

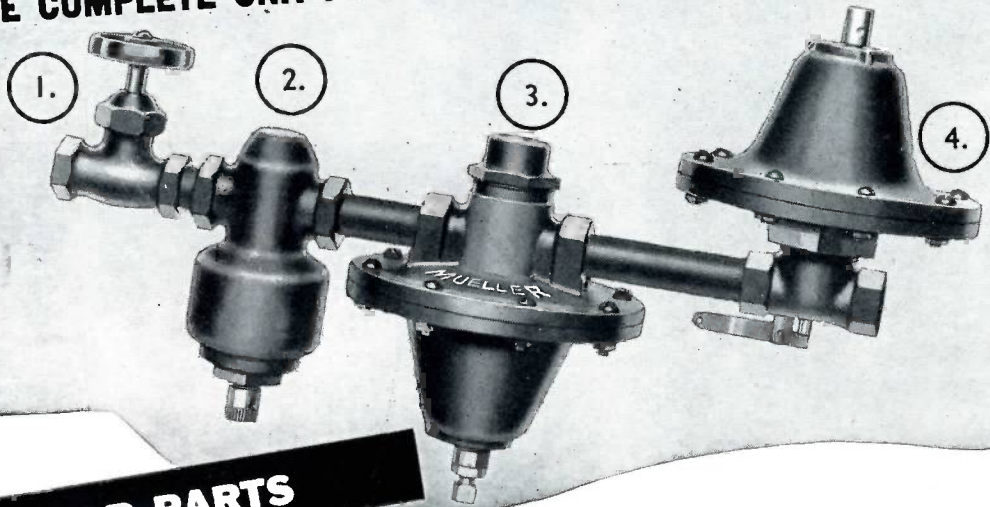
MUELLER RECORD






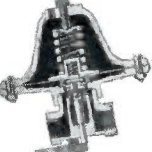
APRIL • 1951

MUELLER H-9500 SYSTEM OF HOT WATER HEAT CONTROL

ONE COMPLETE UNIT . . . PRECISELY BUILT FOR PRECISE CONTROL



MAJOR PARTS

1.  Stop and check valve of rugged construction is designed to give full flow, or positive shut off, and prevent back flow of water into the supply line.
2.  Reliable strainer with large screen area and large sediment chamber, cuts down maintenance costs, and pays for itself by protecting the entire system.
3.  Pressure-reducing valve, because of extra large diaphragm area, maintains accurate constant setting.
4.  Dependable relief valve because of extra large diaphragm is extremely sensitive, and is equipped with a test lever for testing or flushing.

The MUELLER H-9500 system of hot water heat control is your assurance of customer satisfaction. One complete unit expressly designed to give an automatic supply of water, and automatic relief of pressure year, after year, all without attention or adjustment. Long-lasting operation because all working parts are made of bronze. The extra large diaphragms are extremely sensitive and the positive valves assure absolute safety. It is more profitable for you to install the MUELLER system and give your customers dependable, trouble-free operation.



MUELLER CO.

MAIN OFFICE AND FACTORY.....DECATUR, ILLINOIS
 OTHER FACTORIES: Los Angeles, Cal.; Chattanooga, Tenn.; Sarnia, Ont. Canada

MUELLER RECORD

Published
at Decatur, Illinois, by

MUELLER CO.

MANUFACTURERS OF WATER AND GAS
DISTRIBUTION AND SERVICE PRODUCTS



MAIN FACTORY AND OFFICE
Decatur, Illinois

PACIFIC COAST FACTORY
Los Angeles, Calif.

CHATTANOOGA FACTORY
(Hydrant and Valve Division)
Chattanooga, Tenn.

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Sarnia, Ontario

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April • 1951

Vol. XXXVII

No. 4

HERMAN E. JACKSON, Editor

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Just Between Us...

WE HAVE been taking a great deal of interest in the past these days. Following the death of Mrs. Leda Cruikshank, the heirs returned to us what is probably the only known group picture of the entire family of Hieronymus Mueller. All seven of his children, which include Mrs. Cruikshank and Mrs. Mueller, are shown with him. Of course, the handlebar mustaches on the men; the tight, high-button, short lapel coats; the stilted poses all bring forth a few smiles. We marvelled at the wasp waists on the women and the many buttons on their dresses.

