

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

James Doyle Sell 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.

KEEP THIS ON TOP

File No. Aa-13.23C.3

Subject: Copperland Prospect, White Tank District,
Maricopa and Yavapai Counties, Arizona

JHC. file

JHCourtright's Report File in LIBRARY

SEE ALSO:

White Tank Mountains - Geophysical Surveys by Wayne Farley, May 12, '69

White Tank Mountains - B.W.Copeland Claims by L.J.Jansen, April 21, 1969

Note: Check reports on Lat. Testing as for the intensive.

~~WES~~
J.H.C.
MAY 29 1969

W.E.S.

JUN 5 1969

May 29, 1969

Mr. B.W. Copeland
311 So. Montezuma Avenue
Prescott, Arizona 86301

B.W. Copeland Properties
Maricopa & Yavapai Counties,
Arizona

Dear Mr. Copeland:

I am sending you by registered mail a copy of the geologic map and the geophysical overlay map of our recent work at the White Tank area. Also enclosed is your aerial photograph of the same area. I certainly wish to thank you for your aid and loan of material in this study.

It is good to hear that you've been able to work on the Slate Creek area and that you have some interesting results. What widths samples are you cutting for the assays given?

Unfortunately, other time consuming projects are on top at the present time and I will be unable to get up to see your Slate Creek and other projects for the next several weeks at the earliest.

Sincerely yours,

James D. Sell

JDS:lzb
Encl.

cc: JHCourtright

May 29, 69

READ AND RETURN _____
PREPARE ANSWERS _____ HANDLE _____
FILE _____ INITIALS _____

311 So. Montezuma St.,
Prescott, Arizona
May 22, 1969

J. H. C.

MAY 26 1969

J. H. Courtright,
Chief Geologist,
Southwestern Exploration Dept.,
A. S. & R. Co., Tucson

Dear Mr. Courtright:-

I have your letter of April 25th cancelling out on my desert Copperland property, with paragraph regarding return of aerial photo, etc. So far these have not arrived. However, I did get the final papers on the honorable Silver Crown!!

When the boys were up here I told them about a 14-claim gold and silver property of my own on Slate Creek off the south slope of Mt. Tritle in the area of the Golden Eagle, Davis-Dunkirk, Jersey Lily, Buzzard, Blue Dick, Dosoris and others. At that time I was planning to open a cross-cut tunnel into a vein on up the side of the canyon and they asked to be allowed to examine the entire property when the vein was cut.

Tell them we have intersected the vein and been drifting both north and south on it. At present we are putting in a raise on an ore shoot which showed up to the south. Values are running around 2.02 oz. Au and 32.5 oz. Ag., with a little copper. However, This part will not be of interest to the company.

The part they will be interested in is to the south, where we have a red dike 20 to 30 feet wide running up the side of the canyon wall (lengthwise) for half-a-mile or so. Assays on this run mostly at 10 oz. silver and .02 oz. gold. I think it can be undercut with a bulldozer and many thousands of tons of milling ore taken out from the surface. Also, there are a number of other interesting structure which I will show them. A number of drill holes should be put down from the ridge, as some other strong structures are indicated along it NE-SW. I would like to get a good company on this as soon as I can, so if you can send me Jim Sell, or another good man right away, I would appreciate it. Give him time enough to look over a couple of other properties while he is up here.

Very truly yours,

B. W. Copeland
B. W. Copeland

*I Called This Pm, but
The girl said you were out until Monday.*



AMERICAN SMELTING AND REFINING COMPANY
SOUTHWESTERN EXPLORATION DEPARTMENT
P. O. BOX 5795, TUCSON, ARIZONA 85703

J. H. COURTRIGHT
CHIEF GEOLOGIST
L. P. ENTWISTLE
ASSISTANT CHIEF GEOLOGIST
W. E. SAEGART
ASSISTANT CHIEF GEOLOGIST

1150 NORTH 7TH AVENUE
TELEPHONE 602-792-3010

April 25, 1969

Mr. B.W. Copeland
311 So. Montezuma
Prescott, Arizona

Copperland,
Maricopa Co., Arizona

Dear Mr. Copeland:

This will acknowledge your letter of April 22 regarding Copperland and the COMINCO claims to the west. According to our geologists, COMINCO has staked 74 claims in sections 3, 4, 9 and 10 adjacent to and overlapping the western edge of your claims.

We have completed our examination of the Copperland prospect, which included geologic mapping, geochem sampling of outcrops and magnetic and induced polarization geophysical surveys. After studying the results of this work, we regret to advise that we do not wish to proceed further. Accordingly, we will not enter into a lease, as contemplated in your letter to us of March 14, 1969, and hereby relinquish our exclusive right to examine the property, granted by that letter.

As soon as the drafting of maps is completed, we will forward you copies (including geochem data) and also return your aerial photograph at the same time.

We thank you kindly for bringing this prospect to our attention.

Yours very truly,

J. H. Courtright
J.H. Courtright

JHC:lzb

cc: WESAegart
SIBowditch
JDSell

J. H. C.
APR 22 1969

311 So. Montezuma St.,
Prescott, Arizona
April 22, 1969

Mr. J. H. Courtright,
A. S. & R.
Tucson, Ariz.

