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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: COPPERLAND

ALTERNATE NAMES:
COPPER CHIEF
DESERT COPPER

MARICOPA COUNTY MILS NUMBER: 453

LOCATION: TOWNSHIP 3 N RANGE 4 W SECTION 11 QUARTER W2
LATITUDE: N 33DEG 37MIN 08SEC LONGITUDE: W 112DEG 38MIN 11SEC
TOPO MAP NAME: WAGNER WASH WELL - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

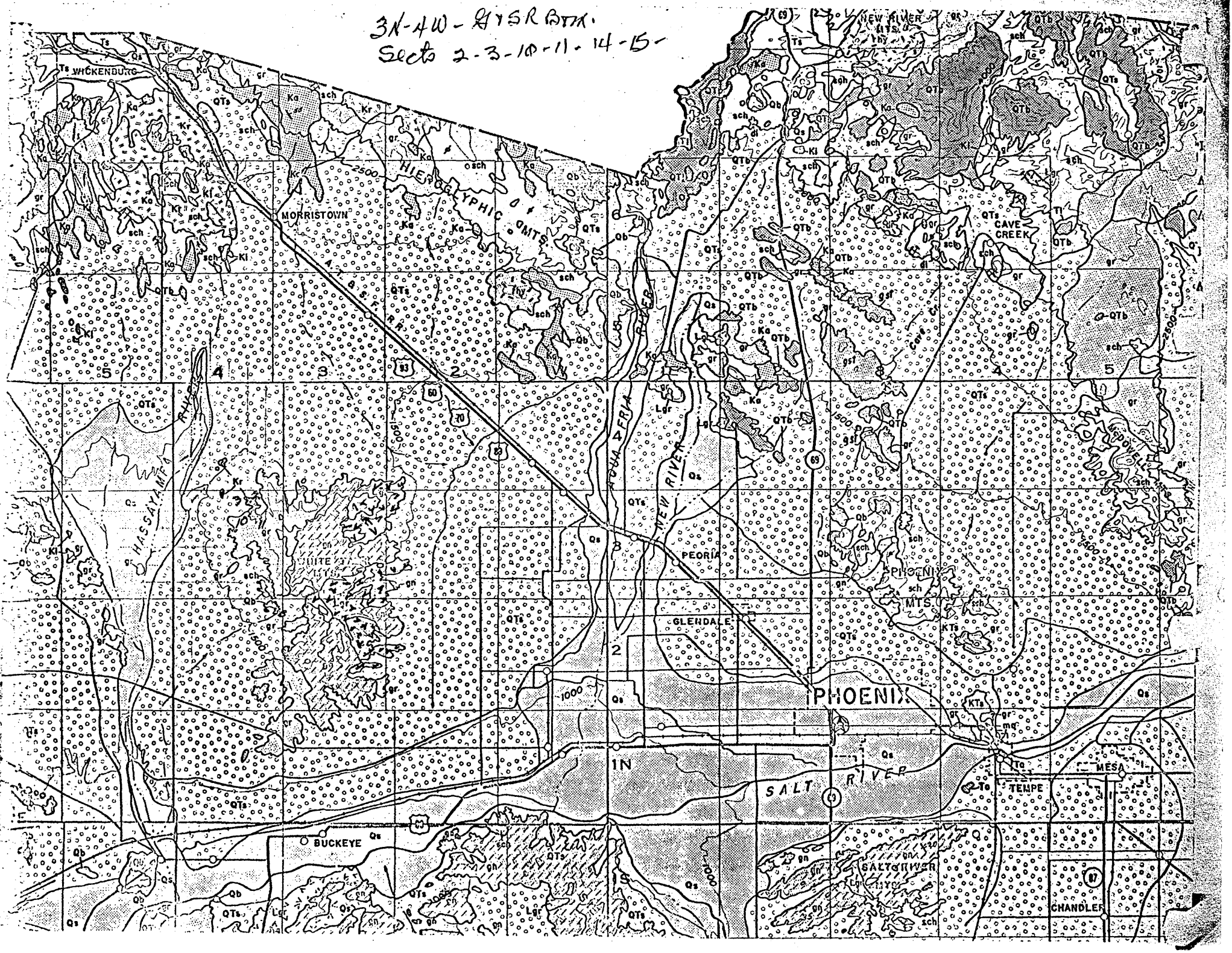
COMMODITY:
COPPER SULFIDE
MOLYBDENUM

BIBLIOGRAPHY:
ADMMR COPPERLAND FILE
ADDITIONAL CLAIMS SEC 2,3,10,14 & 15-T3N-R4W

REFERENCES

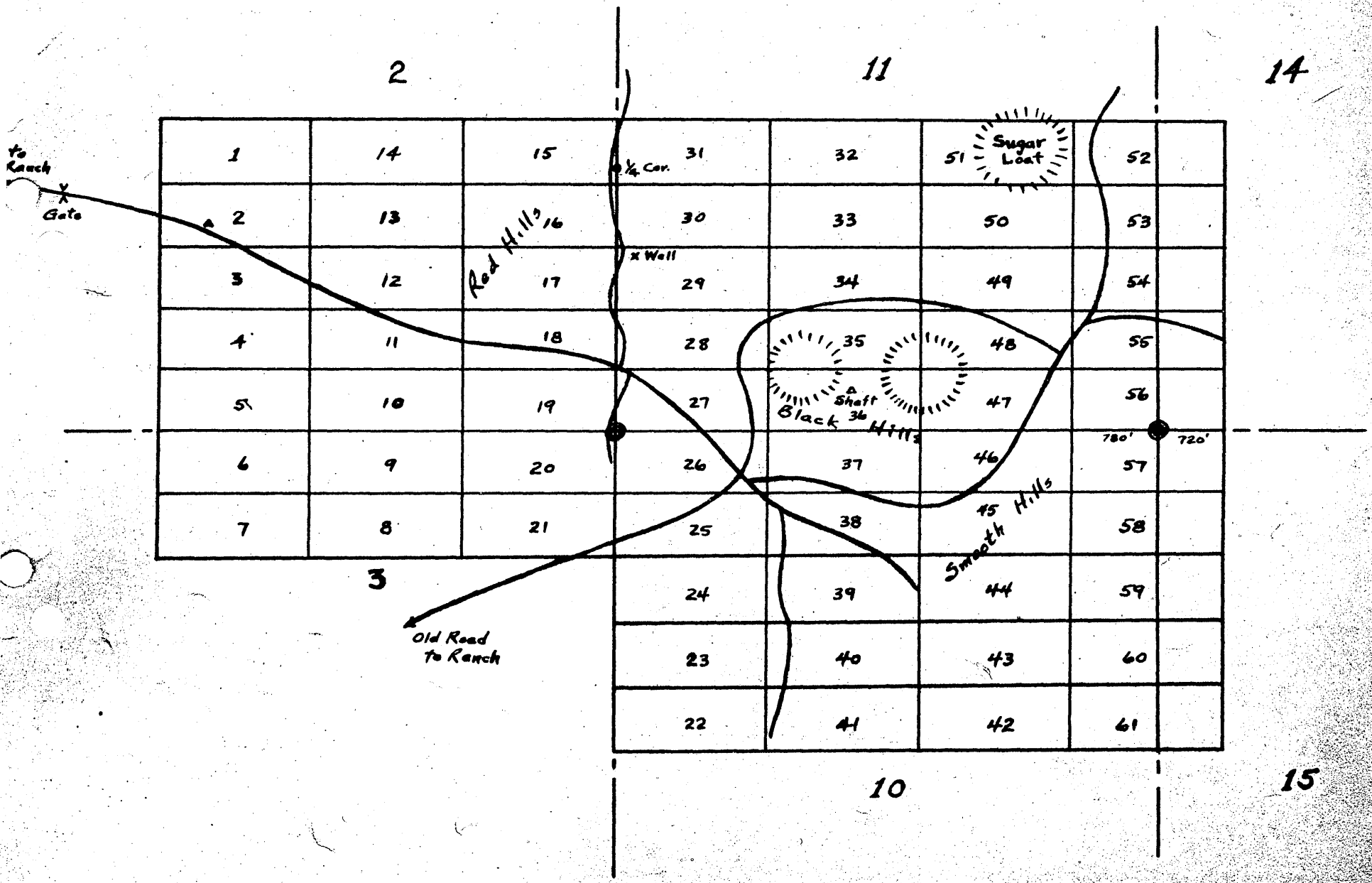
GW WR 2/22/77
MILS Sheet sequence number 0040130224