But what really caught our eye wasn't in the picture at all. It was behind it. We had to remove the photograph from its elaborate gold frame. Underneath the two thin boards which held in the picture, was a copy of *The Times*, a Chi-

(Continued on Page 20)

Berry To Head A.W.W.A.

Other officers-elect are Charles H. Capen of New Jersey, vice-president; and William W. Brush, treasurer



Dr. Albert E. Berry



Charles H. Capen

DR. ALBERT E. BERRY, director, Sanitary Engineering Division, Ontario Department of Health, Toronto, Ontario, Canada will succeed W. Victor Weir, president of St. Louis County Water Company of St. Louis, as president of the American Water Works Association on May 4 at the close of the association's 1951 Annual Conference in Miami, Florida.

The other officers-elect are: vice-president, Mr. Charles H. Capen, Chief Engineer, New Jersey District Water Supply Commission, Wanaque, New Jersey, and treasurer, Mr. William W. Brush, editor of *Water Works Engineering*, New York. Mr. Brush was renominated to the post. Harry E. Jordon remains as secretary of the association.

It has been a custom with the MUELLER RECORD for years to feature the newly elected officers of the A.W.W.A. in our April issue. We are happy to present them to you on these pages. It is not often that association officers find their way to Decatur. But

on one occasion Mr. Brush came to the office of Mueller Co. to discuss business in connection with the A.W.W.A. We were pleased to see him.

The new president-elect brings to his office a brilliant background in sanitation and association activities. Dr. Berry has been a member of the A.W.W.A. since 1920. Was a director of the Canadian section 1937-40; secretary-treasurer of the same since 1933; member Publication Committee; Committee on Joint Administration of Water and Sewer Facilities; Chairman Water Purification Division 1935-36; and chairman Fuller Award Society 1946-47. He was chosen for the Fuller Award in 1938.

He has been active in many other groups. Among them are: Federation of Sewage Works Association, of which he was president in 1944-45; secretary-treasurer, Canadian Institute on Sewage and Sanitation since 1933; American Public Health Association, and others.

Dr. Berry received his B.A. and M.A. degrees in Civil Engineering at Toronto



William W. Brush

University. His Ph.D. in Sanitary Engineering was granted in 1926. He became Sanitary Engineer of the Ontario Department of Health in 1919, and has been its director since 1926. He also is an Associate Professor of the School of Hygiene, University of Toronto. Dr. Berry is a Registered Professional Engineer in Ontario. During World War I he served as a lieutenant in the Royal (Imperial) Engineers.

Mr. Capen, the new vice-president, has had a long career in Association activities. He has been a member since 1930. He was chairman of the New Jersey Section in 1941, and a director 1947-50. Received the Fuller Award in 1938. He has been a member or chairman of a number of important committees that handle association work. He has also served as chairman of several key committees whose task was concerned with the water supply of New Jersey.

Regarding his professional standing, Mr. Capen received his degree in Civil Engineering from Cornell University in 1917. He designed water and sewer installations for the U. S. Navy in 1918; was Assistant Sanitary Engineer, New Jersey State Department of Health 1919-25; served as Assistant Engineer and Engineer, North Jersey District Water Supply Commission 1925-41; and from that date until now has been Chief Engineer of that department. In 1941

he served as Principal Sanitary Engineer, U. S. Army, 2nd Corps Area. Besides all these activities he has, in private practice as a consulting engineer, worked on more than fifty water and sewer projects. He holds a license as a Professional Engineer in both New York and New Jersey.

Mr. Brush has been a member of the A.W.W.A. since 1911. He began his official duties as the Assistant Treasurer in 1922. He took time out in 1928 to serve as vice-president and in 1929 as president. He was re-elected to the treasurer's post in 1930, and has held it ever since. He received the Diven Medal in 1932. His B.S., C.E., and M.S. degrees were received from New York University. Mr. Brush first entered the field as Engineer for the Brooklyn Water Department in 1894, continuing until 1907. At that time he accepted the position of Engineer for the New York Board of Water Supply, serving as Chief Engineer from 1927 to 1934. He joined *Water Works Engineering* as editor in 1934 and still holds that post today.



Harry E. Jordan

Mr. Harry E. Jordan has long been active in the work of the American Water Works Association. He was made Secretary of the association in 1936, and has served continuously since that time in that office.