Dear Mr. Courtright:-

In our recent telephone conversation you told me the Cominco representative had been staking out claims in the name of his company to the west of my Copperland claims. I drew the conclusion that he had come right up to my lines, but this might have been in error. I had expected him back up here on my Slate Creek silver property, but he has not been up so far and today I wrote him that you had informed me about the claims, asking that he furnish me with his map, using the Ray Lasmanis map as base of reference.

Meantime if your boys want the property and can estimate the distance out they consider essential, I will undertake to have Cominco's Mr. Hugh Moore release the claims to me - those which interfere. I will first try to show him where he is in error and is violating the ethics of the industry by thus taking advantage of the information I gave him; then if necessary take the matter up with his home office. I do not believe they want him to establish such a reputation in Arizona. The other possibility is if he comes to see the Slate Creek property and likes it, I might use that as a leverage to get him to release the claims on the desert. I should be working on the Cominco angle before your time is up on the 2-months option.

Will you please advise?

Sincerely,

B. W. Copeland
B. W. Copeland

P.S.

That was really a fine report the boys prepared on the Silver Crown. Thanks. Too bad the property was not that good.
BWC.



AMERICAN SMELTING AND REFINING COMPANY
EXPLORATION DEPARTMENT
SOUTHWESTERN UNITED STATES DIVISION
P. O. BOX 5795, TUCSON, ARIZONA 85703

J. H. C.
APR 15 1969

1150 NORTH 7TH AVENUE
TELEPHONE 602-792-3010

April 16, 1969

Mr. B. W. Copeland
311 South Montezuma Street
Prescott, Arizona

Silver Crown, Yavapai County

Dear Mr. Copeland:

This is to acknowledge your request of April 13 regarding our work at the Silver Crown Mine and at the Copperland Prospect.

Please find attached our report on the Silver Crown along with copies of the assay results of the sampling we did thereon. Note that SC indicates Silver Crown, the next number indicating drill hole number and the last denoting sample interval. Surface samples have a "J" symbol. Other listings are self-explanatory.

Our report on the Copperland is incomplete as of this date. As soon as our studies are concluded, you will receive all the data you requested.

Sincerely,

R. D. Karvinen

RDK:kc

Enclosure

cc: JHCourtright
WESaegart
JDSell



~~RDK~~

~~WES~~

~~FDS~~

~~SPD~~
J.H.C.

4/14/69

APR 14 1969

311 So. Montezuma St.,
Prescott, Arizona
April 13, 1969

Mr. J. H. Courtright,
A. S. & R.
Tucson, Ariz.

Dear Mr. Courtright:-

Your men showed immediate interest on the Silver Crown mining property and spent considerable time on it over a period of some 3 weeks. By now some time has elapsed since their last visit and they have given me no report. As my clients and at my request and suggestion, they were originally invited to consider the property. Under this circumstance they should give me full report on their findings and their conclusion regarding the property. Will you please instruct them to do this without delay, with copy of assays on samples taken - both drill cores and surface samples?

I would also appreciate intermediate report on progress being made in examination of my Copperland property on the desert.

Very truly yours,

B.W. Copeland
B.W. Copeland

*Called Copeland and reported progress
Agreed to send him all data on both prospects
Data on Silver Crown
sent to Copeland 4-16-69
White Tank Data & Sp data sent May 29, 1969 JHC*

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

1700 W. GRANT RD. • BOX 5934 • 622-4831

TUCSON, ARIZONA 85703

BRANCHES

DOUGLAS, ARIZONA
HAYDEN, ARIZONA
EL PASO, TEXAS
AMARILLO, TEXAS

IDENTIFICATION	GOLD OZS	SILVER OZS	LEAD %	COPPER %	ZINC %	MO. %	IRON %		
Sludge C-7	Nil	0.04		0.04		< 0.001		K.V.D.S.	
								APR 11 1969	
									\$ 0.85
									4.00
									1.75
									3.00
<i>J. H. Courtright</i> 1 sample prepared 1 Au & Ag, single 1 Cu, single 1 Mo, single			REMARKS:		ANALYSIS CERT. BY <i>Richard</i>				
CC: American Smelting & Refining Company ADD: P. O. Box 5795 CITY: Tucson, Arizona 85703 DD: Attn: J. H. Courtright CITY:					PREPARATION \$ 0.85 ANALYSIS \$ 8.75				
ACC: AMERICAN SMELTING & REFINING COMPANY			DATE SPL RECEIVED 4/4/69		DATE COMPL 4/10/69		TUC 342831		\$ 9.60

Copy for LJT

SAMPLE ASSAY RECORD

J. H. C.
APR 11 1969

Property Copperland Claims Drill Cores ☐ Geochemical ☒
 Location White Tank Mts., Arizona Channel/chip ☐ Assay check ☐
 Ownership B. Copeland Grab sample ☒ Other ☐
 Assay Office Rocky Mountain Sampler R. L. Date Nov. 19 1966

