


## R B P R of the

QRE DRESGTE AND MEXAYMRGICA: MBOBAMORES.

Tnvestegetom Mo. 3330

Gammantion of Ausbenjtac Manganese staot
Test Bars and Teack Links from
the Boach Foundry limited. Otbsars Onterio.
burenu of mines division of metallic minerals

ORE DRESSING AND metailurgical laboratories


## DEPARTMENT

of
MINES AND RESOURCES
mines and ceolocy branch


ARP日思 0 06 6no


Ixvostrgetrom No. 1383.


tha Beach Boundry Shaditod. Ottema, Dater2o.


Opath of semplos


 Invostlgations
A.1] of these spocimons woro poporeod to be medo of


(ongin of Semplos, conbo ${ }^{3}$ )





## Object of Study ${ }^{\circ}$

An Anvestigation on the mexestmotune of the tose bars and a detomanation of the nature of coutiog in the treck 1 indra, wese requestod.

## Miceogtructures;






 Fifgures 7 g and so sespectively。

Pexgeg Examination:
The two track Innks were soetonod throteb aroas which the radiograph had shom to bo deroctive Figuro 5 Is a photograph of hank No, 1 aftes a smadt oyohote had bexa removed. The surfacos of the wo cavitios in the mpen might hare comor are mooth, whits thome of the others ara dordathta.

The dotects shoma fin figure 6 wemeprosent dm


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## Discugsion of Rosu?

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 ox Fheme 5 wore causod by gea from the obill ojbusted st this pointo the otherg in this picture axe shonnso The Iocathon and wature of the dofocts shown in Figure 6 indionto that thase woxe probably causea by gaso The dotacta xa Lhat


LPT:GHE

Figure 1.

x250, nital etch. TEST BAR 1.

Figure 3.

x250, nital etch.
TEST BAR 7。

Figuxe 2.


X250, nital atch. TEST BAR 4.

Figure 4.


X 100 , unetched. TEST BAR 7。

Note inclusions in the stosl.


DEFECTS IN LINK NO。1。 （Approximatsiz size）。

Figure 6.


DEFECTS IN LINK NO． 1.
（Approximately to size）．
$-$
Fsgure 7．


DEFECTS IN LINK NO． 2.
（Approximataly to size）．

