom of shaft (45 foot level) 5 feet into drift from south shaft wall. Sugary quartz, altered granite with FeO_x, (brown, bright red)	0.215	0.71	$ 31.50	$ 2.84	$ 34.34
1287	4.5 foot chip-channel across back (foot to hanging wall), two feet into north drift from north shaft wall on 29 foot level. Altered granite, FeO_x, red-black near hanging wall. (possible breccia zone?)	0.07	1.79	$ 10.50	$ 7.16	$ 17.66
1288	2.5 foot chip-channel across N. 45° W. structure, normal to dip. Two feet up dip of T.C. 2 sample. Altered granite, white clay on hanging and foot walls, 2" of black (iron and/or manganese) mineral above footwall. Some brown and yellow FeO_x.	0.24	4.92	$ 36.00	$ 19.68	$ 55.68

NOTE:
Gold and silver market values are currently fluctuating considerably and because of this, the writer has used $150.00/oz. as a stable, conservative value for gold and $4.00/oz. as a similarly classified value for silver.

POSSIBLE POTENTIALS and EXPLORATION:

Sampling completed by Mr. Ferrin and the writer indicate a range of gold content from 0.07 oz/ton to 1.16 oz/ton and accompanying silver values. The dollar values per ton range from $18.00 to $290.00.

The completed sampling also indicates (1) somewhat uneven distribution of gold values, (2) usually high grade concentrations near the surface, decreasing, depth-wise, to about 0.25 oz/ton with accompanying silver values for an average dollar value of $45-50.00/ton, (3) values per ton appear to decrease horizontally away from the intersections of the structures of different strikes, and (4) iron staining, to a great degree, should be the indicator for gold and silver mineralization.

Exploration and development of the property will require underground work as drifting, cross-cutting and shaft sinking to provide necessary faces and openings for sampling and to reach projected targets.

The existing shafts can be rehabilitated and utilized for horizontal and vertical exploration and development.

Drilling from the surface would not be a satisfactory means of exploration because of the type of targets governed by the mode of mineralization present.

ANTICIPATED EXPLORATION COSTS:

A visioned underground exploration program, at the moment, should include about 70 feet of shaft sinking, 500 to 1000 feet of drifting and cross-cutting and 200 to 300 feet of raising (possible stope preparation). Preparatory work and requirements such as shaft rehabilitation, level preparation and clean-up, purchase of hoisting equipment and mining equipment must be considered.

An approximate cost estimate for the above suggested work should approach the following:

Purchase hoisting equipment, etc.	$ 10,000.-
Purchase mining equipment, etc.	22,000.-
70 feet shaft sinking	18,900.-
1000 feet drifting and cross-cutting	40,000.-
300 feet raising	7,500.-
Sampling, Assaying	4,000.-
Exploration Supervision (Consultant)	21,500.-
Metallurgical test work (Mill design, recovery)	7,500.-
Sub Total	$ 131,400.-
Contingencies, underestimates, etc.	40,000.-
TOTAL	$ 171,400.-
Say:	$ 175,000.-

This program should provide depth exploration in the area of the present shafts as well as lateral exploration in the shaft area and

the area north and northeast of the shafts which the writer believes are potential targets.

CONCLUSIONS:

Based on the writer's field examination, the results of the samples taken, the observance of geologic conditions present, the mode and strength of structures and the mode and strength of gold-silver mineralization, the writer opines that an exploration program to develop the property is a just, worthy and an attractive cause which could, when completed, indicate a substantial "mineral in place" value and cause same to be feasible as a mine-mill operation.

