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Department of Mines
3 uth Australia

DM 616/55.

Geological Inapaction of

Iron Ore Prospects Pandurra Station. Iron Kneb District. Cty. Manchester.

by

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Section

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Plan reference: Corunna One-mile Geological Map
Ref DM 572/55.

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(A. .. & R. Kittel.)

INTRODUCTION:

Messrs. A. J. and R. Kittel of 7 Fern Street, Port
Augusta reported occurrences of iron ore and ochre on
Pandurra Station and augusted they be paid a reward. After
an interview at Port Augusta it was arranged that R. Kittel
should act as guide in locating the prospects, which he did
on 13. 4. 55. Another visit and asarch was made on 4. 5. 55,
and preliminary notes were forwarded to Adeluide office on
27. 4. 55 and 6. 5. 55.

HARNATITE LODE:

The first prespect visited was 3 miles south of the Lower Nine Hile Dam on the Eyre Highway, Corunns One-Hile sheet. The d m is 11 miles north-east of iron Kneb and the prespect 10 miles east-north-east (direct) of Iron Kneb, at Lat. 32° 41' 45" S. Leng. 135° 19' 30" E (as scaled from map)

Archaean 'as ement Complex argillaceous schists outcrep on a low rise about a quarter of a mile across.

appr ximitely 400 feet long, up to 5 feet wide, striking northwest and of uncertain dip. It consists of messive and microcous hammatite, with vain quarts, some parts appearing to be almost pure haematite. The appearance is that of a hydrothermal fissure vein.

Mittel had not seen the place for 27 years, and could not locate another lode reguted to occur nearby. A quick reconnaissance sailed to locate even floaters of iron ore

sway from the one lode seen.

The lode is to small to be of value as a source of iron ore. It may find application for use in nigments or flux.

OCH BEL

A large deposit of yellow ontre was visited, about 3 miles northeast of the bacastite lade, in breaksway country. The other is probably a highly wentured emphibolite and is of too paor a quality to be of value.

LIKUMITEL

Two small outcrops of iron exides were examined half mile a mile northwest of the Lewer Nise, Dam (see above).

These are close to a small plug of gaboro (shown on the Corumns One-Nile Sheet) in bronke may country, the surrounding rocks being sund/stones, shales, and pustuites, mapped as Archaess, but strongly recembling Auel ide System types.

The ferruginous outcrops constat mainly of hard brown limewite which is drawy and contains many patches of twovertine and clay, and cavities. The outcrops have a sheeted atractal of approximately horizontal dip and probably are lateritic "cap-rocks" ever other plugs of altrabasic intrusive rocks. The gaburo plug is quite fresh and analysis and has no "capping".

The limonite would not be of aconemic value.

The vicinity was cursorily examined, but no further likely outdrops were seen. There are several white clay (shale weath red "in situ") showings which may be work further investigation.

SUMM SY1

Two iron ore prospects and a yellow other deposit were reported by K. W. and R. Kittel of Fort Augusts.

The prospects and the area surrounding them, which are adjacent to the Syro Highway, 8 to 11 miles o at of Iron Knob, were cursorily examined. Here of the prospect appear to be of value as sources of iron ore or other, but several

possible sources of white clay were seen.

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25. 7. 55.

ADDITION ORUGOIST.