



Reports

**1904
Annual Report**

THE HARWICK EXPLOSION

On the 25th of January, 1904, about 8 o'clock in the evening the department was advised by telegram from Inspector F. W. Cunningham, Wilkesburg, that an explosion had taken place in the Harwick mine of the Allegheny Coal Company, located near Cheswick, Allegheny county, and that one hundred and seventy-seven workmen were entombed in the mine. I at once telegraphed Inspectors Louttit, Ross, Adams, Roby, Blick, Callaghan, Mollison and McCann to go to assist in the rescue of the men, and to make a thorough investigation as to the cause of the accident.

As soon as possible I started for Cheswick, and on reaching Pittsburg got into communication with the mine officials, who confirmed the report as to the appalling character of the explosion. I had not thought it possible that a catastrophe so awful in proportions could occur in a mine like the Harwick, which was new and reported to be comparatively safe. The entire population of the village was in an uproar, and the utmost excitement prevailed. The explosion had been one of terrific force. The tibble, which was built of iron, was wrecked, the cages were blown out of the shaft, and a mule that had been at the bottom of the shaft was caught by the force of the explosion and blown out and over the tibble, a distance of about 300 feet.

I called the inspectors together as soon as possible, and after a hasty consultation the opinion was unanimously reached that there could be no person remaining alive inside of the mine. The accident had destroyed the organization that existed among the officials, as the mine foreman and the fire boss, as well as almost all the employes, had been killed. The officials who were present and had escaped the disaster seemed to be dazed and without confidence in themselves. I assumed control of affairs in the mine, and directed the inspectors to remain in charge of the mine until all the bodies that could possibly be recovered had been removed. I gave them instructions as to how to proceed to recover the bodies and impressed them with the necessity for protecting their own lives. With the assistance of such volunteers as were to be found, they began their efforts to remove any dangerous conditions about the mine that might be a further menace to human life. After that part of the work was completed, they commenced the gruesome task of removing the bodies that were strewn about the mine in all directions where the force of the explosion had blown them. No immediate attempt was made to recover the bodies completely covered

by debris, coal and slate. To do this efficiently the inspectors were divided into two shifts, night and day, to work continuously as long as necessary. On Wednesday the miners from adjoining mines responded nobly to the call for volunteers and faced every danger and hardship in the endeavor to recover the bodies of their brother workmen. The work was extremely dangerous, as the ventilation of the mine had been seriously disarranged and impaired; large quantities of gas had accumulated in many places and had to be cleared away to some extent at least before the bodies could be taken out, even though locked safety lamps were used. By Friday evening the work of recovering the bodies, except those that were hidden under heavy falls, had been completed. The inspectors were then directed to make a final examination of the whole mine to ascertain if possible the cause of the explosion, and to make a full report to the department as soon as practicable after the inspection was completed. The charge of the mine was then turned over to the manager, who put Mr. Bell, a mine superintendent of an adjoining mine, in control until all the bodies should be recovered.

On Saturday evening, January 30, the inspectors met me in Pittsburg and submitted a lengthy report of the accident. Their report, which is printed elsewhere, together with a synopsis of the testimony given before the coroner, covers, in my opinion, all the points in controversy as to the cause of the accident and the person or persons responsible for it. The inspectors are men of extensive experience, having prior to their appointment as inspectors been foremen and superintendents of mines, and were thoroughly competent to make an accurate and satisfactory investigation of this disaster, the greatest thus far recorded in the mining annals of Pennsylvania. It is gratifying to state that the report of the inspectors made to me on the 30th of January, agrees in its conclusions with the later report, dated February 13, of the commission of ten engineers, superintendents, mine foremen and miners, appointed by the Allegheny Coal Company to inquire into the cause of the explosion at the Harwick mine. The report of the commission is also published herewith.

Having full knowledge of all the facts in the case, I may be pardoned for saying that, in my opinion, Inspector Cunningham should not be censured for this accident. I think he had done everything that could reasonably be expected of him, and the fair-minded reader of the facts as stated by the witnesses to the jury will no doubt exonerate him, notwithstanding the fact that he was censured by the jury.

Mr. Cunningham was commissioned Inspector of Mines January 27, 1903, about one year before the date of the explosion. Under the law it is his duty to examine every mine in his district once in

every three months, or oftener if the exigencies of the case require it. He made his first inspection of the Harwick mine on March 11, the second on April 21, the third on July 17, the fourth on October 7. These were regular inspections under the law, at which the whole mine was inspected, the air measured, the number of employes noted, and the condition of the mine in general set forth. The reports of these inspections are on file in the Department of Mines at Harrisburg, and were submitted as evidence before the jury. They all show the mine to have been in comparatively safe and healthy condition, with only a trace of fire-damp found in a few places. The mine was known as a gaseous one, where locked safety lamps were used, but no standing gas was found at any time by the inspector.

On November 4, 1903, Mr. Cunningham was called to the Harwick mine to investigate the cause of a fatal accident. After completing the object of his visit, he, in company with the mine foreman, inspected the south main entries and butts, which he considered the most likely to contain gas, if any existed in the mine. He found no gas, but, on the contrary, everything was in safe condition. A report of this visit was also made to the Department of Mines. Had he inspected this mine on the 7th of January, 1904, three months subsequent to the October examination, and about three weeks before the explosion, he would have most likely found it in the usual comparatively safe condition. Such an examination would also have had a tendency to exonerate him in the eyes of the jury.

The evidence given before the jury showed that the ice was cut and removed at the inlet and in the overcast during December and the early part of January, but that for two or three weeks immediately preceding the explosion no ice was cut. It was also proved that on Saturday, January 23, two days before the explosion, the ice had accumulated to such an extent in the overcast that not more than half of the original area was available for the air current. During Saturday night and Sunday night of the 23rd and 24th of January, the thermometer registered below zero at Harwick, and the area in the overcast was likely much less on the morning of the 25th than on the morning of the 23rd. Of course this is only a conjecture.

The ventilation of the mine at each inspection was found ample, showing from 500 to 700 cubic feet of air per minute for each person employed. The Inspector did not consider the mine a very dusty one. He found, however, that they were watering the roadways as practiced in some other mines. In this connection I think it is proper to state that the law regarding the laying of dust in the mines should be amended, or we shall hear of more explosions from gas and dust, and possibly from dust alone in non-gaseous mines. I explained to the Treasurer of the Allegheny Coal Company the

method adopted in the anthracite mines to prevent the coal from taking fire from gas ignited by blasting. The method is as follows: A large pipe, say eight inches in diameter, is conducted through all the main entries, and a branch pipe is laid into each chamber with a hose attachment to each pipe. When they are ready to fire a blast, they are careful to note that the water attachments are in working condition. If a blast ignites the gas in the entry or room, they turn on the water and saturate the bottom, sides and roof of the room or entry, as the case may be. If some similar method to this were adopted in all dusty bituminous mines, the danger from explosions of gas or dust from blown-out shots would be greatly lessened. The mode of undercutting, and the placing and tamping of the holes, must have more attention on the part of the mine managers, superintendents, foremen and miners, in gaseous and dusty mines, if we are to prevent accidents of this nature. There are many mines in the bituminous counties of the State that are much more dangerous than the Harwick, and under conditions similar to those that existed at the Harwick on the 25th of January, 1904, a blown-out shot might cause another disaster of appalling magnitude.

The bituminous mine inspectors of Pennsylvania are doing all in their power to fulfil the requirements of the present law relating to gaseous and dusty mines, and they cannot be expected to do anything more. If a law were enacted requiring that the dust in all mines be taken out as far as practicable and the roof, bottom and sides of rooms and entries be thoroughly saturated with water, so that dust will not float in the air as a menace to human life, the danger from explosions would be practically eliminated. Wherever coal is mined by machines the atmosphere will be impregnated with dust, the finest particles floating in the air, and the danger to be apprehended from such a condition can only be averted by putting into practice the method herein suggested of saturating the mine with water. Under no circumstances should blasts be fired in a room or entry within an hour from the time a machine had been used or until the dust created by the machine had been allowed to settle on the floor, sides and roof, which then should be drenched with water. The mode and depth of undercutting by machines should be regulated by law, and more attention should be given by the foremen and assistants to the location and depth of holes for blasting. The kind of explosives and the amount needed for each hole should be regulated; the material for tamping the holes should be selected and taken into the mines from the surface, if suitable material is not available inside; the foreman should be the sole judge of the tamping material. Then if the holes

are properly placed, an adequate amount of explosive used, and the holes carefully tamped, the chances for blown-out shots would be greatly lessened. Without going into a discussion of the question as to whether or not coal dust can be exploded by a blown-out shot in the absence of fire-damp, I may be pardoned for saying that even in gaseous mines, if the air is circulated through the whole mine as provided by law, the dust taken out or thoroughly saturated, and the other provisions as stated carried out with care, disasters of a serious character could hardly occur.

A brief report is herewith given of the inquest held Tuesday, March 29, 1904, before Jesse M. McGeary, Coroner of Allegheny county, and the Coroner's jury, to inquire into the cause of the Harwick disaster. The testimony is not given verbatim, as it is too voluminous to be incorporated in this report; but the synopsis covers all the essential points of the witnesses, who include engineers, superintendents, inspectors and miners.

Adolph Gunia, the only survivor of the explosion, testified, in part, as follows:

He lived at Harwick and had been a coal miner for four years, and had worked at the Harwick mine ever since it was opened. He worked in the first right north entry, in rooms 5 and 6. He had seen the fire boss, the mine foreman, and the shooters open their lamps. About a week before the explosion he had seen a lamp opened. He had also seen water wagons used on the roads to sprinkle the dust, but it had been a good while before the explosion. The fifth left entry, in which he worked most of the time, he had often seen sprinkled. He had seen the gas take fire from shots, but it would go out again. He also said that Mr. Brown, the mine foreman, visited his working place every day, sometimes twice a day. At the time of the explosion Gunia was at the bottom of the shaft.

In describing the explosion he said: "Before the explosion the air just held me in place. I think it must have held everybody else, because it held me and I couldn't move. I was just like I was unconscious. It lasted about a second, and then the explosion came." It sounded to him like a big report and he saw a little flame, which he thought came from the south. When asked if the flame came along the roof, he said that he didn't have time to see that. He was knocked down and pushed for some distance. He did not think that he had been unconscious at any time except right after the explosion. His lamp was blown out and his eyes were burned. He was rescued about six o'clock, in the evening, and was therefore about ten hours in the mine. Mr. Gunia said that in his opinion the cause of the explosion was a blown-out shot and that he thought it came from the south side, but wasn't sure. He saw the light coming

from some direction and supposed it to be from the south. He said he had seen the mine foreman light shots with a naked lamp about a month or so before the explosion, but had never seen any of the shot lighters do it. Mr. Gunia said that he could hear a blower any place where there was water. He didn't know, however, "whether it was a blower or whether it was just kind of bubbling up all the time." He supposed that it was the gas bubbling up through the water. They generally tamped the holes with dust dampened with water, made the cartridges out of paper and filled them up with dust and tamped them. He said that they did not have water in the dry parts of the mine to dampen the tamping for their holes, but that they were tamped in any way. He had heard that it was dangerous to tamp a hole with dry dust. He had known of shots being fired in the gas on the south side in either the 3rd butt or the 5th left butt, in some of the rooms, towards the top of the butt. He knew that when a shot was fired the gas or dust was set on fire, and would burn, and sometimes explode. The shot firers had two Davy lamps to light the shots. He had seen them fire a shot. They had a wire that they put between the gauze and heated and then touched the fuse with it. On the north side of the mine in the first right, and on the south side up around the 5th left, he had seen the mine foreman fire a shot with an open light.

On the morning of the 25th of January, Mr. Gunia saw the fire boss coming out of the mine and heard him say to Tom Brown, the top man, that it was all right if the engineer was ready. Gunia then went into the mine to the first right butt on the north side, rooms 5 and 6. He didn't have time to see Mr. Gordon's mark that morning in his working place, as Gordon told him, as soon as he got in, that Mr. Brown wanted him at the foot of the shaft, to shift the empty cars away.

Mr. Gunia said it was dusty in the mine and that he had seen them sprinkling the entries, but not the working places. He was fully satisfied that the explosion occurred from a shot. He had no reason to believe it occurred from an open light at the bottom of the shaft. When the explosion occurred, men were working on the east side of the shaft from Mr. Gunia, but after the explosion he could hear no sound of any kind.

Mr. Sowden testified, in part, as follows:

He was superintendent of the Harwick mine and had been for eighteen months immediately preceding the explosion. Before that he had been superintendent in the Massillon, Ohio, district for eighteen months. He had had continuous experience in coal mining since 1869, and the Harwick mine, he said, was the second gaseous one in which he had worked. In the other gaseous mine, he had filled the positions of trapper and driver; that was about 34 or 35

years ago. Mr. Sowden's home is at Cheswick, where the Harwick mine is located.

The mine foreman at the mine was George Brown, and the fire boss was Joseph Gordon, both of whom were supposed to be dead in the mine. Mr. Sheetz, the manager, engaged Mr. Brown, and Mr. Sowden assisted Mr. Brown to engage the fire boss. Mr. Sowden said that the fire boss was supposed to make an entry on the record book every morning before the men were allowed to enter the mine, but was not certain that he did it on the day of the explosion. Mr. Sowden had glanced at the record book after the explosion, probably some time during the forenoon, but did not remember whether he had seen the fire boss' record in the book. He did not think, however, that an entry had been made. He examined the record book about twice a week and was sure that he had examined it about a week before the accident. He was supposed to know the condition of the mine every day to a certain extent, but he admitted that he did not. To have that knowledge it would be necessary to make daily examinations of the record book. No dangerous condition of the mine had ever been reported to him by the mine foreman or the fire boss. The company had no rules relative to the reporting of accidents or explosions to the superintendent, but Mr. Sowden said that the men would certainly report any that occurred.

He accompanied the mine foreman in his tours of inspection, which consisted of an examination of the roof, looking for bad slate and also for fire-damp. The last examination was made about two weeks before the accident. In the Harwick mine the Davy lamp was used by the shot firers, the Clanny lamp by the drivers and by some of the miners. The Wolf lamp was also used. Mr. Sowden said that he provided, as well as he knew how, all material for safety purposes as required by the mining laws of Pennsylvania. The company had never refused him anything. He said he did not interfere with the mine foreman or the fire boss in the discharge of their duties. When asked if the mine foreman had ever reported a greater quantity of dust than usual, he said "No." And in regard to sprinkling the dust, he said the mine foreman used his judgment. He (the foreman) had water carriers there and every once in a while he took them around in the mine. They baled the water into boxes, on which there was a sprinkler attachment for sprinkling the road. When asked if he knew that the road had actually been sprinkled under the direction of the mine foreman, he said he couldn't say that it had been done, but he had had sprinkling done to the main hauling road. Mr. Sowden, with the assistance of Mr. Brown, hired the miners; Mr. Brown hired the shot firers. The competency of the miners was determined to a great extent by the statements made to Mr. Sowden. The shooters employed were Bachman and

Beecham, who were considered competent by Mr. Brown. The duty of the shooters was to light the shots for the men after the miners got their powder right and their holes properly tamped. The miners drilled the holes and tamped them, and had them all ready for the shooters. The men furnished their own tamping. When asked whether the dust or slack in the Harwick mine would be considered a proper tamping material, Mr. Sowden said that dust and slack and dirt and refuse were all that he had ever used. Dynamite was the explosive used to blast the coal. He was of the opinion that the mine inspector had inspected the mine probably two or three weeks before the explosion, at which time he had posted the regular official notice of the condition of the mine, showing that the condition was good. The inspector at that time had recommended that "something (some attachment) be put on the fan." Mr. Sowden did not remember just what it was, but he had notified the mining boss to attend to it. The mining machines used in the Harwick mine were the Harrison puncher, the Ingersoll puncher, the Sullivan puncher, and the Champion machine, built in England. Compressed air was used to run the machines, of which there were sixteen.

Mr. Sowden said in regard to the mining laws of Pennsylvania, that he had read them partially, such portions as had been brought to his attention. He defined the duties of the mine superintendent to be as follows: "To see that all machinery is in safe condition, that good competent men are in all places of trust, that all supplies and such like are sent into the mine for the safety and welfare of the same and also of the employes." He admitted having signed the mine foreman's report book, but said he had not done so for seven or eight months, as there had been some little difficulty between him and the mine foreman in regard to it. "It had been insinuated to the mine foreman that I was bossing the mine on his papers, and when he reported the same to me I just gave up and told him I was signing nothing and was doing nothing with the inside men, and did not from that day to this." When asked why he did not sign the book in compliance with article 7, section 1, he replied that he never considered that he had any authority in the mine. He had signed the record book once a week up to May 7, 1903. After that he had refused to do it, for the reason stated. He had visited the foot of the air shaft probably three weeks before the explosion and found it in good condition. He said it was the mine foreman's duty to keep the ice from the foot of the air shaft. The fan in the mine was usually run at about 70 to 90 revolutions per minute. The rules governing the miners were posted on the outside in six languages, according to Mr. Sowden's belief. When the miners were unable to read the rules, it was the mine foreman's business to explain them.

Open lights were used at the foot of the shaft at the time Inspector Cunningham made his official visit. Mr. Cunningham had recommended that they be dispensed with, as in his judgment it would make the mine safer. The matter was left to Mr. Brown, but Mr. Sowden did not think that the open lights had been dispensed with. He said that he had looked at the fire boss' record book to see if there was any gas in the mine, but had never gone into the mine to make an examination. He had, however, cautioned the mine foreman about using open lights on the day that Mr. Cunningham visited the mine. He did not mention the matter after that. In answer to a question by Inspector Roby, he said that he had discovered gas three times in different parts of the mine.

On the Sunday before the explosion, Mr. Brown told him that if the cold weather continued, he would have to remove the ice at the bottom of the fan shaft, but said it wasn't doing any harm yet and wouldn't for a week or so if it didn't get worse. The ice was frozen at the bottom about 2 feet, which reduced the area of the shaft about 16 feet. The original area was about 48 to 50 feet. This would have a tendency to reduce the volume of air.

In regard to shot firing, Mr. Sowden said that the mine foreman's instructions were to see that the holes were located right and charged right. Sometimes they used compressed air, as a precautionary measure, he thought. The usual depth of the undercut was $4\frac{1}{2}$ feet, and the depth to which they bored their holes was about 4 feet. Mr. Sowden had heard of several blown-out shots. In tamping the holes they used slack and dirt and refuse from back along the roads. The mine foreman did not give any instructions regarding tamping; every miner used his own method. The firing was done with a fuse and the fuse was lighted with touch paper or wire. The wire was heated through the gauze of the Davy lamp. There was a certain amount of danger connected with this method. Mr. Sowden said, however, that he approved of the method of lighting the shots and also of the method of tamping with dust. He was in No. 1 butt entry south on the 15th of January and found the condition all right, that part of the mine not being any more dusty than any other part.

Ventilation was maintained at all times and was conducted through the cut-throughs and to the face. Section 1, article 4, of the act of 1893, reads as follows: "The operator or superintendent of every bituminous coal mine, whether shaft, slope or drift, shall provide and hereafter maintain ample means of ventilation for the circulation of air through the main entries, cross entries and all other working places; to an extent that will dilute, carry off and render harmless the noxious or dangerous gases generated in the mine, affording not less than 100 cubic feet per minute for each and every person employed therein; but in a mine where fire-damp has

been detected the minimum shall be one hundred and fifty cubic feet per minute for each person employed therein, and as much more in either case as one or more of the mine inspectors may deem requisite." When asked if this section had been complied with by the mine foreman, Mr. Sowden said: "I am confident that it was." "Well, do you know whether it was?" "I don't know as a fact whether it was."

In regard to the use of safety lamps, Mr. Sowden said that the mine foreman required the men to understand the use of the lamps. In his opinion the explosion was caused by a blown-out shot. He did not think there was any gas in the mine, the principal part of the disaster having been caused by dust. Cleaning the dust and carrying the ventilation to keep the mine clearer from standing gas would, he thought, have prevented the explosion. He said that he was superintendent of the surface work and when he went into the mine to help Mr. Brown he did so as an assistant. He said that he had never examined the air measurements particularly, although he supposed it was his duty.

T. M. Jones testified, in part, as follows:

He lived at Hites, Allegheny county, had been a coal miner for 18 years, and had worked at the Harwick mine for about a year and a half. He was not in the mine when the explosion occurred, but was going on the night shift on the 25th, the day of the accident.

He had seen open lamps in the mine, which he said had been opened by the shot firers, the fire boss and the pit boss. He named Mr. Bachman, Mr. Beecham, Mr. Brown, Mr. North, Mr. Gordon and Mr. Bell. He said that they used to open their safety lamps to light their lamps with in the entries. The shooting in the mine was done at all hours of the day by Arthur Beecham, Thomas Bachman, Mr. Gordon and Mr. Brown. He considered some of the foreigners that worked in the Harwick mine as incompetent; others, he said, were all right. The rules, he said, were posted at the mine in foreign languages. He considered the mine pretty dusty, but said he had seen them sprinkle the roads once or twice in the heading, the third right to the north. He always thought the air was pretty good. When asked if he had ever seen any rooms turned off the entries ahead of the last cut-through, he said, "Yes, I saw them in the third right in the south, in the north, in the first right in the north, and in the entry I worked in, in the fourth right in the south, and in the one I work in now; but the entry men worked in these rooms." He said that he had seen the miners tamp and fire their own shots, that he had done so himself on authority from Mr. Brown and Mr. North.

On the 23d of January (which was Saturday before the explosion) he had seen ice close at the foot of the air shaft, but couldn't state how much. When asked if the ice would reduce the size of the

entry, he said it would. "The usual height of the overcast is about 6 to 7 feet, and I had to stoop down to walk under it." The ice, he said, was on a level with the overcast. On the morning of the accident he had spoken to a fellow-workman and told him that he didn't consider it a safe thing to have the ice left at the foot of the air shaft. He was afraid it might close the bottom of the shaft, which would be liable to stop the air traveling through the mine and cause an explosion. The mine was supposed to be generating gas, and by closing off the air and stopping the circulation, the gas would be allowed to accumulate and put the mine in a dangerous condition. He did not, however, report this to the mine foreman.

When asked if he had ever gone into his room to see the effect of a shot, and whether he had found any flame at the back of the shot, he said that he had not gone into the room but had gone into the entries, where he had seen flames and helped to extinguish them. His opinion was that this explosion was caused by a blown-out shot. The most gas he found was in the north part of the mine. In answer to the question as to what distance from the roof he caught indications on his safety lamp, he said, "I have caught it down pretty near the bony, in the second right in the north. I caught it down 2 or 3 feet from the roof, anyhow." He said that he didn't think a man could work in a place of that kind. He did not know of miners working where gas could be detected by a lamp; he said they generally removed the gas by compressed air. They had used compressed air to blow the gas out of the mine on the 23rd of January. He said he had seen the shot firer examine for gas, and when he found it he generally blew it out with compressed air.

The usual depth of the undercut was from $\frac{1}{2}$ to $4\frac{1}{2}$ feet and the depth of the hole was about $3\frac{1}{2}$ feet to 4 feet. The seam ran from 6 to 7 and 8 feet. The holes were located pretty close to the roof. In the headings they used three sticks of dynamite, which would leave about 3 feet of room for tamping. For tamping, he said, they generally gathered up damp slack and made dummies and tamped the dummies. He said the top bench was the hardest coal and that the chances of a blown-out shot were therefore greater in the top than in the bottom. He did not think the best method of mining had been adopted at the Harwick mine. The coal was not mined deep enough for the height of the vein. In his opinion the coal ought to have been mined as deep as it was high.

Regarding dust in the mine, he said that they would scrape up a little, what they could, but it was impossible to load all the machine dust. Where the machine was at work, he said that they would "kind of strangle" from the dust floating in the air, but he had never seen any dust outside of the entry or room where the machine was at work. He had seen a blown-out shot in the mine,

and said the coal had caught fire. He did not know whether the dust had been fired, but it was pretty smoky. He supposed the coal caught on fire from the flame of the shot.