Respectfully submitted,

R. E. Mieritz
Mining Consultant
Phoenix, Arizona

June 16, 1975

VALLEY ASSAY OFFICE

AND ORE TESTING LABORATORY

MEMORANDUM OF ASSAY

Made for Sierra Dimond Drilling Co. Tempe, Arizona May 21, 19 75

SAMPLE NO.	PER TON OF 2000 POUNDS AVOIRDUPOIS								COPPER, OR			LEAD, OR			ZINC, OR			TOTAL	
	GOLD ~~PLATINUM~~				SILVER														
	AT	PER OUNCE			AT	PER OUNCE			AT	PER LB.		AT	PER LB.		AT	PER LB.			
	OZS.	100's	$	Cts	OZS.	100's	$	Cts.	%	$	Cts.	%	Cent	Cts.	%	Cents	Cts.	$	Cts.
1 I-C	1.	16	175		24.	80	450					4	203			192.50		315	50
2 " "	0.	26			5.	20							44	50		22.50		67	00
3 I C	0.	21			2.	90							36	75		13.50		50	25
4 I C	0.	14			2.	20							24	50		9.90		344	40
5 " "	0.	76			1.	90							13	80		1.20		142	00
6	0.	03			0.	80													
REMARKS:																			

REGISTERED ASSAYER CERTIFICATE EXPIRES DEC. 31, 1975 L. LEE ROYER ARIZONA, U.S.A.

NO.

BY L. Lee Royer Registered Assayer.

CHARGE $ 54.00 Pd.

IRON KING ASSAY OFFICE

ASSAY CERTIFICATE

BOX 14 — PHONE 632-7410

HUMBOLDT, ARIZONA 86329

REGISTERED ASSAYER CERTIFICATE NO. 2978 WALTER G. STATLER Date Issued ARIZONA, U.S.A.

ASSAY MADE FOR

RICHARD MIERITZ
1634 W. Hazelwood St.
Phoenix, Ariz. 85015

June 7, 1975

DESCRIPTION	oz/ton Au	oz/ton Ag		% Fe	% Pb	% Zn	% Cu
#1286	.215	0.71					
#1287	.070	1.79					
#1288	.240	4.92					
Treasure Chest.							

CHARGES $12.75
1.00 S.C. $13.75 total

ASSAYER

IRON KING ASSAY OFFICE

ASSAY CERTIFICATE

BOX 14 — PHONE 632-7410

HUMBOLDT, ARIZONA 86329

CERTIFIED ASSAYER
CERTIFICATE NO. 2378
WALTER G. STAYLER
Date signed 6-13
ARIZONA, U.S.A.

