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PRINTED: 11/16/2001

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: NEW CORNELIA EXTENSION

ALTERNATE NAMES:
KNOX GROUP

PIMA COUNTY MILS NUMBER: 723

LOCATION: TOWNSHIP 12 S RANGE 6 W SECTION 27 QUARTER SW
LATITUDE: N 32DEG 20MIN 54SEC LONGITUDE: W 112DEG 52MIN 45SEC
TOPO MAP NAME: AJO - 15 MIN

CURRENT STATUS: UNKNOWN

COMMODITY:
UNKNOWN

BIBLIOGRAPHY:
ADMMR INFORMATION

Dino Co
(Copper)

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine New Cornelia Extension

Date 5-6-58

District Ajo

Engineer Lewis A. Smith

Subject: Drill program and general results as reported by Dick Nesbit, Superintendent for
✓ Nesbit & Co.

5 holes were sunk on the New Cornelia Extension property, 2 south of the pit and three to be southwest of the pit, two of these were in close proximity to two holes drilled during 1957 by American Metals Co.

The two holes to the south reached 1111 and 890 feet respectively. Both penetrated a few hundred feet of oxidized ore which was low grade (-0.60%) and which ended on top of a sandy area. The sandy zone was too thick and loose to be drilled and so the holes were abandoned. Nesbit theorized that since the material above the sand was largely earlier flows (probably andesite), the sand was probably detrital and was derived from the weathering of monzonite which possibly lies under the sand. The furtherist of the holes to the SW penetrated monzonite at 1180' and then there was ore averaging about 1.89% copper, for about 190 feet. The ore consisted of bornite and chalcopryrite disseminated in the monzonite. Under the ore altered granite was encountered. The American Metals hole nearby is reported to have encountered granitic rock at a somewhat greater depth. This hole penetrated is believed to be over 2500 feet in depth, but the results were considered to be unsatisfactory because of the depth, and its generally low-grade tenor. The 4th hole was on the south rim of the pit and showed no ore over 0.60% copper and the bulk of the mineralized material was far leaner. Nesbit stated that no good results have been obtained from holes southeast of the pit.

His theory is that drilling has indicated the possibility that the Ajo intrusive is laccolithic in form, at least in part, and that the dome of the mass may rest about the middle of Arkansas Mountain. He reports that the area southwest of the pit, and probably west of Arkansas Mountain pitches downward at a fairly steep angle and that the wings appear to thin rapidly in those directions.

Their present plans call for a few holes on the Knox Extension before they move out.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Min ~~New~~ Cornelia Extension (Knox Group of Claims) Date November 12, 1957

District Southwest of Ajo Pit, Pima County
East of the area drilled by American Metals

Engineer Lewis A. Smith

Subject: /

Logan

Location: Sec. 27 T 13 S R 1 E

Present Operators: Burnside Investment Co, 42 Broadway, New York City, New York.

Work: They are diamond drilling.
Thus far two holes have been completed and a third has been started.
The results of the drilling were not available, being confidential.
However, it was learned that sulphides were deep in the area.