The MUELLER RECORD wishes these capable men the greatest of success in their work for the coming year. The A.W.W.A. has made great strides in the past, and we are sure that it will continue to advance during these troubled times under the leadership of these fine men.

Last Child of Hieronymus Mueller Dies In Her Home

MRS. LEDA CRUIKSHANK, widow of Frank W. Cruikshank, died in her home at 9:00 a. m. on March 3, 1951. She was 81 years old.

Born in Decatur, Illinois, on March 21, 1869, Leda Mueller was the only daughter and the sixth of the seven children of Hieronymus and Fredericka Bernhardt Mueller. She had six brothers, all of whom preceded her in death. They were Henry, Phillip, Fred, Robert, Adolph, and Oscar.

On December 14, 1898 she was married to Frank W. Cruikshank, also of Decatur. Mr. Cruikshank passed away on February 27, 1934. Prior to that time the couple had traveled extensively. Since then she had made numerous trips in this country and abroad. She went on a Mediterranean cruise in 1935, to South America in 1936 and 1937, a cruise to North Cape, Russia, in 1937, and a tour of Europe in 1939. The latter was terminated by the outbreak of World War II.

Anyone who went out West William street to the 800 block was certain to be impressed by the classic beauty of the Cruikshank home. At the time it was built back in 1917, it was described as one of the finest homes in the state. The family had many parties and entertainments there for their many friends. Mrs. Cruikshank was a gracious hostess and became one of Decatur's most prominent women. She was a leader in the social circles of our city for many years.

Her father, Hieronymus Mueller, who was the founder of our company, then known as the H. Mueller Manufacturing Co., was an inventor of no mean ability. His genius and resourcefulness was a



Mrs. Leda Cruikshank

determining factor in the early success of the company which he founded in 1857. His six sons were all taken into the business and the high principles of the father were faithfully adhered to by them. Mr. Mueller passed away in 1900, and one by one death took all the sons. Mrs. Cruikshank was the last living member of the family; the only remaining link between those early years and the present day. All who knew her will regret her passing.

She is survived by a son and daughter, Phillip H. Cruikshank of Monticello, Illinois, and Mrs. Frances Moore of Ottawa, Illinois. A son, William, died in 1918 at the age of 12. Interment was in the family mausoleum in Greenwood cemetery in Decatur, where she will rest alongside her parents and her son, William.

Former Editor Passes Away

*"Sit the Comedy out, and that done,
When the Play's ended, let the
Curtain fall down."*

—Thomas Flatman

Charles N. Wagenseller, long time editor of the Mueller Record, passed away Saturday night, February 24. He had been a patient in St. Mary's hospital in Decatur for a week. He was 87 years old. Death was attributed to the infirmities of old age. He had lived a full and active life, and the old machine was just worn out.

Mr. Wagenseller was born in Pekin, Illinois, July 31, 1863. His first interest in newspaper work began when, at the age of 18 he took a job as a delivery boy for the Pekin Times. A few years



Charles N. Wagenseller

later he decided to go into business for himself. After enlisting the aid of his brother, George, the two bought out the old Decatur Bulletin. They changed its name to the Decatur News. In 1889 the brothers joined the staff of the Decatur Herald where Charles was a reporter and, later, city editor until 1906.

In November of that year Charlie, as many called him, was hired by the Mueller Co. as advertising manager and

head of the printing and stationery department. Four years later he founded the Mueller Record. He continued in these dual capacities until December 1941, when the heavy load of a much larger department was lifted from his shoulders. He then edited the Mueller Record exclusively until his retirement in 1945 at the age of 81.

He is survived by his wife, Mary M., and three sons by a former marriage. They are Paul of Houston, Texas, Dean of Baltimore, Maryland, and Kirk of Chicago. Also a brother, George R., of Decatur, now 92; and a sister, Mrs. Carrie B. Irwin, now 95, of Monrovia, California.

Wagenseller a Philosopher

Those of our readers who remember the type of Mueller Record which Mr. Wagenseller edited will recall that he was quite a philosopher. He had a grand love for life, especially in his younger years. He attended many conventions of the various water and gas associations. He usually was the designer of the various displays which featured the Mueller Co. products. He was very well known in the trade.