Edward Bell, mine superintendent of the Clark Coal and Coke Company, testified, in part, as follows:

He had been connected with coal mines for 45 years and had been a superintendent for about 3 years. For a year and a half previous to September 6, 1902, he had been superintendent of the Harwick mine. When interrogated as to the method of ventilating mines, he said that he did not consider the three entry system, as used at Harwick, the best system, but it was better than some others in use. Better ventilation would have been obtained by having four entries instead of three, which would have left a return on each side and also an intake on each side of the workings. This method, in his opinion, would have been an improvement. Mr. Bell examined the Harwick mine in February, after the explosion, and in giving the details of the conditions as he found them, he said: "There were pretty bad falls in the north main entries taking in the north side. In fact there were falls on the three north main entries and in quite a number of rooms in every entry in the mine. There had evidently been some falls in No. 3 left butt on the south, slight falls in No. 4, falls in the main south and the rooms, quite a number of them, in fact a majority of them. There were falls throughout the entire mine. The timbers had been blown out both in the rooms and entries, and at the shaft bottom. I believe the point of ignition was at No. 2 butt in the south entry, because from that point I find the coke on the posts. I think the gas was ignited from a blown-out shot. The cause of a blown-out shot is an overcharge of powder, not rightly tamped, that is one cause. Another cause is trying to break down the material which the powder is not able to do."

When asked if the superintendent had any right to go into a mine and assume any authority over either the fire boss or the mine foreman, he said: "Not unless it would be to enforce the law." He also said he did not believe that mine foremen and fire bosses ought to have certificates. He said the superintendent should have a mine foreman's certificate because he should have fully as much intelligence about mining in its various branches, as a mine foreman has. He said in regard to blasting in a gaseous mine when the men were at work, that it could not possibly be avoided if the output of coal was to be kept up. He did not approve of the practice of driving gas out of a place by compressed air, as was practiced in the Harwick mine.

Regarding the fire boss' report as to gas in the mine, Mr. Bell said that in the morning the mine foreman depended upon the fire boss' report and acted in accordance therewith; and that the super-

intendent depended upon the mine foreman's report as to the general conditions in the mine.

Upon being asked to show the jury on the map where he believed the blown-out shot occurred, he said "Right at the corner of the entry No. 2 left butt in the south. That is where I believe the point of ignition was. There was coke in these rooms and on the post here (indicating) and in this entry there was a division apparently. Part of the explosion came up and part went down, and that is what leads me to suppose where it started from. We found most of the coke there, but we found coke in all parts, which indicated that there was a great quantity of dust. I believe the dust had all to do with the explosion. At the time we made our inspection we had two splits of air in the mine and the total amount in both splits amounted to about 24,000 cubic feet, while according to their report before the explosion they were circulating 74,000 cubic feet. We found no evidence of gas whatever at that point. Wherever we could see a machine had been used at the time of the explosion, there we found the most coke." Mr. Bell stated that he believed that a blown-out shot had ignited the dust, that there was no gas there. He found four or five different places where there were blown-out shots.

When asked to state the duties of a mine superintendent, Mr. Bell said: "The first duty of a mine superintendent is to see that there is proper ventilation apparatus at the mine, to see that the mine is in a healthy and safe condition, to see that the appliances, whether it is a furnace or a fan, would be of sufficient capacity to keep the mine in a safe condition, to see that there are sufficient supplies on hand for the safe working of the places in the mine, and also to see if the fan, or the furnace, is stopped at any time, and before it is started to know that the mine is safe."

To make a mine such as the Harwick safe, Mr. Bell said that the work would have to be carried on with a view to the safety of the employes even if it affected the output of coal. "I believe there is something better than sprinkling for the removal of dust. In a mine where they use compressed air, you could take the jet and the hose on the machine and sweep the dust off the sides and the roof, and force it out into the current, when there is nobody in the mine. The currents could be diverted and the whole thing swept to the surface." In explanation of the proposed method, Mr. Bell said: "In each of the rooms and entries they had, I believe, an inch and a quarter air pipe. At the end of the pipes a 50 foot hose is attached from the pipe to the machine. They could reach a distance of almost 100 feet from the end of the pipe where the hose is attached, 50 feet forward and 50 feet back. By diverting the air currents and forcing them at a high velocity through certain sections,

they could take the dust from the face of the rooms and face of the entries to the surface. This could be done by a continuous air current, by throwing the current into one section at a time and closing off all the other sections." He said that he thought the Harwick mine was equipped with a fan of sufficient capacity to do the work he had outlined.

Mr. Taylor, he said, had planned the opening of the Harwick mine and had consulted with him, as the superintendent, in regard to it, but had not consulted with the Inspector that he knew of. The plan adopted was approved by Mr. Bell. The method was to undercut the coal in the bottom. "At my suggestion, we tried undercutting coal in the bone. As it was successful, Mr. Taylor told me to continue in that way. Our tests showed that we could make a cut in the bone in 35 minutes, which was less time than it required to cut in the bottom. In blasting the coal at the top and the bottom, we put one shot under each rib and in the top, one in the bottom, and it took a very small quantity of explosive to blow the top down and the bottom up. It took four charges for the cut. We used the lowest percentage of dynamite, and it required less than a stick in each hole when we undercut it in the bone. At the time of the explosion every place I visited, except one, the undercut was at the bottom. One place they were cutting in the vein, in No. 3 or No. 8 room, the first right entry to the north, I think." Mr. Bell said that he did not consider the present method of mining at the Harwick mine as safe as the one practiced while he was superintendent. When asked whether the dust from the bone would be as dangerous as the dust from the undercut of the coal, he said, that while not an expert, he thought there would be very little difference. He could not suggest a safer method than the one employed while he was connected with the mine. When asked if he thought the explosion might have been averted if his method had been continued, he said it might have been. He believed, anyway, that it would have reduced the chances of an explosion 75 per cent. He said he, as superintendent, had employed the inside workmen, and that all workmen should be selected with care as to their practical experience as miners, and should have some knowledge of fire-damp and the use of safety lamps. He further said that even if all the stoppings had been built of stone, he did not think it would have prevented the explosion.

The duty of shot firer, Mr. Bell said, was to go around when called upon by parties that were ready to shoot. The miners, of course, did their own drilling and tamping. The shot firer's first duty was to examine the place and find out if it was safe. He was positively instructed not to fire a shot if any explosive gas was present. They, the shot firers, were not to light any shot with a naked light.

"We used a touch paper and a wire, I think an 'A' fiddle string, which was inserted through the meshes of the gauze and made red hot, then applied to the touch paper and the fuse lighted. In a gaseous mine the battery is the safest method generally, but the touch paper is just as safe with good, competent shot firers. In a mine generating fire-damp, I believe the touch paper the safest, for the reason that a man would be right in at the face when he lighted the shot. With the battery he would be away 100 or 150 feet and be more apt to take chances of a slight quantity of gas being present." When asked the question, if the air in the inlet had been partly closed off by ice on the morning of the explosion, would it have reduced the quantity of air in circulation, with the same power being applied, he said it would. "It would reduce the pressure upon the face of the coal and by a reduction of pressure there would be a possibility of greater generation of fire damp. A reduction of pressure would have a tendency to increase the generation of gas, and this might have occurred to some extent the morning of the explosion." Mr. Bell said that while he was superintendent at Harwick some of the advance places generated fire-damp, and to get rid of it they would brattice up, and if fire-damp was found after that they would make a break-through between the entries. They would drive the entries 30, 40 or 50 feet, and then if they found fire-damp accumulating, they would sweep it out with compressed air until they could erect a brattice. He said that the projection of air from the mouth of the nozzle at high pressure stirred up the dust in the air and brought about to a certain extent a dangerous condition of the mine. If the dust could have been swept 100 feet from the face or from the shot, he didn't think there would have been an explosion, even with coal dust and a blown-out shot. He said the finest particles of coal dust were the most dangerous and that they always existed in a mine when a machine was being operated.

In regard to the fan at the Harwick mine, he said that the capacity depended upon the number of revolutions. The fan was guaranteed to circulate 150,000 feet through the mine. Mr. Bell said that in continuously extremely cold weather, such as they had had in January, there would be a greater accumulation of dust in the Harwick mine than there would have been in warm weather, for the reason that the strata being warmer in the mine than the atmosphere outside become dry. In summer time the strata become cooler and sweat, and sweating acts as a sprinkler. No mine, in Mr. Bell's opinion, can be rendered safe from an explosion of dust by sprinkling. The Harwick mine was dustier than most mines that he had seen. It was dustier than they expected to find it when they opened that territory, but he did not think it required

a circulation of 95,000 feet of air to keep the mine in safe condition as far as fire-damp, or marsh gas, was concerned.

F. W. Cunningham, State Mine Inspector of the Fourteenth District, in which the Harwick mine is situated, testified, in part as follows:

He lived at Wilksburg and had been Inspector since January 27, 1903. He had worked in the mines for about 16 years, during which time he had been mine foreman for ten months and miner for about five years. There were 73 mines in his district, 20 of which generated gas, and they all used safety lamps. He considered the Harwick mine the best in his district as regards safety. On the 11th of March, 1903, he made an official examination of the mine and found very slight traces of gas. The dust was not sufficient to be considered dangerous. Eight or ten machines were working in the mine at this time. Mr. Cunningham described, in detail, the air measurements and said that the fan used at this mine was a Capell fan, 13½ feet in diameter and 7 feet wide. A copy of the report made by Mr. Cunningham to the Department of Mines of his inspection on this date is given herewith.

MINE INSPECTION

Inspection No. 10 and date of March 11, 1903.

1. Name of operator, Allegheny Coal Co.
2. Name of mine, Cheswick.
3. Kind of opening, shaft.
4. Location of mine, P. R. R. at Cheswick.
5. County, Allegheny.
6. Are means of egress up to law's requirements? Yes.
7. Is the air measured by inside foreman according to law? Yes.
8. Cubic feet of air entering at inlet, 57,760.
9. Number of splits of air in mine, two.
10. Cubic feet of air in each split, 31,960-25,800.
11. Number of persons employed in each split, 50-25; total 75.
12. Number of animals in mine, 8.
13. Cubic feet of air near face of each heading, 9,350-2,280-4,000, 4,800-9,600-12,480.
14. Cubic feet of air at or near outlet, 55,560.
15. Are the air currents conducted according to law? Yes.
16. Does the mine generate explosive gases? Yes.

- 17. Is the hoisting machinery in good order? Yes.
- 18. Are the hoisting ropes in good condition? Yes.
- 19. Are the safety appliances in working order? Yes.
- 20. Was the mine in operation when inspected? Yes.

Remarks

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F. W. CUNNINGHAM, Mine Inspector,
 14th Bituminous District, Pa.

He said there was no recording instrument on the fan and that Mr. Sheetz promised to order one for the fan, but delayed getting it until after the explosion. Having promised to get the instrument, Mr. Cunningham said that he did not think it was his duty to have him arrested.

He said that the overcasts at the intake and at the return of the air were large enough. On his visit to the mine on April 21, 1903, he found 78 men employed and the mine in good condition. All the gas he found was "probably just a very small amount up right at the face of the south main entry." The mine wasn't found dusty on this visit. He generally looked at the fire boss' book of daily reports to see whether there was any gas in the mine.

MINE INSPECTION

Inspection No. 43 and date of April 21, 1903.

- 1. Name of operator, Allegheny Coal Co.
- 2. Name of mine, Cheswick.
- 3. Kind of opening, shaft.
- 4. Location of mine, 1 mile west of Cheswick Station.
- 5. County, Allegheny.
- 6. Are means of egress up to law's requirements? No.
- 7. Is the air measured by inside foreman according to law? Yes.
- 8. Cubic feet of air entering at inlet, 69,000.
- 9. Number of splits of air in mine, two.
- 10. Cubic feet of air in each split, 42,000-27,000.
- 11. Number of persons employed in each split, 66-12. Total, 78.

12. Number of animals in mine, 9.
13. Cubic feet of air near face of each heading, 6,480-3,240-8,400-9,000-6,600-6,100.
14. Cubic feet of air at or near outlet, 67,940.
15. Are the air currents conducted according to law? Yes.
16. Does the mine generate explosive gases? Yes.
17. Is the hoisting machinery in good order? Yes.
18. Are the hoisting ropes in good condition? Yes.
19. Are the safety appliances in working order? Yes.
20. Was the mine in operation when inspected? Yes.

Remarks

The 2nd opening was not in condition for egress; they promise to fulfill the law immediately by working night and day to get stairs in the air shaft.

F. W. CUNNINGHAM, Mine Inspector,
14th Bituminous District, Pa.

He visited the mine on the 17th of July, and he read to the jury a report of his examination at that time, which showed the general conditions satisfactory, except at the shaft bottom, where they were using open lights. He said that he didn't think the open lights were dangerous, but he advised their discontinuance as he thought it would look a little better. When asked to define what he considered a dangerous quantity of gas, he said that any quantity is dangerous where it is allowed to accumulate. If it is carried away in the air current as fast as it accumulates, he didn't consider it dangerous.

He said that the plan of the mine as to ventilation was better than that of most mines and was above the average. It could be made better by driving four main entries instead of three.

MINE INSPECTION

Inspection No. 100 and date of July 17, 1903.

1. Name of operator, Allegheny Coal Co.
2. Name of mine, Cheswick.
3. Kind of opening, shaft.
4. Location of mine, West Penn R. R., near Cheswick.
5. County, Allegheny.
6. Are means of egress up to law's requirements? Yes.

- 7. Is the air measured by inside foreman according to law? Yes.
- 8. Cubic feet of air entering at inlet, 60,200.
- 9. Number of splits of air in mine, 6.
- 10. Cubic feet of air in each split, 22,000-5,500-8,500-6,000-8,000-6,700.
- 11. Number of persons employed in each split, 16-9-10-10-10-20. Total, 75.
- 12. Number of animals in mine, 10.
- 13. Cubic feet of air near face of each heading. 7,700-5,500-8,500-6,000-6,700.
- 14. Cubic feet of air at or near outlet, 59,360.
- 15. Are the air currents conducted according to law? Yes.
- 16. Does the mine generate explosive gases? Yes.
- 17. Is the hoisting machinery in good order? Yes.
- 18. Are the hoisting ropes in good condition? Yes.
- 19. Are the safety appliances in working order? Yes.
- 20. Was the mine in operation when inspected? Yes.

Remarks

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F. W. CUNNINGHAM, Mine Inspector,
 14th Bituminous District, Pa.

Mr. Cunningham visited the mine on October 7, and he read a copy of the official report as made to the Department of Mines. The report is as follows:

MINE INSPECTION

Inspection No. 145 and date of Oct. 7, 1903.

- 1. Name of Operator, Allegheny Coal Co.
- 2. Name of mine, Harwick.
- 3. Kind of opening, shaft.
- 4. Location of mine, near Cheswick, West Penn R. R.
- 5. County, Allegheny.
- 6. Are means of egress up to law's requirements? Yes.
- 7. Is the air measured by inside foreman according to law? Yes.
- 8. Cubic feet of air entering at inlet, 95,000.
- 9. Number of splits of air in mine, 6.
- 10. Cubic feet of air in each split, 35,000-12,500-11,500-6,000-7,000-9,000.

11. Number of persons employed in each split, 25-34-17-9-19-19; total, 123.
12. Number of animals in mine, 10.
13. Cubic feet of air near face of each heading, 8,000-21,000-6,000-11,500-9,000.
14. Cubic feet of air at or near outlet, 96,000.
15. Are the air currents conducted according to law? Yes.
16. Does the mine generate explosive gases? Yes.
17. Is the hoisting machinery in good order? Yes.
18. Are the hoisting ropes in good condition? Yes.
19. Are the safety appliances in working order? Yes.
20. Was the mine in operation when inspected? Yes.

Remarks

Slight trace of gas found in No. 1 south main and in 1 and 3 rooms of No. 3 right of 3rd south.

Mine in a safe condition.

F. W. CUNNINGHAM, Mine Inspector,
14th Bituminous District, Pa.

He did not find any dangerous condition existing in the mine at that time. His next visit to the mine was on the 4th of November, when he went to investigate the cause of a fatal accident. He tested for gas at this time, but did not take any air measurements, as he did not have his anemometer with him. He "knew and considered that there was enough air in the mine." He said that he inspected the south part of the mine, as he understood they were considering the stopping of one of the entries. After investigation he objected and insisted that they continue the three entry system. He inspected the mains for gas, but did not find any in Nos. 1, 2 and 3 south or in the bottom entries.

"Wilksburg, Pa., November 4, 1903.

Investigating accident; inspected part of mine; attended the inquest and attended to a law suit.

Investigating accident, 2 hours. Inspected Nos. 1, 2, 3, 4, 5, 6, 7 and 8 left and 1, 2, 3 right south and main entries. No air measurements taken. All places in good condition. (No gas.) 2 hours. Attending inquest, 1 hour. Allegheny Coal Co., Harwick shaft.

Attending law suit at New Kensington of two miners shooting coal off the solid, 2 hours; traveling on duty 3½ hours."

Mr. Cunningham was asked to define the specific duty of the mine inspector, and he read article 10, sections 11 and 12, as follows:

"Each inspector of bituminous coal mines shall devote the whole of his time to the duties of his office. It shall be his duty to examine each mine in his district as often as possible, but a longer period of time than three months shall not elapse between said examinations: to see that all the provisions of this act are observed and strictly carried out. And he shall make a record of all examinations of mines, showing the condition in which he finds them, especially with reference to ventilation and drainage, the number of persons employed in each mine, the extent to which the law is obeyed and progress made in the improvement of mines, the number of serious accidents and the nature thereof, the number of deaths resulting from injuries received in or about the mines with the cause of such accident or death, which record completed to the 31st day of December of each and every year shall, on or before the 15th day of March following, be filed in the office of the Secretary of Internal Affairs, to be by him recorded and included in the annual report of his department.

It shall be the duty of the mine inspector on examination of any mine, to make out a written, or partly written and partly printed report of the condition in which he finds such mine, and post the same in the office of the mine or other conspicuous place. The said report shall give the date of the visit, the number of cubic feet of air in circulation and where measured, and that he has measured the air at the cut-through of one or more rooms in each heading or entry, and such other information as he shall deem necessary, and the said report shall remain posted in the office or conspicuous place for one year and may be examined by any person employed in or about the mine."

Mr. Cunningham said that the law did not require that he should examine every working place in the mine, and that he had devoted the whole of his time to the duty of his office.

When asked if he had investigated the method of blasting coal in the Harwick mine, he said he didn't remember exactly if he had investigated it thoroughly, but he saw them undercut and he generally asked them what they tamped with. "I found out more about that than anything else. They told me they tamped with wet coal." He said that he had never heard of a blown-out shot in the Harwick mine until after the explosion, nor had the fire boss, whom he questioned in regard to the matter. Mr. Cunningham said that the explosive used in the mine was dynamite, but he did not know of what strength. Referring to the method of firing shots in the Harwick mine, he said he did not find any fault with the method as long as it was carried out.

Mr. Cunningham said that the ice at the foot of the shaft and near the overcasts would certainly be a great impediment to the ventilation of the mine, as it would reduce the area at the bottom of the shaft. He said that a week before the explosion the air in the mine, if reduced one-half, would have been sufficient for the 180 men employed. He said that he did not go to the foot of the air

shaft on his visit to the mine in November. A week after the explosion he had seen ice at the bottom of the shaft $3\frac{1}{2}$ feet thick.

His opinion was that the explosion was caused by a blown-out shot in No. 1 monkey entry on No. 3 room of No. 1 butt left south. He said that the Harwick mine might have been safe on October 7 and November 4, and yet be unsafe the next day.

REPORT OF THE MINE INSPECTORS TO THE CHIEF OF THE
DEPARTMENT OF MINES IN RELATION TO THE HARWICK
EXPLOSION. (In Adams' testimony.)

Pittsburgh, Pa., January 30, 1904.

Mr. James E. Roderick, Chief of Department of Mines, Harrisburg,
Pa.:

Dear Sir: In compliance with your instructions relative to the explosion in the Harwick mine, by which so many persons lost their lives, we beg leave to report that we have made a careful examination of all the workings of the mine. This mine is owned and operated by the Allegheny Coal Company, and is situated in Springdale township, Allegheny county, Pa., near Cheswick, on the coal company's branch road, west about 2 miles from the West Penn Railroad. The mine is under the supervision of the Inspector of the Fourteenth Bituminous Inspection District.

In our examination we endeavored to ascertain the cause of the explosion that occurred in this mine at about 8.15 A. M. on the 25th day of January, 1904. The mine is a shaft opening 216 feet in depth and is 21 by 9 feet in size, which is sunk to the Upper Freeport coal seam. The second opening was sunk to about the same depth as the hoisting shaft, which is 10 by 12 feet in size, and serves the purpose of a traveling way and a ventilating shaft. The outside structures, such as the tipples, hoisting machinery, etc., are all of the most modern design and of very substantial character.

The plan adopted by which the coal seam is extracted is known as the three entry system. The coal seam is about 7 feet in thickness, with a slate in the center of it, about 7 to 8 inches thick, which constitutes a double seam.

No part of the workings of this mine exceeds a distance of 1,700 feet from the bottom of the shaft, the mine being practically a new one. The company began shipping coal from the mine the latter part of the year 1902. The workings of the mine consist of three

south main entries and three north main entries. They are driven off the south main entries to the left in groups as follows: Nos. 1 and 2 butt entries, Nos. 3, 4 and 5 butt entries, and Nos. 6, 7 and 8 entries, and to the right of the south main entries there are Nos. 1, 2 and 3 butt entries, and Nos. 4, 5 and 6 butt entries. The distances and the number of working places of the butt entries to the left of the south main entries are as follows: Nos. 1 and 2 left butt entries are driven up about 450 feet and contain 8 working places. The monkey extensions of Nos. 1 and 2 entries are turned to the right off No. 3 room in No. 1 entry. No. 1 monkey entry or extension of No. 2 entry has been driven in about 120 feet, in which two rooms are turned to the right and a cross-cut to the left. Nos. 3, 4 and 5 left entries are driven up about 950 feet and there are in Nos. 3 and 5 entries about 23 rooms in each.

Nos. 6, 7 and 8 left entries are 400 feet long and containing in Nos. 6 and 8 about 8 rooms. In Nos. 1, 2 and 3 group of butt entries to the right of the south main entries are about 775 feet long with 16 rooms in each of Nos. 1 and 3 entries, and Nos. 4, 5 and 6 entries are only driven in about 200 feet, containing 3 rooms. They are just turning off the entries. Off the north main entries Nos. 1, 2 and 3 butt entries to the right are about 600 feet long, and in Nos. 1 and 3 entries there are about 12 rooms in each. Nos. 1, 2 and 3 butt entries to the left of these mains are only driven in about 100 feet. There are in the whole mine about 131 active working places. The large portion of these working places had two persons working in them at the time of the explosion.

The coal in this mine is all mined by compressed air machines of the Puncher type. The coal was blasted down by the use of dynamite and the shots were prepared and charged by the men who loaded the coal, and the shots were fired by authorized shot firers. Each shot firer carried with him a Davy lamp with a wire of small diameter attached thereto, and when he was ready to fire a blast he inserted this wire through the meshes of the gauze of the safety lamp and held it in the flame thereof until it was brought up to the proper temperature, and he would then withdraw it and apply it to the end of the fuse to light it. By this means the blasts were fired. The dynamite was exploded by the use of fuse and fulminated cap.

The shots were all located, so far as we could discover, near the roof in the upper bench of the coal seam, thus requiring an extremely heavy charge of the explosive to bring down the coal. This was rendered much more difficult owing to the center slate of the coal seam having a greater strength than the coal in the upper bench of it.

