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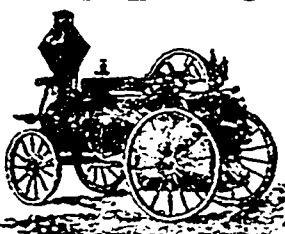
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Chemical Laboratory, Dalhousie College,
Halifax, N. S., July 31st, 1891.

Within the last few months I have pur-
chased promiscuously, at RETAIL GROC-
ERY STORES in this City, packages of

WOODILL'S
GERMAN BAKING POWDER,

and have subjected same to Chemical Anal-
yses. The samples were found to consist of
Fresh, Wholesome Materials, properly pro-
portioned. This Baking Powder is well
suited for family use, and has been employed,
when required, in my own house for many
years.

GEORGE LAWSON, Ph. D., L. L. D.
Fellow of the Institute of Chemistry of
Great Britain and Ireland.

MINING.

THE SPRING HILL COLLIERIES.

IN THE NORTH SLOPE.

(Continued.)

The West level on this lift—the 1300—has been driven over 3000 feet and from it have been driven up 6 balances. Three of these balances are working. The No. 6 balance—the furthest in—was being vacated by the men. The men wanted an advance on the price paid in an outside balance; the manager wanted to reduce the price. There was thus a difference between parties, which looked serious for a time, but was overcome by the manager consenting to give the men other places. The level is still being driven. The men working in it are deserving of a fair wage as they are surrounded by aggravating, if miniature water falls. The North slope was formerly connected with the West by a tunnel. This has, since the explosion, been hermetically sealed by a solid wall 12 feet thick. I had a desire to inspect the mouth of the tunnel and, acting on impulse and not instructions, stepped into a foot of water, which dampened all ardor in that direction. The distance—on a level course—between No. 3 and 2 slopes is 600 feet, and through this tunnel the coal in No. 3 was drawn, and hoisted up, No. 2 slope. As the work extended in No. 3 the tunnel became inadequate. We next go to the face of the West level, a distance of 4000 feet from the slope. On our way back the longwall working lately introduced is inspected. The system is simplicity itself, and works, so far, splendidly. First there is a chute. On going up, there is found a fifty foot face of coal—twenty-five feet, say, on each side of chute—on which the men are at work. Behind is the building, composed of the bottom stone, of which there is say, 12 inches, just the quantity—when loosened and shovelled back—to nicely pack the building. The corners and sides of buildings next to chute are supported by props. The chute will be continued to the 800 ft. lift, and the fifty feet of coal wonned that distance by the men working in this particular chute. Further in there is another chute, to the men working in which is assigned another fifty feet of face, and so on. So far as the experiment has been tried it has been highly successful, and the promise is that the whole of the coal, between the 1300 feet and the 800 feet level will be got out. If this is accomplished the management will be in a position to boast. Those with a knowledge of pit work know how difficult it is to win out all the coal in any section of a pit. By falls and crashes large quantities are lost.

A few months ago operations in the mine were retarded by a heavy in-flow of water. The pumps were inadequate to the task of discharging the water, and as a consequence the mine bory or lowest level, was partially flooded, driving out the miners. To provide against a like occurrence, a new duplex pump, built in Janesville, Pa., of large capacity, has been placed a little below the 1300 feet level. The pump is a formidable looking piece of machinery, occupying large space and for which a substantial building had to be provided. The pump has two cylinders, one 10x36, the other 28x38. The plunger is a ten inch one, and the stroke 36 inches. The capacity of the pump is 750 gallons per minute, a distance of 1300 odd feet. A smaller pump discharges the water from the 1900 feet level to the dams. There are two lodgements, one on each side, one 250 feet long, the other 800 feet, ten feet wide by nine high. The walls of the dams are six feet thick, built of brick and cement. The pump house is 50 feet long by 15 wide. The walls are of stone three feet thick. Overhead there is a four ring brick arch.

A representative of the makers of the pump was looked for in a few days to see that it had been properly set and to put it in operation. The pump being duplex draws from both lodgements, east and west, through ten or twelve inch specially prepared wooden lined pipes.

The other difficulty to be fought was the 'creep.' If there is any part of pit work more perplexing and vexatious than another it is to stop a 'creep' fairly on the move. This the management were obliged to do, and Mr. Matthews deserves credit in having accomplished it, after much labor and considerable expense.

A radical improvement was also made of late in the airways. The area of the main airway has been increased from 46 to 90 feet. Not a part of the airway merely, but the whole course from the 800 to 1900 feet level. The quantity of air in circulation is 63000 feet. The fan that sets this volume in motion is of home make.

There are no fewer than 460 names on the timekeeper's—of this one pit—book. Of this number there are no fewer than 100 pairs of cutters, 70 loaders, and 72 boys.

Working our way to the slope in anticipation of a ride to the surface we find that the obstruction caused by the collision has not yet been cleared away. We wait in patience for a while. At the junction of the slope and level there is a gong or bell which is used for signalling from the 1900 feet level when there are full rakes there to be hoisted. Some industrious youngster chafing at the delay, eager to get to work as it is asserted, solemnly, some boys are, or animated by a spirit of mischief keeps up an incessant ringing. It is impossible from the noise to hear how things are progressing in the slope. Manager McInnis, whom none can say has a fiery temper, quietly remarked if he was down there he would ring that boy. There was one at least waiting there, who sympathised for once with the inclination of the manager.

(To be continued.)