Sample Number	Description: Hole number - Trench number Location - Measurements - Rock Type	Width Feet	Cu ppm	Mo ppm		
16460	No. 2 claim - oxidized biotitic monzonite, iron stained, leached		150	3		
16461	No. 2 claim - dozer cut I - Prec. ? coarse granodiorite near Larimide ? biotitic monzonite contact, some chrysocolla		2100	17		
16462	No. 2 claim - dozer cut II - biotitic monzonite partially replaced by amphibolite minor chrysocolla		1350	3		
16463	No. 2 claim - heavily iron stained and sericitized monzonite ?		160	5		
16464	No. 2 claim - oxidized and leached monzonite in dozer cut		350	3		
16465	No. 2 claim - dozer cut - iron stained, oxidized, leached felsite		60	3		
16466	No. 3 claim - old cut - heavily kaolinized and oxidized monzonite near malachite outcrop		6500	6		
16467	No. 3 claim - stream bed - oxidized monzonite near altered felsic outcrop, all iron stained		700	-1		
16468	No. 17 claim - 2" thick breccia fault zone overlying granodiorite		45	3		

SAMPLE ASSAY RECORD

Property Copperland Claims

Drill Cores ☐

Geochemical ☐

Location Page 2

Channel/chip ☐

Assay check ☐

Ownership _____

Grab sample ☐

Other ☐

Assay Office _____

Sampler _____ Date _____ 196__

Sample Number	Description: Hole number - Trench number Location - Measurements - Rock Type	Width Feet	Cu ppm	Mo ppm		
16469	No. 17 claim - Turquoise Mine cut - highly kaolinized, sericitized, leached and oxidized granodiorite ?		825	6		
16470	No. 17 claim - Turquoise Mine shaft - sericitized porphyritic monzonite with pink feldspar phenocrysts	6'	2100	3		
16471	No. 30 claim - 75' shaft partially kaolinized monzonite, contains amphibolite, minor pyrite	75'	2050	3		
16472	No. 35 claim - open cut - completely kaolinized monzonite, iron stained, minor malachite	4'	575	50		
16473	No. 35 claim - inclined shaft - brecciated granite and amphibolite, calcite, minor malachite		2400	3		
16474	No. 47 claim - outcrop - silicified, oxidized and iron stained rhyolite, minor malachite		2000	4		
16475	No. 47 claim - dozer cut - kaolinized granite underlying basalt sill, minor malachite		2300	4		

SAMPLE ASSAY RECORD

Property Copperland Claims

Drill Cores

Geochemical

Location _____ Page 3

Channel/chip

Assay check

Ownership

Grab sample

Other

Assay Office

Sampler

Date _____

196

[illegible]

AMERICAN SMELTING AND REFINING COMPANY
Tucson Arizona

March 20, 1969

MR. ~~WES~~, ~~ERD~~, ~~IRW~~

READ AND RETURN _____

PREPARE ANSWERS _____ HANDLE _____

FILE ✓ INITIALS _____

TO: J.H. Courtright

FROM: J.E. Kinnison

Copper land Prospect
White Tank Mountains
Altered Area
Maricopa County, Arizona

Yesterday I flew a fixed wing plane over the altered zone in the White Tank Mountains, which area is now being mapped by Mr. Sell and others. The color anomaly in this area is large and quite striking, but looks somewhat like volcanics.

Colors ranged from deep red to maroon, and some orange and brown. The tint is best described as in-between "muted" and "brilliant". The texture and color of the rock suggest uncertainty in choice between volcanics and altered---a few old diggings offer a clue that mineralization is present.

One unusual feature is that the color shows best when viewed from the south, or from overhead. Views from the north did not show the color nearly as well.

The helicopter field notes and traverse map show four passes across the area. No stops were made. One note--"rhyolite showing a bright red color from a distance"--is probably within this color zone.

John E. Kinnison
John E. Kinnison

JEK:lzb

cc: WESaegart



AMERICAN SMELTING AND REFINING COMPANY
EXPLORATION DEPARTMENT
SOUTHWESTERN UNITED STATES DIVISION
P. O. BOX 5795, TUCSON, ARIZONA 85703

J.H.C.
MAR 24 1969

S. I. BOWDITCH
PROPERTY MANAGER

W.E.S.

1150 NORTH 7TH AVENUE
TELEPHONE 602-792-3010

March 19, 1969

MAR 25 1969

MR. WES
READ AND RETURN _____
PREPARE ANSWERS _____HANDLE _____
FILE ✓ INITIALS _____

State Land Department
State Office Building
Phoenix, Arizona 85007

Gentlemen:

Enclosed is an application for a prospecting permit
for all of Section 2, T3N, R4W, Maricopa County, and our
check for \$15.00 to cover the filing fee.


Yours very truly,

S. I. Bowditch

S. I. Bowditch

SIB:kc

Enclosure

cc: JHCourtright 
KvdSteinen

MAR 17 1969

AMERICAN SMELTING AND REFINING COMPANY
Tucson Arizona

March 17, 1969

FILE MEMORANDUM

TO: Mr. J.H. Courtright

FROM: Mr. J.D. Sell

B.W. Copeland Properties
Yavapai and Maricopa Counties,
Arizona

The three properties were originally written about in a file memorandum dated January 24, 1969.

Accompanied by L.J. Jansen, I met Mr. Copeland and discussed the three properties and made rapid visits to the Silver Crown and the Copperland properties.

1). Slate Creek. No further work has been done on the property but a visit is slated after his lower tunnel cuts the vein area.