ASSAY MADE FOR

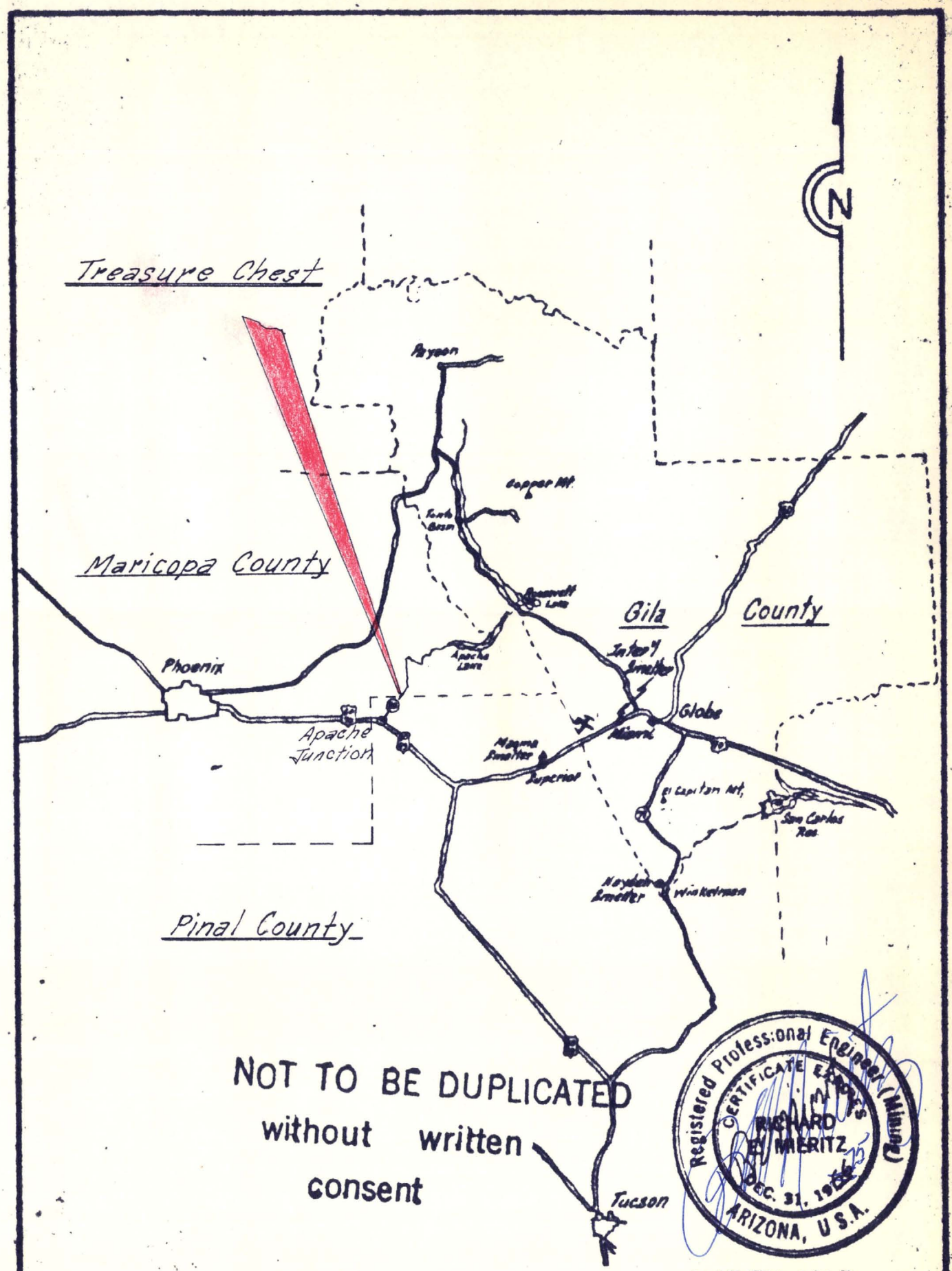
RICHARD MIETITZ
1634 W. Hazelwood St.
Phoenix, Ariz. 85015

June 13, 1975

DESCRIPTION	oz/ton Au	oz/ton Ag		% Fe	% Pb	% Zn	% Cu
# 1292	1.100	31.36					
# 1293	.020	1.50					
Treasure Chest							

CHARGES $8.50

ASSAYER



INDEX MAP
PORTION of ARIZONA
SCALE
1 INCH = ± 21 MI.