Nearly all of the advanced workings of the mine were very dry and dusty. Owing to the mine producing explosive gas, locked safety lamps were used exclusively in all the working places of it except at the bottom of the shaft where two open lights were used.

This mine was ventilated by a Capell fan 13½ feet in diameter and 7 feet wide, which was acting on the forcing principle prior to the explosion, and capable of producing 200,000 cubic feet of air per minute, but after the explosion the air currents were reversed and the fan made to act on the exhaust principle. The method used in ventilating this mine as exhibited on the map was by split air currents conveyed to the face of the workings by the three entry system. There were two principal air splits; one leading to the north side of the mine without sub-division and the other was conveyed to the south main entries which was sub-divided into four different air splits. These different air currents were supposed to be conducted up the center entries and split at the face of the butt entries allowing the different currents to return by the side entries off which the rooms were turned. This was accomplished in part by erecting overcasts at the group of entries along the line of the main current, but as only four of them had been erected in the mine the good effects to be secured by truly carrying out such a system were only partially realized. No overcast for splitting the air was erected beyond No. 4 left butt entry on the south side of the mine and none were constructed on the north side of the shaft, hence the air was conveyed in a single current on that side.

We make the above preliminary statements with a view to give all a better understanding of the actual conditions as we found them in and about the Harwick mine after this terrible catastrophe happened.

On arriving at the mine our first duty was to note the evidence of the great force produced by the explosion in the mine at the moment of its occurrence. We observed that both the heavy steel cages had been blown up into the head frame. This steel structure (head frame) was twisted out of place and suspended in the air. Also the head frame pulley wheels, which were about 65 feet above the surface, were destroyed. We were informed that one of the cages, at the time of the explosion was near the surface landing and one about 35 feet from the bottom, and that a mule was caught up from the bottom of the shaft and thrown out over the top of the head frame and landed about 25 feet to the north of the mouth of the mine, thus giving further evidence of the great force of the explosion.

We then went to the fan shaft where we observed that all of the brick and part of the steel structure of the fan were destroyed that were in the line of the force of the explosion. Before anyone could be lowered into the shaft it was necessary to temporarily

adjust the top of the fan shaft and to make such changes as to reverse the main air current in order to establish ventilation and to take the fresh air down the hoisting shaft, so as to allow us to proceed with our explorations by taking the fresh current with us.

While this was being done a temporary pulley wheel was erected about 25 feet above the top of the shaft and arrangements made for lowering persons into the mine by a steel bucket being attached to the hoisting rope.

We were also informed that Mr. Taylor and a rescuing party had descended in the bucket to the bottom of the shaft and found one person near there who was yet alive. They having sent him to the surface they continued on their exploration. When we went to the mine they had been gone two hours and only one of the three had yet returned to the shaft bottom.

Being carefully lowered down the shaft we observed that the buntings and guides remained intact, while steam, air and water pipes were broken and disconnected. Upon landing at the bottom of the shaft we found it almost entirely closed with mine cars and the timbers that had been blown down by the force of the explosion. Those large timbers had been put up to support the roof at the bottom of the shaft. All this rubbish had been hurled in there with great force and perhaps saved the entire destruction of the shaft buntings and guides, etc.

Before proceeding from the shaft bottom we carefully examined the course of the air current, and on examining the entrance to the north side we found smoke and the air very poisonous with the after damp. We then erected temporary stoppings to shut off the air in the entrance on this side of the shaft, fearing there might be fire. We next examined the air current on the south side of the shaft, and found it moving in No. 1 south main toward the fan shaft. The current was weak, due to the shaft bottom being nearly closed by the mine cars and timbers. This necessitated very careful action on the part of the explorers as the after-damp was very poisonous. Proceeding very cautiously we erected temporary stoppings in order to carry the fresh air with us.

Knowing that a rescuing party had entered the mine ahead of us, led by Mr. Taylor, and only one of them having returned, we examined carefully for evidence that would lead us in the direction they had taken. On erecting a stopping in the cross-cut between No. 1 and No. 3 south main entries, thus allowing us to advance, we observed a hat here near this point and proceeding through the cross-cut to No. 3 south main, then turning to the right toward the shaft for about 40 feet, we found the body of Mr. Taylor; then returning with it to No. 1 south main entry we heard moans from the other victim of Taylor's rescuing party, and from this point we proceeded

toward the face of the main entry and in walking about 40 feet further we found the other man, who was still living. We then took the two men with all haste to the bottom of the shaft and after arriving there we sent for a physician. After working with both men for some time in trying to restore them, we found that Mr. Taylor was dead, while the other person showed signs of life. Both men were sent to the surface, after which we proceeded with our explorations. We made slow progress, which was largely due to our not having sufficient force to work with, as volunteers were very scarce at this stage of the work. After having carried the air current near to the face of No. 1 south main entry we found the fire damp and other gases in such volume that we were compelled to retreat at this time and allow the air current to play on them while the bottom of the shaft was being partly cleared away to relieve the cramped condition of the air current so as to increase the quantity of air.

After establishing the air current in the north main entries we retreated to No. 1 left butt entry, off No. 1 south main entry, and erected a temporary stopping across No. 1 south main just in advance of No. 1 left butt. We then advanced with our explorations, carrying the air current with us by erecting temporary stoppings on the mouth of the rooms until we reached a point opposite No. 6 room, which was driven over from No. 3 butt entry to meet No. 3 room from No. 2 butt entry. After conducting the air as above stated we located one body in the last cross-cut between Nos. 1 and 2 rooms; one body was found in No. 3 room near the face of it and one near the entrance to No. 2 monkey entry; six bodies were found between the entrance to No. 3 room and the entrance to No. 1 monkey entry or No. 2 entry extension. The force of the explosion at this point had blown a car off the track and knocked out a post. One of the bodies was under the car and the other five were found lying immediately in front of it. In No. 1 monkey entry at the face of it on the right near the roof, we discovered a blown-out shot which had also shattered the roof. On the left side of this entry at the face of it, we also found another hole that was charged and ready to fire. Above this hole was an overdrilled hole from a previous cut. In this entry we found fire-damp three feet deep at the face tailing back to No. 3 room, a distance of about 130 feet. By the side of the victims here we found a Davy safety lamp with a wire about a foot long and of small diameter attached thereto. Also a Clanny lamp was picked up with the Davy lamp and from the location of the six bodies found here it is reasonable to suppose that these workmen had come to this point to wait until the shots were fired and from all the indications these two shots had just been fired at the time of the explosion. These two lamps being

found by the side of one of the victims, it is very evident that they were the equipment of one of the shot firers. Here we made a very careful observation as the indications were such as to warrant an opinion that the explosion had originated at this point. The car mentioned above had presumably been standing at the entrance to No. 1 monkey entry and had been forced back over the parting off the track, knocking the post out and on the body, and possibly knocking the other five men close together. This part of the mine was very dry and dusty and the heat had been very intense, coking the coal dust along the roof and side of the pillars, also blistering and spalling the coal in some places.

One body was located near the face of No. 1 butt entry. This body was badly charred and entirely nude, the clothing having been burnt off him. Two in No. 4 room off No. 2 butt entry. Two near the entrance to No. 2 room and one in No. 1 room. At the entrance to No. 2 room we found a mining machine with a wheel blown off and crushed into several pieces.

Retreating again to No. 1 south main entry we removed the stopping on No. 1 main and placed it in advance of No. 3 left butt entry, in order to direct the current up No. 3 butt end by the use of temporary stoppings between Nos. 3 and 4 butts, we directed the air current to the face of No. 3 entry, thence through last cut-through at the face of it to the face of No. 5 left butt off No. 1 south main and back through the room to No. 1 south main, and while exploring those three butt entries and rooms we found bodies as follows: Two bodies at face of No. 11 room off No. 3 butt, one on No. 3 butt between Nos. 16 and 17 rooms, one at the entrance and two at the face of No. 17 room, one at the face of No. 18 room, two in No. 19 room, one in No. 20 room, one in No. 23 room, two opposite last cut-through on the entry and one at the face of the entry, two in No. 4 butt at cross-cut opposite No. 17 room off No. 3 butt, also one body at face of No. 4 butt. While exploring No. 3 butt entry we observed that a number of the rooms had fallen in badly and at the entrance to No. 17 room three empty cars were wedged tightly in the entry and were badly broken by the force of the explosion. The driver had evidently been going up the entry with a three car trip as both he and the mule were lying just in front of the cars, the mule yet remaining hitched to them. In the rooms near the face of the entry we again found evidence of exceedingly great heat as the dust was coked on the roof and side, and the coal considerably charred. We also found that gas was being generated very freely, but there was no evidence of a blown out shot here. Going through to the face of No. 4 butt entry, the deposit of soot was very heavy. Crossing through to the face of No. 5 butt we located additional bodies in No. 5 entries as follows: One at the face

of No. 5 entry, one at No. 23 room, one at No. 22 room, two in No. 21 room, one in No. 20 room, two at the north of No. 10 room, and two at the face of it, two at the entrance to No. 17 room, two on entry at entrance to No. 12 room (one of these latter two persons had had his head blown off), two also at the face of No. 12 room, one at the face of No. 11 room and two bodies in No. 7 room. While passing through this entry we observed at the face of it in the innermost room that the dust was coked and adhering to the roof and sides of the ribs and that the coal was also considerably charred. At the face of No. 5 entry, gas was generating freely as there was a blower that could be heard some distance from the face of it. Passing on out and down this butt entry, we observed that the force of the explosion had gone from the face of the entry towards No. 1 south main through the room cross-cuts, blowing out posts and refuse to the lower side of the rooms. In Nos. 15, 14, 12 and 10 we found very heavy falls and other falls of less magnitude in various places. Coming back again to No. 1 south main entry we proceeded up this entry to No. 6 left butt off No. 1 south main. Then the air current was directed into No. 6 butt entry and conveyed towards the face of it to a cross-cut some distance back from the face, which also brought up the air current to No. 8 butt entry. This was accomplished by erecting temporary stoppings as we proceeded with the work. At this time we were unable to reach the face of the entries owing to a large accumulation of fire damp. While the ventilation was being established to the face of these entries we found the following bodies:

One in No. 1 room, three in No. 2 room off No. 6 butt, one in No. 3 room, two in No. 4 room (one near the face, the other near the entrance of the room), and one near the face of the entry. Passing through last cross-cut from No. 6 butt to No. 7 butt, the last cross-cut started from No. 7 to No. 8 butt, two bodies were located there. Three bodies were located at the face of No. 8 butt entry, one of these three bodies being the mine foreman's. Two bodies in No. 1 room. At the face of the aforesaid entry, again we found evidence of the intense heat, the dust and coal being considerably charred and coked. There were large volumes of fire damp in all three of the entries and also in Nos. 1 and 2 rooms off No. 8 butt.

After finishing our exploration here we retreated to the north main entries and there established the ventilation, carrying it up No. 1 north main to No. 1 right butt entry. We there erected a stopping in No. 1 north main in advance of No. 1 right butt, which directed the air current into No. 1 butt, there carrying it to the face leading it through the last cross-cut at the face to No. 3 butt, then back this entry to No. 1 north main, thence up this entry to the face, then through the last cross-cut to No. 3 north main, thence back this

entry to the fan shaft. The carrying forward of the air current in this section of the mine was accomplished by erecting temporary stoppings, etc. While we were restoring the ventilation on the north side we located the following bodies: Two in a room that projected mule stables, one at entrance of this room on No. 1 north main, three in No. 7 room off No. 1 right butt, two in No. 9 room, two in No. 10 room, two in No. 11 room, one in No. 12 room; bodies found and located in No. 3 right butt entry off No. 1 north main; two at the face of No. 3 entry, two in No. 11 room, two in No. 10 room, one on entry between Nos. 9 and 10 rooms, one at entrance of No. 9 room, two in No. 8 room, two in No. 6 room, one on entry between Nos. 3 and 4 rooms, one in No. 3 room, two in No. 2 room. In No. 1 left butt entry we found that some of the rooms had fallen in and at the face of this entry a considerable quantity of fire damp was found. In passing through the cross-cut near the face of this group of entries we found a sack of dynamite containing twenty-six and one-half sticks of this explosive. At the face of No. 3 butt entry, gas was found in large quantities. At this point again the heat had become very intense, as the coal dust was coked on roof and sides of pillars and the coal charred to some extent. No blown-out shot was located in this section of the mine. Coming back to No. 1 north main we found the timbers blown down and the roof badly fallen in from a short distance beyond No. 3 right butt to the face of this entry. The same condition prevailed in Nos. 2 and 3 north main entries. We explored these three north main entries and located the following bodies: Two were found about 60 feet up No. 1 north main from No. 3 right butt, two at the face of No. 2 north main, two in last cross-cut between Nos. 2 and 3 north main, one in entrance of cross-cut to No. 3 north main, two at face of No. 3 north main. While this exploration was going on, the timbers, wagons, etc., which were hurled in the bottom of the shaft, were being removed, and seven bodies were found underneath this rubbish. After finishing our explorations and removing the bodies from the north side of the shaft, we held a consultation to decide on the method to be pursued in exploring Nos. 1, 2 and 3 right butt entries off the south main entries. As this was known to be a gassy region and these entries being full of after damp and the liability that there might be some fire present in No. 3 entry, extreme caution was necessary on our part. After a short consultation it was decided to so adjust the stoppings as to direct the air current up No. 2 butt entry. The first order was to erect a permanent stopping of matched pine lumber on the mouth of No. 3 butt entry and cementing the sides of it to make it as near air tight as possible. When the air current was directed into No. 2 butt entry by a temporary stopping being placed on No. 3 south main between Nos. 2 and 3

right butts. Other temporary stoppings were being erected at the same time on cross-cut between Nos. 2 and 3 butt, also on No. 2 entry in advance of the cross-cut between Nos. 1 and 2 entries, and the air brought forward to the first cross-cut between Nos. 1 and 2 butts. This method of procedure was adopted for the purpose of giving us control of the air current. In moving forward temporary stoppings on the entry and on the cut-throughs on each side of No. 2 entry, permanent stoppings made of matched pine and cemented on the sides were erected in front of the temporary stoppings on the cross-cuts between Nos. 2 and 3 entries. In order to allow us to advance with this work the temporary stopping in advance of the cross-cut on the entry was partly pulled aside while two or three persons advanced to measure the width of the next cross-cut and also the entry again in advance of the cross-cut. Canvas was then cut and prepared and quickly erected in those places. This method of work was followed until we reached the face of the entries, thereby cleaning out the foul air from Nos. 1 and 2 butts.

After reaching the face of these two entries we were convinced that no fire existed in No. 3 butt entry. While preparations were being made to conduct the air into No. 2 butt right, preparatory to clearing out Nos. 1 and 2, a party of three advanced forward into the face of the south main. The volume of air having been increased, it had partially removed the large volume of fire damp encountered by the preceding parties who failed to reach the face of the entry, and while exploring those entries we located one body at the face of No. 1 south main, one at the face of No. 3 south main, two in the first room off of No. 6 right butt off No. 3 south main, and three on No. 4 entry. We found that fire damp was being generated very freely in all six of these entries (Nos. 1, 2 and 3 south mains and Nos. 4, 5 and 6 right butts off 3 south main). After the ventilation was thoroughly established to the face of Nos. 1 and 2 butts off No. 3 south main entry with the stoppings all up excepting at the last cross-cut at the face of these butts between Nos. 2 and 3, and after all arrangements had been made, the frame set between Nos. 2 and 3 on the south main preparatory to erecting the stopping to turn the air current into No. 3 butt entry, we all came to the surface for lunch. At this time three persons, led by Mr. Ed. Bell, the company's representative, went into the mine, no one else being allowed to enter it at this time, and they working under full instructions. At a set time the fan was stopped and after waiting a short time for the air current to slow down until it was hardly noticeable that there was any movement, then the permanent stopping was torn down in No. 3 butt and a stopping was erected on No. 3 south main between Nos. 2 and 3 butts to direct the air current into No. 3 butt entry. After this the three men were

hoisted to the surface and the fan again started. After an interval of two hours we again re-entered the mine; then our party divided into two divisions, one division exploring No. 1 butt entry, while the other explored No. 3 butt entry. Bodies were found and located in No. 1 butt entry: One at the face of No. 7 room, one on entry at entrance to No. 9 room, one on entry at entrance to No. 10 room, one at the face of No. 10 room, two at the face of No. 11 room, and one on the entry at entrance to No. 11 room, one about forty feet in No. 12 room, one at entrance to No. 14, three on entry between Nos. 15 and 16 rooms, one in No. 16 room and one on entry in advance of No. 16 room. Bodies found in No. 3 right butt entry off No. 3 south main: Two were located at the face of No. 6 room, three in No. 8 room, three in No. 11 room, one in No. 13 room, two in No. 15 room, one at the entrance to No. 16 room, and three in last cross-cut between Nos. 2 and 3 butt entries. While locating bodies in Nos. 1 and 3 right off No. 3 south main, we observed that the concussion had been very violent in this section. Rooms on both entries had fallen in considerably, also the entries had fallen in at several places, while great destruction had followed in its wake. The direction of the force of the explosion being up No. 3 butt and crossing at the face and then down No. 1 butt. At the face of both Nos. 1 and 3 entries we again encountered evidence of very great heat, as the dust was coked and coal charred in several rooms and at the face of both entries. We also found fire-damp in the rooms that had given evidence of greatest heat, thus finishing our explorations and the removal of all the visible bodies. We again came to the surface preparatory to making our final inspection of the mine.

After completing the work necessary in recovering the bodies as far as possible and having enumerated somewhat in detail the conditions as we found them in the mine during our frequent explorations of it, in the foregoing part of the report, we had arrived at very positive conclusions as to the primary cause of this disaster, but in order to strengthen these conclusions, at your special request, after all rescuing parties were out of the mine, we again traversed its entire workings to make a more critical examination, so as to establish beyond a reasonable doubt the true cause of it.

Having previously examined very critically the monkey entries, or Nos. 1 and 2 entries or extensions,—or extension off No. 3 room off No. 1 left butt entry, off No. 1 south main, which we believed to be the place of the initial explosion, we began our investigation from this point. The fact of our finding fire-damp standing three feet deep at the face of No. 1 monkey entry tailing back to No. 3 room, a distance of 130 feet, and that there were also three places being turned off it, two rooms to the right and a cross-cut to the left and with no way of circulating the air to the face, would

naturally lead us to believe that fire-damp was present when the blown-out shot was fired. We are of the opinion that this blown-out shot was the cause of the explosion. We also observed that a shot had just been fired in the second room to the right of this entry and also one each in the faces of Nos. 4 and 5 rooms of No. 2 butt from No. 1 monkey butt. The firing of those shots had doubtless liberated some gas and stirred the dust, suspending it in the atmosphere. This part of the mine was dry and dusty. This rendered the atmosphere in a very dangerous condition and when the blown-out shot occurred projecting part of the flaming explosive from the face of the entry into the vitiated atmosphere and further stirring the dust, the energy being expended in open entry raising the temperature to a very intense heat; thus all the elements were present to create a tremendous explosion. Also judging from the position of the six bodies found between the entrance to No. 3 room and the entrance to No. 1 monkey entry and the fact of the shot firers' lamps being found alongside of one of those bodies, strengthens the belief that the miners had come to this point while the shots were being fired, and to further strengthen our opinion a car that had possibly been standing in the entrance to No. 1 monkey entry had been blown out over the parting, knocking a post out, also knocking one of the workmen down where he was found tightly wedged between the foot of the post and under the front wheel of the car. In the face of No. 1 butt we found one body with the clothing entirely burnt off and it was badly charred and burned, as was the dust and coal. The heat was so intense at this point that the coal was blistered and spalled. From this point the force of the explosion took a southerly course, blowing out posts, scattering everything in its path. In No. 2 entry at the entrance to No. 3 room the force had blown a wheel out from one of the mining machines and crushed it into several pieces against a car. Crossing through from No. 3 room of No. 2 butt to No. 6 room of No. 3 butt entry left, it apparently took an upward course toward the face of No. 3 butt entry, blowing posts out in the room and also blowing the slate and refuse that had been thrown along the lower side of the track on the upper side of the room, near the face of the entry where we again encountered fire-damp. The violence of the force did not apparently increase, but the heat was very much more intense, charring the coal and coking the dust very much. All the stoppings were blown through from No. 3 to No. 4 butt. Crossing over to the face of No. 5 butt entry here we found similar conditions. Fire-damp was transpiring rapidly at the face of the entry and in some of the rooms. There was a blower throwing off gas very freely, which could be heard at some distance back from the face of this entry. Following the direction of the force down to No. 5 butt

we find again the posts blown out and several of the rooms fallen in almost from the entrance to the face. While the refuse was blown to the lower side of the room, or in the direction of No. 1 south main. Returning to the south mains the force had gone towards the face of No. 1 south main, blowing cross timbers out and disconnecting the entry roads. Coming to Nos. 6, 7 and 8 left butt entries the course of the explosion was up No. 6 entry to cross-cuts near face of Nos. 7 and 8 and down No. 8 again. We found large volumes of fire-damp and also evidence of much force and heat. The coal was charred and the dust coked considerably in these entries. All the permanent stoppings were blown out in the south mains with one exception. At the face of the south mains we again encountered large volumes of fire-damp and also in Nos. 4, 5 and 6 right butt entries off No. 3 south main. In No. 3 south main we observed a T iron rail much bent. Returning to No. 3 right butt we found that the force went in this entry and through the cross-cuts in the rooms towards the face of the entry. What was true of the other places was also true of this entry, the posts had been blown out and the rooms had fallen in considerably. The entry had also fallen in at several places. At the face of the entry we again found that the heat had been very great and we found considerable fire-damp there. Crossing through to the face of No. 1 right butt entry, we found the conditions similar to those of No. 3 with the exception that the entry had not fallen in so badly. The stoppings were all blown from No. 3. to No. 1 entry. Returning towards the shaft bottom we found two main brick over-casts entirely destroyed; the arches were a 13 inch wall laid in cement.

Going to the north side of the shaft we found that the direction of the force was up Nos. 1, 2 and 3 north main, then down No. 1 north main forcing out the entry timbers along its path and causing the roof to fall very heavy in several places on No. 1 main; also very heavy falls in both Nos. 2 and 3 main entries. Considerable fire-damp was encountered at the face of north main. Returning to Nos. 1, 2 and 3 right butts off north main we again found evidence of great force, posts being blown out and very heavy falls in some of the rooms. At the face of the butt entries the coal and dust were coked and charred, the greatest heat being in No. 3 butt entry, as was also the greater quantity of fire damp there. About 200 feet from the entrance to No. 1 butt in the direction of the shaft the force divided, part going through a cross-cut, the other going out No. 1 main to the bottom of shaft.

In summing up the facts, as given in the former part of this report, we are agreed in the opinion that the cause of this explosion was the result of a blown-out shot in the face of No. 1 monkey entry off No. 3 room, off No. 1 butt entry on the south side of the mine.

We hold to the opinion that part of the mine was not ventilated as required by law. We further believe that the sprinkling and the laying of the dust according to Rule 60 had been neglected; we further agree in the opinion that fire-damp existed in a large portion of the advanced workings at the time of the explosion. Our reasons for so believing are due to the fact of our having found that in several parts of the mine the heat had been very intense, coking the coal and dust, and that fire-damp was also found at the point where heat had been the greatest. In our searching examination we failed to find any evidence that would lead us to believe that this explosion took place at any other part of the mine. This being true we can readily see that the explosion could be transmitted from one point to another by the carbonic oxide being produced and other gasses distilled from the coal dust which had been suspended in the atmosphere of the mine by the concussion from the initial explosion and other means, and carbonic oxide being an inflammable gas the flame from which was made to reach every nook and corner of the mine thus exploding the accumulations of fire-damp and dust along the path of the explosion, carrying death and destruction into every region of its workings.

We found no evidence whatever, either inside of the mine or in the fire boss report book, that the mine had been examined on the morning of the explosion according to the requirements of the mining law.