When we talked with Mrs. Wagenseller, we learned that the two had been married just twenty-five years. She was considerably younger than he was. Knowing that he would likely be the first to go, he tried to prepare her for it. Often he would quote Shakespeare and others. "Mamie," he would say (her real name was Mary), "when I die, I don't want you to do a lot of carrying on and shedding of tears. Just walk up to the casket, look down at me, and say, 'Goodbye, fellow, you had a good time at the party.' Remember, when I pass on keep your chin up." And she has tried to do just that.

As we look back over the 39 years Mr. Wagenseller was with the Mueller Co., we can truthfully say that he was a favorable influence upon those who worked with him and upon those who read the little magazine he wrote. He impressed all with his wholesome outlook on life. Yes, Charlie had a good time at the party.

History of The **M U E L L E R R E C O R D**

On page five we have printed a brief story about the passing of C. N. Wagenseller. But no account of his achievements would be complete without telling of the Mueller Record, for to many Mr. Wagenseller WAS the Mueller Record. He stamped our little magazine indelibly with his personality, his wit, and his philosophy. Because so many of our readers have been "subscribers" for a good many years, we feel that a little history of this publication will be of interest to most of you.

Our magazine has taken various forms over the years. In the beginning it was a sales bulletin mailed to our salesmen. The first issue was published November 1, 1910. It contained four pages and was printed on good paper. It was the intention to bring it out twice a month, but by February 1911 it had been changed to a monthly paper.

The contents were supplied by the Sales department. For the most part the articles dealt with news of our products: which ones to feature, how to sell them, price changes, news items, and so on. News of competitors, trade conditions, and official regulations were a part of it. Much of it was so confidential that only salesmen and key people in our company were allowed to receive it.

It wasn't all business, however. The first issue also contained a story of the Annual Coon Hunt. A fried chicken supper followed the hunt, and music was furnished by the Mueller Mandolin Club.

Editor a Modest Man

Mr. Wagenseller was the originator of the Mueller Record. Early issues did not carry a masthead, and so his name does not appear in them. In fact, the June 1927 number was the first one to show his name as editor. Seventeen years was a long time to be modest about who was writing the paper. But one could tell after reading a few issues. Within the first year the new editor began inserting jokes, poems, and bits of philosophy gleaned from many pieces of literature. In time, these little paragraphs became the unmistakable charac-

teristic of Mr. Wagenseller's writing.

No one knows when the company began giving the magazine to the Mueller employees. But as time went on more and more news about the folk who worked for us appeared. Early in 1926 the Mueller Record was apparently sent to our customers four times a year. For these, special covers in color appeared on the spring, summer, fall, and Christmas issues. These contained material of interest to our trade. The two issues between the special numbers were still devoted to the employees' interests. By December 1926 a decision was made to publish the external edition to our trade every other month, alternating with the internal edition to our workers. At one time each external issue contained forty-four pages.

A Little Face-Lifting Done

The external appearance has undergone a few changes, too. In those lush years preceding the depression four-color covers were used. But the Record adopted plain covers in black only after the crash. Around 1935 two-color ads made their appearance on all covers but the front one. In July 1940 a new two-color cover in red and black was adopted. This design was retained until Mr. Wagenseller retired in 1945. At that time the Mueller Record was discontinued because of the paper shortage. It was revived under new dress again when Mr. Kuhn became the editor in 1947.

All through the thirty-five years that Mr. Wagenseller was editor, there ran through every issue the thread of his philosophy of life. Epigrams, quotations from Shakespeare, the Bible, and elsewhere appeared regularly. Stories of everything from presidents to women's dresses made from feed sacks filled its pages. A constant variety of material that made it a veritable encyclopedia. The masthead always carried the subtitle "A Little Magazine of General Interest". It was just that. It made many friends for our company with its plain, unaffected presentation of both the serious and humorous sides of life.

The Mueller Record

Vol. IV MAY 27, 1914 No. 13

LEAD FLANGE WORK Some Facts About the New Method of Manufacture and Advantages of the Good.

