

DEPARTMENT OF MINES
SOUTH AUSTRALIA

IRON ORE PROSPECTING

EYRE PENINSULA

SECT. 195, HD. KOPPIO, CO. FLINDERS

(Near Koppio Graphite Mine)

ABSTRACT:

A deposit of ironstone, reported on by R.K. Johns (D.M. 1183/55; G.S. 364) was inspected, further samples have been taken, and a section through the deposit has been drawn. No further action is recommended.

INTRODUCTION:

The ironstone deposit on Section 195, Hd. Koppio, was inspected as part of an investigation of the iron deposits on Eyre Peninsula. R.K. Johns reported (G.S. 364, D.M. 1183/55) on the area which was submitted by Mr. E. Follett of Sleaford Bay.

LOCATION:

Section 195 is situated on the northwest bank of Rock Valley Creek opposite the Koppio Graphite Mine (which is on Section 35). The property is held freehold with the mineral rights alienated from the Crown.

PREVIOUS WORK:

R.K. Johns, G.S. 364 (41/73) Iron Ore Deposits, Koppio Area.

There are several pits and two adits indicating early attempts to evaluate the deposit, but no other reports.

GEOLOGY:

The geology of the deposit has been dealt with fully by Mr. Johns in his report. Briefly there is a band of hematite quartzite some 50-300 feet thick striking at 45° and dipping 65°-80° to the south east. In the upper regions there is

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surface iron enrichment and this material was sampled during the current investigation. It is likely that the grade will fall rapidly in depth as the surface weathering effects diminish.

In zones where the quartz has been leached completely, the bedding is shown by parallel rows of cavities.

ECONOMIC GEOLOGY:

The deposit contains a potential of 2 million tons of siliceous ore, per 100 feet of depth, assaying 36-41% iron.

ASSAY RESULTS:

<u>Footages</u>	<u>Fe%</u>	<u>Insols. %</u>	<u>Assay No.</u>
200 225	36.3	23.2	A427/58
225 250			
250 275	41.4	12.0	A428/58
275 300			
300 325	40.3	4.4	A429/58
325 350			

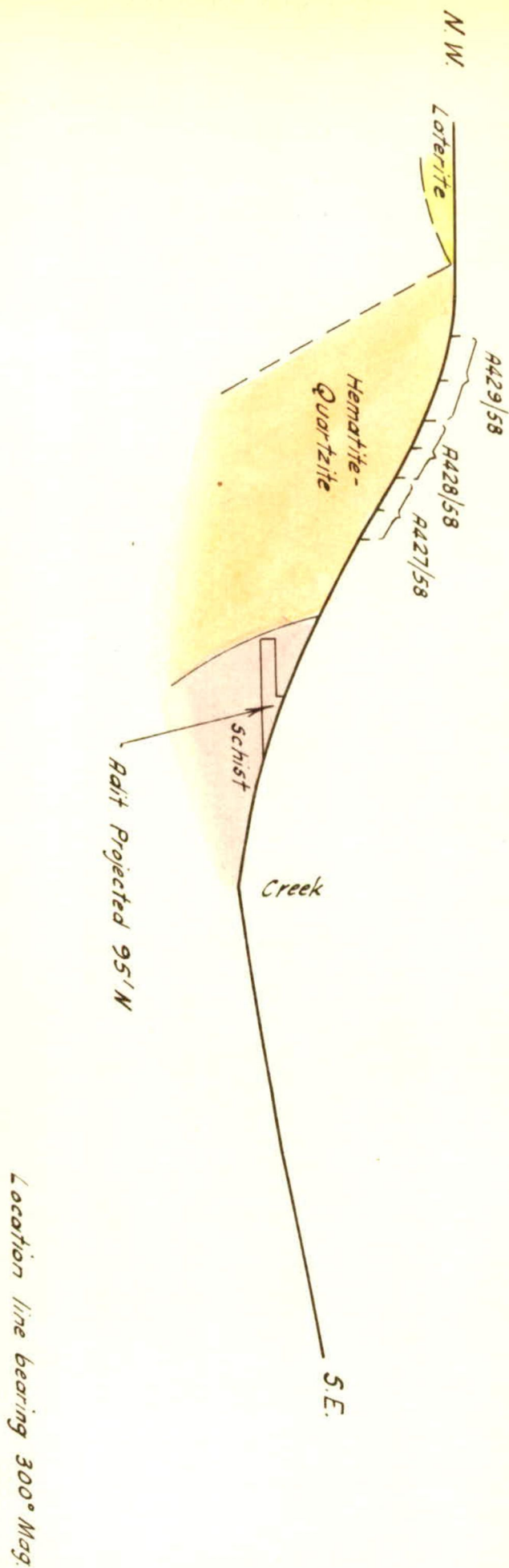
PROPOSED EXPLORATION:

No immediate attention is recommended for this deposit. It should be considered when assessing the potential iron ore resources of the Southern Eyre Peninsula. The results of the investigations of other similar deposits will guide in the assessment of this area.

R.C. Mirams

R.C. Mirams
Geologist-in-Charge
IRON SECTION

RCM:AGK
20/6/58



To accompany minute by R.C. Mirams

S.A. DEPARTMENT OF MINES

Approved	Passed	Drn.	IRON ORE PROSPECT SECT. 195 HD. KOPPIO SECTION ACROSS OUTCROP	D.M.	Scale 100' = 1"
		Tcd. A.W.		Req.	51831
		Ckd.			DN 12
Director		Exd.			Date 13-6-58