

Report File

10433-9/3/34-2,000.

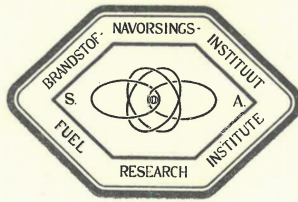
F.R. 5.

RAPPORT No.

REPORT No. 11

VAN

OF 1936



BRANDSTOF-NAVORSINGS-INSTITUUT

VAN SUID-AFRIKA.

FUEL RESEARCH INSTITUTE

OF SOUTH AFRICA.

ONDERWERP:

SUBJECT:

ANALYSES OF SAMPLES FROM BOREHOLES 2 AND 3
ON "BANKFONTEIN 503" NEAR UITKYK, TRANSVAAL;

Cone Survey Report No. 20

AFDELING:

DIVISION:

CHEMISTRY

NAAM VAN AMPTENAAR:

NAME OF OFFICER:

P.E. HALL .

9TH MARCH, 1936.

FRI 11/1936

FUEL RESEARCH INSTITUTE OF SOUTH AFRICA

REPORT NO.11 OF 1936.

ANALYSES OF SAMPLES FROM BOREHOLES 2 AND
3 ON "BANKFONTEIN 503" NEAR UITKYK, TVL.

These two boreholes were sunk by the Minnaar-Witbank Colliery during February 1936.

In Borehole 2, 7'4" of coal were struck at a depth of 37'4". This coal was divided into two samples, top and bottom, the relative widths of which are not at present known to the Institute.

Borehole 3 was put down mainly to confirm the results obtained on Borehole No.1. A 9 ft. seam was encountered at 184'8" and the core therefrom divided into samples as follows:-

- | | | | | |
|--------|---|---------|---|--|
| E.54.A | - | Top 24" | - | Dull non-banded coal with a large pyritic intrusion. |
| B | - | 21½" | - | Separated from A by 2½" of stone band - not sampled. A dull non-banded massive coal. |
| C | - | 23" | - | Separated from B by 1" pyritic band not sampled. A dull non-banded massive coal. |
| D | - | 17" | - | Mixed coal growing brighter with depth - somewhat pyritic. |
| E | - | 6" | - | Dull homogeneous non-banded coal. |

Sample No.	Borehole No. & Designation	Width Inches	Cal.Val. lbs/lb.	% Ash.
E.53.A	2 Bottom	-	12.6	12.0
B	2 Top	-	11.8	15.8
E.54.A	3	24	11.6	16.9
B	3	21 $\frac{1}{2}$	12.2	13.9
C	3	23	11.6	17.5
D	3	17	12.2	13.9
E	3	6	11.4	18.9

From this it will be seen that the correlation of Boreholes 1 and 3 is not very satisfactory as far as the preliminary analyses go. E.54.A. corresponds to the top-most sample from Borehole No. 1, but is markedly lower in calorific value. This may be attributable, in part at least, to the pyritic intrusion mentioned above. For the rest the samples from Borehole 3 are not as good as those from Borehole 1.

Further work on the floats of these borehole samples is being undertaken and will be communicated in due course.

P.E. Hall,

DEPUTY DIRECTOR
FUEL RESEARCH INSTITUTE

9TH MARCH, 1936.