Reference to Bulletin No. 12, Section D, published in the Mueller Record, Vol. IV, No. 12, will show that the new method of manufacturing lead flange work, which has been described in the following letter addressed to Mr. D. B. Warren and others:

Process of Manufacture.
The Bulletin to which you refer was issued for the primary purpose of illustrating the new process and other improved methods of manufacturing lead flange work in the absence of such drawings, regular equipment and operation methods. At the date of issuance of this Bulletin, the Company decided that all lead flange work, whether the bearing portion was produced through the method known as "Applied Lead," or a matter of general practice, should be made in the same manner. We are therefore making all lead flange work in our system from around the flange before making contact in the furnace.

We have, also, been necessary to improve the lead flange end of all goods, where it has been practical to handle, in order to meet the demands of the market, but with the addition of this small improvement we have found that the lead operation has been made by reducing and as a result producing more uniform and more practically finished work. Again we wish to advise this knowledge is preferred, in its done up as an increase of cost and above the old way, in that the handling and operation, dependent on the hand work, whereas, formerly the sorting and labeling was done with the same tool.

We are writing you this about points in order to advise that while we have improved the quality of our goods, we have not improved our cost, but as we do not intend to meet the cheapest competition, we feel that we should give the best quality material and workmanship possible. The new style lead flange work is the first of general study and much improvement and has proved its merit by standing the severest of tests. The handling operation, as planned by the experienced department and some being improved, is done by the use of "Process B," which is a method of holding in an operation which attacks the metal first at the outer or greater circumference and then inwardly until it will hold the corners of the flange, bringing the finished metal above the surface.

Advantages of the New Style Lead Flange Work.

This process in itself offers its first advantage an improvement over the old style work, in that in making the joint the flange metal necessarily made last time the flange portion of the lead pipe and makes the friction greater between the flange end of the pipe and the bearing metal, thus creating rather than the old lead pipe where the bearing metal which was such to all your attention to secure advantages. In fact, the bearing portion, in this case, the inside is lead, favorable to both the inside and lead, whereas in the old style work, the joint was a lead flange joint, which is a joint which has been made both with the lead pipe and the lead flange, and the bearing metal, in some cases, has been found to be such that it has been found by actual use that the bearing metal is not so good as the lead flange and does not become unseparated. We have known and also become unseparated. We have actually tested the lead pipe around your revolutions and get the joints unseparated.

The MUELLER RECORD

APRIL, 1914

*LOYALTY to your city,
to your home and to your
job costs you nothing and
pays a big profit.*

Mueller Record
March 31, 1913

American
Water Works
Association
Number
(Illinois Section)