We have a foot note in which we have made some correction on this since we have had some more time to explore the mine. Since the report was written we have found some evidences of the fact that the fire boss did examine part of the Harwick mine on the morning of the explosion.

His last report having been made on January 23, 1904, and by it gas was found in the following places: In room No. 17 on No. 3 right, gas in entries No. 6 left 3 south and 1 north. On the 22nd of January, the report was practically the same as on the 23rd. But on the 21st of January gas was found in No. 1 room of No. 1 left, No. 1 room of No. 8 left, No. 17 room of 3 right and in No. 4 room of No. 3 right north. In entries No. 6 left, 1 south main, 1 north main and No. 1 right north butt. Signed J. A. Gordon, Fire Boss.

From an analysis of this coal we find that it contains as high as 37.4 per cent. of volatile matter, which renders the coal dust very inflammable and exceedingly dangerous under certain conditions, therefore necessitating very great caution on the part of the management in seeing that every known precaution and every legal requirement is enforced.

From our observation we are of the opinion that the best method of blasting this seam of coal was not practiced. We believe for a

seam of this height having such a strong slate or bony in the center of it that the holes should be placed under the center bony and elevated sufficiently so as to lodge part of the explosive into the bone, which would be broken by the blast; then should it become necessary the top coal should be blasted down afterwards. This method would not necessitate such heavy charges and would lessen the danger from blown-out shots.

We would further recommend that blasting be discontinued in this mine and in all other gaseous mines where safety lamps are used, except when all the men are out of the mines except it is necessary to perform the work; and that they should not be fired in rapid succession, as such shot may liberate some marsh gas along with carbonic oxide and by the concussion stirring the dust charging the mine atmosphere to a very dangerous condition. And we would also recommend that the shot-firer begin blasting on the return side firing towards the incoming current, so that the gas which is liberated would be always going away from the next blast. And also that the safest known explosive be used. We would recommend that the use of compressed air for the removal of gas from the working places be discontinued. And in all cases the current should be conducted to the face of the working places so as to render said places entirely free from any accumulation of fire-damp. The use of compressed air does not remove the gas, but simply diffuses it with the air in close places, and the air issuing from the pipes under high pressure stirs up the dust and sends it floating through the air, thus increasing the danger rather than diminishing it in the vicinity where shots are to be fired.

We would further recommend the following: The rigid enforcement of Rule 57 of the Bituminous Mining Law, which requires that no safety lamp be entrusted to any person for use in the mines until he has given satisfactory evidence to the mine foreman that he understands the proper use thereof and the danger of tampering with the same; that the methods of shot firing employed at the Harwick mine, by igniting the fuse by the use of hot wire be discontinued and instead thereof the use of the electric battery should be employed, and that the stemming or tamping of shots should be of a non-inflammable character; that the exhaust system of ventilation be adopted in this mine, and in all mines generating fire damp, for the reason that this would allow all haulage ways and traveling ways to be in the ingoing air currents and which would prevent ice from accumulating at the bottom and in the air shaft, which may have been the case at the Harwick mine at the time of the explosion, and should a sudden stoppage of the fan occur the dangerous gases would not rush out on the haulage roads and traveling ways as would be the case with the forcing principle.

We also believe that if the volume of air that the fan is capable of producing, running at a reasonable speed, had been properly carried up to the face of the workings and if the dust had been laid by sprinkling it with water on January 25th, 1904, such a disaster could not have happened.

In the beginning of this report relative to the explorations, only Inspectors Cunningham and McCanch participated in it until Tuesday afternoon of the 26th of January, 1904.

All of which is respectfully submitted.

F. W. CUNNINGHAM, Inspector of 14th Bituminous District.
 ALEXANDER McCANCH, Inspector of 13th Bituminous District.
 ROGER HAMPSON, Inspector of 12th Bituminous District.
 W. J. MOLLISON, Inspector of 11th Bituminous District.
 BERNARD CALLAGHAN, Inspector of 9th Bituminous District.
 ISAAC G. ROBY, Inspector of 5th Bituminous District.
 ELIAS PHILLIPS, Inspector of 4th Bituminous District.
 THOMAS K. ADAMS, Inspector of 3rd Bituminous District.
 HENRY P. LOUETTIT, Inspector of 1st Bituminous District.

(The Coroner.) These recommendations that you have read, were they intended for the jury or Mr. Roderick?

A. In the first place they were intended for the Chief of the Mining Bureau, but now they are evidence for both him and the jury. They are intended for the jury and Mr. Roderick.

Personally appeared before me, the subscriber, a Notary Public, in and for said county and state, F. W. Cunningham, Alexander McCanch, Roger Hampson, W. J. Mollison, Bernard Callaghan, Isaac G. Roby, Elias Phillips, Thomas K. Adams, and Henry P. Louttit, inspectors aforesaid, who being duly sworn according to law, depose and say, that the above report of the explosion of the Harwick mine, in Allegheny county, Pa., is true and correct to the best of affiants' knowledge, information and belief.

Subscribed and sworn to before me this 8th day of April, A. D. 1904.

W. W. WITSELL,
 Notary Public.

My commission expires January 19, 1907.

F. W. CUNNINGHAM.
 ALEXANDER McCANCH.
 ROGER HAMPSON.
 W. J. MOLLISON.
 BERNARD CALLAGHAN.
 ISAAC G. ROBY.
 ELIAS PHILLIPS.
 THOMAS K. ADAMS.
 HENRY P. LOUETTIT.

John M. Rayburn testified, in part, as follows:

He lived at Ingram, Allegheny county, was a mining engineer, and had charge of the engineer's work in the Harwick mine at the time of the explosion. He had charge of the designing of the lay-out of the mine, the shaft bottom or lay-out of the field, the timbering of the shaft, and, in fact, of all the work done at that time.

Mr. Rayburn, in company with the other members of the commission appointed at the solicitation of the Allegheny Coal Company, made an examination of the Harwick mine soon after the explosion. The report of the examination, after general consultation, was read by him to the jury.

Report:

"Pittsburgh, Pa., February 12, 1904.

The Allegheny Coal Company, Citizens' Building, Cleveland, Ohio:

Gentlemen: We submit this as the report of the Commission appointed by you to report on the explosion which occurred on January 25, 1904, at your mine near Cheswick, Allegheny county, Pennsylvania:

The commission assembled at the mine on the morning of February 12, 1904, and at once proceeded to make a thorough examination of the mine on that and the following day. We began our investigation with numbers one and two left butt entries off No. 1 main south entry, and proceeded from that point through the entire south side of the mine, completing our investigation of that side of the mine on that day. On the following day we examined the north side of the mine, and in each place that we visited throughout the mine, we searched carefully for evidence which might show the place where the explosion originated; the cause of the explosion; the direction of the forces exerted and the effects produced. Of these different items we kept a record as we found them, and, after completing our examination, we put this information on a map of the mine, which is hereto attached, and came to our conclusions at a meeting held by us immediately after completing our examination.

We found numbers one and two left butt entries off number one main south entry practically undamaged and the rooms off these entries in fair condition. At the face of new number two entry (see plan) we found a small amount of gas, and a blown out shot; also, evidence that the forces caused by the explosion had traveled in a direction away from this part of the mine. The coal in these entries and rooms is not coked to any great extent, and this part of the mine does not show the evidence of the intense heat which is found in other parts. From these entries we proceeded to numbers three, four and five left butt entries off number one main south entry, where we found that the forces exerted had increased; and that the heat had been much more intense. In the entries we found no stratified gas, but we found a small gas feeder at the face of number three entry. There is, also, a blown-out shot in an unfinished break through on the left, and near the face of number five entry. These entries have slight falls in them, but are in a fair condition, while nearly all of the rooms have very heavy falls and are practically lost.

Numbers six, seven and eight butt entries off number one main south entry are undamaged, and the rooms in these entries are in fair condition. In these entries the dust is coked in the rooms and entries,

and the conditions are about the same as in the previous entries, except that this entry is coated with soot, which we concluded was deposited by the smoke resulting from the explosion; there being at that time no circulation of air to carry off the products of the combustion.

Numbers one, two and three main south entries, except for a few slight falls are in good condition. At the face of these entries we found evidence of the most intense heat seen in the mine. The face of the coal is coked and there is coke deposited on the roof, bottom and sides of the entries. The face of number three entry is partly cut and a machine is standing in the place. Evidently the machine was being worked at the time of the explosion, and the dust resulting from the machine, in conjunction with the current of fresh air from the fan, accounts for the extreme heat shown at this point. We found a small amount of gas at the face of number one main south entry.

Numbers four, five and six right butt entries off number three main south entry are undamaged and the rooms are in good condition. In these entries there is evidence of intense heat, shown by the coking of dust and the face of the coal.

Numbers one, two and three, right butt entries off number three main south entry are damaged to some extent by falls, and there are very heavy falls in nearly all of the rooms. The force of the explosion and the effects of the heat in these entries were terrific. The dust is thoroughly coked in both the entries and rooms, and everything is wrecked that was breakable. We found a small quantity of gas above a fall in number twelve room in number one entry.

On the north side of the mine we did not find evidence of so much heat, except in number one, two and three right butt entries off number one main north entry. In these entries the conditions are about the same as in the entries on the north side, the dust being coked in all entries and rooms.

In number seven room on number one entry we found a new machine with which the company had been experimenting. The machine had evidently been working as a part completed cut was found and this room is covered with the coke formed from the dust made by this machine.

In number one, two and three, main north entries the destruction is very great and seemed to result from the force of the explosion in other parts of the mine rather than from an explosion in the entries themselves. These entries have great falls in them for a greater part of their length and the original timbers are broken down. This may be partly accounted for by the fact that the roof was more pliable in these entries than in any other part of the mine, which is shown by the fact that they were timbered at the time they were driven.

We found that throughout the mine the stoppings in the breakthroughs between the entries were demolished, there being but one left intact. There were four three-ring brick arched over-casts; of these two are intact and two are demolished. In the air shaft the stairway is completely demolished and the timbering at the bottom of the shaft is wrecked.

At the hoisting shaft the timbering on the loaded or east side of the shaft was thrown down with the exception of the bent adjoining the shaft. On the empty or west side of the shaft the timbering is intact.

At the meeting which was held after finishing the examination of the mine, Messrs. Bell, McCanch, North, McGregor, Hanlon, McDade, Watters, Cole and Rayburn agreed that the explosion originated at the face of new number two left butt entry off number one

main south entry, and with the exception of McDade, concluded that it was caused primarily by a blown-out shot, which ignited a small quantity of gas in the entry. The concussion resulting from this ignition of the gas by the shot raised the dust in the entry, which, igniting in turn, and with the constant addition of dust, caused the complete explosion of the entire mine. Mr. McDade agrees with these conclusions, with the exception of the primary cause, which he claims is unknown.

Respectfully submitted,

Signed, Edward Bell, Robert North, Alexander McCanch, John Hanlon, William J. McGregor, E. A. Watters, W. N. North and John M. Rayburn."

After the reading of the report, which agreed with the report of the mine inspectors as to the cause of the explosion and the place at which it occurred, Mr. Rayburn's examination was continued.

In answer to Mr. Roby's question as to whether he had had experience in gaseous and dusty mines, he said that he had, mostly in the vicinity of Pittsburg and on the Paul Handle road about McDonald. He had had experience in gaseous mines in the coke regions in the new Klondike field. He had been the engineer in charge of the Buffington mine, which had a shaft opening of 400 feet in depth and generated gas to a very dangerous extent. His experience covered a period of about fifteen years in gaseous mines. He considered a mine gaseous that had gas in some of the entries. Mr. Rayburn said that he had charge of a new shaft that was put down by the Indianola Coal Company on Deer Creek, in the Freeport field, last summer. The mine, he said, generated gas, but was not dusty. He did not consider the Harwick mine a gaseous one, although it was gaseous to the extent that they should employ a fire boss. At the time he made his examination of the Harwick mine he did not think it was generating gas in dangerous quantities. His definition of a "dangerous quantity" was that it meant a quantity that would be dangerous to a person working in a certain part of the mine if it accumulated in an entry or in a room, but it would not be dangerous to the extent of causing an explosion of the entire mine from gas alone. Mr. Rayburn said that he did not know how many cubic feet of air were required to complete the combustion of one pound of coal dust, nor how much dust was required in the atmosphere free from fire-damp to create a dust explosion. He said that there might have been fire-damp in sufficient volume in the air currents, mixed with coal dust, to create the explosion in the Harwick mine, and the fire boss been unable to detect its presence. He believed that an explosion of dust occurred without any fire-damp in the air. From the evidence he had seen after the explosion, he said that dust had existed in the mine previous to the explosion and it was evident that an explosion or blown-out shot would stir up dust, and the evidence he thought showed that a blown-out shot

probably with the addition of some gas at the point of the blown-out shot, had stirred up enough dust to cause the explosion. He presumed that there was some gas in different places of the mine that probably added to the explosion. He said the object of sprinkling the mine was to lay the dust by wetting the mine floor. When asked what he would recommend in a mine like the Harwick to lay the dust, he said that the fan was $13\frac{1}{2}$ feet by 7, that the capacity was something like 250,000 or 300,000 cubic feet of air per minute, he didn't remember the exact figures; but if that amount was sent through the mine, that is, through the different short circuits, through the different entries, one set of entries at a time, it would probably make the air travel at the rate of 30 or 35 miles an hour, which current would clear the mine of the lighter particles of coal dust; and the experiments that had been made proved that it was the lighter particles of dust that caused the trouble, that is, the particles that would be suspended in the air. When asked if a 35 or 40 mile gale would sweep the faces of the working places where danger really exists, due to blown-out shots, he said that that point had been the stumbling block of the whole theory, but if the fan were used to take the dust off the entries, any dust explosion that might occur in a working place would not have the same tendency to spread over the entire mine.

"I don't believe that an overcast within any reasonable limits of economy could be built to withstand that explosion going under it, but I believe the overcast did withstand the force of the explosion where it went over the arch, over the top. An overcast cut through the solid strata would be strong enough provided it was cut high enough. I don't think I ever saw an overcast cut through the solid strata." Mr. Rayburn said that he believed the solid strata at the Harwick mine were sufficiently strong to have the overcasts cut through. He had, however, found two of the overcasts destroyed by the concussion, which he said had not been built sufficiently strong. He said that previous to the explosion he had not realized how much force might be exerted by an explosion in the mine. He said that if the mine inlet was one-half lessened by being closed off with ice at the bottom of the inlet, it would have the effect of reducing the volume of air very considerably, about one-third. If the amount of air circulating previous to the 25th of January had not been in excess of the amount needed to move the gas out, he said that the effect of the ice would be very bad, allowing the gas to accumulate that was generated in the mine. Even if the mine law had been fully complied with in regard to the ventilation and the dusty condition of the mine, the explosion, he believed, could have occurred. He did not believe the provisions of the mining law, as carried out, provided for the removal of the dust. His recollection of the law

was that it required that the dust shall be kept from floating in the air by water or other methods. Article 4, section 1, was read to Mr. Rayburn, but he said that he believed the explosion could have occurred even if that part of the law had been complied with in conjunction with rule 60. He did not think that the dust in the mine was made harmless under the provisions of the law as they are carried out, and as far as the ventilation was concerned the explosion from dust, in his opinion, could have occurred without any accumulation of fire-damp. The ventilating appliances provided at the Harwick mine were ample, but he did not know anything about the condition of the mine on the morning of the 25th of January.

VERDICT OF CORONER'S JURY IN HARWICK MINE INQUEST, PITTSBURGH, APRIL 16, 1904

First—The explosion was caused by blown-out shot, igniting gas and coal dust.

Second—Insufficiency of ventilation, due to accumulation of ice at the bottom of air shaft.

Third—It is the duty of mine foremen to have ice removed and have air shaft in proper condition for the safety of the men and property.

Fourth—We find that Mine Foreman Brown and Fire Boss Gordon, of the Harwick mine, at the time of the explosion, were negligent, and did not comply with the mining law of Pennsylvania.

Fifth—We find Superintendent Sowden violated the mining law of Pennsylvania in not signing mine foremen and fire boss report books, as required by law.

Sixth—We find by the testimony of Mine Inspector Cunningham that he violated the mining law by not enforcing the requirements of the law, by not having an indicator placed on the fan and for allowing longer time to elapse than the law required in making his official inspection.

Seventh—We, as jurors, do not consider the November 4, 1903, visit by Inspector Cunningham an official inspection, as required by law.

Eighth—We, as jurors, recommend that the Allegheny Coal Company see that no friction exists between the officers of the Harwick mine for the safety of life and property.

Ninth—We find from the evidence that Inspector Cunningham and Superintendent Sowden be held for the action of the grand jury on the charge of murder.

Tenth.—And we further censure the Allegheny Coal Company for not attending to the said Harwick mine according to law.

Eleventh—And we further recommend that the Legislature of the State of Pennsylvania enact laws that are more specific in governing mines.

MINE INSPECTION.

The inspection of the mines in the bituminous region during the past year was conducted with unusual regularity, but the results, so far as a decrease in fatalities is concerned, have not been very satisfactory. The percentage is not any less than when there were only ten inspectors. The inspectors devoted practically the whole of their time to the performance of their various duties. 2,441 days were spent in inspecting mines, 166 days investigating accidents, 149 days attending inquests, 141 days consulting on mining matters, 33 days consulting on legal matters, 56 days attending court, 176 days examining mine foremen and fire bosses, 79 days investigating the Harwick explosion, 148 days traveling on duty. This record will show that the inspectors attended very faithfully to their duties. It is gratifying to state that in no case are the miners suffering from insufficient ventilation. In the matter of the efficiency of mine inspection preventing accidents from "falls," I may say that the inspectors while on their regular inspections are making the matter one of the chief points, but unless they are called to investigate an accident they do not visit a mine oftener than once in three months. They are, therefore, unable to do very much towards preventing accidents from this cause. We have had no fatalities or severe accidents reported through the failure of the foremen to provide timbers to sustain the roof.

MINE VENTILATION.

The tables herewith will show the condition of the ventilation in the bituminous mines. It will be seen by reference to the first table that much more air enters the mines than is required by the law, and that on an average more air is circulated in the splits than is required by law. This is not positive evidence, however, that each split in every mine is properly ventilated, as the requirements are not adequate. The minimum amount of air under existing laws, now 100 and 150 cubic feet per minute in non-gaseous and gaseous mines, should be increased to at least 200 and 300 cubic feet in non-gaseous and gaseous mines respectively. In several districts



Correspondence

Dated

01/1904 - 11/1929

Harwick Mine

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

Station, Pittsburgh, Pa.

Data, Temperature and weather data week of January 25th, 1904.

19	January	February	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
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26	38	12										
27	19	8										
28	28	10										
29	31	23										
30	35	17										
31	44	32										
Sums												
Means												

Weather

Snow on ground inches

Snowing 12:50p. to 5:30p.

snowing

"

cloudy

snowing

Pt cloudy

Pt Cloudy

T

2.0

1.7

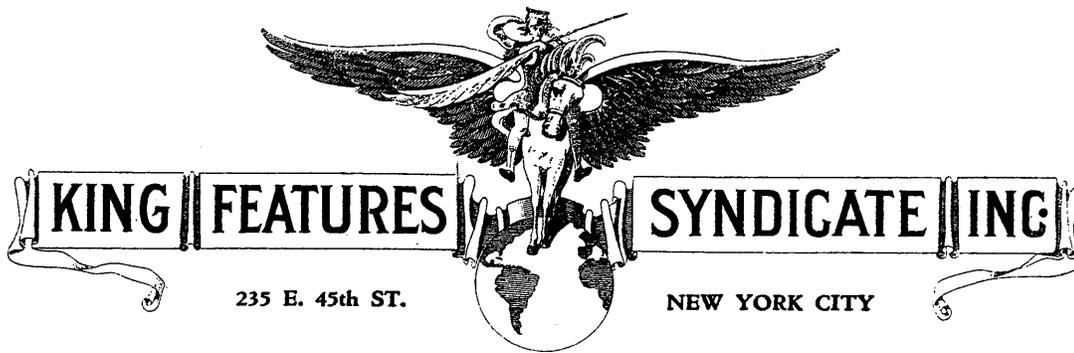
1.7

1.9

1.6

1.1

W. A. Brozman



BELIEVE IT OR NOT
Robert L. Ripley

Nov. 16, 1929

- Albany, N. Y., Times Union
- Atlanta, Ga., Georgian
- Chicago, Ill., Herald Examiner
- Detroit, Mich., Times
- Baltimore, Md., News
- Los Angeles, Cal., Examiner
- Milwaukee, Wis., Sentinel
- New York, N. Y., American
- Omaha, Neb., Bee News
- Pittsburgh, Pa., Sun Telegraph
- Rochester, N. Y., Journal
- San Antonio, Texas, Light
- San Francisco, Cal., Examiner
- Seattle, Wash., Post Intelligencer
- Syracuse, N. Y., Journal
- Washington, D. C., Herald
- Boston, Mass., Daily Record
- Akron, Ohio, Beacon Journal
- Amarillo, Texas, News Globe
- Bridgeport, Conn., Post
- Buffalo, N. Y., Evening News
- Cleveland, Ohio, News
- Canton, Ohio, Repository
- Chattanooga, Tenn., Times
- Cincinnati, Ohio, Times Star
- Dallas, Texas, Times Herald
- Dayton, Ohio, News
- Edmonton, Alta., Canada, Bulletin
- Erie, Pa., Times
- Enid, Okla., News
- Grand Junction, Colo., Sentinel
- Havana, Cuba, El Mundo
- Hamilton, Ohio, News
- Hamilton, Ont., Canada, Spectator
- Halifax, N. S., Canada, Chronicle
- Honolulu, Hawaii, Star Bulletin
- Iowa City, Iowa, Daily Iowan
- Jacksonville, Fla., Times Union
- Jamestown, N. Y., Journal
- Kansas City, Mo., Star
- Kewanee, Ill., Star Courier
- Lokomo, Ind., Dispatch
- Louisville, Ky., Times
- Little Rock, Ark., Gazette
- Lincoln, Neb., State Journal
- Lexington, Ky., Herald
- Missoula, Mont., Missoulian
- Montgomery, Ala., Advertiser
- Muskogee, Okla., Phoenix Times Democrat
- Meridian, Miss., Star
- Miami, Fla., News
- New Britain, Conn., Daily Herald
- New Orleans, La., States
- Oklahoma City, Okla., Oklahoman Times
- Ottawa, Ont., Canada, Journal
- Oslo, Norway, Morgenposten
- Pittston, Pa., Gazette
- Portland, Ore., Oregonian
- Philadelphia, Pa., Bulletin
- Port Arthur, Texas, News
- Rockford, Ill., Register Gazette
- Regina, Sask., Canada, Leader Post
- Richmond, Va., News Leader
- Roswell, N. Mex., Dispatch
- Rio de Janeiro, Brazil, Journal de Brazil
- San Diego, Cal., Union Tribune
- Salt Lake City, Utah, Tribune
- Scranton, Pa., Republican
- St. Louis, Mo., Star
- St. Paul, Minn., Dispatch and Pioneer Press
- Sioux City, Iowa, Journal
- Springfield, Mo., News Leader
- Shreveport, La., Times
- Springfield, Ill., State Journal
- Springfield, Ohio, News
- Tampa, Fla., Times
- Tulsa, Okla., World
- Toledo, Ohio, Times
- Urbana, Ohio, Citizen
- Victoria, B. C., Canada, Colonist
- Waterbury, Conn., Republican
- Watertown, N. Y., Daily Times
- Williamsport, Pa., Sun
- Wichita, Kan., Beacon
- Winnipeg, Man., Canada, Tribune
- Wilkes-Barre, Pa., Record

Chief of Department of Mines,
Pittsburgh, Pa.

Dear Sir:

Would you kindly give me a narrative of the Harwick mine explosion of 1902? A reader of my articles has advised me of an unusual incident of how one man was saved in the disaster, and I would like very much to have it verified.

If there is any cost to be paid in having you send me the article I will be glad to pay it.