3N-4W-G&SRB&M.
Sects 2-3-10-11-14-15-



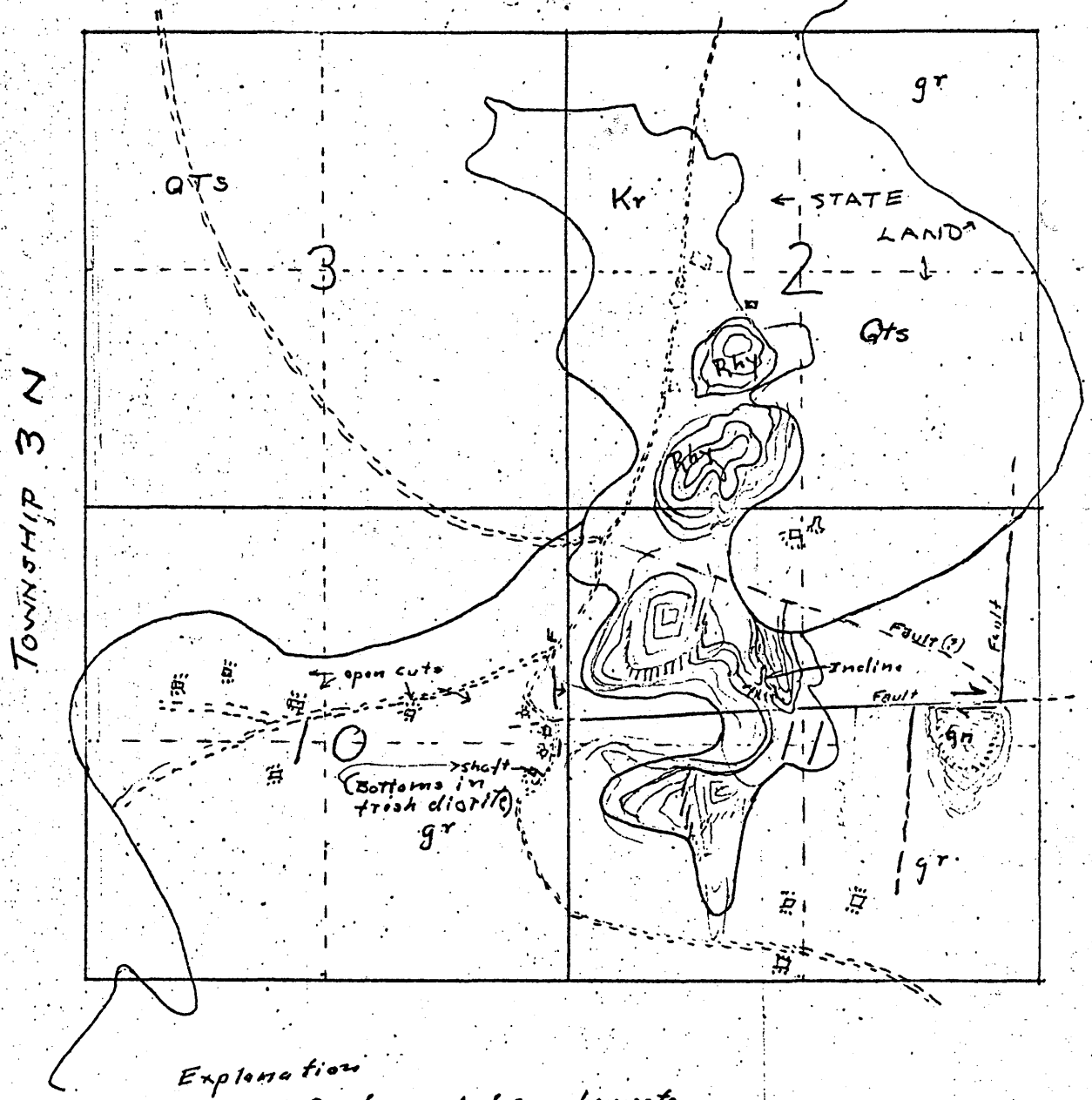
Copperland Claims

B.W. Copeland, Locator



MARICOPA COUNTY, ARIZONA

RANGE 4 W.



Explanation

QTs --- Sand, gravel, & conglomerate

Kr --- Rhyolite (Cretaceous ?) Rhy (Precambrian)

gr --- Granite & related crystalline rocks (Precambrian)

gn --- Granite gneiss Old PreCambrian

Sketch only
A.H.G. 4-22-65

COPPERLAND MINE MARICOPA CO.