MARCH, 1965 R.E. MIERITZ

MAP No. 3

LEGEND

104 QTs - Quaternary-Tertiary, sand, gravel & conglomerate.

199 QTb - Quaternary-Tertiary, basalt

107 Ts - Tertiary, sand, gravel & conglomerate

114 Ta - Tertiary, andesite

173 Td - Tertiary, dacite

1277 Lgr - Laramide, granite & related crystalline rocks.

CDI - Carboniferous-Devonian, limestone, shale, sandstone

db - Precambrian to Tertiary, diabase

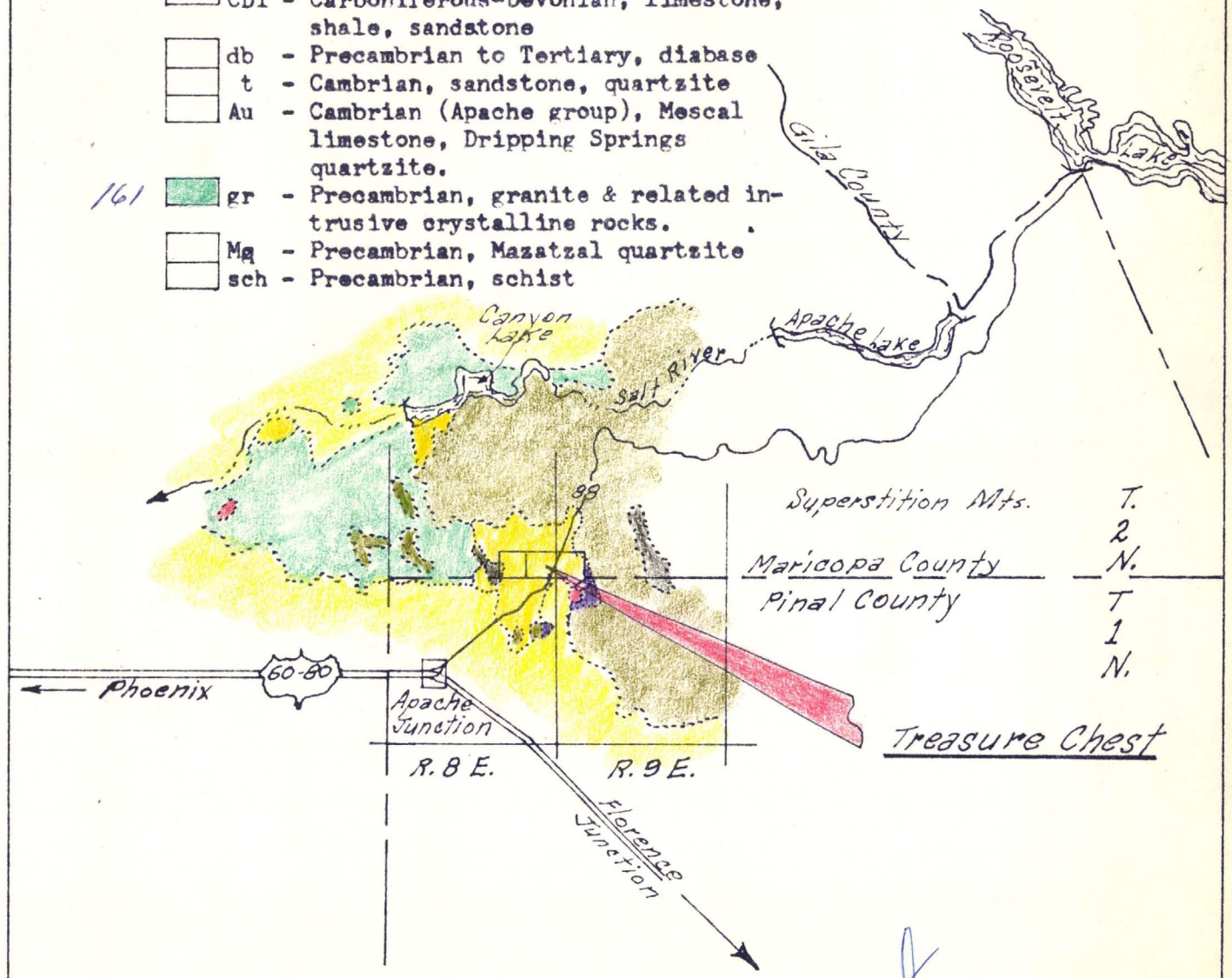
t - Cambrian, sandstone, quartzite

Au - Cambrian (Apache group), Mescal limestone, Dripping Springs quartzite.

161 gr - Precambrian, granite & related intrusive crystalline rocks.