BELIEVE IT OR NOT

Nothing in general files on this.

Morris

Explosion on July 25, 1902

179 lines lost

Ans.

18 1929

November 19, 1929. JWP/MCN

Mr. Robert L. Ripley,
King Features Syndicate, Inc.,
235 E. 45th Street,
New York City.

SUBJECT: Harwick mine explosion.

Dear Sir:

In reply to your letter of November 16, addressed Chief of Department of Mines, which has been handed me for reply and in which you ask for a narrative of the Harwick mine explosion of 1902:

The records of mine explosions do not disclose any explosion having occurred in this mine in 1902; but, on January 25, 1904, an explosion occurred in which 179 lives were lost. The writer visited this mine a couple of days after the occurrence of the explosion and does not recall any incident of any person having been saved who was in the mine at the time of the explosion.

Very truly yours,



J. W. PAUL,
Senior Mining Engineer.

cc: Mr. Fieldner

Mine located at Harwick, Allegheny County, Pa.
Name of operator in 1904: Allegheny Coal Co.
Present name of company: Harwick Coal & Coke Co.
Gas and dust explosion





Newspaper Accounts

Dated

01/1904 - 02/1926

NEARLY 200 MINERS PERISH IN EXPLOSION Every Hour Adds to Horror of Catastrophe in Pennsylvania Mine—Only One Man Rescued Alive So Far and Only One Body Recovered Up to Noon Today.

By Publishers' Press Direct Wire. Pittsburgh, Jan. 26. The mystery of the most dreadful mining catastrophe in Pennsylvania, or of the world for that matter, was not solved until the bodies of nearly 200 miners were recovered from the wreckage of the mine in the afternoon of today.

Only one man was rescued alive so far and only one body recovered up to noon today. The rescue work is being carried on by the Pennsylvania State Police and the United States Marshall Service.

MR. TAYLOR'S HEROIC DEATH. Scenes at the mine were all the life and hope of many spectators were centered here. The accident which killed the miners was a tragedy of the first order.

ST. PATRICK'S MARCHERS. The State Convention of St. Patrick's Alliance, which was opened yesterday morning in the Ribesman building, was brought to a close yesterday afternoon.

ARMY BOYS ON BOARD. Three lads were stranded this morning before Judge Judd on complaint of Paul Murphy, who said that they had been implicated in the robbery of a United States mail train on the Delaware River.

WANTS RECEIVED. The Urban and Suburban Realty Title Company of Newark, said to have 6000 wants received in the last 24 hours.

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BROCKWAY HOBBLES FROM GLORIOUS DAY INTO NIGHT OF DAY King of Counterfeits, Freed From Prison at 83, Emerges Into World With \$5 in Money. REFUSES TO TALK TO ANYONE

By Publishers' Press Direct Wire. Trenton, Jan. 26. Brockway, the King of Counterfeits, was freed from prison at 83, and emerged into the world with \$5 in money. He refused to talk to anyone.

ONLY ONE RESCUED. In the temporary hospital has been made of the school boys nearby. The rescue work is being carried on by the Pennsylvania State Police and the United States Marshall Service.

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RIVER ICE BLOCKED, LOOKS WORSE Water Approaches the Stage of Last October's Flood. STREETS INUNDATED

By Publishers' Press Direct Wire. Trenton, Jan. 26. The Delaware river and its tributaries are blocked by ice, and the water is approaching the stage of last October's flood. Streets in Trenton are inundated.

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GAINS CLAIMED BY RUBBER STRIKE More Men at Work in the Different Mills, Although Many Are "Green Hands." UNION MEN ARE CONFIDENT

By Publishers' Press Direct Wire. Trenton, Jan. 26. Gains are claimed by the rubber strike as more men are at work in the different mills, although many are "green hands." Union men are confident.

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KILL THE ROBINS AND THE BIRD SLAGHTER SENATOR MCKEE INTRODUCES BILL FOR THE IMMEDIATE ABOLISHMENT OF STATE BOARD OF ARBITRATION

By Publishers' Press Direct Wire. Trenton, Jan. 26. Senator McKee introduced a bill for the immediate abolishment of the State Board of Arbitration. He also introduced a bill to kill the robins.

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Roosevelt Plans to Receive Notice

At Jackson, Mich., if He Gets the Nomination of His Party.

The Best Candidate of the G. O. P. to be Held There, July 6, and the President is Willing to be Told of the Good Features of That Time.

Washington, Feb. 1.—President Roosevelt, whose reputation has been regarded as extremely uncertain since the November election brought Senator Hanna's attack upon the president, has evidently got an inside tip that he is "safe" for as has already been pointed out in the official notification of his nomination.

JOHN D.

Will Take a Back Seat and Give His Seat a Chance.

New York, Feb. 1.—It is understood that at a meeting of the directors of the United States Bank corporation to borrow the resignation from the board of John D. Rockefeller will be submitted and accepted.

VOTE

On 'Canal Treaty Will Not Be Delayed

Will Probably be Reached by Feb. 25, But Much Depends on Action of the President.

Washington, Feb. 1.—The vote on the Panama canal treaty, it is now expected, will be reached about the 25th inst. The time depends to some extent upon the early reply of the president to the resolutions of the inquiry which have been sent him by the senate.

REBELS STILL ACTIVE.

Berlin, Feb. 1.—A dispatch received here from Swabengau, German south-west Africa, says that since Jan. 27 three men have been killed in a series of attacks against the German colonial garrisons.

TOLDO TAKES A WALK.

Toledo, Feb. 1.—Owing to an accident to the pumps at the power house of the Toledo Railway and Power Co. Toledo is walking today. Not a car has been running since 7 P. M., and there will be no power until to-morrow.

SPANISH PRETENDER'S SON MAY STIR UP CASTILE.

Rumor That Don Carlos Will Abdicate in Favor of Don Jaime Continues to Grow—Latter a Dashing Officer in Russian Army.



Madrid, Spain, Feb. 1.—Castles in Spain is dormant and the leaders want to infuse life in it by the abdication of Don Carlos in favor of his son, Don Jaime (pronounced He-man). Carlos is 67, too aged to take an active part in a struggle for his own restoration, while his son is but 24, and is ready to fight whenever a chance for success presents itself.

Where Senator Foraker is "It".



LITTLE CHANCE FOR RECOVERY OF DAMAGES.

Women and Children Made Homeless by Harwick Mine Disaster are Not Likely to be Compensated for Their Losses—A Hard Future for Them.

Pittsburg, Feb. 1.—Now that the first shock of the Harwick mine disaster is over and the widows and bereaved children are drying their tears and making the water courses flow, it is a reasonable belief that there is a very small chance of recovery for the women and children who were made homeless by the Harwick mine disaster.

Truth is, and long experience has proved it, there is small hope of obtaining anything from the coal companies for such accidents as that of the unfortunate 154 in the Harwick shaft. In all the history of accidents, in both the bituminous and the anthracite regions, there are few instances where the relatives of the dead, or injured have recovered money. One after case has been tried, based on the claim that the accident was due to the negligence of the employer. But it is hard to show this and the great majority are dismissed before they get to the jury.

Efforts were made after the great Twin shaft accident at Pittsburg, Lowry county in which 10 men lost their lives, to recover damages, but it could not be shown that the company was negligent. In many another case it was the same.

SIXTEEN

Boiler Still Remains in the Pitt-Faced Harwick Mine.

Chester, Pa., Feb. 1.—The village was quiet this morning and presented a deserted appearance in comparison with the crowds that were here yesterday.

NO CHANGE OF POLICY

In War Department Under Judge Taft

THE NEW SECRETARY

Took the Oath of Office and Assumed His New Duties This Morning.

Washington, Feb. 1.—With his taking of the oath today Judge Taft became director of the war department's policy for possibly five years. It is safe to say that in general, Secretary Root's policy will be followed by his successor.

CONFESSED

Murderer Quickly Sent to Prison

Surrendered to Police Sunday and Begs His Life Imprisonment at Jackson, Today.

Detroit, Mich., Feb. 1.—Joseph McElroy, who surrendered to the police Sunday and confessed to the murder of his paramour, Mrs. Joseph Beville, was arraigned today and sentenced to the Michigan State Prison for life. He was sent there today.

W. C. WHITNEY

is Very Ill as Result of Operation for Appendicitis.

New York, Feb. 1.—W. C. Whitney, secretary of the navy under President Cleveland and a multi-millionaire in a serious condition today as the result of an operation for appendicitis. His sons Harry Payne and Payne Whitney and his daughter Dorothy are at his bedside.

WILL SHOW THE TURKS

That We Have a Navy Worth Respecting

EUROPEAN SQUADRON

Will be Enlarged and Sent to Turkish Waters on a Friendly, But Impressive, Mission.

Washington, Feb. 1.—The administration has decided to send a largely increased naval force to European waters after the winter manœuvres in the Caribbean sea. The present European squadron will be recalled for the purpose of participating in the manœuvres. At their close, the squadron, strongly reinforced, will return, mobilizing in the vicinity of the Bosphorus. The object is to make such a demonstration as will impress upon Turkey, as well as Europe in general, the power of the United States and its intention to protect American interests in that quarter of the world.

ALLOWED TO GO.

Robert Cassidy was raising a rough house at the home of his mother, Saturday night and was locked up for disorderly conduct. His relatives tried and made a promise Monday and was allowed to go free by Mayor Miller.

AN AMERICAN JEWESS

PLEADS FOR HER RACE

Nadage Doree is Trying to Have the Deportation of Jews in Europe Abated—Presents Her Cause to Crowned Heads.



MISS NADA DE DOREE.

Berlin, Feb. 1.—Nadage Doree whose courageous crusade against anti-Semitism is attracting attention in Europe as a native New Orleans. She is a Jewess and is proud of it. She will devote her life to elevating the sufferings of her people in the old world, for the exploited French Jews of the United States are opposed to this resolve and Miss Doree adopted this non de rure to avoid annoying them.

BOODLER ON TRIAL

Butler of St. Louis Will Make Hard Fight

NINETEEN CHARGES

Of Bribery of City Delegates are Contained in Indictment—Trial Attracts Many People.

Fulton, Mo., Feb. 1.—The court room was thronged Monday morning when the trial of Edward Butler, the millionaire politician of St. Louis opened on indictment for bribery. Butler is charged with bribing nineteen members of the St. Louis House of delegates in city lighting legislation. The first step in the defense, which promises to be the bitterest legal battle in years, was the filing of a demurrer to the indictment. The demurrer set forth that the indictment was defective in that it charged 19 distinct acts of bribery. Judge W. W. Graves is presiding in the Callaway county circuit court, to which the case was taken on a change of venue.

WHEREABOUTS

Of Mrs. Maybrick Still a Well-Guarded Secret.

London, Feb. 1.—The actual whereabouts of Mrs. Florence Maybrick, still remains a profound secret. All officials who would know anything regarding her location have been pledged to the utmost secrecy and will not divulge the smallest detail. It is generally believed, however, that she has been removed after the common English custom with women prisoners to a quiet home in Cornwall, where she will remain before a complete pardon and discharge is granted.

CONFESSED

Murderer Quickly Sent to Prison

Surrendered to Police Sunday and Begs His Life Imprisonment at Jackson, Today.

FIREMEN

Overcome by Forces of Steam in Burning Buildings.

New York, Feb. 1.—Three Bremen firemen today, two are in a serious condition and a dozen more are believed to be taken in building houses to be kept, according to the report, for the children of the mill or the factories for the girls of the mill or the boys.

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Overcome by Forces of Steam in Burning Buildings.

Safety in Mines:—

1904 Blast Cost 182 Lives; Led to Prevention Drive

Thirty-four years ago tomorrow was "Black Monday" for miners' families in the newly built hamlet of Harwick.

Two terrific explosions, seconds apart, ripped the pit of the Allegheny Coal Company, taking a toll of 182 lives in Allegheny County's greatest disaster.

Then, as in more recent years, Harwick had been looked upon as an exceptionally safe mine. Until the recent blast that cost 10 lives, the mine had never known a major accident since the catastrophe of January 25, 1904.

Harwick was the first of a series of coal mine disasters over a three-year period that shocked the nation and led to the setting up of a far-flung prevention agency, the United States Bureau of Mines.

USED SAFETY LAMPS

The Harwick mine was opened in May, 1902, by Cleveland capitalists, who had purchased 6,000 acres of coal land north of the Allegheny River near Cheswick.

The mine was equipped with the most modern safety devices. The men wore safety lamps that could be opened only by insertion of a magnet. Frequently they asked that they be permitted to use open lights as the mine seemed clear of gas because of excellent ventilation. Their request was refused.

Children of the village were on their way to school about 8:30 a. m. on the fateful day when the explosion occurred. When the pupils reached school word of the blast had preceded them. All were sent back home except eight older girls who were kept as nurses.

TURNED INTO HOSPITAL

In a few hours the frame schoolhouse had been turned into a hospital and improvised morgue.

The first signal of tragedy was a rumble. Then a tongue of flame shot out of the main shaft and leaped several hundred feet into the air.

Only 45 minutes before, the day shift of 183 men had descended the shaft 224 feet to the bottom and had begun digging.

A second blast hurled timbers out of the mouth of the air shaft. Smoke poured from the shaft and settled over the district, like a pall of doom.

MEN ON TIPPLE KILLED

The force of the explosion wrecked the steel tippie and weigh house. Of three men at work on the tippie one was killed instantly and the other two died later of injuries.

Women and children rushed to the mouth of the pit, praying that the men imprisoned might be rescued.

Rescue crews hurried in from the surrounding district and mine inspectors sped to the scene.

Without safety apparatus now in use by safety crews, men risked their lives in entering the blast-wrecked corridors, and at least one met death.

REJECTS WARNING

He was Selwyn M. Taylor, prominent mining engineer who had located the Harwick mine and designed all plans for the underground work and power equipment. He led a band of rescuers



WALTER C. KIPP

into the fumed-filled pit. They found their way blocked by dead mules and fallen timbers.

Warned to turn back, Taylor insisted on pushing ahead. He was overcome by the poisonous after-damp and was dead when taken from the bottom of the shaft.

For several days after the explosion, thousands visited the scene. Bodies were brought out one by one. They were placed in the blacksmith shop for identification.

RELIEF FUND STARTED

Coroner Jesse M. Geary swore in the inquest jury over the bodies of two victims in Cheswick.

Many of the victims were buried in a plot donated by the coal company.

The disaster stirred the sympathy of the nation. Pittsburgh's Mayor William B. Hays started a relief fund to which individuals, lodges, churches and other organizations contributed. J. P. Morgan & Co., the New York financial house, sent a check for \$1,000.

Duquesne Club associates of the heroic Engineer Taylor collected \$50 for flowers for his funeral, but at the family's request gave the money to the relief of miners' families.

CLASH AT INQUEST

In the wake of the catastrophe came charges of negligence and inefficiency. The United Mine Workers called for an investiga-

tion by the Governor.

The Coroner's jury labored for weeks to ascertain the cause of the disaster. State and company counsel clashed bitterly at the inquest hearings.

After a three months' probe the jury returned a verdict blaming the blast on an ice-choked air shaft and poor inspection and censuring the company for failure to use proper care in operation of the mine.

INSUFFICIENT AIR FLOW

The jury held that the condition of the air shaft did not permit a sufficient flow of air into the workings with the result that a blowout shot ignited accumulated methane gas (firedamp).

Frederick W. Cunningham, a state mine inspector, and Wilfred Snowden, mine superintendent, were held for the grand jury on a charge of murder.

The grand jury ignored the murder charge and indicted the two men on charges of involuntary manslaughter. More than a year later Cunningham was tried and acquitted and costs placed on the county. The case against Snowden was closed.

ROCK DUSTING UNKNOWN

The Harwick explosion was 99.4 per cent fatal. This compares with a fatality of 22 per cent in the blast of two weeks ago, when 36 of 46 men in the pit escaped with their lives. Rockdusting is said by experts to have localized the second explosion. Rockdusting was unknown at the time of the first disaster.

The only person to survive the first Harwick blast was 17-year-old Adolph Gunia.

On his first job he had been sent out on an errand and was returning to his place of work when he was felled by a sheet of flame near the foot of the shaft. For 10 hours he was held prisoner by a protecting barrier of fallen beams, before he was rescued. Gunia never again set foot in a mine. He died in Russellton in 1935.

AT BOTH DISASTERS

Walter C. Kipp, of Harmarville, 58-year-old father of seven, is probably the only man alive who descended into the blast-wrecked shaft at the first Harwick explosion and was on hand for rescue duty at the second.

He recalled the first disaster thus:

"The weather was below zero and everything was covered with ice. Some of us had gone down to Harwick from the No. 8 mine at Freeport, when Harwick sent out a call for help.

"They were pleading for volunteers to enter the mine and I took a chance. The cage had been blown out of the shaft and we had to be let down in a big bucket. When we got to the bottom we found timbers, pit cars, mules and men all blown in together. It was a terrible sight."

PILED LIKE CORDWOOD

Kipp related that bodies of the victims were piled up like cordwood in the little schoolhouse. He added:

"I believe many of the women buried other men than their own. They were so badly burned they all looked alike."

Kipp, now employed at the Harmarville mine of the Consumers Mining Company, a subsidiary of the Wheeling Steel Corporation responded to a call for help at the second Harwick blast 10 days ago, but his services were not required and he did not enter the pit. In his nearly half century of mining he was slightly scorched once.

DISCREPANCY IN TOLL

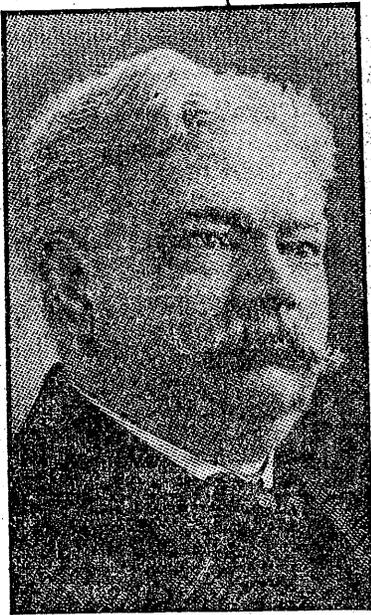
Discussing the apparent discrepancy in the total number of dead at the 1904 Harwick disaster, Kipp said he thought several of the bodies never had been found and possibly were not included in the official records. The Coroner's records show 178 were dead at the time of the inquest, but other sources place the final figure at 182.

(How the United States Bureau of Mines in the role of Big Brother to the coal diggers has saved hundreds of lives through preventive and rescue activities is told in the last story of this series in tomorrow's Sun Telegraph. The series started Sunday.)

lies.

The miners say that this work must necessarily be slow and nothing can be done with any safety toward taking the bodies out until the entries are fixed so that there will be a free current of air to all parts of the mine.

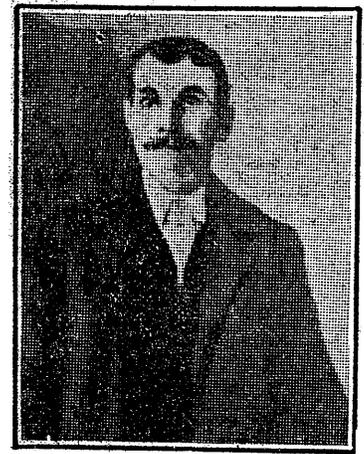
This, it is said, may require three or four days, although the mine officials say that they will be able to get bodies out before that time. It is now known that there are 180 men in the mines. This, with the two men who died in Pittsburgh yesterday and S. M. Taylor, brings the total number of casualties up to 183 with two others injured.



SELWYN M. TAYLOR,

Who Lost His Life Leading a Rescue Party.

At 1 o'clock no bodies had been recovered, but one was expected, as word was sent up from the mine that signs of bodies were discovered in the debris. At that hour the rescuing party of more than a dozen former miners came to the surface dripping with water and nearly frozen. They reported terrible effects of the explosion. Harry Pitman, of Har-marville, and formerly a miner, said he saw part of the body of a man, under a pile of debris near the shaft and the head had been blown from the body by the force of the explosion.



George Horwarth, Who Went Into the Harwick Mine With Selwyn Taylor.

DESCRIBES MANNER IN WHICH TAYLOR MET DEATH

Man Who Was With Him When He Led Rescue Party Relates

Graphic Story.

The way in which Selwyn M. Taylor met his death in the Harwick mine was described in a graphic manner by Thomas W. Wood, aged 21 years, of Evanston, Ind., who was one of the first volunteers to enter the mine under the leadership of Taylor. He was overcome by gas while with Taylor, but managed to reach the foot of the shaft and later returned to guide the rescuing party to where Taylor was lying. In company with Mr. Taylor, James McCann, North and George Horwat, Wood entered the mine Monday afternoon. They found Gonla at the foot of the shaft, alive but terribly burned. Leaving McCann to take him to the surface, Taylor and the other three started toward the southern air shaft.

Taylor lighted a cigar, and, by blowing the smoke into the air, determined in which way the air was going. When the party had gone some distance, North was sent back for some plans which had been left at the foot of the shaft, and the other three went on. After passing a caved-in overcast, the firedamp was found to be worse, and Wood and Horwat suggested that the party retrace their steps. Taylor wished to go as far as possible, however, and went on until he began to stagger. Wood caught him and tried to lead him, but he fell three times and Wood dragged him toward the heading, where he was forced to leave him, as he was becoming affected by the firedamp. He assisted Horwat back to the overcast, where he was forced to leave him and started for the foot of the shaft to get assistance.

He turned the wrong way and found himself in another part of the mine and discovered two men lying in some water. He said they were "Chris" Bowser and Harvey Rutter, and they were still living. Wood fell from exhaustion before reaching the foot of the shaft, but his cries had been heard by McCann and North, who rescued him and sent him to the top.

TAYLOR ESTATE IS DISTRIBUTED

Valuation of About \$2,000,000 Divided Among Widow, Daughters and Sons-in-Law.

An order for the distribution of the estate of Selwyn M. Taylor, deceased, the well-known mining engineer, who was killed while aiding in rescue work after the Harwick mine disaster, eight years ago, was made yesterday by Judge William G. Hawkins, of the Orphans' Court.

At the time of Mr. Taylor's death the estate is estimated to have been worth about \$2,000,000, with debts aggregating \$400,000. It is alleged by A. C. Munhall and William E. Fohl, sons-in-law of the decedent and executors of his will, that the property was in bad shape when they took hold of it and that it has taken their united efforts for several years to straighten it out again. For this reason they excepted to the claim of the widow that they should be charged with the interest on \$60,000 drawn by them during the period of their services, for which they received no compensation, and the court sustained their views. Mrs. Taylor's claim for the division of an item of \$6,100 expended in charitable work was not allowed. The estate is divided as follows:

Mrs. Mary Z. Taylor, the widow, is given \$300,000, with a life possession of Mr. Taylor's library, valued at \$14,023.75. Mrs. Lulu Munhall, wife of A. C. Munhall, one of the executors, and a sister of the testator, receives \$133,529.79. Mr. Munhall receives a legacy of \$7,800. Mrs. Laura T. Fohl, the wife of William E. Fohl, another executor, and sister of the deceased, is given \$130,903.63. Mr. Fohl is given a legacy of \$7,800.

Bachman, a miner in the main entry, caused the explosion. It was not Bachman's fault. He tapped a big pocket of fire damp in the rock and set fire to it by his first blast Monday morning. How do I know? I'll tell you. Bachman called me into the place where he was working last Saturday. He wanted two pails of water to put out a fire that was running all over the roof. That was the beginning of the flow of fire damp. I told him then I was afraid, but he laughed at me. It was at Bachman's place that most damage was done."

ONLY DEAD COULD TELL

Upon hearing Howarth's theory, Inspector Cunningham expressed the opinion that it was the most plausible he had heard. It is significant that J. A. Gordon, who came from the mine last Monday morning and was with the men. He was on the condition of the mine with the coal men. Mr. Cunningham has not investigated as yet the reason the fan was stopped for a short time last night. This was the most powerful and destructive mine explosion the world has ever known."