Mr. Copeland said Kaiser drilled two 200 foot holes on his copper claims on the northwest end of the White Tank Mountains and quit. He is now trying to get someone to drive a crosscut to his 2 or 3 veins in Slate Creek couth of Wilhoit. He says he has found a 100 foot thick deposit of tuff that assays 0.25 ounces of both gold and silver in Slate Creek. GW WR 1/27/72

Kaiser is reported to have drilled two holes, of unknown depth, on the B.W. Copeland monzonite claims at the northwest end of the White Tank Mtns. and moved off. GW WR 2/72

Mr. Copeland of Prescott said Kallium Chemicals Ltd., hadn't taken either his Slate Creek or White Tanks properties. He said there was no activity presently in Copper Basin. GW WR 9/20/72

WR/GW 2/24/78 - Dom De Paulo BLM, Phoenix, called for information on ore potential near the northwest end of the White Tank Mountains. He was told of the Copperland Copper claims in that vicinity. He said Bear Creek had staked claims in the area last year. Perhaps Mr. Copeland, Prescott, has allowed his claims in the area to lapse. 10/19/78 a.p.

KP/WR 9/10/79 - Mr. Brooks Copeland reported his Copperland Claims, White Tanks Dist., Mar. Co., are still leased to Kallium Chemicals Limited, a subsidiary of P.P.G. Industries. He is reportedly receiving $1000 per month. He referred to the property as his Desert Copper Mine.

Intra-Company Correspondence

SHATTUCK DENN MINING CORPORATION
and
SUBSIDIARIES

Humboldt Office

Date June 1, 1966

TO: C. R. Sundeen

FROM: J. Olaf Sund

SUBJECT: COPPER CHIEF CLAIMS
RENAMED COPPERLAND CLAIMS
% B.W. COPELAND
311 So. Montezuma--Phone 445-5426

TYPE: Copper

LOCATION:
The claim group contains about 51 claims in all and more are being added. They are located some 15 miles south of Morristown, Arizona on the west flank of the White Tank Mountains and are reached via unimproved dirt roads. Specifically they are in sections 2,3,10 and 11, Township 3 north and Range 4 west.

INTRODUCTION:
The claims were previously examined and turned down by L. Astudillo in May 1965. However, supposedly new trenching with a bulldozer uncovered zones of copper mineralization that included bornite and cuprite. Some molybdenum oxide was associated with the copper minerals. Samples of Copeland's suggested a second look.

GEOLOGY:
The property is underlain by Precambrian volcanic flow rocks. These are mainly rhyolitic with some andesitic interbeds. They strike approximately north and south and dip westwards at ± 45 degrees. The rhyolite flows are the most abundant and are characteristically a pale greyish unit with numerous quartz eyes and feldspar phenocrysts.

The lavas are cut by numerous fine-grained mafic dikes and medium to coarse-grained granitic or dioritic dikes. The latter are of irregular shapes and are undoubtedly related to the granite massif in the White Tank Mountains. The mafic dikes are distinctly younger than the volcanic units. They have a general northwest-southeast or northeast-southwest strikes and steep west dips. They are generally 10 to 20 feet wide but at least one is some 50 feet wide.

MINERALIZATION:
Near the contacts of the mafic dikes and the volcanic flow rocks there is some very minor mineralization, especially within the more sheared parts. At two places disseminated pyrite and chalcopyrite and a few veins of cuprite occur but generally it is only very slightly disseminated pyrite.

Copperland Mine
Sec. 2, 3, 10, 11, 14, 15 T. 3 N., R. 4 W.
Maricopa County

reference: Arizona Dept. of Mineral Resources
Copperland Mine (file)

present owner:

minerals: copper, molybdenum

history of the area:
this property was originally the Copper Chief mine and apparently only some shallow surface work was done. By 1968 the Copperland was owned by B.W. Copeland of Prescott, Az. In 1965 it was determined by Louis Astudillo Jr. of the Shattuck Denn Mining Corporation and Subsidiaries that the property was not worth developing. There has been no activity since 1972.

geology of the area:
there is red rhyolite and porphyry in the area. The mine property is in the foothills of the White Tank Mts. which are primarily of granite

ore body:
surface showings are frequent over an area of 1 mile wide by 2 miles long

assay: 1966
Cu 45 to 6500 ppm
Mo <1 to 50 ppm

property consists of 100 unpatented lo[illegible]

DEPARTMENT OF MINERAL RESOURCES
State of Arizona
MINE OWNER'S REPORT

Date Jan. 15, 1968

1. Mine: Copperland
2. Location: Sec. 2-3-10-11 14-15 Twp. 3 N. Range 4 W. Nearest Town Wittman Distance 15 M.
   Direction So. Nearest R.R. AT&SF - Wittman Distance ✓
   Road Conditions Desert trail - fair.
3. Mining District and County: White Tanks - Maricopa
4. Former Name of Mine: Copper Chief
5. Owner: B. W. Copeland
   Address: 311 So. Montezuma St. Prescott
6. Operator: ✓
   Address: ✓
7. Principal Minerals: Copper + Mo.
8. Number of Claims: Lode 100 Patented ..... Unpatented X
   Placer ..... Patented ..... Unpatented .....
9. Type of Surrounding Terrain: Red Rhyolite + Porphyry
10. Geology and Mineralization: White Tank mountains proper are Granite. These are foot-hills and the area runs out into the desert.
11. Dimension and Value of Ore Body: Surface showings frequent over area of 1 mile wide - 2 miles long.

