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October 11, 1962

Mr. Paul C. Henshaw
Vice President, Exploration
Homestake Mining Company
100 Bush Street
San Francisco, California

Dear Paul:

Re: Cleopatra Prospect-Mohave County, Arizona

On October 5, 1962, I made a brief inspection of the Cleopatra copper property in company with Mr. Elmer F. Welch. Mr. Welch has apparently optioned 124 unpatented lode mining claims from their owners and is trying to finance some exploration. The property is about 30 miles southwest of Bagdad and is situated about six miles north of the Williams River in southernmost Mohave County. It is in and near Section 4 of T 11 N, R 14 W, Salt River Base and Meridian.

The geologic setting is similar to that of the Mineral Hill area examined by the writer in November, 1961, and the Cleopatra is only about 18 miles northeast of Mineral Hill. Both areas are characterized by thrust plates of Paleozoic sediments resting upon a basement of Precambrian schists. Mineralization occurs sporadically along the zone of thrusting.

At Cleopatra the thrust zone is heavily silicified in places and there is an uneven distribution of oxidized copper minerals near it. There are a few small open pits on the property from which modest shipments of direct smelting ore were made many years ago. The heavy specularite mineralization so evident at Mineral Hill does not occur at Cleopatra.

There are numerous old exploratory holes on the property of which no records are available. These were probably put down by wagon drill, and it is doubtful if they were promising.

Inspiration Consolidated Copper Company drilled a hole somewhat deeper than 1000 feet about a year ago. Its log was available and showed only a few very short intercepts with substantial amounts of copper. Of interest, however, was the occurrence of porphyry at a depth of around 1,000 feet which carried only 0.01 and 0.02 per cent of copper.

Paul

VALLEY
GOLDEN

E. N. PENNEBAKER
CONSULTING GEOLOGIST
P. O. BOX 817
SCOTTSDALE, ARIZONA

March 9, 1963

Mr. Paul C. Henshaw
Vice President, Exploration
Homestake Mining Company
100 Bush Street
San Francisco 4, California

Dear Paul:

Re: Fuller Mining Claims
Mohave County, Arizona

On March 2, 1963, I made a brief inspection of part of the Fuller claims in southernmost Mohave County, Arizona, on which I was accompanied by Mr. Jay E. Fuller. On March 8 I flew the area to look over some of the ground that was not covered on the first inspection.

Mr. Fuller advises that he controls some 220 unpatented lode mining claims plus 24 unpatented placer claims of 160 acres each. He also states that he is empowered to negotiate on three other adjacent claim groups, as follows:

Mohave Copper group of some 270
unpatented lode claims
Terney group of 125 unpatented
lode claims
Fisher group of 65 unpatented
lode claims

All of which amounts to over 17,000 acres of land.

Mr. Fuller stated that they will option these properties on terms allowing a generous amount of time before any payment falls due.

These claim holdings are situate in Mohave County a few miles northwest of the Bill Williams River at Alamo Crossing. They are immediately west and northwest of the Cleopatra claims, described in my report of October 11, 1962. A copy of the Cleopatra report is attached hereto for easy reference.

The area of present interest shows several fragments of thrust plates of limestone scattered over a large area. They are flat or gently-dipping and rest upon a Precambrian terrane of granite,

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Mr. Paul C. Henshaw - 2 - March 9, 1963

gneiss and schist, and these basement rocks predominate in the area examined.

Mineralization follows the thrust plates and consists of abundant silica and a very little copper. The basement Precambrian complex is largely barren and unaltered, although in places a few flat shear zones show small amounts of copper confined to minor silicification.

Most of the ground coloration in the area comes from exposures and detritus derived from the so-called TKs formation, which consists of shale, sandstone and agglomerate of approximate Tertiary-Cretaceous age. This group of rocks is strongly colored by syngenetic red iron oxide, similar to some of the highly-colored Mesozoic sediments of the Colorado Plateau. It is also associated with andesitic lava flows and subordinate grey limestone. Blocks of this formation are apparently down-faulted into the Precambrian terrane.

Magnetitic anomalies reported in the Fuller area are undoubtedly due to more basic layers in the Precambrian gneisses.

