

INDUSTRIAL  
AND LABORLACKAWANNA STEAM PLANT  
AT THE HAMPTON.

Lengthy Description of It in the Current Number of Mines and Minerals—Plant Is to Supply Steam for Five Collieries, a Washery and a Coal Storage Plant. The D. L. and W. Board for Today—New Gas Detector Invented by M. D. Mackie, of This City.

The current number of Mines and Minerals has a description of the new Lackawanna steam plant at the Hampton from which we will get the following:

One of the most recent and thoroughly up-to-date boiler installations in the anthracite field is the Hampton plant of the Lackawanna, Lackawanna and Western railroad. This plant, which has been recently installed and is not yet in complete working order, has been built under the general direction of Mr. E. E. Loomis, general manager of the coal department of the Lackawanna railroad. The Hampton plant is situated in the Keyser Valley in Taylor borough, just across the city line of the city of Scranton, about 2½ miles from the center of the city. Keyser valley is one of the small folds in the Lackawanna valley, and in it are located one group of coals of the D. L. & W. formation. It is to supply steam to a group of five collieries, one washery, and a Dodge storage plant that this plant is intended.

The plant contains fifteen 255 horse-power Babcock & Wilcox boilers, a total of 4,575 horse-power arranged as shown. The fuel is No. 3 washery lump coal, coal reclaimed from old dumps. This coal is dumped from railroad cars into the coal pockets running underneath the trestle the full length of the boiler house. It feeds directly by gravity from the pockets through a chute into the McClave stokers. Both forced and induced drafts are provided by blowers and fans located in the annex to the main boiler house. The gas from the boiler house is taken out and used by the railroad company for ballast, filling, etc.

The arrangement enables one man on each shift to take care of the entire plant, and there is no wear and tear on conveyor and elevator appliances. The water for the plant is stored in a reservoir built of ash concrete. The walls of the reservoir are 15 inches thick and are reinforced by old wire which are embedded in the concrete to give it stability. The capacity of the reservoir is 500,000 gallons. The water is taken from the general water system of the D. L. & W. company.

The walls of the main boiler house building and of the annex containing the fans and blowers are of brick 12 inches thick, and they are laid on concrete foundations. The roof, which is of timber covered by gravel roofing, is supported by timber beams. The roof is covered with 2½ inch planking. The floor is cement, laid with just enough slope so that the water will drain off easily when the boiler is being cleaned. All pipes are covered with the highest grade covering. The interior of the house is painted with white Portland cement, the machinery and boiler are painted black; while the exterior is painted the D. L. & W. standard red.

To properly prepare for ventilation and light the building is provided with 110 good size windows and equipped with electric lights. The boilers are of Babcock & Wilcox vertical header type. There are seven batteries of two boilers each and each battery of a single boiler. The total capacity being 4,575 horse-power. Each boiler has two steam and water drums 42 inches in diameter and 29 feet 4 inches long, and 16 sections of tubes, each section consisting of nine wrought-iron tubes 4 inches in diameter and 38 feet long. These are connected to the steam and water drum by 4-inch tubes expanded into the upper end of the boiler and into wrought-iron cross boxes on the under side of the drum. The boiler is suspended at front and rear from wrought-iron supporting columns. The boiler is provided with a safety valve, and a reduction in floor space occupied by the boiler, the length of a boiler having 18 tubes being only 30 feet 9 inches against 25 feet in the older forms of construction. Second, provision for access to the rear headers of these boilers is a great deal more convenient. The back of the boiler consists of a system of wrought-iron doors opening on hinges, carrying the headers and handholes close to inspection in daylight and the open air. In the older form of inclined header boiler it was necessary to enter a back chamber in the brickwork through a small door in order to get at these back headers.

The boiler installation at Hampton has been made with the special view to utilizing the very lowest grades of anthracite coal. Perhaps the special feature of the installation most of note, is so far as it relates to the boilers, is the very complete plan for the control of the boiler, by having a centrally located system of fans and a very elaborate system of air ducts and controlling devices for delivering this air under the grates of the boiler, and is absolutely necessary in burning low grades of anthracite fuel, which

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This young lady is looking into the baking powder question in a practical way. She will find that, using Cleveland's Baking Powder, and a Cleveland receipt book, she can make cake and rolls finer than the baker's and save half the cost.

Besides, she will be sure that they contain no alum and are absolutely pure and wholesome.

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GRAND JURY  
IN SESSION

## IT WAS CHARGED BY JUDGE E. C. NEWCOMB.

S. J. Matthews, Postmaster of Olyphant was Named as the Foreman—Constables Made Their Reports—Bridges and Roads in Bad Condition Because of the Recent Floods—Constable Clark Said No Deer Were Killed Out of Season in the Eighteenth Ward.

The grand jury met yesterday morning and was charged by Judge E. C. Newcomb, that being his first charge of that nature since he became judge. There was nothing of a sensational nature about it. He carefully outlined

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## VALUE OF TESTIMONY.

## Greater Than Assertion.

There is none of us so hardened but that when we have been able to aid our fellow creatures by conferring a benefit or bringing a little comfort into their lives we like to have appreciation shown. This generally affords more pleasure than the performance of the act itself, and in this connection the following letter from a Paris, Texas, lady is of more than usual interest:

"Dear Friends: I address you as such, for you have been such to me. I suffered for three years off and on with piles, I was treated at the hospital, and the new and elegant hospital, of Memphis; they only gave me temporary relief. I came west, thinking the change of air and water would benefit me; five months ago the bleeding piles came back on me, and bled so much that I thought I would die. I have had four of the finest doctors in this section of Texas; all they did to this finally nearly let me go to my grave; all they wanted was a big sum of money from me and to operate on me. I said no, no surgeon's knife would enter me; if it was my time to die I would die, and when I died I would die all together. I began hearing about your medicine. I had no faith in you, but I sent and got a box of your Pyramid Pile Cure; in two days the blood flow had slackened to one-half the amount, and in one week I felt so much better I walked four blocks and did a little housework. I was not bleeding any more, but three weeks I was well. God bless you for putting such a wonderful medicine within the reach of suffering men and women. I shall never cease to recommend your medicine or be without it; also I used your Pyramid Pile, Sallie A. Heardon."