The explosion in the mine occurred at 6:30 o'clock Monday morning. At 6 o'clock the mine was blackened, burned man, and the shaft was a bit of a mess.

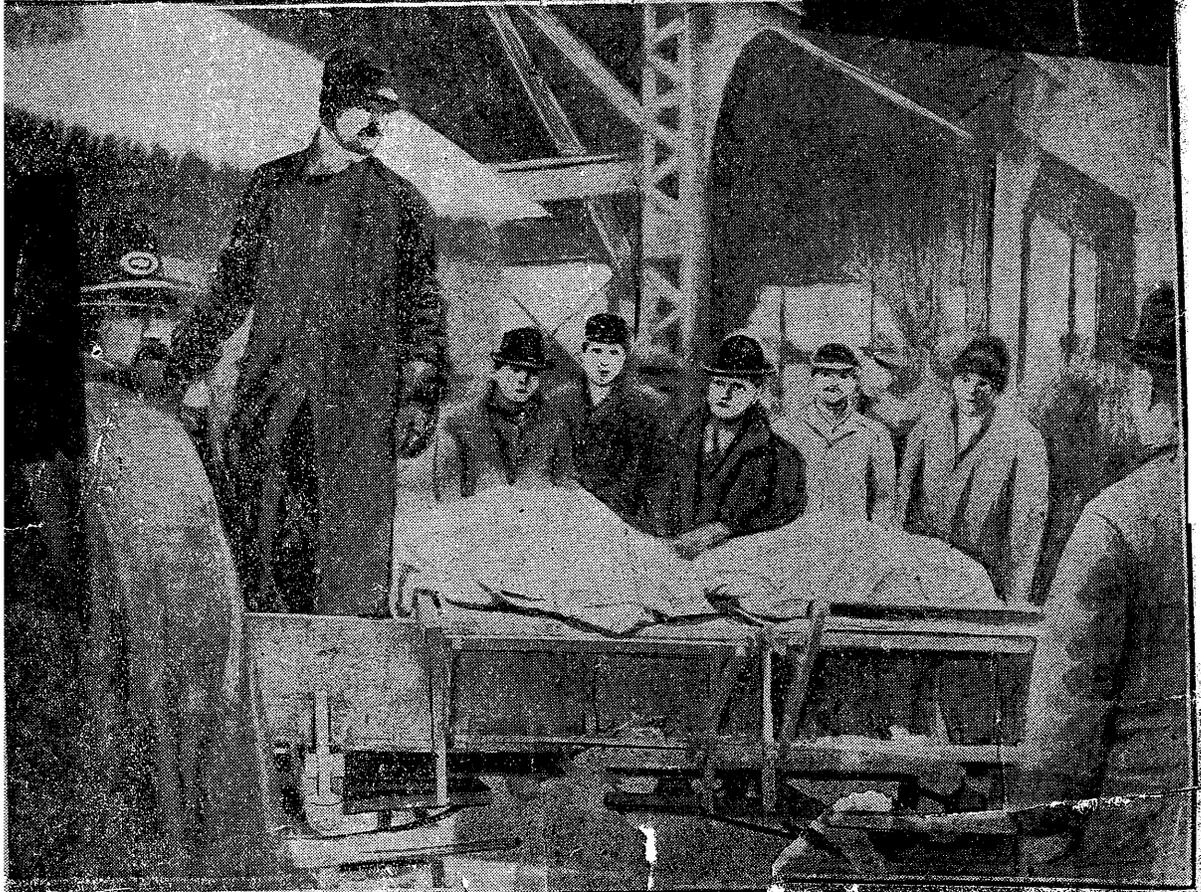
DEAD NUMBER 187.

Of the Victims Are Left Nearly Destitute.

Effort to Determine Who Was Responsible For Disaster Is Unpleasantly Pathetic Incidents.

Pa., Jan. 29.—One hundred and seven men and boys went down the Harwick mine last Monday morn-

ing, but no correct record was kept of the daily risks their lives were taking in the mine. The lantern boss, who is the only man connected with the company who can give even a rough estimate, and he admits that his system was woefully lax. "We haven't the lanterns numbered," said he, "and the men ain't checked off. We did check them up to a few months ago, but we had a lot of changes since then. We can't give any list of the men first went to work. We gave out



SLEIGH LOADED WITH BODIES COMING OUT OF HARWICK SHAFT.

LABOR FEDERATION FAVORS STRIKE OF RUBBER WORKERS

State Body Promises Assistance of \$1 a Man or About \$60,000 Altogether to Aid Strikers.

Manufacturers Claim Gains They Declare that One Hundred Union Men Are at Work in Mills Today Besides 328 Non-Union Men and that Old Employees Are Returning.

MANUFACTURERS CLAIM GAINS

They Declare that One Hundred Union Men Are at Work in Mills Today Besides 328 Non-Union Men and that Old Employees Are Returning.

ENCOURAGING STATEMENTS

Given this morning by the Amalgamated Rubberworkers Union, that the workers of Trenton mills, which are involved in the strike, which began last week, and expressed confidence in their ability to win.

MANUFACTURERS CLAIM GAINS

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WEAR GARLAND IN HONOR OF MCKINLEY

Friday Will Be the Anniversary of the Birth of the Nation's Last Martyr President.

Wear a pink carnation next Friday. Do this out of respect to the memory of William McKinley, was here said President of the United States.

WEAR GARLAND IN HONOR OF MCKINLEY

Friday Will Be the Anniversary of the Birth of the Nation's Last Martyr President.

DUNCAN MCKENNA'S BURIAL TODAY

John S. Yard Also Borne to His Grave

Other Deaths and Funerals About City.

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FIRE-FIGHTERS' SANITARY SOCIETY

Good Work of Firemen Saved Earthquake Specialty Company's Plant This Morning.

Fire threatened for a time this morning to wipe out the plant of the Sanitary Earthquake Specialty Company, on South Street, near Eighth avenue, and the good work of the fire department was all that prevented a disastrous conflagration.

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MINERS' CORPSES

Raising the Bodies of Mine Victims Into the Daylight.

Corpses Gather About the Mouth of Harwick Mine as Mangled Forms Are Elevated.

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MORE STRIKE ASKED BY BOARD

Commissioners Will Arrange Budget Schedule Tonight, Including Requests for More Equipment.

Application for money for increased facilities for fire fighting will be made tonight by the Fire Commissioners in a schedule to be presented at the next meeting of Council when the fire budget for the coming year will be considered.

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EMPIRANCE SONS PLAN MORE WORK

Sixtieth Annual Meeting of State Organization Being Held Here Today Efforts Against Saloons.

Representatives of the Grand Division, Sons of Temperance of New Jersey, met this morning in annual session at Council Hall.

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COUNCIL HALL CITY \$10,000 FOR NEW MUNICIPAL HOSPITAL

Modern Building to Be Erected to Aid in Fight Against Smallpox and Other Diseases.

Health Board Wants Fund Present Seize of Smallpox Crowds Wards of Buildings Now in Use and Show Necessity of More Room for Treatment and Isolation of Patients.

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SIXTH YEAR

SANDUSKY OHIO THURSDAY, JANUARY 28 1904

NUMBER

HARWICK AT LAST GIVES UP ITS DEAD.

Eighty-Four Mangled Bodies Brought Up Out of the Mine.

Then Work Ceased Until Ice Could
be Removed From Shaft—Many
of the Bodies Mangled Be-
yond Hope of Resuscita-
tion.

Cherwell, Pa., Jan. 28.—At 9:30 this morning the work of removing bodies from the Harwick shaft ceased until the accumulation of ice in the shaft could be removed. So far 84 of the 174 dead have been brought to the surface. One hundred and twenty other volunteer miners of experience are coming today to help take out the dead.

BOIES Brought up from the Mine Were Nearly Torn to Pieces

Cherwell, Jan. 28.—After three days of terrible suspense, and the hardest kind of work on the part of the rescuers, the taking out of the bodies from the Harwick shaft commenced yesterday evening. About the mouth of the shaft waited a crowd of men, women and children whose heads and fathers were in the mine and of whose bodies they hoped to get a last look. Many of these people were doomed to disappointment, for the most of the bodies brought up were unrecognizable. An explosion had torn the men limb from limb and the features of the majority of the corpses were so torn and mangled that there is no hope that they will ever be identified.

Thirty-three bodies were brought to the surface Wednesday night and of these only 18 could be identified, some of them only by clothing.

It is now known that there were 171 men in the mine. All of them are dead. Two children, a woman and a boy were killed at the time of the explosion and Mining Engineer Selwyn Taylor was killed later, making the total death list 174.

As rapidly as bodies were brought up from the mine, they were taken on sleds to a school house on the hill above and turned over to the undertaker. The most of them are in such condition that they must be buried at once.

Around the school house as well as the shaft of the mine is a crowd of weeping women and children. Newspaper correspondents and members of the rescuing parties are almost unperceived by the grief of these people.

GAVE Up the Life Trying to Save Others in the Mine Six Platted.



SELWYN M. TAYLOR.
Taylor was killed while leading a rescue party that entered the Harwick mine. He was a mine expert and platted the mine in which he met his death.

BUNGLED THE WRONG PEOPLE.
Washington, Jan. 28.—Capt. Detective P. M. Weber yesterday arrested M. F. McKesson, charged with "bothering with intent to fraud," in the capital. McKesson was soliciting contracts for electrical "wiring" in a proposed publication entitled "Personal Reminiscences of the Fifty-Fifth Congress."

DICK Asked to Help Outrage the Ohio Gordon Knot.

Washington, Jan. 28.—President Roosevelt, in his desire to get things straightened out in Ohio, has sent for Gen. Charles W. Dick with a view to consulting with him. Gen. Dick heard the invitation was coming and "ducked" it as long as he could, but was finally overruled by a White House messenger. Dick did not want to get into the Ohio muddle. The chances are that his advice to the president will be to stand by Hamlin and take his chances in getting the support of that gentleman for his presidential aspirations. Dick visited the White House this afternoon, but the result of his conference is not known.

A PLUCKY DRUGGIST Gave Battle to Gang of Burglars

St. Louis, Mo., Jan. 28.—A plucky druggist, and the owner of a famous author wrote a series of juvenile works which he called the "Young America" series. The stories dealt with life on a floating school ship in which students were taken to all parts of the world during their school terms. High standing in school, combined with good conduct, brought his reward in the form of advancement from the ranks of the sea man. Seamanhood formed one of the chief studies.

ENDED CAREER OF ONE And Put the Other Two to Flight— Alarm Was Given by a Pet Dog.

St. Louis, Mo., Jan. 28.—Paul W. Decker has been incorporated and the full-rigged sailing ship, "Young America" is being built for use as the future home of the students. Strictly speaking, "Young America" will be a floating school in which, in addition to the regular curriculum of a first class preparatory school, the arts and sciences which go to the making of an efficient naval officer, will be taught. The object of the school is to provide training for boys and young men for business or professional life. At the same time routine life on the ship will be almost identical to that on board navy-training ships and the boys will have the benefit of strict discipline. In addition they will have the benefit to be derived from touring the world when giving breath to their education.

CHILDREN In Tenement Were Burned to Death

New York, Jan. 28.—Three children were burned to death in a tenement which broke out at 9 o'clock this morning in the basement of the tenement at No. 111 Madison street. The fire started in the apartments of Hannah Cohen, probably from an over-heated stove. Three of Cohen's children were alone in the room at the time, their father and mother being out. All were suffocated and partially burned. After the flames had been put out their bodies were found. The dead are Sarah, aged 9 months; Meyer, aged 2 years, and Louis aged 7 years.

ITALIAN Laborers Killed in a Peculiar Mine Accident

Brownsville, Pa., Jan. 28.—Four Italian laborers were killed instantly this morning through being crushed under a 600 pound weight following a terrible fall down an air shaft a distance of 550 feet. The dead men are thought to be the day shift of laborers employed in making air shafts for the Briar Hill Coal company along the National pike four miles from here. At 7 o'clock the four Italians got into a bucket to be taken down about 125 feet the engineer mistook the pilot-weight still hanging above and at once made efforts to stop the bucket and bring it back. This reversal of the machinery resulted in causing the weight to fall down the shaft. It smashed the bucket and men fast.

TRIED TO KILL HIMSELF. Youngstown, O., Jan. 28.—Miss Jennie Davis of Massillon who has been detained in the county jail waiting transfer to Stark county on a charge of insanity, attempted to commit suicide Wednesday afternoon in the jail by trying a shoe lace about her neck. For seventeen years the girl has been a inmate of various insane asylums.

INDIANS ARE GATHERING. Pl. Gibson, I. T., Jan. 28.—Last night John Wood, captain of Indian police, with a squad of picked men, passed through on his way to Granddome mountain, where the Kiowa Indians are said to be concentrating. From the trail from Granddome, many Indians gathering there. A party of seven hunters from this place is supposed in the Granddome mountains.

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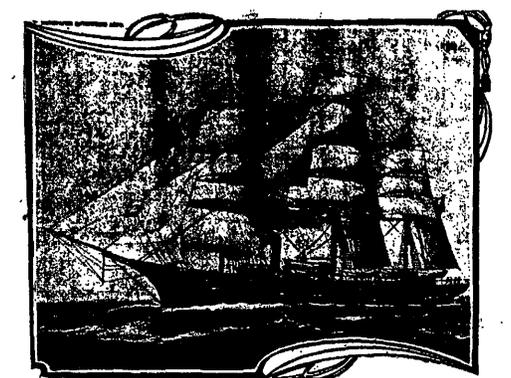
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FLOATING SCHOOLSHIP WILL TAKE STUDENTS TO MANY LANDS.



"YOUNG AMERICA"
The regular curriculum of a first class preparatory school, the arts and sciences which go to the making of an efficient naval officer, will be taught. The object of the school is to provide training for boys and young men for business or professional life. At the same time routine life on the ship will be almost identical to that on board navy-training ships and the boys will have the benefit of strict discipline. In addition they will have the benefit to be derived from touring the world when giving breath to their education.

COMMITTEE To Make Fund for Silver Service for Ohio Gilt.

Columbus, Jan. 28.—The bankers' committee which undertook to raise \$25,000 for a silver service for the battleship Ohio, called on Gov. Herrick today, threw up its hands and turned in a paltry \$200. Gov. Herrick said he would relieve the committee from further effort and would see himself that the fund was completed for the silver service.

ANDERSON PETITIONS General Assembly For a New Roster

Columbus, O., Jan. 28.—The petition for a new roster of the regular army in the civil war, Ohio volunteers of the Spanish-American war and of the provisional regiments raised in Ohio for service in the Philippine insurrection. It is estimated that these rosters will include 35,000 names.

LISTS OF SOLDIERS Of War of 1812, Regular Army in Civil War and Later Centuries, is Desired.

Special to The Star:
Columbus, O., Jan. 28.—Gen. Thomas M. Anderson, commander of the Sandusky Soldiers' home, has set a petition which was presented to the senate this afternoon by Senator Jodocus, asking that an appropriation be made to print rosters of Ohio soldiers of the war of 1812, Ohio soldiers enlisted in organizations of the regular establishment in the civil war, Ohio volunteers of the Spanish-American war and of the provisional regiments raised in Ohio for service in the Philippine insurrection. It is estimated that these rosters will include 35,000 names.

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SUSPECT ARRESTED At Louisville for Schaefer Murder

Inspired by Optum About Killing a
Woman—Clothing Was Blood-stained
and Face Scratched.

GOVERNOR Herrick Makes Informal Request of People

It is That They Suitably Observe
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GOVERNOR Herrick Makes Informal Request of People

Columbus, Ohio, Jan. 28.—Governor Herrick has requested that all state governments done at noon Friday as an observance of the birthday anniversary of the late President McKinley. He also asks the newspapers to express his informal wish that all of the people of Ohio may suitably observe the day.

ATTORNEY For Tibury Threw Up the Case

Coachman Charged With Blackmail
Failed to Produce Sensational
Letters He Said He Had.

Chicago, Jan. 28.—The alleged blackmail case of coachman Tibury, accused by Mrs. Thurston of Irving, was dropped today by the case. Tibury's attorney, Elmer Clare, has dropped out of the case because Tibury has been unable to produce the letters said to have been written by Mrs. Thurston. Clare said he had no case to defend. The judge then appointed Morris Rosenthal as attorney for Tibury and adjourned the case until tomorrow morning.

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A summary of the Chicago case excites more curiosity than also the outline of the latter people case made, and is probably amounted to little or nothing in his day.

ACTIVE MILITARY WORK IN CHINA

RAID On the Canal System Opened by This Bill.

Columbus, Jan. 28.—Speaker Pro Tem Hollis Johnson last evening introduced the bill to open one bank of the Miami and Erie canal over to a railroad company in which George B. Cox and other Cincinnati politicians are interested. The bill on its face gives the owners of the "electric mine" line, conducted some years ago, the right to operate a steam railroad upon its property. It provides for the payment of such rental as may be determined by the court from time to time by a Commissioner. This is the first of the bills designed to accomplish the abandonment of the canal system of the state and turn the property over to railroad companies.

Indicates That Something is Apt to Drop Before Very Long

Official St. Petersburg Conference
is Talked Hoped, But Paris has
Held the Ear in War
Sparring for War
Appears Inevitable

St. Petersburg, Jan. 28.—Dispatches to the newspaper from St. Petersburg, say that 50,000 Chinese are held in readiness to protect the frontiers in the event of a war between Russia and Japan. Sivek also asserts that Japan already has an armored train manned with quick-firing guns on the railway between Seoul and Chinnampo, Korea.

MACHEN'S DEFENSE Is That Lorenzen Paid Up an Old Debt

Washington, Jan. 28.—The case of the defense in the Mochen-Groff conspiracy trial was opened this morning. In his opening statement to the jury, ex-Judge Samuel Madox, attorney for the Groffs, made clear the line of defense, which is that Dr. Lorenzen was partner with the Groffs in the manufacture of a patent, leather fastener, and as such, received 10 per cent of the profits thereon. The payments to Mochen by the Lorenzen was the discharge of an old obligation. It is alleged and had nothing to do with the sale of the Groff fastener to the government. Incidentally, Judge Madox mentioned the fact that Dr. Mochen who reduced the price of the fastener from \$1.50 to \$1.25.

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BILL To Abolish Inflammatory Boards Introduced in General Assembly.

Columbus, O., Jan. 28.—Representative F. A. Russell of Meigs county, today introduced a bill providing for the abolition of all county inflammatory boards. Management of these institutions will be placed in the hands of a superintendent, who will make monthly reports to the county commissioners. Russell estimates the plan will save an annual expense of \$137,000.

INTEREST In Case of Her Murderer of Isabel Socialist is Dying out.

Allentown, Pa., Jan. 28.—Interest in the social tragedy and the social conditions of the aged mother and her young daughter, Isabel, who was murdered by her lover, is dying out. It is the opinion of opinion that the efforts now being made to run down the murderer will fall. Chief of Police Eastman today returned his previous opinion that the murderer was not the man who was arrested. He said that the girl was killed in her own home.

MARKET REPORTS Chicago, Jan. 28.—Cattle 2,000, 20 cents lower; hogs 20,000, 10 and 20 cents lower; sheep 20,000, 10 and 20 cents lower; corn 25,000, 10 and 20 cents lower; oats 15,000, 10 and 20 cents lower.

HANDSOME INTERIOR DECORATION OF THE PALACE OF MACHINERY



St. Louis, Jan. 28.—Herewith is presented an interior view of the machinery of the most magnificent buildings on the grounds of the Louisiana Purchase Exposition. The ceilings and walls are richly decorated. In the background are seen the many of the structures used during the exposition are intended to be permanent and in their construction.

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OHIO: Generally fair tonight and Friday, slightly colder tonight in west and south portions.

The only paper in Fairfield County carrying a full page of top-notch comics daily.

Vol. XCIV, No. 250

LANCASTER, OHIO, THURSDAY, FEBRUARY 4, 1926

Price Two Cents A Copy; 12 Cents A Week.

The Lancaster Daily Gazette.

Nineteen Men Die In Coal Mine Explosion

Three Bodies Recovered Fire Prevents Bringing Out Of Remaining 16

PITTSBURGH, Pa., Feb. 4.—Important mine disasters in the bituminous fields of Western Pennsylvania, during the last 25 years:

- Shenksstown, Jan. 28, 1924—33 killed.
- Brownville, Feb. 2, 1922—25 killed.
- Lilloren, March 20, 1922—5 killed.
- Spangler, Nov. 6, 1922—77 killed.
- Reston, July 19, 1920—9 killed.
- Marianna, Aug. 7, 1916—8 killed.
- Marianna, Washington County, Nov. 28, 1908—184 killed.
- Jacob's Creek, between Fayette and Westmoreland counties, Dec. 18, 1907—23 killed.
- Johnstown, July 19, 1902—112 killed.

stood at the mine entrance in the wet snow, waiting for news of what had occurred.

The section of Butt No. 15, where the explosion occurred, was sealed off today in an effort to exterminate the fires. Sixteen bodies remained within this section, while only three have been recovered.

Trapped in a passageway 4,000 feet from the mine entrance, only two of 21 men at work fighting a blaze in the mine escaped alive. The explosion which occurred late yesterday, was the aftermath of a fire in the mine which broke out when a cutting machine broke through a clay vein into a gas pocket.

The 21 men went into Butt No. 15 to fight the blaze at 10 a. m. A. 3:30 p. m. George Oleser, vice president of the company in charge of operations came out of the pit announcing his belief that the fire had been brought under control.

Within half an hour a terrific explosion was felt, and the ground was trapped, while between 400 and 600 others emerged from other sections of the mine, some of them not knowing that any trouble was around them.

After three charred bodies were brought out of the mine last night, about 150 rescue workers continued efforts to save the 16 other men trapped, but when these were reached early today all were dead. At 1:00 a. m. another blast of gas in the mine was reported. About 1,000 persons—many of them relatives of the trapped men—were gathered at the mine entrance.

A campaign to secure funds for the erection of a \$4,000 building at the Maywood Mission will start next week according to the announcement made today by members of the board.

More room is needed at the Mission which is in charge of Rev. Mrs. W. H. Edick. The new building will provide ample room for church and Sunday school services.

The Mission besides being a haven for the poor and needy of the county is also used as a detention home by the county. All boys and girls of juvenile age who get into trouble and are taken to court are placed in the detention home instead of being sent to the city prison or county jail.

The use of the Mission for such purposes saves much expense every year as the law provides that a detention home must be provided for in each county.

The directors of the Maywood Mission Board have started the campaign with personal contributions. The county-wide campaign will begin next week.

WORST STORM OF WINTER SWEEPS THE EAST

THE MODERN GIRL'S CHALLENGE

THE GAZETTE next Monday starts publication of a new and startling story—the story of a typical modern girl who goes out into the world, just as her brother does, to make her own way to future success and happiness.

"Her Own Way" (for that is its name) probably will cause more controversy and comment than any story The Gazette has ever published. But that is because it is so true to life.

It will interest mothers, as they will see how far away they are in their judgment from their daughters. It will interest their daughters, for in the dramatic episodes through which Julia Dean and her

girl friends move they will find a repetition of their own problems.

The story as far as these experiences are concerned is true, having been told to the author (whom the reader readily will see cannot reveal her identity) by girls in all walks of life, from the sheltered young woman of the drawing room and limousine to the wide-awake girl of the street car and the telephone exchange of a smart hotel.

The soul of the young woman of today will be brought into the bright light of every day contact with the readers of The Gazette. Don't fail to start this remarkable story—in next Monday's Gazette.

Ohio Newspapers Oppose Unjust Legislation

COLUMBUS, O., Feb. 4.—Organization of a central office to protect Ohio newspapers against injurious legislation, may result from the final session of the annual convention of the Associated Ohio Dailies here.

An executive committee to organize the projected organization probably will be appointed within a month by R. C. Snyder, Newark Reflector-Herald, who was re-elected president.