Mq - Precambrian, Mazatzal quartzite

sch - Precambrian, schist



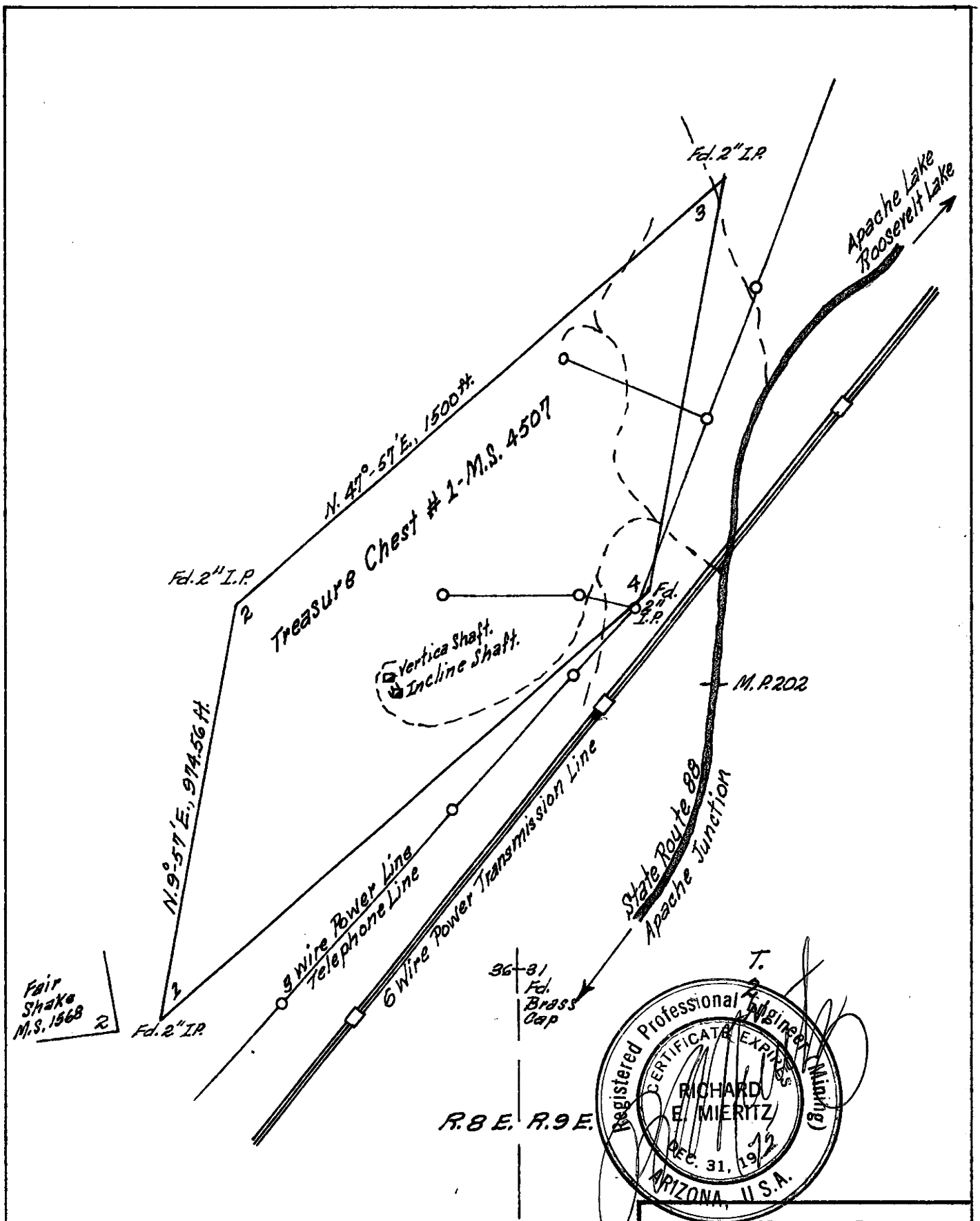
REGISTERED GEOLOGIST
CERTIFICATE NO. 7784
RICHARD E. MIERITZ
Date Signed
ARIZONA, U.S.A.