H. MUELLER MFG. CO.

MUELLER RECORD

PREPARED BY H. MUELLER, CHICAGO

SCENIC VIEW OF THE ROCKS

MAY, 1914

MUELLER RECORD

SEBASTIAN STUMPER

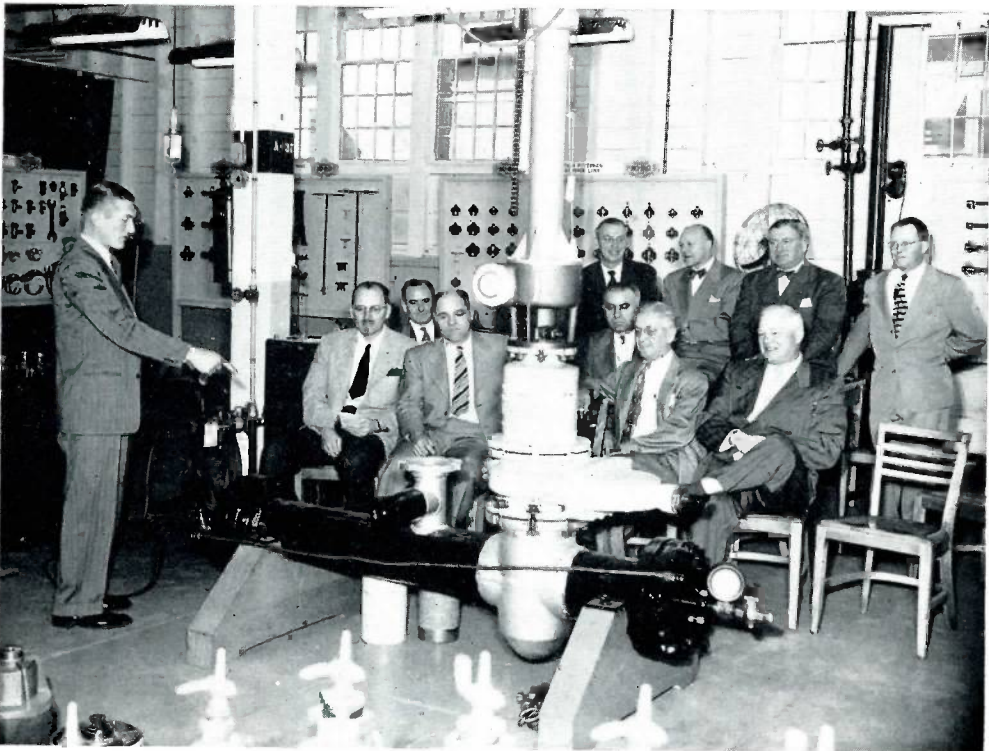
MAY 31

Michigan Gas Men Visit Factory

Recently the Mueller Co. has been host to a number of gas men — executives, engineers, and others. We have invited them to spend a day with us to discuss many problems arising from the use of natural gas under high pressures. The training offered might be called a gas "short course"—a term made famous by Purdue University. Its purpose is purely educational, and is offered as another service to the gas industry. The aim of these informal sessions is to acquaint the men in the gas industry with the latest methods and equipment being used for the safe handling of gas under pressure.

In the picture below is a group of key men from the Consumers Power Com-

pany of Jackson, Michigan. They were visitors to our plant on March 8. The men, as may be seen, are in our new Engineering Conference Room. Here are assembled all the latest machines and equipment. At the moment they are taking part in a discussion of stopping off processes in a large main under high pressure. Most of the demonstration units shown are so arranged that they may be pressurized. Then the equipment may actually be operated under regular working conditions. We feel that these sessions are very worth while. All the men who have taken part in them tell us that they have gotten a great deal from the discussions. They have considered it time well spent.



Shown above are: Standing at left, Robert K. Levey; seated, left to right, M. E. Malone, W. T. Bather, W. C. Boman, and G. C. Shumway. Second row, G. E. Gardner and J. J. Coon. Standing, M. C. Jeffrey, F. H. Bunnell, Emil Reed, and W. R. Augustine.

Is Water Divining Hocus-Pocus?

A few observations on the ancient art that is still being used by many people.

"My people ask counsel at their stocks, and their staff declareth unto them."

Hosea 4:12

There probably never will be a real answer to the question of the authenticity of the divining rod method of locating water. There are many staunch supporters of the accuracy of such a method in skilled hands. There are scientists who scoff at the idea, yet cannot explain how it is that water is found by "water-dowzers", as they are sometimes called.

This business has been going on for years. It has been practiced by the Babylonians, by the Israelites (see Bible quotation above), by Greeks and Romans, by fourth century Alans, by mediaeval Europeans, by Zulus and Maoris, and by modern Europeans and Americans. And it may continue for years. And so will the arguments.

The method of locating water is rather simple. The operator or water-dowser procures a forked stick from a hazel tree. This looks like a letter Y and may be from 12 to 18 inches in overall length. The diviner holds the forked ends, one in each fist. His fingers are uppermost, and the main stem points horizontally away from the body. The operator walks over the ground where water is desired. When the fork is directly over a hidden spring or course of water the operator is presumed to experience a sensation. This may be a sudden quickening of the pulse, or a strong sensation of heat or cold, or a strong tremor which communicates itself to the rod. The outer end of the branch will dip sharply and point directly to the spot.

It Need Not Be Hazel

It is interesting to note that nearly all people agree that hazel wood is best for the purpose. Yet when hazel was not available, willow, apple, peach, hawthorn, and even fig has been used successfully. Metal rods have been used and water located with them. So the type of

wood used must not hold the secret of the successful water-diviner. It is known that the fibers and tissues of hazel have little structural difference from other woods. Chemists have not found anything that would make this wood more attractive to water.