If the proposal is approved, the members would be R. C. Snyder, Newark Reflector-Herald, in charge, to protect newspaper interests in the legislature.

All officers of the Associated Ohio Dailies were re-elected late yesterday.

With Snyder again president, others elected were: E. E. Cook, Columbus, of the Scripps-Howard papers, and Geo. W. Taylor, of the Portsmouth Times, Vice President; Alfred Haswell, Bowling Green, Sentinel-Tribune, Treasurer; and Omerus C. Hoover, of the Ohio State University-College of Journalism, Secretary.

Speakers at the banquet which climaxed the convention last night included R. Rev. Bishop Warren L. Rogers of the Ohio Episcopal Diocese, and Karl A. Bickel, President of the United Press.

Consolidation Of Local Legion Posts Probable

The contemplated consolidation of the two local legions, Karl H. Eymann No. 11, and Albert P. Kutig No. 42, into one post to be known as "Old Post No. 11," will come up before the regular meeting of Karl H. Eymann Post No. 11, Friday evening.

5 Members Of Family Perish As Home Burns

DOWAGIC, MICH., Feb. 4.—Five members of a family of seven, including a three day old girl, were burned to death in a fire which destroyed the farm house of Wm. Wilkinson, six miles north of here today.

The dead are Mr. and Mrs. Wilkinson, a son Floyd, a daughter Genevieve, and the infant. Two other sons, Harold and Arnold, were working on a neighboring farm at the time.

45 Autos Burn In Garage Blaze At Zanesville

ZANESVILLE, O., FEB. 4.—Forty-five automobiles were destroyed by fire which swept the building occupied by the Zane Motor Sales Company here today. The loss was estimated at \$250,000.

Origin of the blaze has not been determined. All available fire apparatus was called out and it was very hot before the flames were under control.

The automobiles included forty private machines and five new vehicles, the latter on exhibit in a display room.

Trux Blames Government For Farmers' Ills

COLUMBUS, O., FEB. 4.—Ohio Farm Week entered its fourth day at Ohio State University today, with lectures on cooperative and practical agricultural production methods for joining.

The Farmers and Grain Dealers Association, in session two days, was scheduled to adjourn this afternoon after selecting officers.

Governor May Appoint Duffy's Successor Today

COLUMBUS, O., Feb. 4.—Governor Donahay today was expected to announce formally his acceptance of the resignation of Thomas J. Duffy, chairman of the State Industrial Commission.

Bearing out statements made by the United Press recently, Duffy late yesterday, again tendered his resignation, effective Feb. 15, and indicated it is accepted.

The Governor indicated the resignation would be accepted this afternoon, simultaneous with the appointment of Duffy's successor.

The Governor was known to be considering the qualifications of four prospective appointees. These included Patrick F. Casey, Cleveland, former inspector and head of the actuarial division of the commission; George W. Savage, secretary of the United Mine Workers of Ohio; and Thomas P. Kearns, of the State Division of Safety and Hygiene.

Three Are Dead -- Nine Hurt And Fifty Buried Alive When Snow Caves in Roof

NEW BRITAIN, CONN., FEB. 4.—Weight of snow which for almost 24 hours had been falling here, caused the roof of the foundry of the North and Judd manufacturing company to collapse today.

Fifty workmen were reported buried. Three bodies were taken out and nine persons seriously injured, were carried away soon after the accident.

The roof gave way suddenly with a crash like an earthquake. None of the men employed in the building had a chance to escape.

DOES IT PAY TO ADVERTISE?

An advertisement inserted in the classified columns of the Gazette, Tuesday evening, brought to this office over 60 letters of inquiry addressed to "Box 3" within 24 hours following its publication.

All of which are in proof of the truth of the old slogan "It pays to advertise"—providing you use the proper advertising medium.

Woman's Body Is Found in Furnace -- Husband Held

SIoux CITY, IOWA, Feb. 4.—A furnace death mystery was fronted police here today in the case of Mrs. George Solomon, 47, mother of nine children, whose badly charred body was found in the basement of the Solomon home here.

Solomon was taken into custody at the suggestion of two of his sons, who said they believed he could clear up the mystery.

When the younger children returned from school late yesterday, Solomon told them their mother was visiting friends. A little later three of the children discovered the body. The body was some distance from the large furnace.

It was covered with coal ashes. The head and arms were badly burned. There were no burns on the lower part of the body.

Police said indications were that the body had been dragged from the furnace to the spot where it was found.

The family came here from Albert Lea, Minn., six years ago.

Woodgeard To Stand Trial On Liquor Charge

Danny Woodgeard, who was arrested in a raid made on South Lancaster three nights ago pleaded not guilty before Mayor Albrecht today to charge of illegal possession.

The trial was set for Feb. 10th at nine thirty. The defendant is confined in the county jail.

It is stated that this is the third time he has been up for liquor offense.

Liquor Charges Denied By The Taxi Drivers

Don Nutter and "Red" Russell, taxi drivers arrested before Mayor Albrecht yesterday afternoon on liquor charges pleaded not guilty before Judge P. T. A. today.

Their trial was set for Feb. 10th at 10:30 a. m.

Nutter is charged with illegal possession and selling, while Russell has the count of illegal transportation against him.

Both are out on bond.

WARM IN ALASKA

Alaska tied with Texas and Florida today as the "Pleasant place to spend" the winter.

With the North Atlantic region gripped by the seasons cold storm Juncus, Alaska, was back-tired in a temperature of 40 degrees and the lowest in the supposedly frozen territory was 12 above in the Nonaka Valley, Elyria.

The weather was described as mild.

Train had the same temperature as January 4 degrees, but a weather on the night while in Florida the sun was bright and warm.

KAISER WILHELM IS 45 YEARS OLD TODAY.

All Germany is Rejoicing Over the Emperor's Restoration to Health and the Whole World Congratulates Him--The Most Versatile Monarch of Modern Times--An Array of His Varied Talents--Was Never Mixed Up in a Scandal.



WILHELM II, EMPEROR OF GERMANY.

Berlin, Jan. 27.—Emperor Wilhelm is 45 years of age today and all Germany is in a festive mood in celebration of the event. The people are especially jubilant at this time because of the recovery of the emperor from an illness which many feared would result fatally—the growth in his throat which was believed to be a cancer and which for a time threatened his life.

The emperor was up early, as usual, and received the congratulations of his court and the foreign ministers in the city. Telegrams of congratulation were received from the crowned heads of the civilized world and from the presidents of republics. Among the telegrams was one from President Roosevelt expressing his regard for the kaiser and his joy at his restoration to health. To this the kaiser sent a warm reply of thanks.

The kaiser and members of the imperial family were also the recipients of congratulations from everyone. The day was observed as a holiday throughout the empire.

all women of his empire to follow. His tastes are strongly domestic and his happiest hours are passed with the empress and their seven children all of whom labor the wonderful brain power of their father.

No man in Europe possesses such a variety of talents or has developed them to such an extent. Wilhelm has written plays and conducted their rehearsals, written "The Emperor's Own" a popular magazine, and acted as a general manager. He has composed songs and sung them. He has written orchestral compositions and conducted the orchestra that performed them. He has piloted pictures that rank well as works of art. He has a peculiar talent for caricature and could conduct a good salary on any American newspaper, on his merits alone. He is an excellent chess player. He is a master of all the arts of war and has personally built up the German army and navy, giving

him a reputation that is not only in the most of them than they. He is not surprised that the people of his empire are glad to see an opportunity afforded to their boys and what better, show their love for him. Their love has been won by his devotion to them and his family's progress.



THE EMPRESS AUGUSTA.

When a photograph taken at the time of her marriage.

POOL Will be Legitimized by New Lobbying.

Columbus, O., Jan. 27.—The proposed bill to legalize the pool table is to be introduced in the house next week. The entire details of the bill, which will be passed after the New York racing laws, have not yet been determined but advertisements are expected here this week. No one has yet been settled upon to introduce the bill. It is understood that the measure contains the ideas of the directors of the four mile track in Ohio, located at Cleveland, Chardon, Columbus and Willoughby, and the directors of the half-mile track that are in the north-eastern Ohio circuit, which operates in and around Cleveland.

ODORS OF THE DEAD

Make Work in Harwick Mine Difficult

60 BODIES SIGHTED

As 22 Brought to Bottom of Shaft at 10:30 Today—Bodies Being as Fast as Possible.

Cherwick, Pa., Jan. 27.—Up to 10:30 o'clock this morning sixty bodies had been found in the Harwick mine by the rescuing parties.

They have sighted 67 bodies, said Inspector Cunningham, as he stepped from the cage at 7 o'clock. "Of this number we have succeeded in getting 22 out of the bottom of the shaft and our men are pushing forward as rapidly as possible locating bodies and removing the debris obstructing the way."

Searchers coming from the mine this morning say the conditions are that becoming unbearable. The air, which is poor at best, now heavily laden with the odor of the decomposing bodies and it is next to impossible for the men to work high mines.

Pittsburg, Jan. 27.—Thirty-three dead bodies have been taken from the Harwick mine. Fifty-five other bodies are at the bottom of the shaft and will be brought to the surface this afternoon.

PATTI DIDN'T SING

Bull, Jan. 27.—The concert scheduled for Monday night by Miss Patti and her company did not come off as Miss Patti's manager refused to let her appear, saying that the high altitude and smaller audience had adversely affected the diva's voice and he feared to take risks on the remainder of the trip. It is supposed by many however, that the role of songs was not up to expectations.

FREE Silver a Dead Issue.

Says Williams

Democratic House Leader Makes Sensational Speech and Throws a Spank at Bryan.

Washington, Jan. 27.—In the partisan debate in the house Tuesday, John Sharp Williams, the Democratic leader, tossed the free silver issue into the air. In declaring that least to be dead beyond the hope of resurrection, Mr. Williams said he expressed only his individual opinion but the applause with which the minority members responded, showed plainly that they endorsed his sentiment. Mr. Williams' speech was in direct defiance of Mr. Bryan's denunciation a few days ago that the Democratic platform of 1904 must endorse both 16 to 36 and 32 to 60.

SALARY

Bill for County Commissioners Partly Rejected in House.

Columbus, O., Jan. 27.—The house committee on fees and salaries has recommended the Williams salary bill for county commissioners. In counties with a tax duplicate of five million, the salary is \$400. From that they range up to \$1,000 in counties with a duplicate of \$10,000,000 duplicate, and \$1,500 a year in Cuyahoga and Hamilton counties. The senate will hold up all salary bills pending the construction of that being drawn by State Auditor Quillier.

PHILIPPA AT SIBALTAN
Gibraltar, Jan. 27.—The United States torpedo destroyer Scylla, bound for the Philippines, arrived here today.

JAPAN GETS VERY TIRED

Of Waiting for Russia's Delayed Reply.

SUSPICION AROUSED

That Russia is Simply Sparring for Time—Now Demands by the Czar's Government.

Tokyo, Jan. 27.—The Japanese government has diplomatically indicated to Baron Le Rosen, the Russian minister, that an early response is desired to Japan's recent note to Russia. It is calculated here that the Japanese note reached the Russian cabinet on the afternoon of Jan. 18, and it is felt that sufficient time has elapsed for its consideration and the presentation of a response. The Japanese government is conscious of the possible necessities of the military and naval situation and is unwilling to permit the creation of delays which are designed to gain time.

The future of course of the Japanese government is a carefully guarded secret. The length of time that Japan is prepared to await the pleasure of Russia is unknown. It seems probable that she has been desirous to act decisively within a few days.

Paris, Jan. 27.—The Russian answer has not yet been sent to Japan and it now develops that the points of difference heretofore mentioned have become the main obstacles in the way of reaching an agreement, even though it is possible that the possibility of a deadlock in the negotiations. These points are:

- 1. In Manchuria, Russia declines to concede such unrestricted admission of Japanese as will permit the establishment of Japanese settlements.
- 2. In Korea Russia insists that Japan's privileged position should not result in the establishment of colonies and express of the sea of Japan by fortifying the straits of Korea.

NO AMENDMENT.

Washington, Jan. 27.—The senate committee on foreign relations this morning received its former action in proposing an amendment to the Panama canal treaty and will recommend that the senate accept the treaty as it stands, without change.

MORRILL ATROPHIES.

London, Jan. 27.—Down to the Central News from Cape Town says the Bushmen with the rebels in German southwest Africa are committing terrible atrocities. The limbs of the dead are chopped off, and widows are said to have been burned alive.

THE STATE FLOWER.

Columbus, O., Jan. 27.—The senate today has become the state flower. The house adopted the resolution so providing by a unanimous vote and the senate will probably do likewise.

TAKES BULL BY HORNS

Mayor Harrison Attacks Coroner's Warrant

SURRENDERS HIMSELF

To Sheriff and Applies for a Writ of Habeas Corpus—An Unusual Proceeding.

Chicago, Jan. 27.—Mayor Carter Harrison surrendered himself to Sheriff Barrett at noon today in the jail and immediately gave notice of an application for a writ of habeas corpus before Judge Tuttle for his release from custody. This is an unusual proceeding in case of a criminal verdict, which is thus sought to be overturned. The mayor's bondsmen are to share the sheriff that they will not be responsible for his appearance. The mayor in his petition for habeas corpus alleges that he is illegally restrained from his liberty and that certain charges have been made before the coroner's jury that are without legal foundation and that there is no warrant for holding him responsible for the Iroquois disaster.

SOLICITORS

Empowered to Stop Illegal Expenses by This Bill.

Columbus, O., Jan. 27.—With a view to preventing further unauthorized use of the public money, such as the courts declared Mayor Johnson's establishment of the tax school in Cleveland, Senator Shumaker, of Cuyahoga county introduced a bill to empower city solicitors to apply for injunctions where the public money has been illegally drawn, or are being withdrawn from the city treasury, or where a contract in contravention of the state laws or governing ordinances has been or is about to be entered into.

WHITE

Man Appointed Postmaster at Indianola

Takes the Place of Colored Woman Against Whom Rumors Pre- texts Were Filed by Whites.

Washington, Jan. 27.—The president today nominated Wm. B. Martin (White) to be postmaster at Indianola, Miss. He will take the place of Mrs. Minnie Cox, (colored) whose resignation was demanded some time ago by the white citizens of the town, resulting in the temporary abandonment of the postoffice at that point.

WHO'LL REGULATE

THREE FELLOW Columbus, O., Jan. 27.—Mr. Carothers of Hancock county has introduced a bill which authorizes the incorporation of "good government" associations, for the purpose of securing public officials the proper administration of their offices.

STREET CAR COLLISION

Caused Injury to Many in St. Louis

FOG OBSCURED VIEW

Of Motorman on a Swift Moving Car and He Crashed into a Crowd of One Ahead.

St. Louis, Mo., Jan. 27.—Over a score of people were badly injured in a street car collision early this morning at Broadway and Merion streets, some of whom may not survive. Dozens of others who packed the cars were more or less injured.

Frank G. Hill, 31, internal and external injuries, will probably die. J. H. Hochman, 33, internal injuries, body crushed, may die. John B. Harrington, 48, crushed and internally injured, will probably die. Walter Steinhilber, 48, bruised, cut and internally injured, will probably die. Fred Aker, 40, face cut and internally injured, may die. Joseph Zarny, 43, internal injuries may die.

UNCLE MARK IS UP.
Washington, D. C., Jan. 27.—Senator Hanna is reported to have been here this morning. He left his bed late morning for the first time in several days.

MARRIED MAN IS NOW SUSPECTED OF MURDER

A Bedford, Ind., Citizen, Known to Have Been In- fatuated With Miss Schaefer, is Believed to Have Killed Her Because She Re- fused Him.



MISS SARAH SCHAEFER

Louisville, Ky., Jan. 27.—A white man giving the name of Harry White, was arrested here Wednesday by Chief Detectives Sullivan and Detective Tom Maher, at the home of Roger White, colored. He is suspected of the murder of Sarah Schaefer, 21, a white girl, who was found dead on the collar, neck and chest had blood stains on them, and there are two wounds on her face.

Bedford, Ind., Jan. 27.—Evidence has been found which points strongly to a prominent citizen of this place as the murderer of Miss Sarah Schaefer, whose dead body was found under a coal shed some days ago. The man is married, it is claimed by friends of Miss Schaefer that he was wildly infatuated with her and that several times she refused his attentions. It is known also that she was very much afraid of him. Her father went out alone at night, and

After a consultation of the many different authorities there Coroner J. M. McGeary posted an order on the school house stating that permission was given to inter all the identified dead as soon thereafter as it was possible to do so.

There was a consultation then among the many ministers who congregated at the mine to tender services of mercy. The Allegheny Coal Company had in the meantime prepared long trenches on its own property in Springdale township, adjoining the burial plot of St. Mark's Lutheran Church. U. C. Hatch, a director of the company, and the treasurer, Sheldon Parks, provided all things necessary for the interment of the bodies. Many more were in charge by relatives and friends of the distressed homes of the survivors.

Mourners Await Train

The bodies the company assumed charge of for burial were taken from the blacksmith shop, about 100 feet away, to the railroad track and laid out in rows, where a crowd of weeping relatives stood about waiting for the funeral train, the company had ordered to convey the remains to the new made cemetery, a couple of miles away.

Shortly before darkness fell, and when the company had word that the train was soon due a number of ministers, accompanied by choir singers, filed out of the company's offices on the side of the hill and down to the railroad. Several hundred people gathered about in a circle. In the middle of the circle, leaning against the coffins, women of foreign and American birth sobbed, while the short services proceeded. Mr. Parks, Mr. Hatch, Manager Scheetz and other representatives of the company, stood in the circle and were deep in sorrow. The service was held upward on all sides into the very heart of the shattered

crated the ground. The ceremony was very brief.

Bury Victims in Darkness.

The work had to be done in the darkness, and the few lanterns that had been brought made the work somewhat difficult and confusing. It took nearly two hours to fit the coffins to the rough boxes that had been kept outside the trenches until the coffins arrived. A correct record was kept of the position of every body. Many of the bodies will be placed in the coffins.

The list of the victims last evening is: Frank Hijil, Philip Monagrel, unknown, Salvator Gulron, J. Cochran, Francisco Gallelli, George, Daniel Namat, Joseph Craw, E. Hackney, Steve O..., Pulunzi, Roberto Mutars..., Jack Kovack. There will be a large funeral this morning.

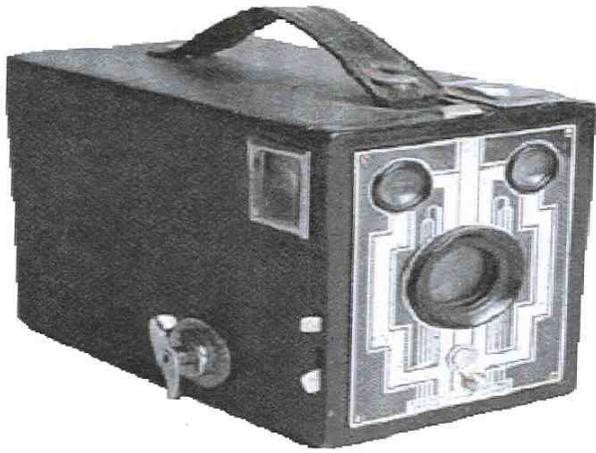
Leave Relatives Behind.

Rev. Alex..., pastor of the Reformed Hungarian Church of Homestead, said yesterday that the Hungarians left wives. These were children. Some of the victims were members of his church in Homestead. He is staying at Harwick to see that the distress of the survivors is alleviated promptly.

Rev. F. A. Billour, of the French Presbyterian Church, Tarentum, said there were 30 Italians killed in the explosion. Rev. Vincent Meselli, of New Kensington, was also at the mine to look after the funerals of the Italian victims.

Relief Committee at Work.

In and out among the homes of the victims yesterday men and women engaged in the work of relief wended their way, gaining information of the needs of the surviving relatives and supplying all urgent needs as they were revealed. E. W. Arthur, W. J. Bigeley, W. A. Armstrong, W. C. McGraw and Rev. Father Richard Hamilton, of St. Albans's Catholic



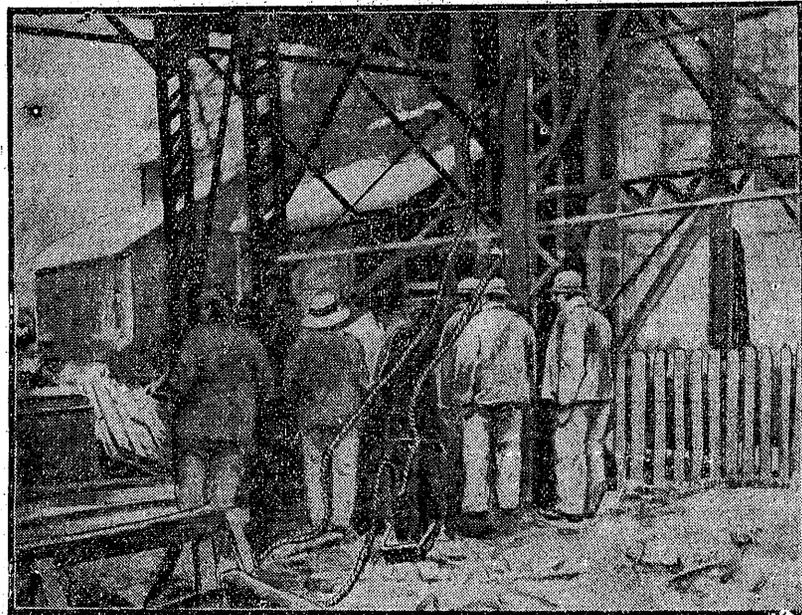
Photographs



One of the few hearses in Harwick used to convey the identified dead.



VIEW OF THE VILLAGE OF CHESWICK.



WAITING AT MOUTH OF SHAFT FOR LOAD OF DEAD.

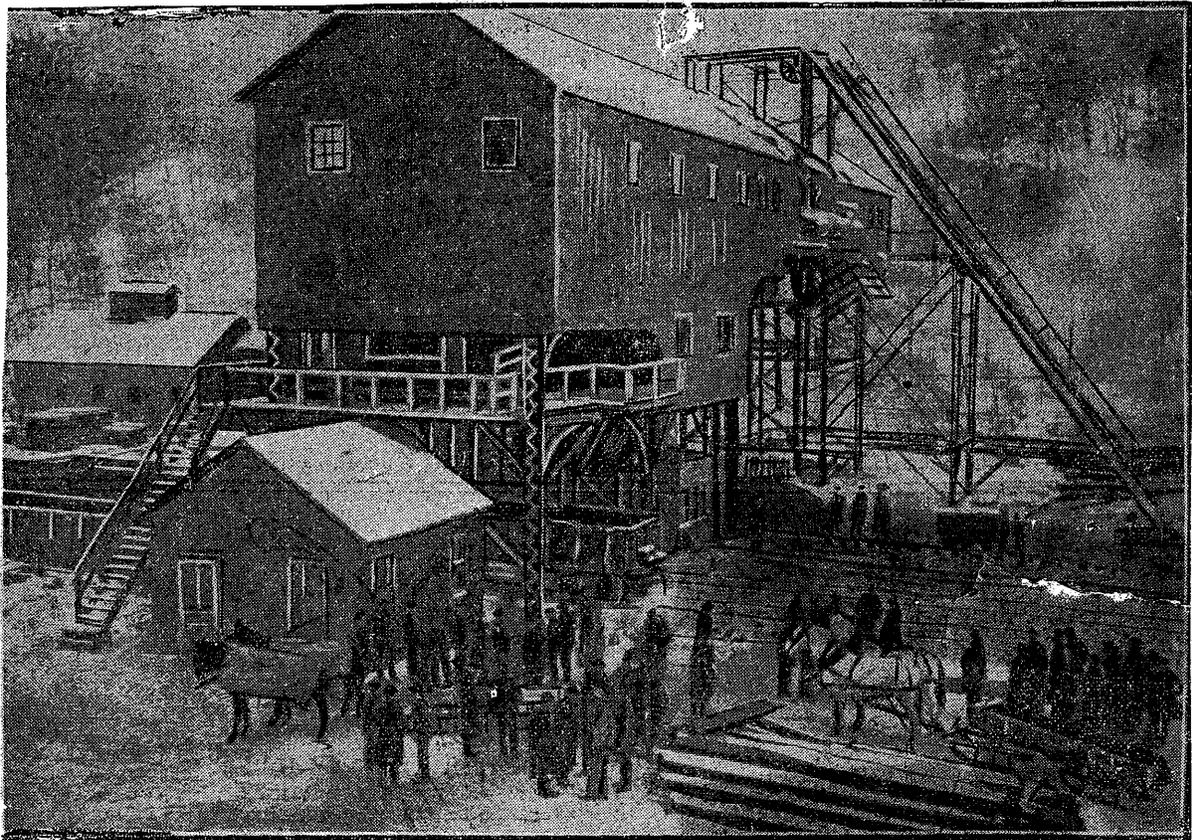
THE DEAD MINE FOREMAN AND HIS WIFE



GEORGE BROWN,
Aged 46, Married, Leaves Seven Children. Son
Robert, Aged 17, a Cager, Dead Also.