Please give as complete information as possible and attach copies of engineer's reports, shipment returns, maps, etc. if you wish to have them available in this Department's files for inspection by prospective leasors or buyers.

(over)

12. Ore "Blocked Out" or "In Sight": Only surface workings and other showings of copper. Three or four definite veins showing.

Ore Probable: Probably will require underground mining, although strong mineralization indicated. Some surface flows.

13. Mine Workings—Amount and Condition: Nothing of consequence.

No.	Feet	Condition
Shafts		
Raises		
Tunnels		
Crosscuts		
Stopes		

14. Water Supply: Stock tank on adjoining ranch from which we have permission to take drill water.

15. Brief History: Only shallow surface workings by old timers. Rest of white tanks area barren, so this overlooked.

16. Remarks:

17. If Property for Sale, List Approximate Price and Terms: Prefer lease basis.

18. Signature: Bill Copeland

311 So. Montezuma St.
Prescott, Ariz - 86301
Phone 445-5426

SAMPLE ASSAY RECORD

Property: Copperland Claims

Location: White Tank Mts., Arizona

Ownership: R. Copeland

Assay Office: Rocky Mountain

Drill Cores . . . . . [ ]

Channel/chip . . . . . [ ]

Grab sample . . . . . [X]

Geochemical . . . . . [X]

Assay check . . . . . [ ]

Other . . . . . [ ]

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 - oxidised biotitic monzonite, iron stained, leached		150		3		
16461	No. 2 claim - dozer cut I - Prec. ? coarse granodiorite near Laramide ? 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

Location: Page 2

Ownership:

Assay Office:

Drill Cores ..... ☐ Geochemical ..... ☐

Channel/chip ..... ☐ Assay check ..... ☐

Grab sample ..... ☐ Other ..... ☐

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 kaolinised, sericitised, leached and oxidised granodiorite ?		825		6		
16470	No. 17 claim - Turquoise Mine shaft - sericitised porphyritic monzonite with pink feldspar phenocrysts	6'	2100		3		
16471	No. 30 claim - 75' shaft partially kaolinised monzonite, contains amphibolite, minor pyrite	75'	2050		3		
16472	No. 35 claim - open cut - completely kaolinised 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, oxidised and iron stained rhyolite, minor malachite		2000		4		
16475	No. 47 claim - dozer cut - kaolinised granite underlying basalt sill, minor malachite		2300		4		

SAMPLE ASSAY RECORD

Property: Copperland Claims

Location: Page 3

Ownership:

Assay Office:

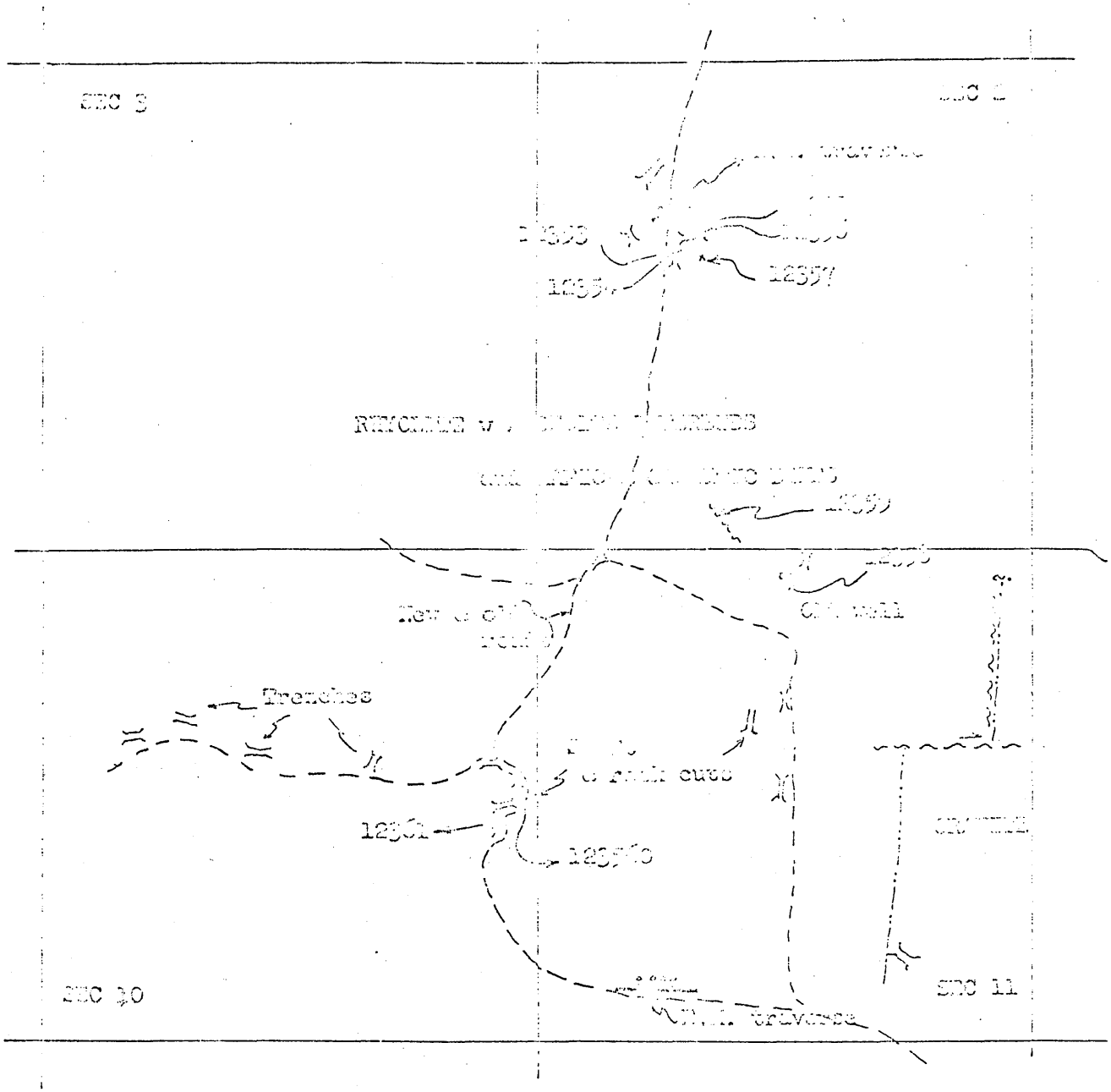
Drill Cores ..... ☐ Geochemical ..... ☐

Channel/chip ..... ☐ Assay check ..... ☐

Grab sample ..... ☐ Other ..... ☐

Sampler: Date: 196

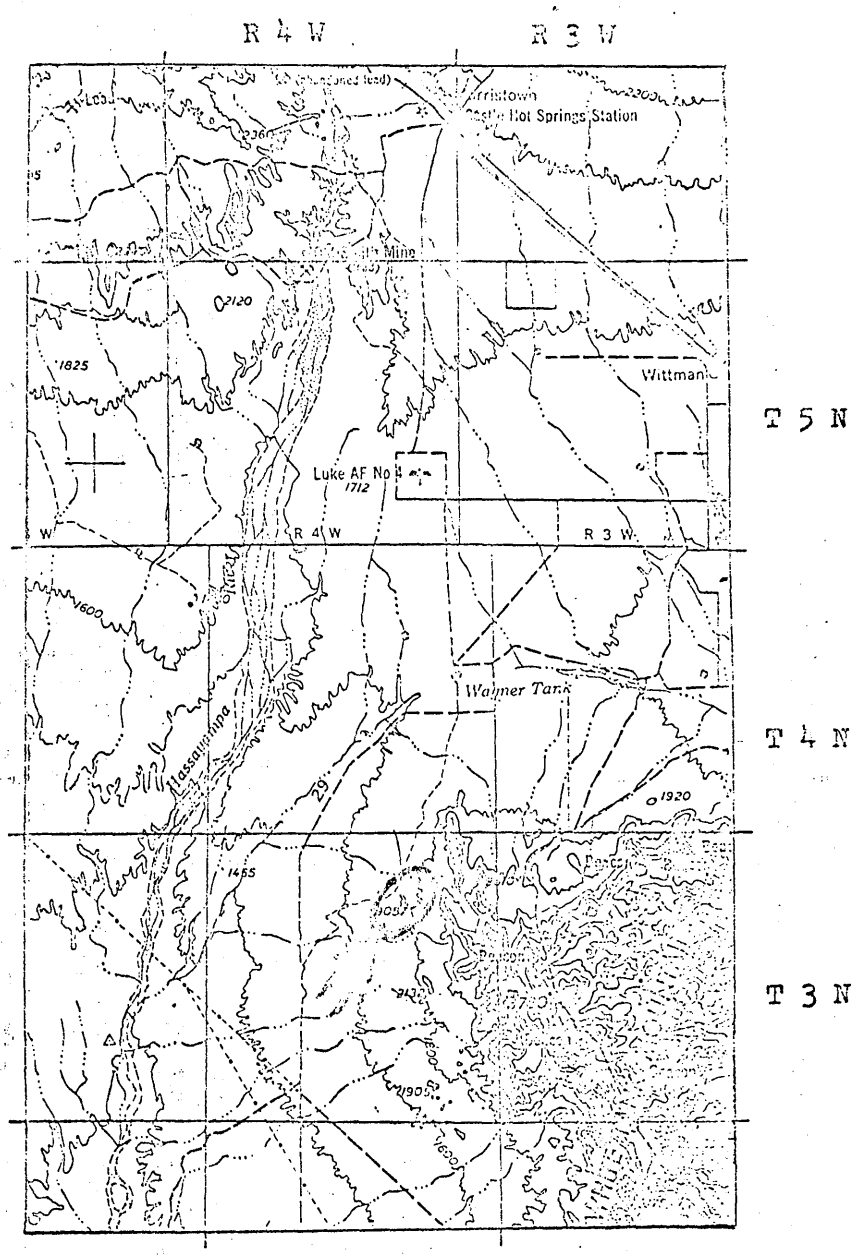
Sample Number	Description: Hole number - Trench number Location - Measurements - Rock Type	Width Feet	Cu ppm		Mo ppm		
16476	No. 49 claim - dozer cut - quarts-feldspar granite, kaolinized, sheared, secondary pink feldspar		195		1		
16477	No. 23 claim - dozer cut - fractured felsite, minor chrysocolla		400		1		



BAUTER LOCATION PLAN M. MINERALS

ON COTTONWOOD COUNTY CHIEF CLAIMS

Scale (approximately) 1 in : 1 mi



LOCATION OF B. W. COPELAND'S COPPER CHIEF CLAIMS

Scale 1 : 250,000.

Intra-Company Correspondence

SHATTUCK DENN MINING CORPORATION

and

SUBSIDIARIES

Copperland

Humboldt Office

Date May 24, 1965

TO: Mr. Curtis Sundeen

SUBJECT: Copper Chief Prospect
Morristown, Arizona

The Copper Chief Claim Group examined May 12, 1965, is located approximately three miles south of Morristown, Arizona, on the west flank of the White Tank Mountains. Access to the property is over fifteen miles of unimproved dirt roads and trails. Mr. B. W. Copeland of Prescott, Arizona and associates have staked twenty-five claims in this area. However, validation work has not been done on any of these claims.

Visible copper mineralization consists mainly of chrysocolla, malachite and tenorite, and is restricted, for the most part, to shears and fracture zones in dioritic rocks and andesite dikes in the area. The prevalent rocks found on the property are Pre-Cambrian andesites and rhyolite tuffs. These Pre-Cambrian rocks were intruded and altered by dioritic stocks and andesite dikes of Cretaceous age. Erosion remnants of tertiary basalt flows and agglomerates are visible on the higher hills.

