

XIVth INTERNATIONAL APPRENTICE COMPETITION

VISIT TO

KILLOCH COLLIERY

A new major sinking to produce 1,250,000

saleable tons per annum

As part of the National Coal Board's re-organisation of the Mining Industry, Killoch Colliery has been sunk to work an area of some 10 square miles on the southern margin of what is known as the Mauchline basin. The southern part of the Killoch Field is overlain by strata belonging to the Barren Red Measures followed and overlain in a northerly direction first by a thick series of Permian Sandstone succession.

The Colliery, which is situated some 9 miles from Ayr and 6 miles from Cumnock, is the largest mining unit in Scotland. Due to the faulted nature of the Killoch field, the planned output has been agreed at 1,250,000 saleable tons per annum or 5,250 tons per day at a current forecast O.M.S. of 50 cwts., with a total manpower of 2,300.

Technical Details:

Item	Detail	
<u>Shafts</u>	<u>No. 1 Shaft</u> <u>Upcast</u> 24 ft. dia. circular, concrete lined, 830 yds. in depth.	<u>No. 2 Shaft</u> <u>Downcast</u> 20 ft. dia., circular, concrete lined, 805 yds. in depth.
<u>Winder Towers</u>	Pre-stressed concrete tower 86 ft. long, 53 ft. wide and 165 ft. high.	Pre-stressed concrete tower, 63 ft. long, 53 ft. wide and 175 ft. high.
<u>Winding</u>	2 skips each of 18 tons capacity with counter- weights operated by 2 winders powered by 6.6 k.V., 1,875 H.P. geared A.C. motors. For coal winding.	1 cage of three decks with counterweight operated by one winder powered by 6.6 k.V., 1,250 H.P. geared A.C. motor. For winding men, stone and materials.
<u>Fans</u>	One 170 inch diameter 2-stage torpedo axial flow fan, capacity 600,000 cub. ft. per min. One standby fan of equal capacity.	
<u>Power</u>	Supply from South of Scotland Electricity Board at 11,000 volts. Transformed to 6.6 k.V. by 3 - 5 M.V.A. transformers. Maximum Demand (current) 5,650 K.W. Power Factor .905.	
<u>Preparation Plant</u>	Two 250 tons per hour Baum units with flocculation plant Total capacity 500 tons per hour. Sizes: +7"; 7"-3"; 3"-2"; 2"-1"; 1"- $\frac{1}{2}$ "; $\frac{1}{2}$ "- $\frac{1}{4}$ "; $\frac{1}{4}$ "-0.	
<u>Dirt Disposal</u>	Dirt is loaded into 10 ton side tipping wagons and hauled by locomotive to a concealed dirt hill about one mile distant from the Colliery.	