GENERAL GEOLOGY MAP
Portion of
Maricopa County, Arizona

SCALE: 1" = 6 Miles

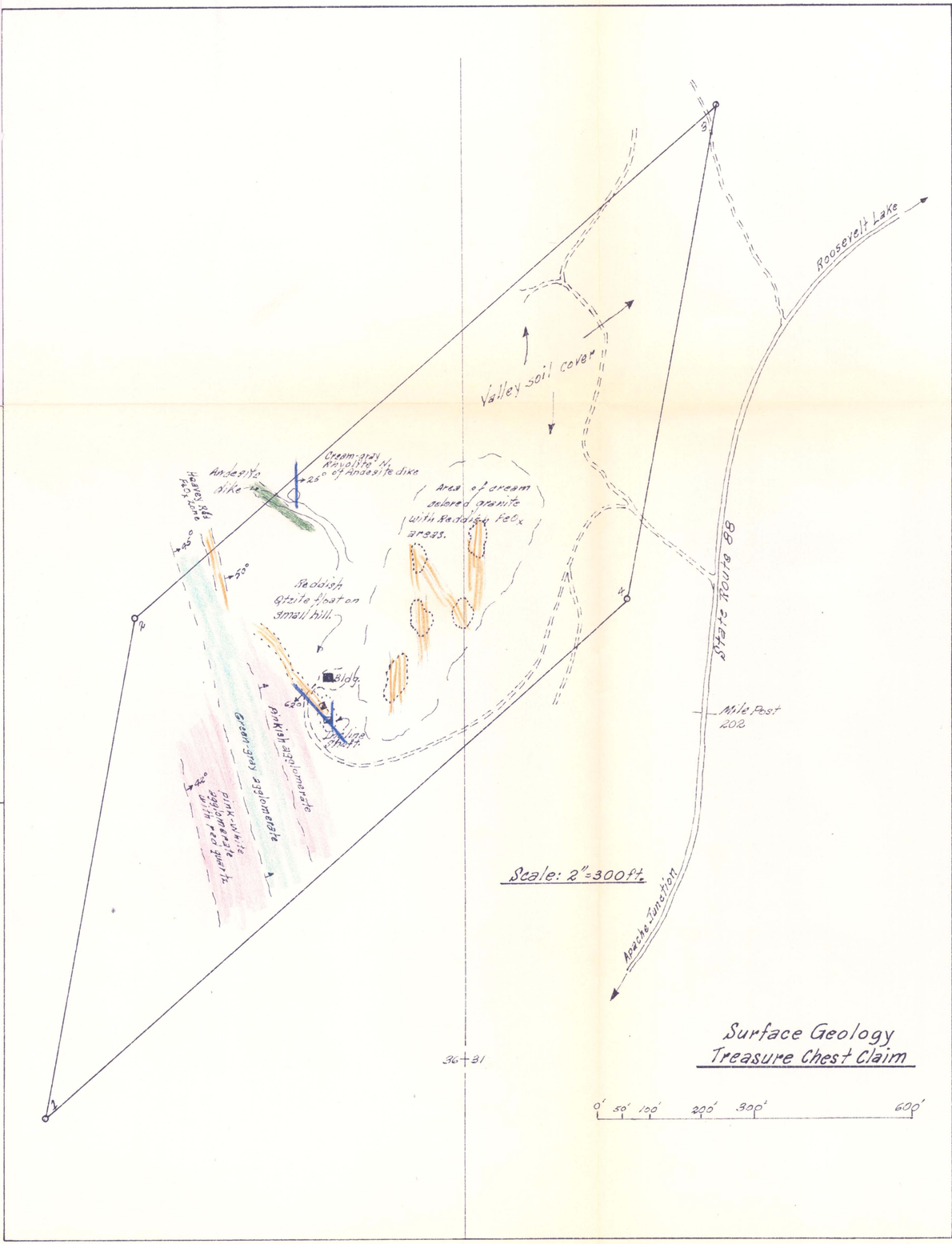
June, 1975 R. E. Mieritz

MAP Nº 2

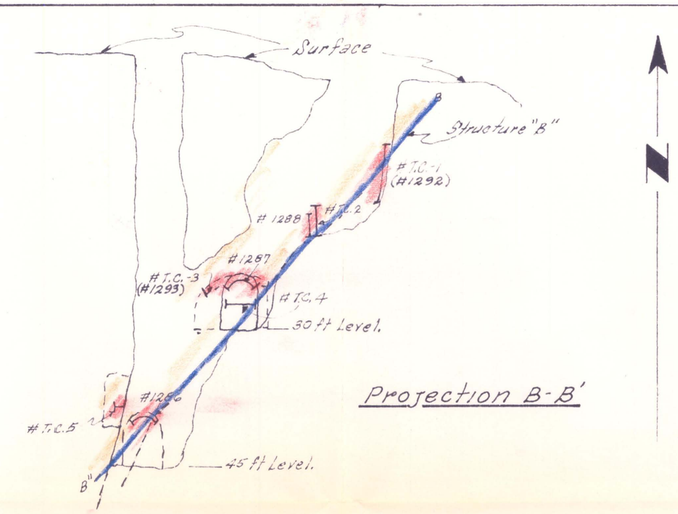


CLAIM MAP
TREASURE CHEST #1
Superstition Mining District
Maricopa County, Arizona
SCALE: 1" = 300 Ft.
June, 1975 R. E. Mieritz

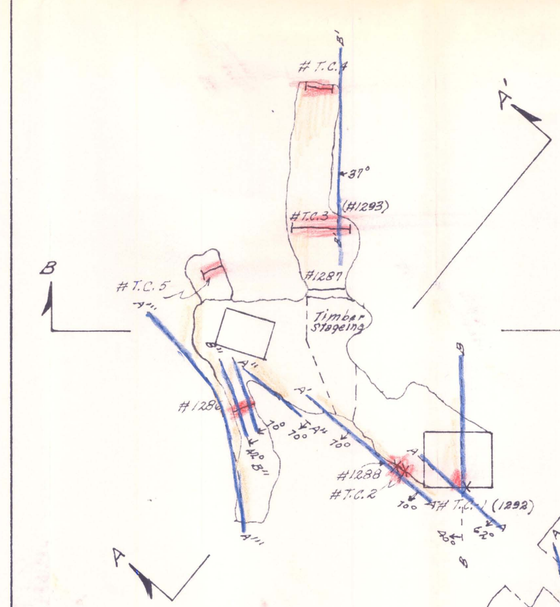
MAP No. 3



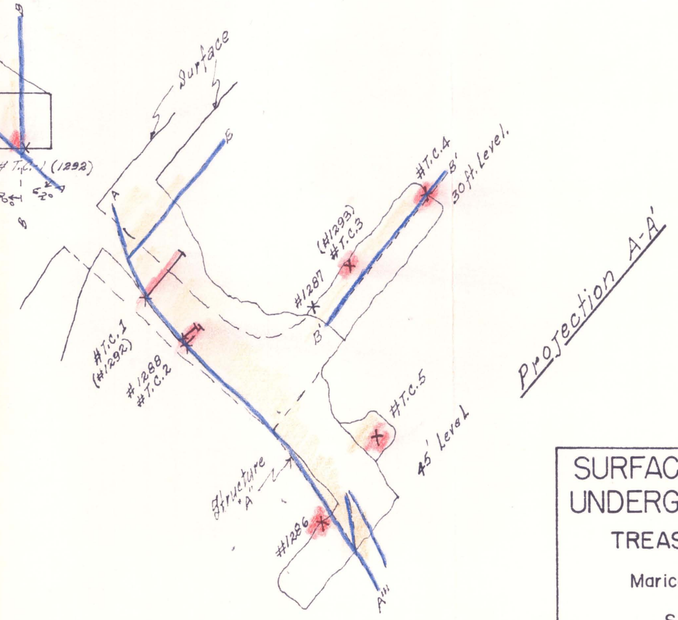
Surface Geology
Treasure Chest Claim



Projection B-B'



PLAN
Underground Workings
Scale: 1"=10ft.



Projection A-A'

NOTE

#T.C. 2 – Samples by Harold Ferrin
#1287 – Samples by R. E. Mieritz
Structures (faults?)
Limonites (FeO_x)
Mineralization (gold-silver)

SURFACE GEOLOGY MAP
UNDERGROUND WORKINGS

TREASURE CHEST CLAIM

Maricopa County, Arizona

SCALES: as shown

JUNE, 1975 R. E. MIERITZ

MAP Nº 4