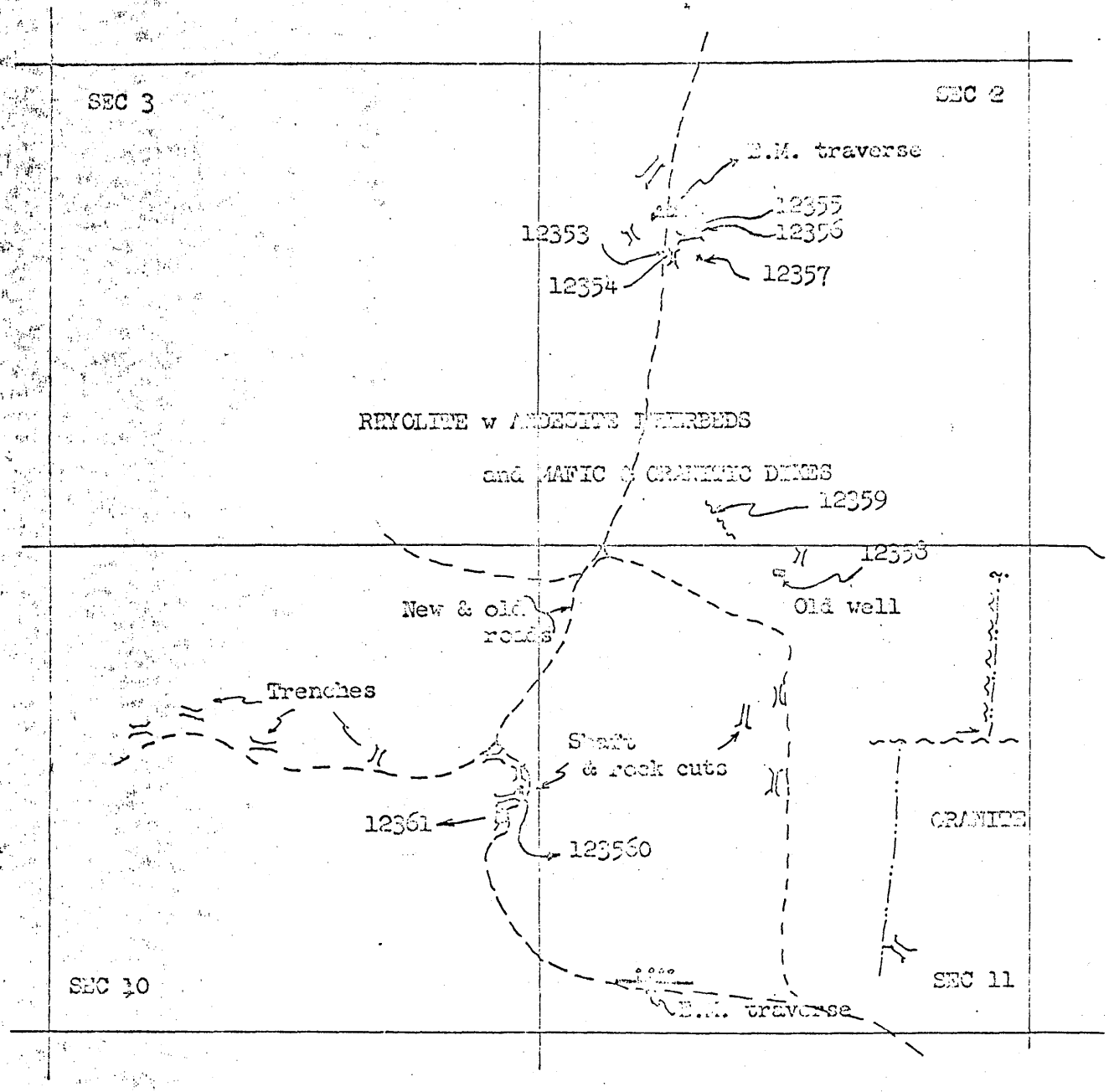
Seven samples were taken in the vicinity of small shafts and pits of diorite and older andesite and rhyolite, and were assayed geochemically for copper and molybdenum. None of these samples indicated anomalous amounts of copper or molybdenum. Obvious drilling targets were not evident. Such targets, if any exist, might be found only by more detailed geologic mapping and geochemical sampling. In view of the nature and localization of copper mineralization to narrow shear zones, it is recommended that the company not show further interest in this property.

Louis Astudillo, Jr.

Louis Astudillo, Jr.

LA/db

LOCATION : TOWNSHIP 3 NORTH
AND RANGE 4 WEST..



SAMPLE LOCATIONS AND E. M. TRAVERSES

ON COPELANDS COPPER CHIEF CLAIMS

Scale (approximately) 1 in : 1 mi

Samples collected for assays gave the following results:

Sample No.	Description	Cu
12353	Brecciated rhyolite w/minor copper	1.02
12354	" " " "	0.66
12355	Altered andesite w/minor copper	1.42
12356	" " " "	0.60
12357	Altered rhyolite	0.12
12358	Diorite from well dump	0.12
12359	Bleached rhyolite from fault zone	0.08
12360	Intermediate mafic dike w/malachite	2.04
12361	Granitic rock from shaft	0.20

The two slightly mineralized parts were traversed on a reconnaissance basis with the horizontal loop E.M. The results indicated no obvious conductor zone.

CONCLUSIONS:

Some new trenching has been completed but no new significant mineralized zone has been exposed. Certainly no mineralization was seen on the ground to compare to the specimens presented at the office.

In view of the above and the lack of any persistent copper assays or E.M. conductors, the writer's conclusions confirm those of Astudillo.

Nothing should be done with this property.

JOS/db