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The following file is part of the John E. Kinnison mining collection

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NOTE FILE ON "PORPHYRY COPPER" Property: Sulphide Clms.

Location: R 16 E
T 17 S

District: Helvetia
Mt. Range N end St. Rita
County: Pima
State: Arizona

Source of Information <input checked="" type="checkbox"/> Field Observations <input type="checkbox"/> Publications <input type="checkbox"/> Company Files <input type="checkbox"/> Other	Explanation: Half-day field examination Reviewed by: ... Melville See Date: February 10, 1971
Recommended Company Interest Classification: <input type="checkbox"/> Active <input type="checkbox"/> Possible <input checked="" type="checkbox"/> None <input type="checkbox"/> Scientific	Qualifying Remarks: The examination was made to check mineralization which was indicated to exist by numerous prospect pits, shafts and adits. The area is eight air miles north of Anaconda's Rosemount Copper deposit

MINERALIZATION

Alteration and Metallization: At the Pauline mine on the Sulphide claims, several old shafts were sunk into an intrusive porphyry. Examination of outcrops and dump material reveal the porphyry to contain disseminated pyrite. Pyrite also occurs in siliceous argillite. No chalcopyrite was observed and the mineralization appears to be of the pyritic porphyry type. Traces of copper oxide occur in a nearby shear zone. Further west, at the old cuprite mine and across the canyon, silicified limestones and argillites evidence weak oxide copper showings along fractures with no possibility for development.

Leached Outcrops: The porphyry rock at the Pauline mine on the Sulphide claims is fresh with slight kaolinization of the feldspars. Outcrops of the porphyry show limonite in casts after pyrite, but no "live limonite" was found.

