

ARTIFICIAL GAS.

How It Is Being Successfully Produced at Carnegie's Beaver Falls Rod Plant.

And From That to Five Cents Per Thousand Cubic Feet From Coal Costing One Dollar a Ton.

MACHINISTS AND MOLDERS COALESCE.

As to Help One Another Out Where Difficulties Occur With Employers.

In connection with the recent discussion on the supply of natural gas, it will be interesting to notice the results obtained from the producers of artificial gas which are now in operation at the Beaver Falls plant of Carnegie, Frantz & Co.

The plant comprises eight producers, each producer being enlarged above the grade. The area of the uptake at the point where the gas enters the main is twice as large as it is where it leaves the heating chamber.

The main gas line is 60 inches by 54 inches inside measurements, and decreases in size to 48 inches square beyond the first two furnaces. Two feet by 15 feet furnaces at the extreme right—distill 160 feet from the producers are supplied by a straight main 42 inches by 38 inches.

On a basis of coal at \$1 per ton delivered at the mill, the cost of the cheapest grade of coal was reduced to 300 pounds per ton of iron.

The average consumption of coal last year was 280 pounds per ton of finished stock. About 100,000 cubic feet of gas have been obtained from one ton of coal, and each producer will use five tons of coal every 24 hours, thus producing 7,800,000 cubic feet in the time mentioned, or 326,000 feet for the entire plant in 24 hours.

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THEY ALL STROCK 12.

Directors' Day at the Teachers' Institute a Glittering Success.

GOOD TALK FROM PROFESSORS. Principals' Association of Allegheny County Organized.

CITIZENS FOR CITY WORK. IF NONE HERE, THERE ARE PLENTY SOUTH, SAYS MR. EVANS.

Yesterday's session of the Teachers' Institute has no parallel in the Institute's history, not alone Allegheny county, but of the State of Pennsylvania, according to the opinions of those who are considered authority on the subject. To quote directly from one of the interested parties, "the Professors all strock 12," which interpreted means they reached the highest point of brilliancy and eloquence in their addresses. It was directors' day and the front seats in the hall were filled by the largest representation of directors that have ever honored an Allegheny County Institute with their presence.

The morning session was brightened by one of Superintendent Caughlin's character, istic talks upon "Mistakes in Teaching," in which he presented any amount of sensible advice, garnished with sweetmeats of wit and humor.

State Superintendent Waller then made his debut to the Allegheny county teachers and directors in his official capacity, and judging from his reception and the rare eulogies which followed, he has made a successful debut. He presented his address as an education star is assured. His subject was "The Boy," a difficult one to handle, either in the abstract or in the concrete. He presented a wonderfully effective address upon the treatment and the discipline that should be accorded his oftentimes troublesome subject.

The afternoon session culminated the morning session and the action of the day. Superintendent Waller was the first speaker, and he presented a unique manner of the public school and its relation to the community. He reached a point of great heat that his own flowers bloomed in wonderful beauty and profusion, and was presented to the audience in a manner that was a great success, much to the delight of those who presented and those who received. State Superintendent Waller was the first speaker, and he presented a unique manner of the public school and its relation to the community.

Prof. Gaughlin, in "Popular Education," the first address, advanced the paying of good salaries to the teachers, and the building and furnishing of comfortable, substantial schoolhouses.

Prof. R. R. Dewar, of Millvale, was elected President. Prof. E. W. Moore, of Erie, was elected Secretary, and Eliza Keener, of Swiswille, Secretary, and Eliza Keener, of Swiswille, Treasurer.

The Journeymen Plasterers Will Not Grant the Request of the Masters. The plasterers' difficulty remains as it was last week. There are still about 50 men locked out. The journeymen declare they will not accede to the demands of the masters, and decline to work for employers not so organized.

THE LAUGH IS ON THEM. The Ormsby Switchmen Set Back With a Plan in Their Hands. Some of the switchmen at Ormsby station, on the P., V. C. got into their heads that they would not accede to the demands of the masters, and decline to work for employers not so organized.

UPRIGHT PIANO, \$175. Square Piano, \$150. Parlor Organ, \$90. An excellent 7 1/2 Octave, Upright Piano, with latest improvements, elegant cabinet, Rosewood finished case and excellent tone, fully warranted in every respect, for \$175.

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THE PITTSBURGH DISPATCH BRANCH OFFICES.

FOR THE SOUTHWEST SIDE, NO. 142 CARSON STREET. BRANCH OFFICES ALSO AS FOLLOWS: WANTED. PARTNER—IMMEDIATELY. A PA RTNER with established city business paying 20 per cent profit. Address: 142 Carson street, Pittsburgh.

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CHOICE PROPERTIES. FOR SALE AT SOUTH VIEW PLACE, BIRMINGHAM LAND IMPROVEMENT COMPANY

On the line of the Suburban Rapid Transit Electric Road, three miles south of Court House, one mile from city limits. Two natural gas lines, five block front, from city line to property. Main streets 50 feet wide. This is the best chance you will have this year to buy a site for a comfortable home where the air is pure and cool and the surroundings beautiful and picturesque, with only a cash price of the center of the city. Taxes low, prices reasonable and terms easy. One-half annual installment with interest.

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