2). Silver Crown. This property, held by the Arizona-Michigan Mining Company, Inc., was investigated through inspection of the roads, drill sites, selected core intervals, and further discussions with Langley Rayner, Manager of the property and a vice-president of the Arizona-Michigan Company, Ken Eakin, geologist. Rayner lives at the property during the week, but can generally be found in Prescott during the weekends. His unlisted phone is Prescott 445-2369. No phone is at the property. Mail can be sent to Box 829, Prescott, Arizona 86301 or to the property o/o Ken Eakin, Star Route Box 46, Kirkland, Arizona 86332. The surface exposures show a wide (3000 ft.) zone of variably altered and colored Yavapai Schist with a strike length of in excess of 6000 feet and probably much longer although the color zone appears to be breaking into stringer type areas to the northeast. The color zone parallels the schistosity which generally trends N 35-40°E. The southwestern half is estimated to contain about 20% of its area as relatively uncolored streaks whereas to the northeast the ratio may be 50-50 to colored and uncolored areas.

Coloration is the main feature although in some zones abundant pyritic-chalcopyritic limonites were noted along the schistosity as well as copper oxide stain and films plus some sericite. The drill core inspected indicates that the massive color essentially terminates between 50 and 90 feet with minor limonitic material present along schistosity to a somewhat greater depth. Sulfides are present at depth with pyrite and chalcopyrite being the major constituents. After the surface inspection, we were informed that a few assays were available. We were able to secure a copy of the assays and they indicated interesting gold-silver values (perhaps averaging +4.0 Ag and +0.2 oz Au). We were unable to secure any core reject samples at the time but they said one composite would be made up and sent along with a copy of the results of the additional 50 assays they expected soon.

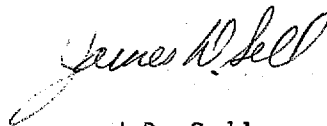
Surface sampling the zone and collection of additional reject samples will be undertaken in the coming week.

3). Copperland. Copeland's area in the White Tank Mountains shows an area characteristic of porphyry copper type alteration-mineralization in porphyries and fine-grained rocks. Abundant jarositic material is present in the area of pervasive kaolin and quartz-sericitic alteration.

The exposed area is out from the main mountain and consists of isolated hills surrounded by alluvium and being some quarter mile wide and a mile and one-half in length. A claim map was secured showing the boundaries and ten drill holes through the area (some for assessment, other somewhat deeper tests by Cominco). No results of the drilling are available and at the drill sites visited no core chips were found.

Geochemical results from mesquite plant ashings are available and I P was also conducted over the area. Only the verbal note that the I P showed a northwest-trending anomaly was forthcoming.

Further discussion with Mr. Copeland is warranted.



J.D. Sell

JDS:ar

J. H. C.

MAR 17 1969

March 14, 1969

AIR MAIL

Mr. Richard T. Fogle
Oil and Mineral Division
Continental Illinois National Bank
and Trust Company of Chicago
231 South LaSalle Street
Chicago, Illinois 60690

Copper Prospect - White Tank Mountains, 30 Miles Northwest of Phoenix, Arizona

Dear Sir:

We wish to acknowledge your letter of March 7, 1969, pertaining to 20 mining claims in the White Tank Mountains about 30 miles northwest of Phoenix, Arizona.

If you would send a copy of the consultant's report you mention and the location maps to Mr. J. H. Courtright, Supervisor, American Smelting and Refining Company, P.O. Box 5795, Tucson, Arizona, who is in charge of property investigations in the South-western United States, he will be glad to study the information and let you know, in due course, whether or not we would be interested in pursuing the matter further.

Thanking you for your consideration in bringing the matter to our attention, I am

Very truly yours,

C. P. Pollock

CC-JHCourtright - with enclosure

*Miss
Pl ask him
to send complete
information to
Mr. Conright.*

CONTINENTAL ILLINOIS NATIONAL BANK

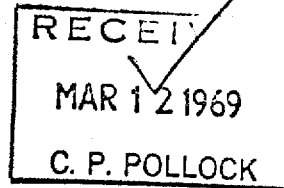
AND TRUST COMPANY OF CHICAGO

231 SOUTH LASALLE STREET CHICAGO, ILLINOIS 60690

REAL ESTATE DEPARTMENT

March 7, 1969

Mr. C. P. Pollock
Vice President - Exploration
American Smelting & Refining Co.
120 Broadway
New York, New York 10005



Dear Sir:

This bank is administering an estate which holds ownership of 20 mining claims in central Arizona. These claims were acquired by the decedent as a possible deposit of copper ore.

During the past several months, we have had the boundaries of these claims re-established and have also had a geochemical sampling program conducted across the claims. In the opinion of the consultant, who performed the geochemical survey for us, the results of the program indicate that at least a portion of the claims merit further exploration work.

Rather than becoming involved in further activity in a location difficult for us to supervise properly, we are at this time informing a selected group of firms, including yours, of the availability of these claims for exploration and development. Our intent is to have these claims receive proper evaluation and hopefully to be developed further under mutually equitable terms, if the mineral content is such as to justify a development program.

The claims are located in the White Tank mountains about 30 miles northwest of the city of Phoenix, Arizona. They are easily accessible and we are advised that the title to them is clear. We would be pleased to furnish copies of location maps and the consultant's report regarding the claims if you desired. We would appreciate being advised if your firm has any interest in examining these properties.