An alleged breccia pipe is apparently a severely silicified and brecciated fragment of a thrust plate.

An extensive drilling program would mostly pierce the Precambrian basement. The barren nature of these rocks is evident both from surface and aerial inspection. Although Inspiration's drilling apparently cut into a monzonite porphyry intruding the basement, the porphyry was essentially barren.

I recommend that Mr. Fuller's offer be declined.

Yours very truly

E. N. Pennebaker

ENP:mc

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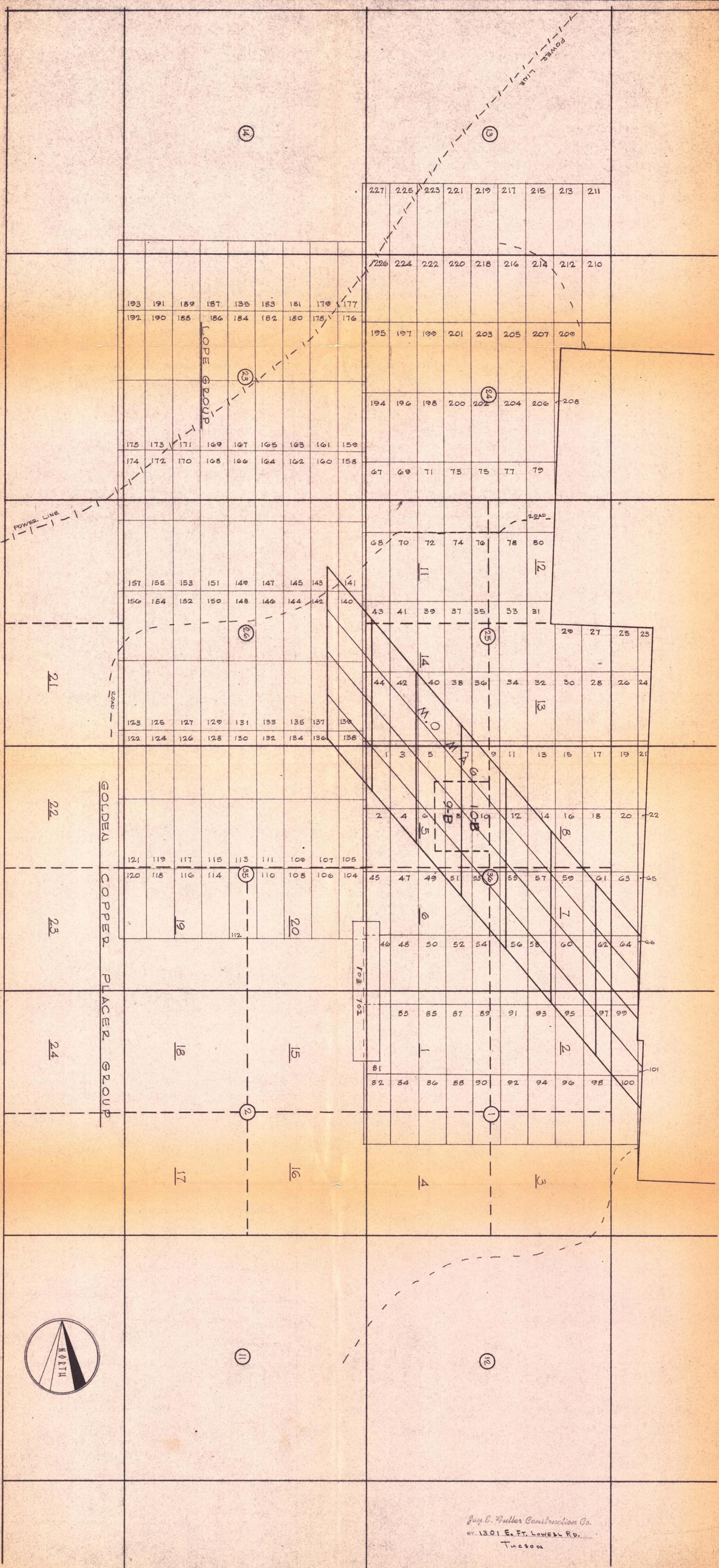
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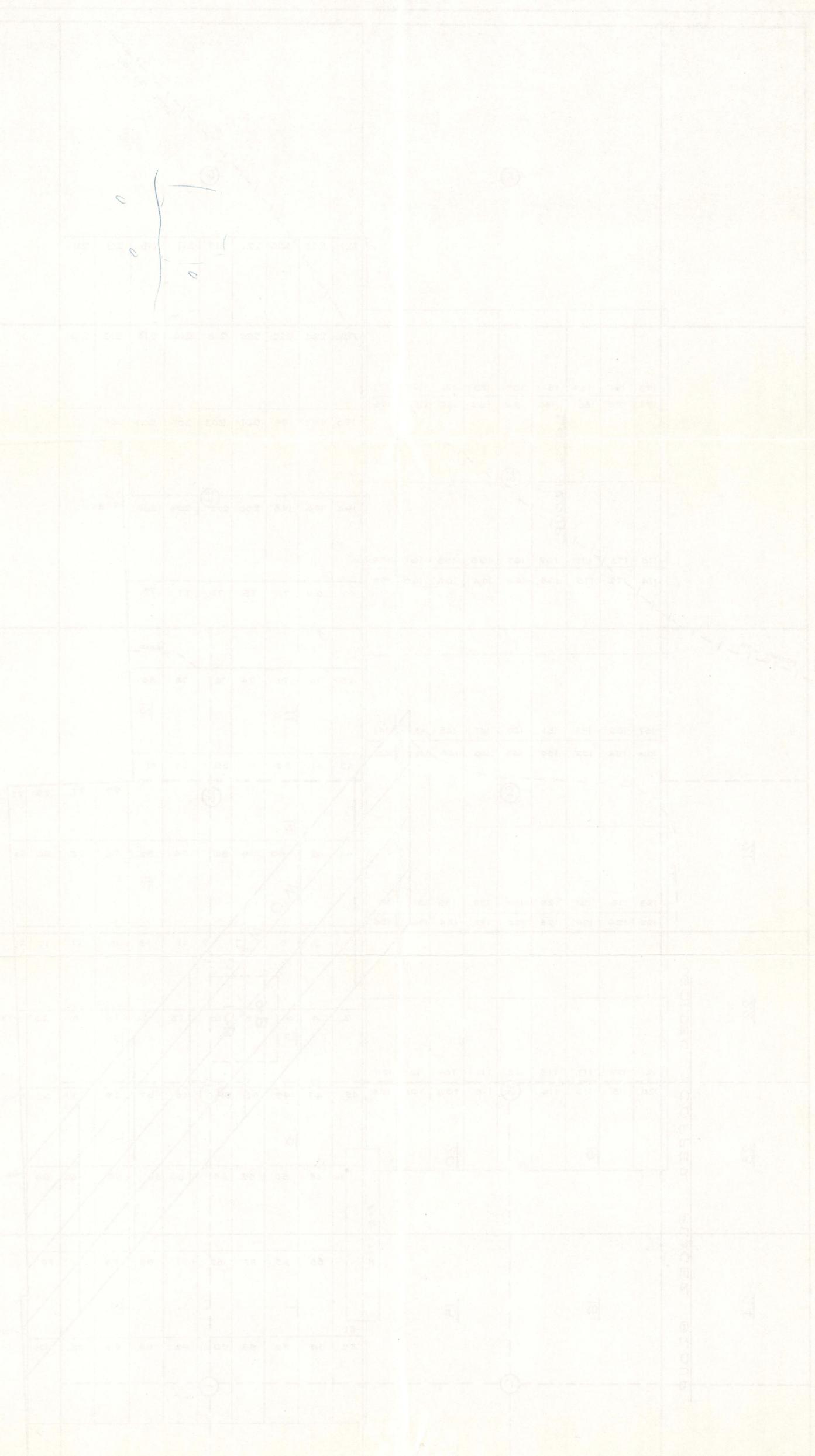
Yours very truly

E. N. Pennebaker

ENP:mc



T-12-A
T-11-A



Fuller grant -	220	lake	+24	-160	acre	<i>Placer</i>
Mahave Copper grant -	270	+ lake	claims			
Ferney	-	125	"	"		
Fisher	-	65	"	"		