Enrichment: None

Associated Metal Deposits: None

STRUCTURE

Fissures: NE shear zone

Intrusives: Porphyry, intrusive into sediments

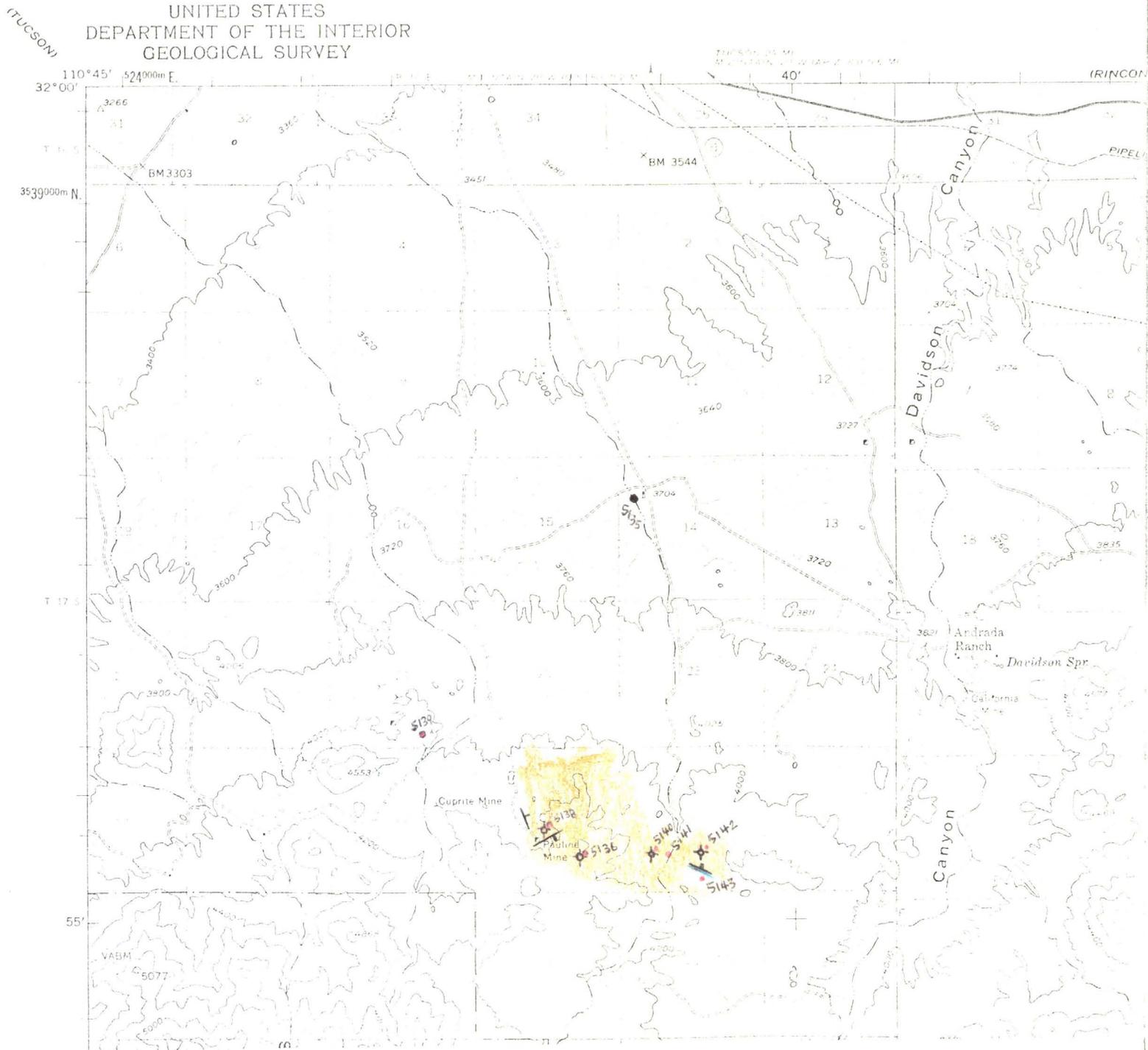
Breccia Pipes: None

Cover Rocks: None

DEVELOPMENT, PRODUCTION, FACILITIES, ECONOMIC POSITION, ETC.: Several shafts and many prospect pits. Cuttings from two drill holes into the porphyry were found. One uncapped hole showed a depth of 150 - 200 feet.

Sulphide Claims

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



key

 Intrusive Porphyry

 Arkoses, Argillite
& Limestone

 Drill Hole

 Geochemical
sample
(rock)

 Geochemical
sample
(stream sediment)

 Shear
zone

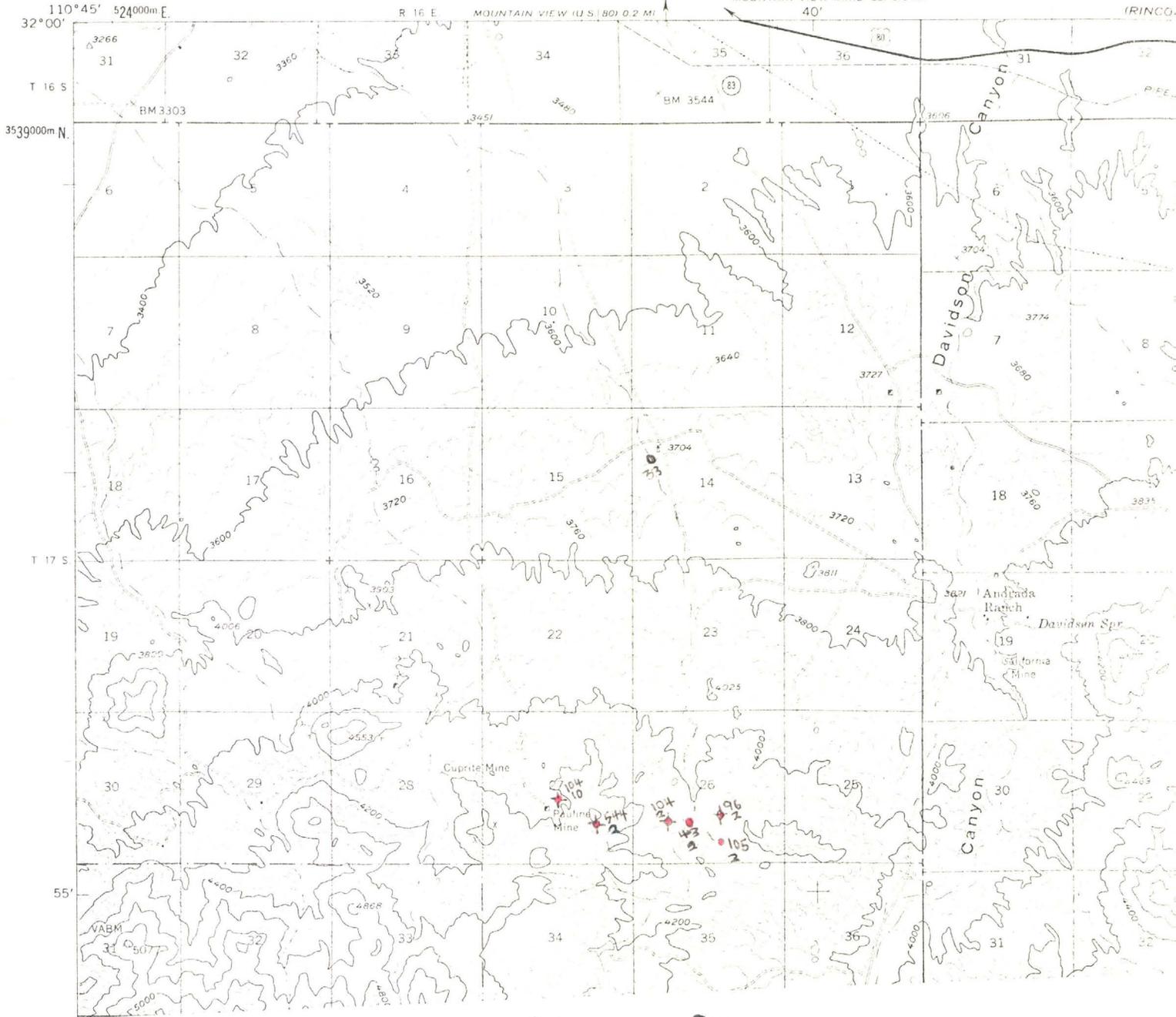
 Shear zone
with Cu oxide



(TUCSON)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

TUCSON 24 MI
MOUNTAIN VIEW (ARIZ B3) 0.6 MI



- stream sediment sample with ppm Cu
- rock chip sample with ppm Cu Mo
- ✦ drill cuttings sample with ppm Cu Mo
hole