Very truly yours

Richard T. Fogle
Richard T. Fogle
Oil and Mineral Division

RTF:BS

Copperland Prospect
White Tanks District
Maricopa County, Arizona

March 14, 1969

J. H. C.

MAR 14 1969

311 So. Montezuma
Prescott, Arizona

American Smelting and Refining Co.,
Exploration Department
P.O. Box 5795
Tucson, Arizona 85703

Attention: J.H. Courtright

Dear Mr. Courtright:

I hereby grant American Smelting and Refining Company the exclusive right to examine my Copperland property, which consists of the Copperland group of thirty-six (36) unpatented lode mining claims in the White Tanks district of Maricopa County in T3N, R4W, for a period ending May 14, 1969.

If on or before May 14, 1969, you decide that you wish to explore and develop the claims, you shall so notify me in writing, and I agree to enter into a lease and option agreement which shall contain, among other provisions, the following terms and conditions:

Term of Agreement: 25 years

Minimum annual royalty: \$5,000 on signing, \$1,000 a month after six months, after one year \$2000/month.

Royalty on Production: 5% of net smelter returns

Purchase price: \$1,500,000. All royalties and minimum annual royalties to apply upon the purchase price.

Minimum work requirements: 4000 feet of drill hole to be drilled on the property during the first 12 months of the agreement.

You may stake other claims to protect the area either before or after May 14, but if you do not enter into the proposed agreement, or do enter but later cancel before production is had, you shall, at my written request, convey to me any claims located by you within two miles of the present perimeter of the Copperland group. Such claims shall be included in the agreement for the purpose of computing royalties.

