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TITLE: REPORT ON A COPPER PROSPECT,
HIGGINSVILLE AREA, COOLGARDIE
GOLDFIELD, W.A.

AUTHOR: J. Sofoulis

DATE: 5th November, 1962.



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by

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INTRODUCTION

A recently-discovered copper prospect in the Higginsville area was located by Mr. T.J. Horan and the ground subsequently taken out as P.A's 7639, 7656, and 7657. The bulk of the same ground has since been registered by the finder as a mineral claim M.C. 36.

This copper prospect is at present being tested by Mr. G. Lister of Widgiemooltha, who holds a working option over the claim.

LOCATION AND ACCESS

The prospect lies 3 miles east along an east-west fence line that meets the Widgiemooltha-Norseman Highway approximately 100 yards north of the 408 mile peg. Access to the prospect is by a good graded track following the south side of the fence line.

The nearest settlement is at Widgiemooltha (394 mile peg) and the nearest rail siding at Higginsville (414 mile peg).

A locality plan is attached.

GENERAL GEOLOGY

The area covered by the mineral claim is flat to gently undulating with rising ground to the west. Rock exposures are rare as the surface is generally mantled by up to 4 feet of calcareous nodular (kunkarised) soils.

Ultrabasic schists of dolomitic origin and minor intercalations of altered sediments (slates, charts, calc-silicates) have been exposed below the soil mantle in some of the deeper workings. Other amphibolitic rocks and ultrabasic schists crop out locally on the eastern side of the copper bearing zone.

The regional strike of the country is north-south

with moderate to steep easterly dips.

A large east-west dolerite dyke belonging to the 'Dundas Dyke Suite' would cut through the strike extension of the above metamorphic rocks approximately 1 mile south of the workings.

THE COPPER PROSPECT

The prospect consists of a series of shallow potholes, costeans and pits, concentrated along a north-south zone up to 60 feet in width, and over 350 feet in length. Most of these shallow workings show copper mineralisation and copper stainings, as well as barren sections of country rock.

Copper mineralisation is mainly in the form of carbonates (malachite and azurite) and minor amounts of oxides (cuprite). As far as can be ascertained the principal makes of copper ore consist of copper-bearing iron-silicate lenses and veins. These locally appear within the copper bearing zone but have not been tested to any degree.

Development

A main shaft, currently being developed to test the occurrence, is now at a depth of 40 feet. This shaft is situated in the central part of the prospect and was sunk on an east-dipping, copper bearing iron-silicate lens that passed out of the shaft at a depth of 8 feet. Other similar but smaller copper bearing lenses were penetrated at lower levels. Inter-lens material consisted of oxidised schists locally showing copper stainings and minor copper bearing veinlets.

The option holder intends sinking the shaft to 55 feet before crosscutting into the hanging and foot-walls. This

programme is designed to determine the limits of the copper bearing zone at this level, to ascertain the grade of ore available over the width of the copper bearing zone, and to locate higher grade lenses of ore.

Production and Grade

No official production has been recorded. Approximately 5 tons of good grade copper ore now lie at grass. This ore represents hand sorted material extracted from the main shaft development and from other shallow pits on the prospect.