It would seem that the real success of any water locating efforts hinge on the operator of the twig. Numerous cases are on record where one person could get no results with the hazel rod. Yet another person, using the same rod, would successfully locate water in a spot previously covered by the first operator. It would appear that the water-dowser must have a knack for this sort of thing. Many may not realize that they have this power. Some of our readers may have tried working a ouija board. If any of you have, you soon learned that some people have no success with it. No matter how hard they try, the "table" will not move around the board. But as soon as one who has this apparently psychic gift sits down to the board, the table will quickly



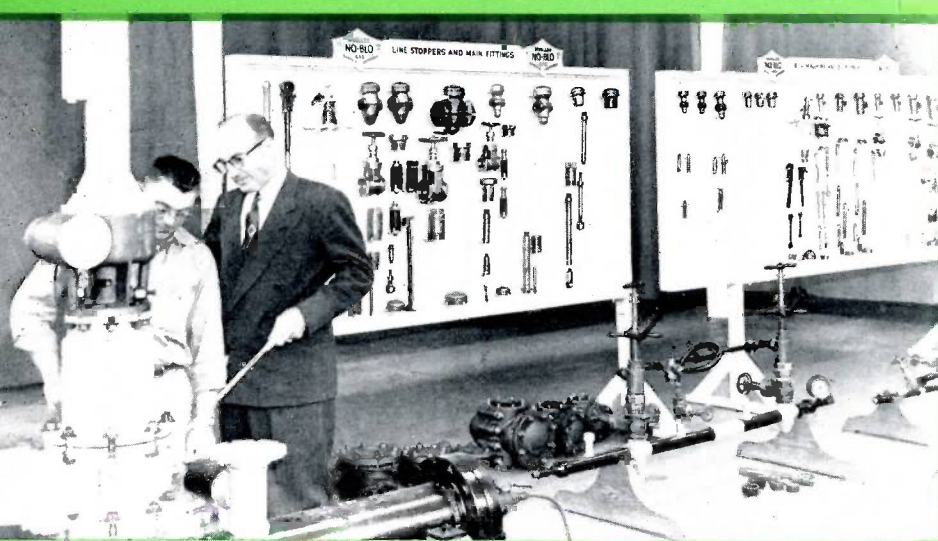
spell out messages. It may seem fantastic, but something akin to this same ability seems to rest in the successful water-diviner.

Rather elaborate tests have been made to prove that there is nothing to this method of locating water. In one such experiment a man went out to a certain

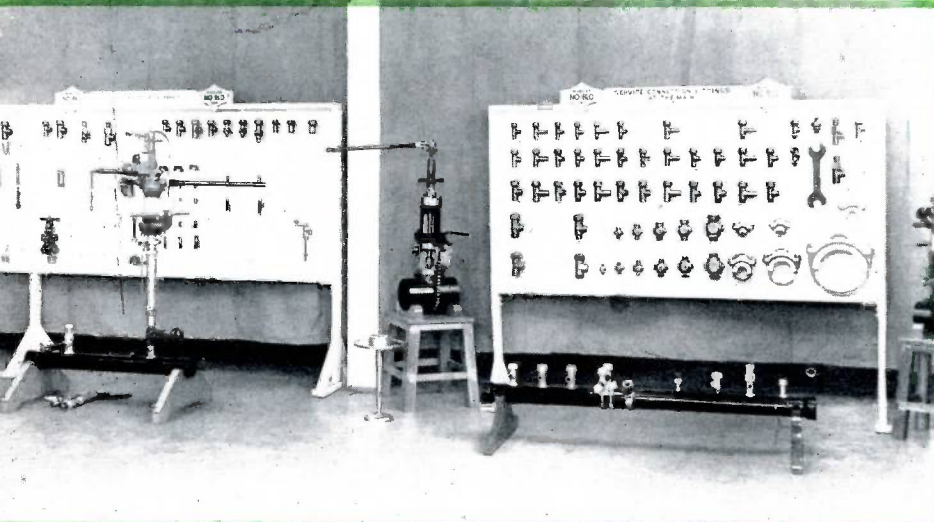
(Continued on page 13)

... Mueller Co. Invites

TO A COMPREHENSIVE FOR



Line stopper and service to main equipment demonstration.



Service to main equipment and fittings for use on distribution and transmission lines.

Due to the many the introduction and higher pressures, new ing these problems l

In order to acqu the new methods and the safe handling o Mueller Co. has creat ference Room at the Illinois. At this locat equipment and are p and discuss modern g which it is believed dustry.

You and the key tion are invited to sp in Decatur, during w explain and demonstr

1. Main Work

Stopping off an mains; tying in later using old main for new main, etc.