Yours very truly,

Agreed J. H. Courtright
J.H. Courtright

B.W. Copeland

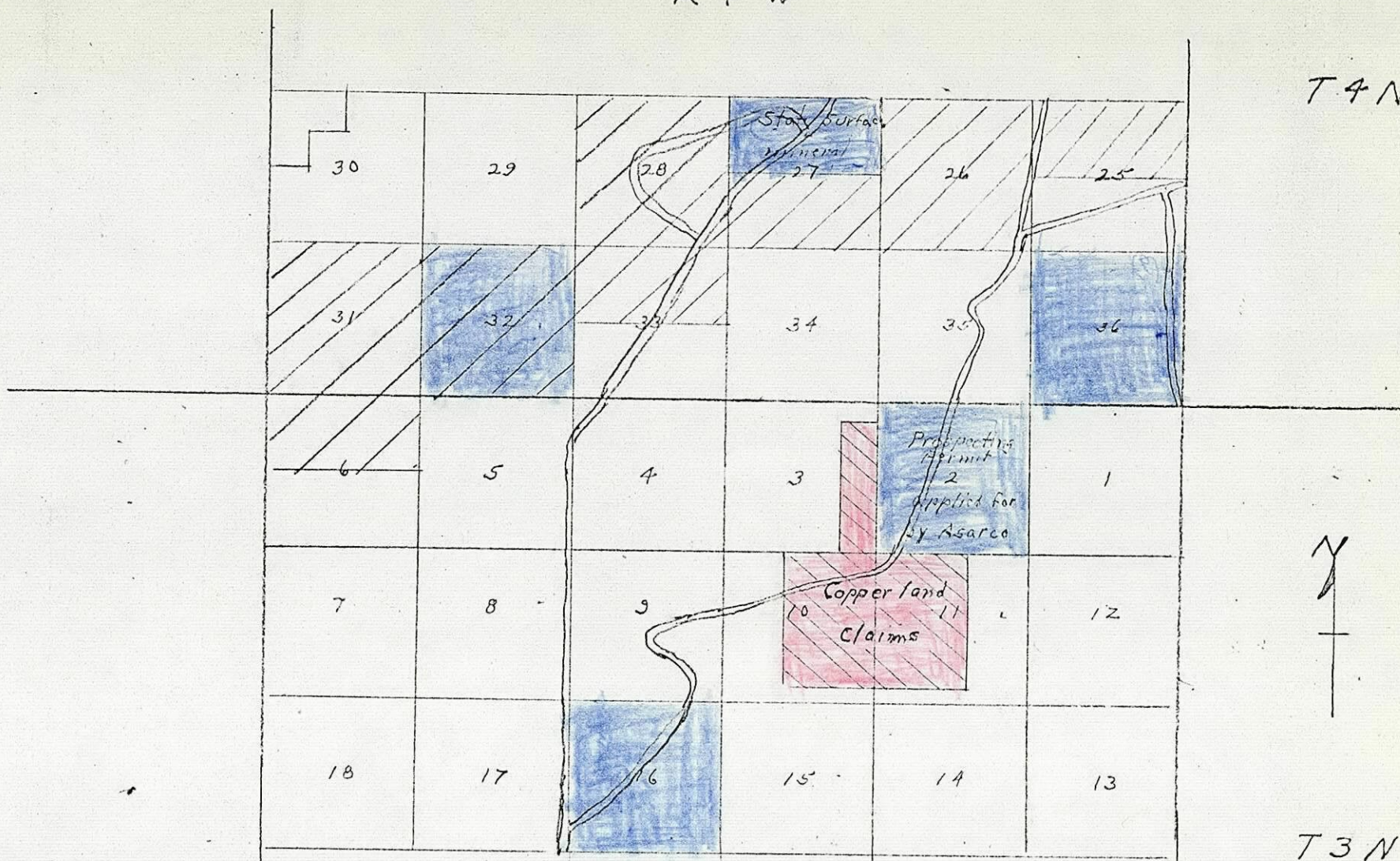
B.W. Copeland




March 14, 1969

cc: WES
JOS

R 4 W

T 4 N



-  Reclamation Withdrawal
-  State mineral. Federal Surface
-  Public Domain

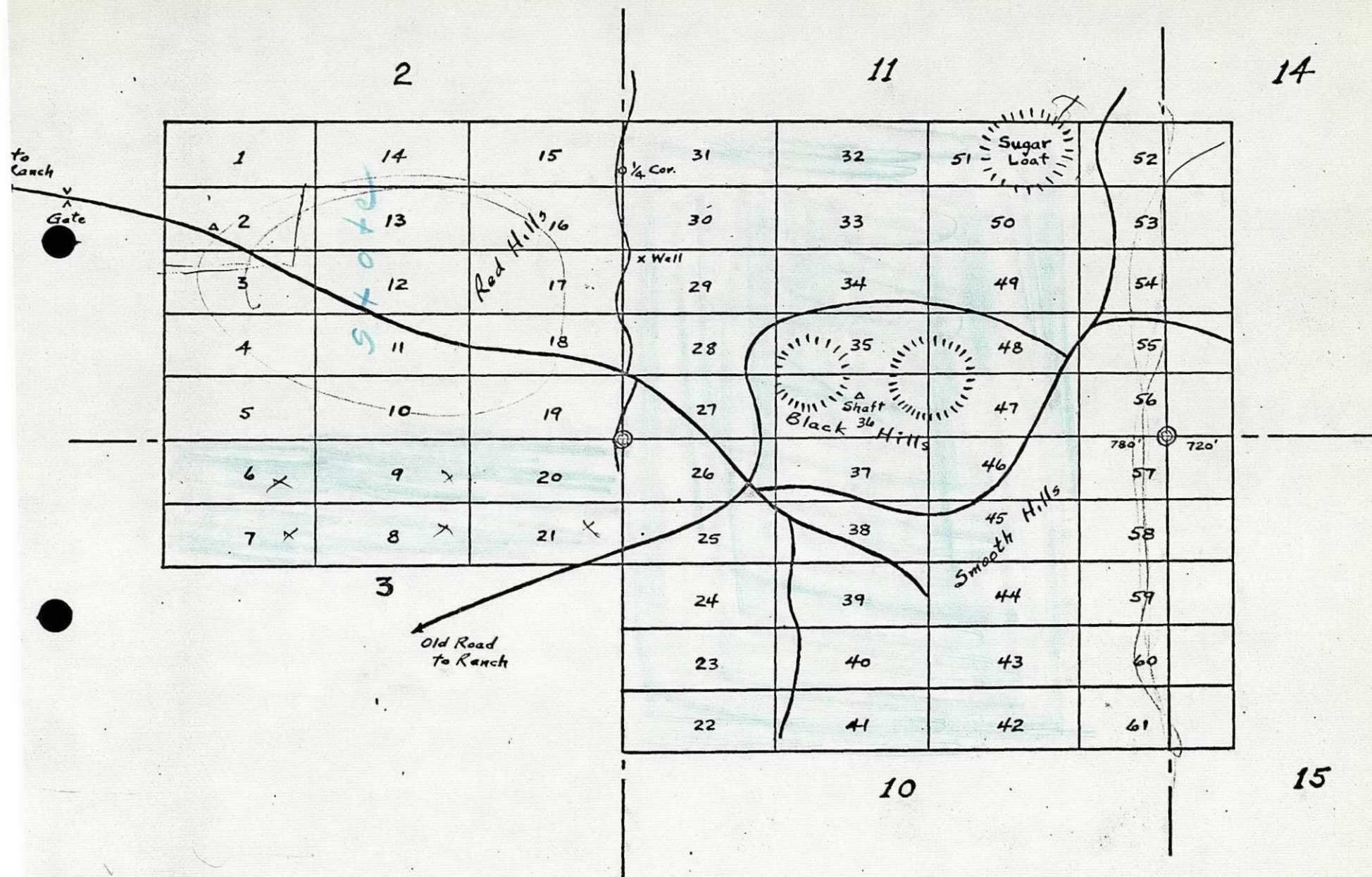
T 3 N

COPPERLAND
PROSPECT
White Tanks District
Maricopa County
Arizona
1" = 12 mile

Copperland Claims

B.W. Copeland, Locator

See own map - 1001
Ryan.



W.E.S.
FEB 6 1969

J.H.C.
JAN 24 1969

AMERICAN SMELTING AND REFINING COMPANY
Tucson Arizona

January 24, 1969

MR. WES
READ AND RETURN ✓
PREPARE ANSWERS HANDLE
FILE INITIALS

FILE MEMORANDUM

TO: J.H. Courtright
FROM: J.D. Sell

B.W. COPELAND PROPERTIES
YAVAPAI & MARICOPA COS.,
ARIZONA

Mr. B.W. Copeland of Copeland Realty Company, 311 So. Montezuma, Prescott, phone 445-5426, has brought to our attention three properties.

1) Slate Creek. This property is approximately 9.5 miles east of Wilhoit in unsurveyed Section 8, T12N, R2W between Slate Creek and Buzzard Roost Wash (to the west) and less than a mile south of the Buzzard Mine (Mt. Union 15' Quad.). Mr. Copeland is opening a gold-quartz vein running 1-4 feet in width with a representative sample running 2.4 oz gold, 70.5 oz silver, and 8.32% copper. Mr. Copeland believes that a similar quartz vein lies 100 feet further east and that the intervening ground contains values.