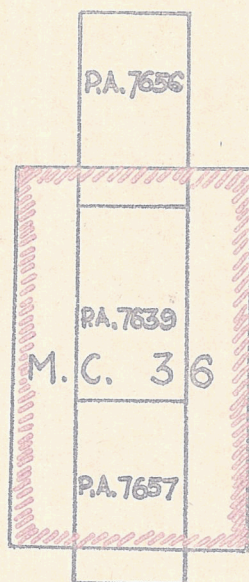
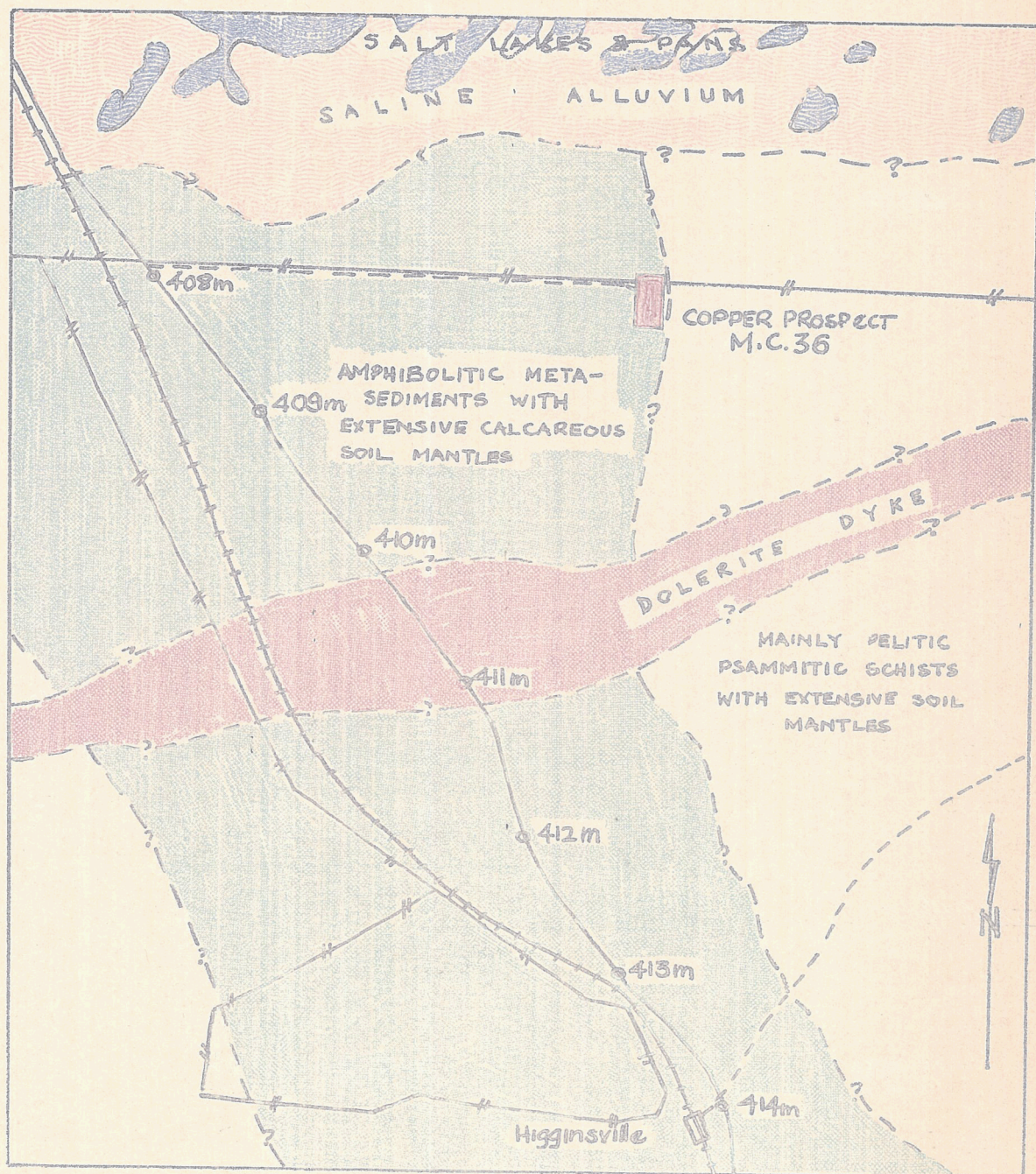
Selected hand specimens of copper ore were reputed to have given high assay values (20%+) but such figures are meaningless unless the concentrates or working faces are sampled in the approved manner.

The assayed specimens were reputed to contain a small gold and silver content.

CONCLUSIONS

A copper prospect recently discovered in the Higginsville area is in the process of being tested. Present indications show that copper mineralisation occurs within a zone up to 60 feet wide and 350 feet in length.

As yet insufficient work has been completed to give a true appraisal of the prospect's potentialities. The programme of testing, as proposed by the option holder, is supported.



G. S. W. A.
LOCALITY PLAN OF
COPPER PROSPECT,
M.C. 36, HIGGINSVILLE.

COOLGARDIE G.F.

Based on air mosaic of Higginsville
Sheet 523

Approx Scale: 1 mile to an inch.

LEASE PLAN APPROX.

SCALE: 1 INCH = 20 CHNS.

J. Sofoulis, 1962.