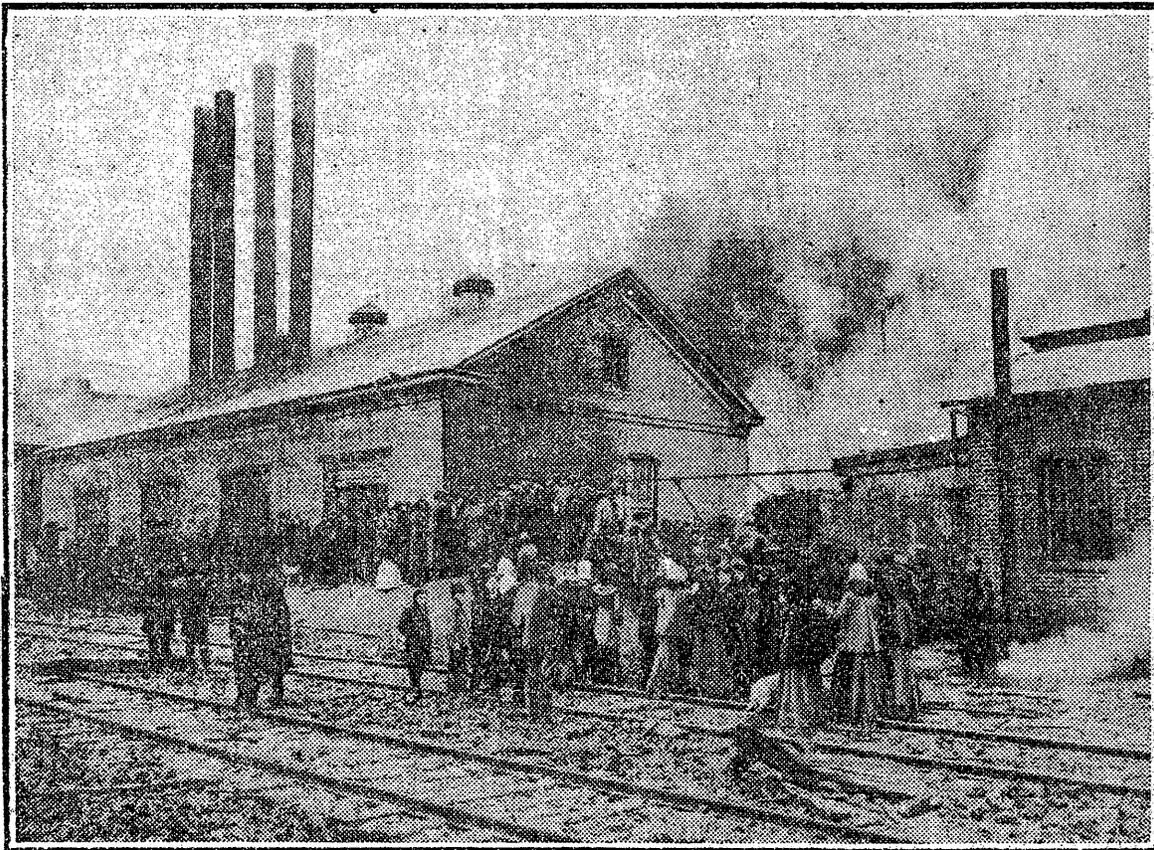
MRS. MARGARET A. BROWN,
Wife of the Dead Mine Foreman.



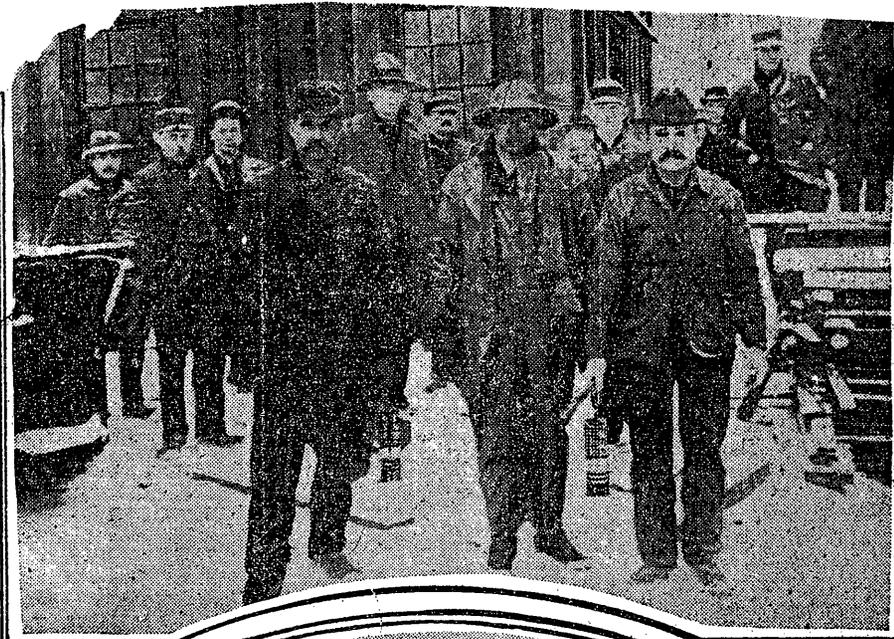
VIEW OF THE HARWICK MINE

[The shaft is under the rear of the tippie. The photograph shows how the ventilation is carried directly over the shaft.]

EAGER CROWDS AT MOUTH OF THE DEATH TRAP



around Air Shaft--Many Women Anxiously Waiting for News of Husbands, Sons and Brothe



SCENES AT THE HARWICK MINE WHERE BETWEEN

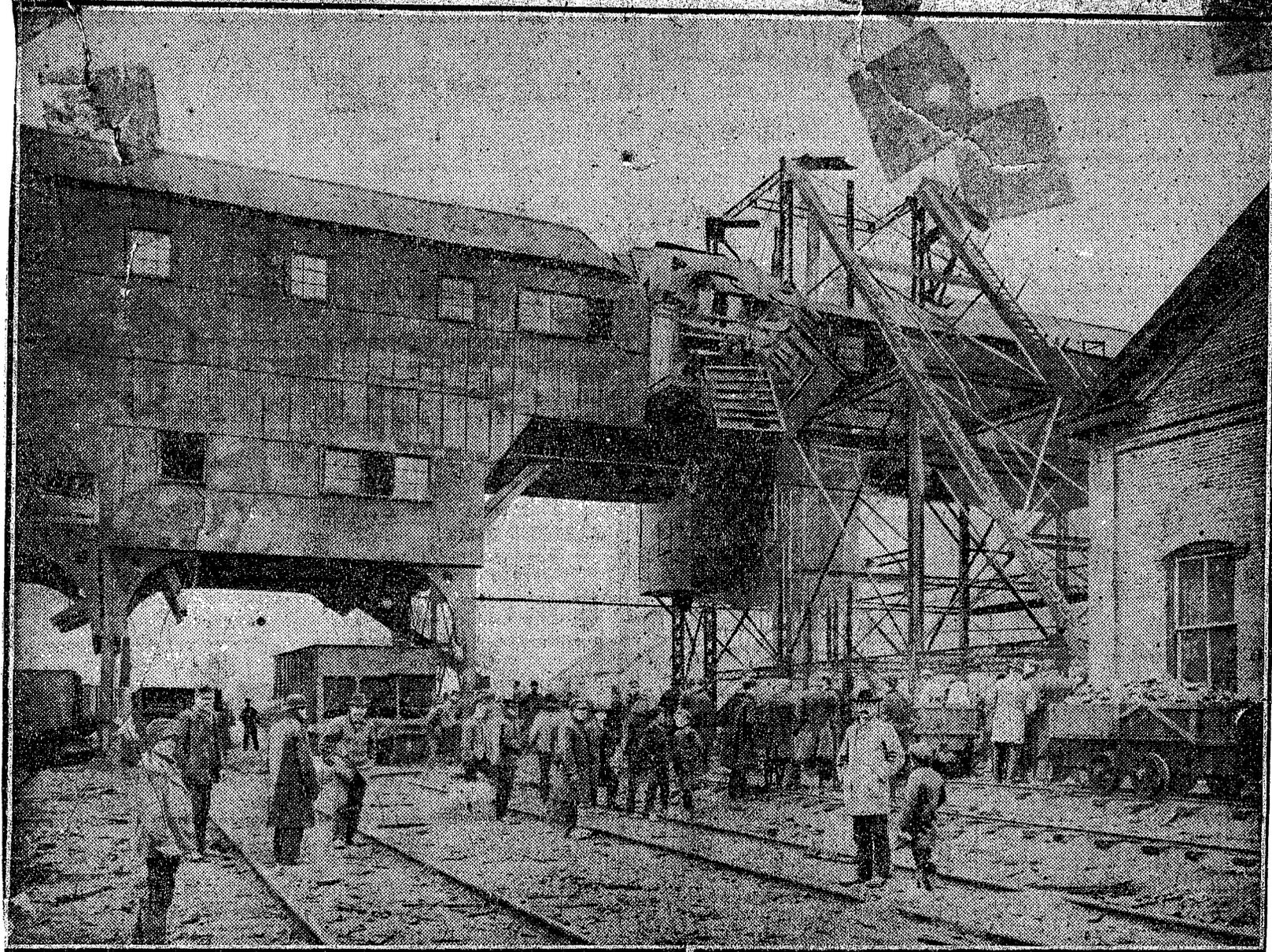
Lamp Inspector and Lamp Trimmer, who Say the Lamps Taken Into the Mine Were
 Reading from left to right—Mr. E. Hutchinson, Inspector R. J. Smith, J. C. Proley.

WERE ENTOMBED BY AN EXPLOSION OF GAS

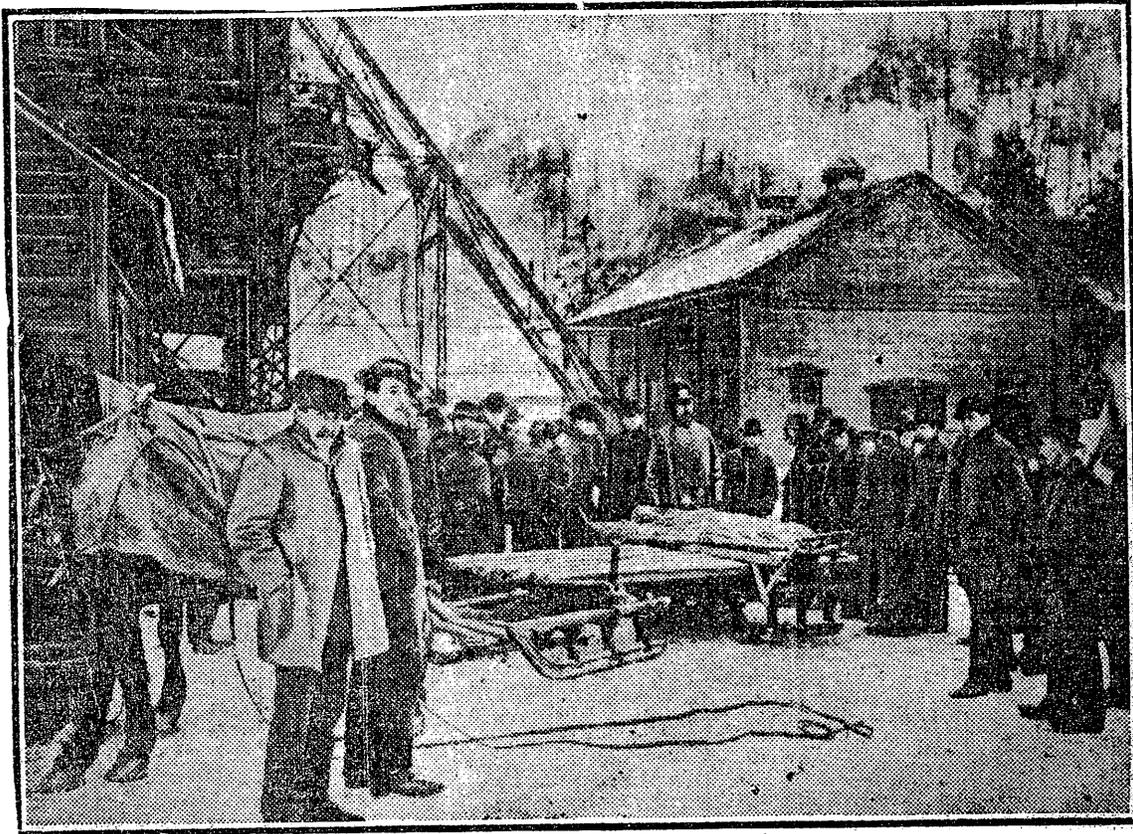
THE WRECK AROUND THE TIPPLE.

Company Office That Was Being Used as a Temporary Messing

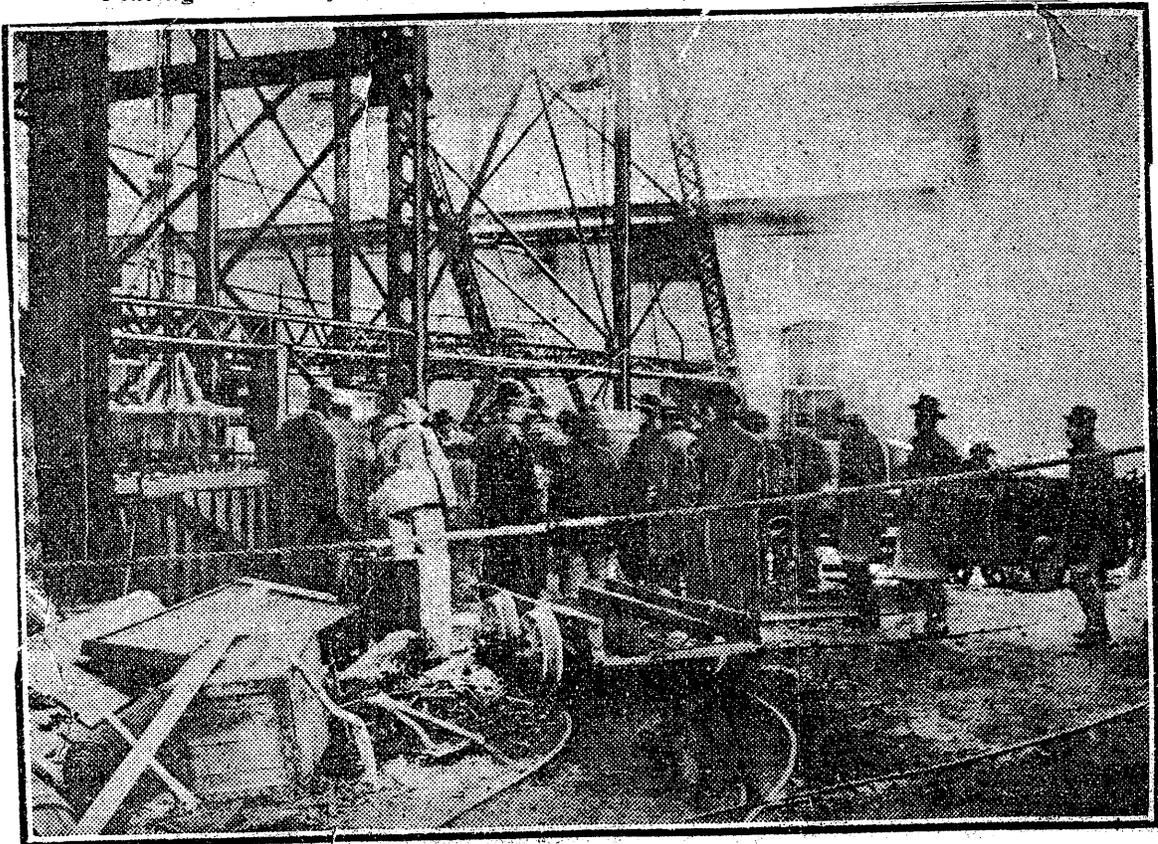
WAITING FOR NEWS FROM RESCUERS WHO ENTERED HARWICK MINE



THE TIPPLE WHERE FOUR MEN WERE INJURED WHEN THE EXPLOSION OCCURED



Placing First Body Raised From Harwick Mine on Sleigh to Go to Morgue



Rescuing Party Carrying Out First Victim of Disaster

WIVES AND CHILDREN OF THOSE KILLED IN MINE EXPLOSION



MINERS ARE BADLY NEEDED AT ONCE AT HARWICK

The Miners' Executive Board Sends Out a Call for Volunteers.

1. Joseph Gordon, 34, fire boss, wife and children.
 2. Mrs. Clara Flenner, wife of Dorner Flenner, with her children and relatives.
 3. Roxie, aged 4, and Baby Vera, aged 1, children of Dorner Flenner.
 4. Figure to right that of James Donnelly, aged 27, married only ten weeks ago. Figure to left that of Robert North, active in rescue work.
 5. Katherine, Margaret, George and Willie, children of Mine Foreman George Brown, who perished.

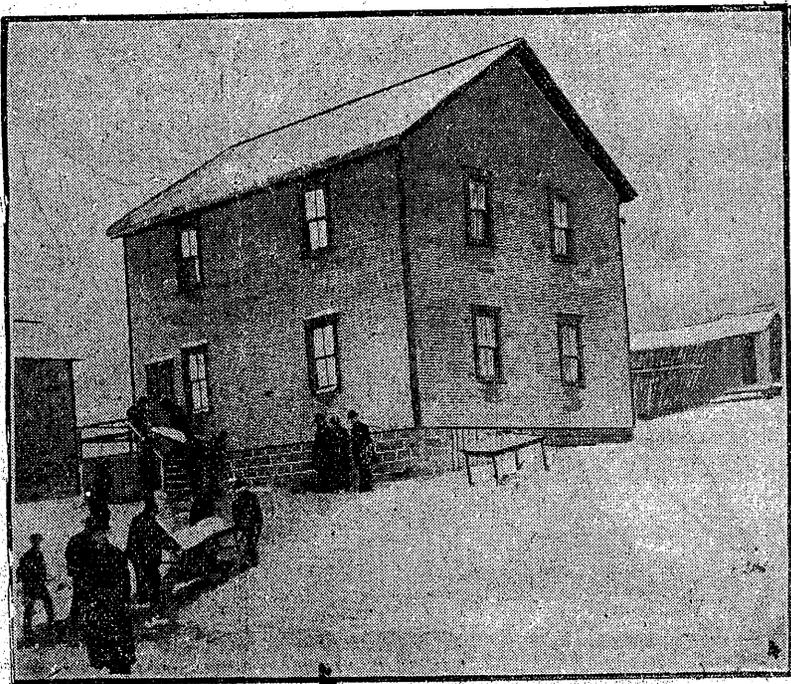


FOR ADDITIONAL NEWS OF THE HARWICK HORROR SEE PAGES 2, 3 AND 13.

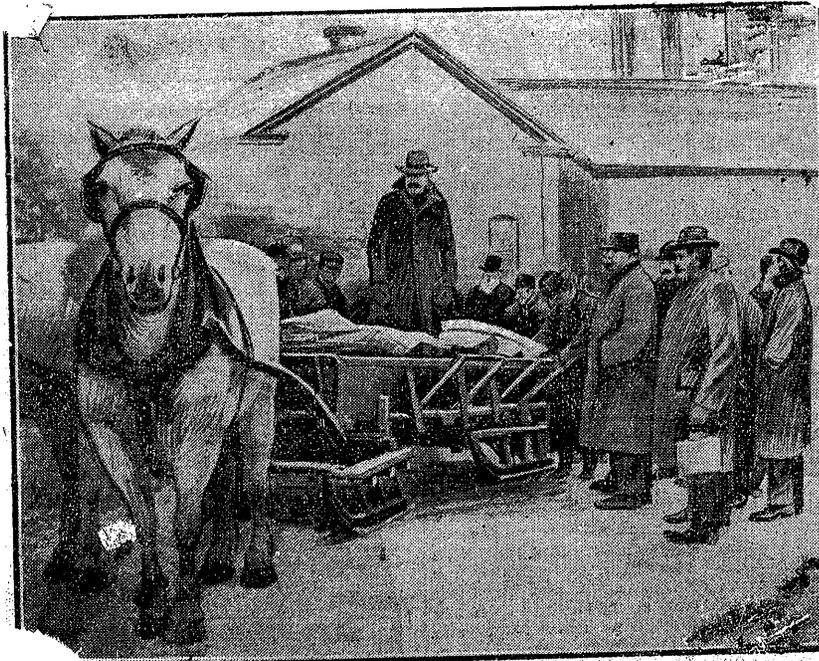


Loading coffins onto sled at Cheswick station preparatory to shipment.

The school house at Harwick where the bodies of the miners are being prepared for burial.

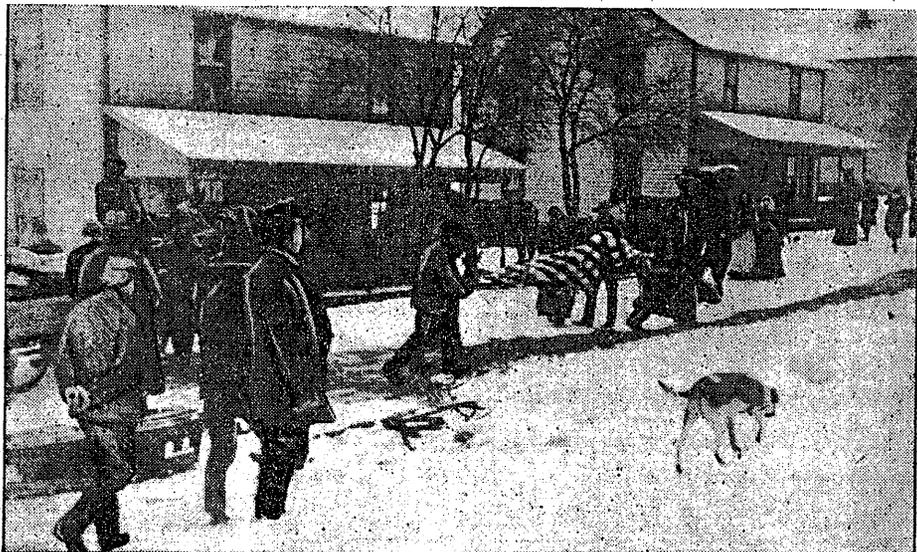


CARRYING BOXES INTO THE SCHOOLHOUSE.



CARRYING DEAD IN SLEIGHLOADS FROM THE SHAFT.

Common Scenes That Make Little Harwick a Hamlet of Deepest Woe



One More Body for the Workers in the School House.



Little Groups of Mourners Followed Each Sled to the Morgue.

Harwick 1



Harwick 2



Harwick 3



Harwick 4



Harwick 9



Harwick 10



Harwick 12

Harwick 11