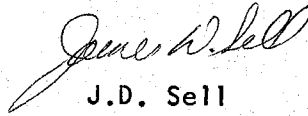
2) Silver Crown. This property lies east of the Zonia property in approximately Section 7, T11N, R3W. Presently it is controlled by the Arizona-Michigan Company, Mr. Langley Rayner--Manager, Mr. Ken Eakin--Geologist, Mr. B.W. Copeland--Broker. Some 12 to 15 holes have been drilled and suggests a mineralized zone some 3000 feet wide. The zone is in schist and shows strong oxidized pyrite copper zones with abundant oxide-silicate copper minerals as well as copper pitch. Some of the schist is highly bleached while other parts are quite fresh, as shown by specimens brought by Mr. Copeland. Area on the Kirkland 15' Quad.

3) Copperland. This area is north of Buckeye on the northwest side of the White Tank Mountains (White Tank Mtns. 15' Quad.) in Sections 2, 3, 10, 11 of T3N R4W. Cominco drilled ten holes in the area two years ago, ranging from 60 to several hundred feet, but apparently encountered no encouraging values. They also collected soil and rock chip samples and found a weak anomaly. Some IP was done and a northwest trend was found. Molybdenum geochems were run on mesquite leaves collected in the area and a broad geochem high was found over the area. Many samples were in excess of 20 ppm Mo in the ash analysis.

Mr. Copeland has apparently been around mining for some time. In all three properties he insists that he accompany any examination. Of

1/24/69

the three, the Silver Crown looks and sounds the most interesting, but the limits probably can be shown in exposures. Information on all core, assays, etc., can be secured. The Copperland area is mostly under alluvial cover and may constitute an important lead if the IP results could be strengthened. Copeland does not have either the IP nor the core drilling information, but does have the moly geochem analysis.



