TRIFIME MINING RECO

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SHOOTING FROM THE SOLID.

In Nova Scotia there is considerable run of outputs it is possible that the desire to obtain large or lumpy coal is not so keen as twenty years ago. Nominally fast shooting is prohibited years ago. Nominary tases noting is provided at most of our mines, bu; our information is that it is practised at times. The following extracts from paper read by Professor Steel of Arkansas University are commended to men and managers alike for perusal. And the part relating to the profits of the Arkansas mine operator is respectfully submitted to the Free Coal League, and all others who torture their souls wondering how the U. S. operators can sell coal so much cheaper than those of Nova Scotia. It will be noticed that though they did it, that is, sell more cheaply, they should not have done it, for 48 per cent, only did it and remained well; 24 per cent. did it and went in decline, and 28 per cent. did it and died

powder do the work. This led to the practice of by miners working under the temptations of such a shooting coal off the solid in those districts where the law. price for mining coal was high enough to pay for the extra powder. This means that the miners who get to such an increase in the use of powder that the firthe highest unit wage do the poorest work. In times ing of shots caused frequent dust explosions. To much more serious in the coal mining trade,

ers upon a mine run basis. In filling such orders it dislodging more coal with each shot than formerly, was not necessary to screen the coal, but in order to With no increase in the proportion of powder to coal, avoid this screening, it was necessary to agree upon a doubling the width and the length of the shot remine-run scale of payment to the miners. Thus the puires four times as much powder in each hole. Such payment of the miners upon a mine run basis.

miners was steadily used at any one mine, the practice style thin shot to get the same proportion of slack, of shooting off the solid became common in the Inter-

ior Coal Field As a result the percentage of slack increased so greatly that the operators sought to dismine sold, and as there is a constant cry for big lump. At the same time, distant consumers began to use more mine-run coal instead of slack. In this case, the operator was not so greatly concerned with the proportion of slack in his coal, but could attract plenty of miners by offering them the mine-run scale of

This method of payment, therefore, became sufficiently common for the miners to learn how much easier it was to get out a dollar's worth of mine run coal than a dollar's worth of good lump coal. By this time also many of the operators foresaw the disastrous results of a mine run basis of payment and held out for at least intervals of payment upon a lump coal basis. To remove this condition the miners secured the passage of laws prohibiting the screened coal basis of payment in many of the interior States. Some of 'In the early days of coal mining, as you all know, Arkansas and Oklahoma, not only require equal paythe more recent of these laws, such as those of Kansas, only the lump coal had value and payment to the min-ment for all sizes of coal but also compel the operators ers for anything but lump coal was considered absurd. and, therefore, the railroads to pay full price for the In order to get as much lump coal as possible, the slate a careless miner sees fit to mix with the coal. miners under these conditions developed the careful For fear of indulging in too strong language, I will resystem of undermining all coal before blasting it. This frain from expressing my view of such provisions of the method of mining also required very little powder law. To adequately express it, I could possibly gain and continued in vogue, until the great reduction in a better command of language by listening to some of ths price of powder tempted the miners to let the your firemen who have to handle the stuff produced

of scarcity of labor, this effect is common with other avoid this danger to themselves, the coal shooters have workmen, but the effect of poor methods of work is secured the employment of shot-firers, who get suffi-Even before the mining me hods had changed, the thing which now induces the more careless miner to cient pay to tempt them to run the risk. The only industrial development of the country provided some save powder is its cost. Unfortunately this is not sort of a market for the slack coal. As soon as the very effective because the miners are learning to blow slack coal became a marketable commodity, the costs the coal to pieces in a still more convenient way by of mining coal and the statistics of the output came to putting in shots which are much wider and longer be figured upon a mine-run basis, without regard to than those they used in the older and more careful size. Coal was also occasionally sold to the consum- methods of shooting off the solid; that is, they are buying of coal upon a mine run basis first led to the heavy shots so jar the tight mass of coal that it be-Even before the mine run basis of payment to the tempt were made to increase the powder in an old comes little more than a neap of slack. If the at-

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