Testimony like this should be more convincing than all claims and assertions, and should leave no doubt in the mind of the reader as to the merit of the remedy. Pyramid Pile Cure is sold by druggists for fifty cents a package, and will enable the sufferers to all address upon receipt of price. Write Pyramid Drug Co., Marshall, Mich., for their book on cause and cure of piles.

to is the brightest and witliest of recent years, the music is the catchiest and the most useful ever crowded into one play, and for those and for many other equally as good reasons, no one should fail to be on hand when the curtain rises on the first act of "Florodora" in this city. In New York and San Francisco they are saying that to see and hear the famous double sextet in "Tell Me, Pretty Maiden" is alone worth the price of admission.

May Howard and her burlesque company has been barred out of the Burlesque Managers' association and finding dates hard to secure, she has been barred out for good.

William H. Crane and Stuart Robson will appear together in one performance of "The Hunchback of Notre Dame" at the Lyceum theatre in New York this evening for the benefit of the Actors' Fund of America.

Grace George will continue to play in "Under Southern Skies" through the early part of next season, possibly continuing to play in an English theatre in November or early in December.

Stewart, a member of Daniel Frohman's stock company, has been engaged for the chief part of the new production of "The Pickwick" by Mr. Stewart will have the part of Jingle.

Richard Carter, the well known comedian and clown, and the whole cast in "The Pickwick" will be making his hit of the life.

Editor of The Tribune.

Sir: I have been approached by a perplexed inquirer in regard to the theory, principles and workings of pumps; but still intelligent friend has given me a very timely and correct answer. I am, therefore, giving it in print, and I guess the Scranton Tribune will not have the slightest objection to its publication. The form of construction of pumps, and the modes in which they are applied, are necessarily very numerous, yet, so far as their principles are concerned, all are clearly referable to one of four classes: the sucking pump, the forcing pump, the lifting pump and the centrifugal pump.

The sucking pump, suction or lift pump, consists of a cylinder, called the barrel, with a piston at the bottom, communicating with the water to be raised, and a pipe at the top to receive the water. The piston is connected to the barrel by a rod, and the barrel is connected to the water by a valve which opens and closes at will. The water is raised by the action of the piston, which creates a vacuum in the barrel, and the water is forced up by the pressure of the atmosphere.

The forcing pump, or the whole class of pumps, and the modes in which they are applied, are necessarily very numerous, yet, so far as their principles are concerned, all are clearly referable to one of four classes: the sucking pump, the forcing pump, the lifting pump and the centrifugal pump.

The lifting pump, or the whole class of pumps, and the modes in which they are applied, are necessarily very numerous, yet, so far as their principles are concerned, all are clearly referable to one of four classes: the sucking pump, the forcing pump, the lifting pump and the centrifugal pump.

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## THEATRICAL.

## TODAY'S ATTRACTIONS.

LYCEUM—Frank Kean as "Hon. John Grigsby." Night.

ACADEMY OF MUSIC—Chester De Vonde company. Afternoon and night.

STAR—Twentieth Century Maids. Afternoon and night.

HIGH SCHOOL—Mendelssohn quartette company. Night.

Last of the Broadway Series.

The Broadway series of entertainments given to a large patronage at the Lyceum theatre, closed last night, with readings by George Riddle and instrumental music by the Listermann trio, of New York. Like its predecessors it was a high class and gave good satisfaction.

Mr. Riddle read the Hugo drama "Laurelia Borgia." His portrayal of the almost continuously tense emotion of the various characters in this tragedy, not to say drama, was truly artistic. To students of Hugo it was a rare treat. His casual readings might have been better satisfied with something relieved by at least one laugh. However, there was no dissatisfaction, though there were hopes expressed that when he comes again he will be heard in a varied programme.

For Listermann, violinist; Franz Listermann, violinist; and Miss Ellen Berg-Parkyn, pianist, comprised the Listermann trio. They rendered solos, duos and trios and accompanied Mr. Riddle's reading. Their playing did not evoke much enthusiasm. One selection was the distinction of not receiving a single hand clap or any other demonstration of applause.

The De Vonde Company.

Few repertoire companies that come to this city are greater favorites than the Chester De Vonde stock company which last night began a new week's engagement at the Academy of Music.

The play presented last night was the four-act drama, "The World's Great Mystery," which is one of the most interesting and was last night given in an excellent manner by a company headed by Chester De Vonde.

This afternoon the company will be seen in "The Pickwick" which will be followed by "Ten Doors" which will be the attraction.

"Social Maids" Company.

The "Social Maids" Burlesque company, which has been heralded as one of the best attractions of the season, closed last night with a performance of the Star theatre yesterday afternoon and was greeted by a full house. The "Social Maids" certainly fulfilled the promise of Manager Herndon in regard to the quality of the company.

The company, which is headed by the well known actress, "Transatlantic," the chorus, which is one of the handiest and best gowned in the city, and the whole cast, including the well known comedienne, who spent last summer in Scranton; Ollie Omega and Nellie Fenton, is up-to-date in every particular.

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