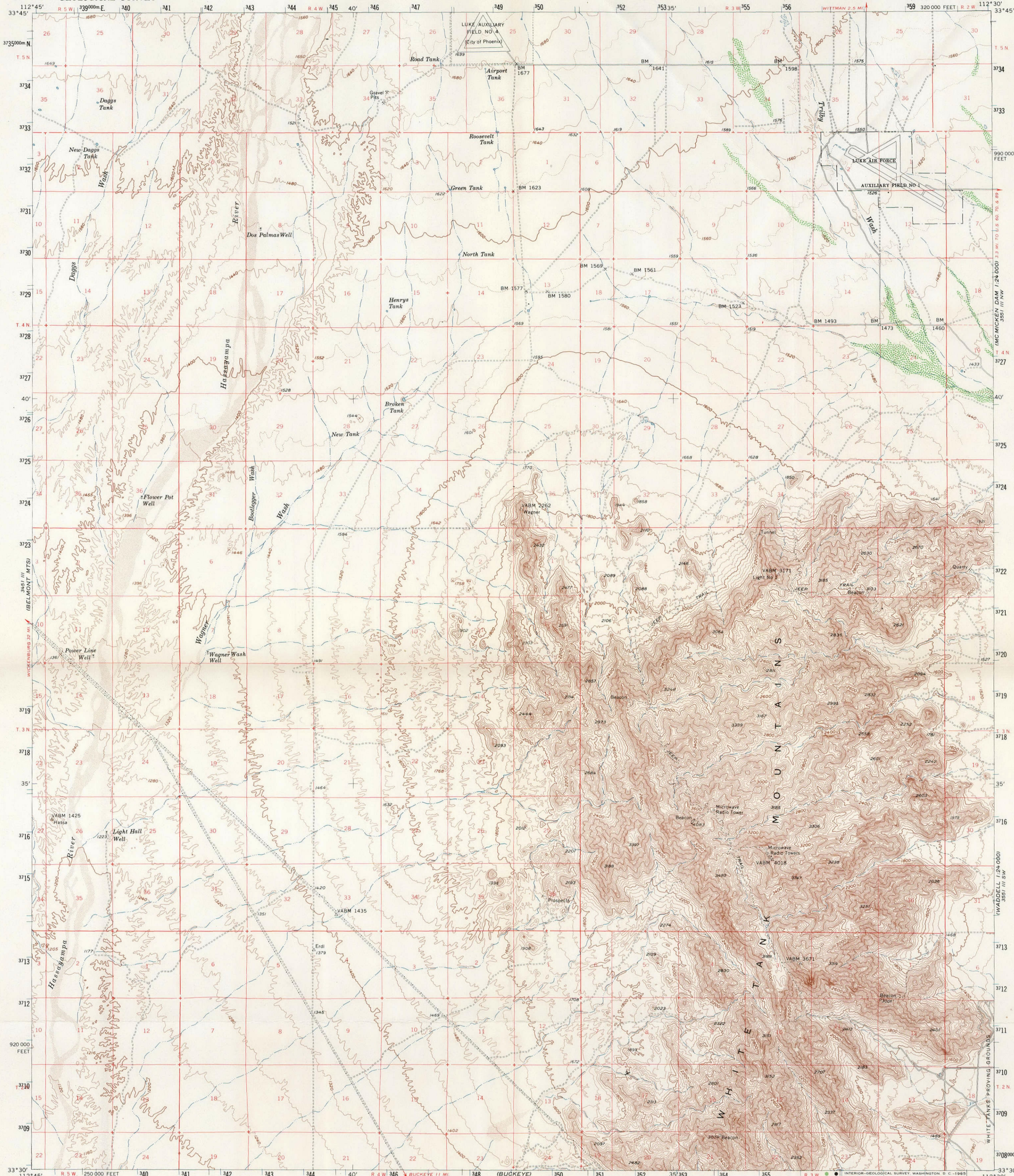
J.D. Sell

JDS:1zb

340° N
340° W

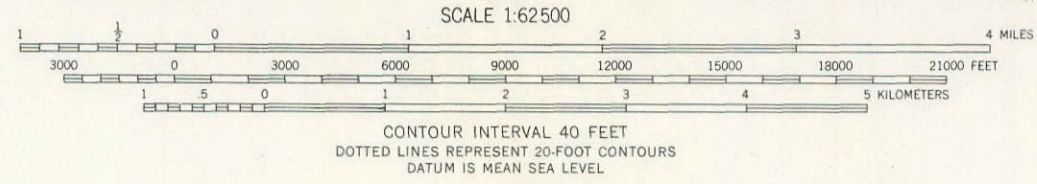
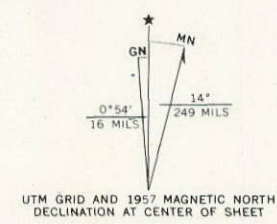
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WHITE TANK MTS. QUADRANGLE
ARIZONA-MARICOPA CO.
15 MINUTE SERIES (TOPOGRAPHIC)



340° N
340° W

Mapped, edited, and published by the Geological Survey
Control by USGS, USC&GS, and U.S. Bureau of Reclamation
Topography from aerial photographs by photogrammetric methods
Aerial photographs taken 1954-1955. Field check 1957
Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system,
central zone
1000-meter Universal Transverse Mercator grid ticks,
zone 12, shown in blue
Dashed land lines indicate approximate locations
Land lines surveyed in parts of T. 3 N., R. 3 W.
Unchecked elevations are shown in brown



ROAD CLASSIFICATION
Light-duty ——— Unimproved dirt - - - - -

The east half of this area is also covered by 1:24,000
scale maps of White Tank Mts. NE and White Tank Mts. SE,
7.5 minute quadrangles, surveyed 1957

WHITE TANK MTS., ARIZ.
N3330-W11230/15

1957

AMS 3451 II-SERIES V798

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

SAMPLE ASSAY RECORD

Property Copperland Claims Drill Cores ☐ Geochemical ☒
 Location White Tank Mts., Arizona Channel/chip ☐ Assay check ☐
 Ownership B. Copeland Grab sample ☒ Other ☐
 Assay Office Rocky Mountain Sampler R. L. Date Nov. 19 1966

Sample Number	Description: Hole number - Trench number Location - Measurements - Rock Type	Width Feet	Cu ppm	Mo ppm		
16460	No. 2 claim - oxidized biotitic monzonite, iron stained, leached		150	3		
16461	No. 2 claim - dozer cut I - Prec. ? coarse granodiorite near Larimide ? biotitic monzonite contact, some chrysocolla		2100	17		
16462	No. 2 claim - dozer cut II - biotitic monzonite partially replaced by amphibolite minor chrysocolla		1350	3		
16463	No. 2 claim - heavily iron stained and sericitized monzonite ?		160	5		
16464	No. 2 claim - oxidized and leached monzonite in dozer cut		350	3		
16465	No. 2 claim - dozer cut - iron stained, oxidized, leached felsite		60	3		
16466	No. 3 claim - old cut - heavily kaolinized and oxidized monzonite near malachite outcrop		6500	6		
16467	No. 3 claim - stream bed - oxidized monzonite near altered felsic outcrop, all iron stained		700	-1		
16468	No. 17 claim - 2" thick breccia fault zone overlying granodiorite		45	3		

SAMPLE ASSAY RECORD

Property Copperland Claims

Drill Cores ☐

Geochemical ☐

Location Page 2

Channel/chip ☐

Assay check ☐

Ownership _____

Grab sample ☐

Other ☐

Assay Office _____

Sampler _____ Date 196

Sample Number	Description: Hole number - Trench number Location - Measurements - Rock Type	Width Feet	Cu ppm	Mo ppm		
16469	No. 17 claim - Turquoise Mine cut - highly kaolinized, sericitized, leached and oxidized granodiorite ?		825	6		
16470	No. 17 claim - Turquoise Mine shaft - sericitized porphyritic monzonite with pink feldspar phenocrysts	6'	2100	3		
16471	No. 30 claim - 75' shaft partially kaolinized monzonite, contains amphibolite, minor pyrite	75'	2050	3		
16472	No. 35 claim - open cut - completely kaolinized monzonite, iron stained, minor malachite	4'	575	50		
16473	No. 35 claim - inclined shaft - brecciated granite and amphibolite, calcite, minor malachite		2400	3		
16474	No. 47 claim - outcrop - silicified, oxidized and iron stained rhyolite, minor malachite		2000	4		
16475	No. 47 claim - dozer cut - kaolinized granite underlying basalt sill, minor malachite		2300	4		

[illegible]