2. Service Work

Making welded se vice to main connect making up all-welded ical joint, and combin construction at the c meter, etc.

In addition, discu many other pertin service construction. available for the solv problems on an indi find your time well s show and explain.

Arrangements for made by writing to Illinois, or through y tative.

This is not to be promotional activity, Mueller program to ac with modern gas com equipment.

MUELLER CO., DECATUR, ILLINOIS . .

You

DEMONSTRATION OF EQUIPMENT AND METHODS THE SAFE HANDLING OF GAS UNDER PRESSURE

problems presented by
use of natural gas at
safe methods of solv-
ve been developed.
t the gas industry with
equipment available for
gas under pressure,
and an Engineering Con-
tain factory in Decatur,
on we have assembled
pared to demonstrate
s construction methods
will greatly aid the in-

men in your organiza-
and a day with us here
each time we will gladly
te to you the following:

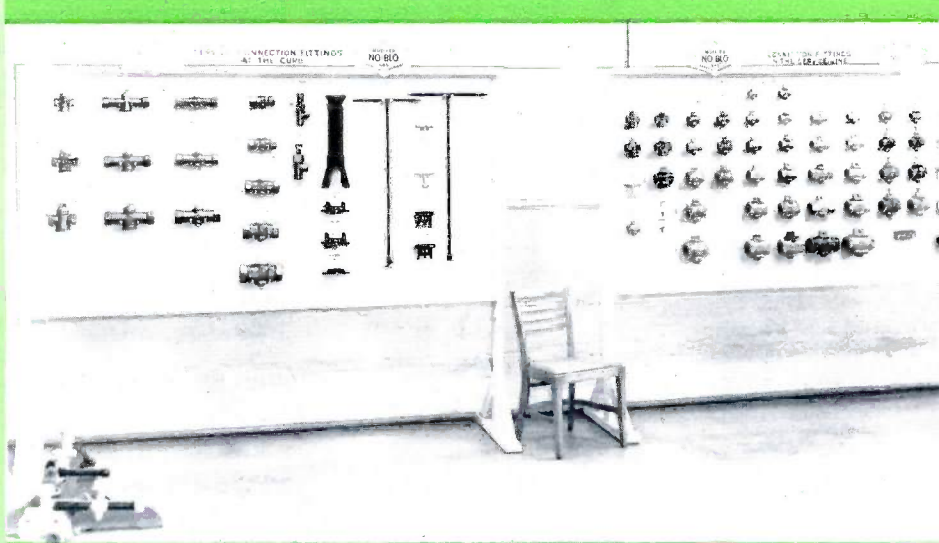
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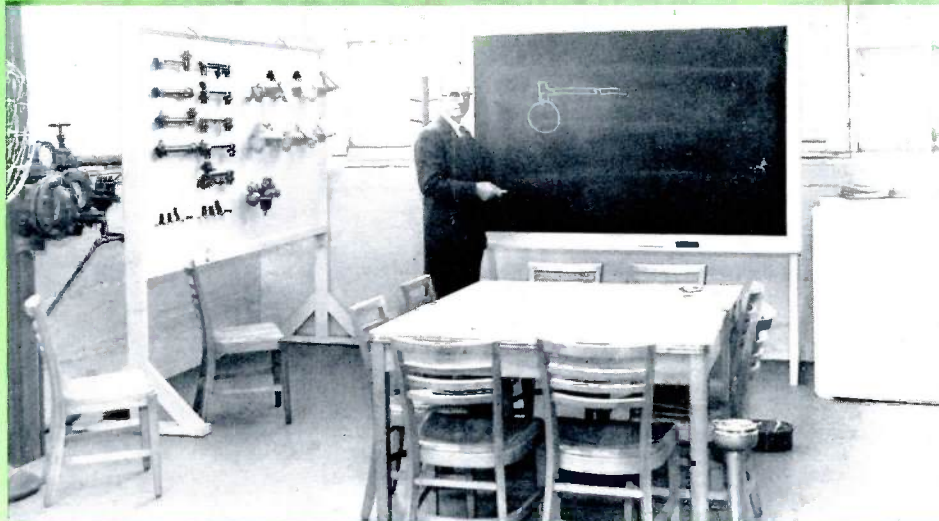
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Our technical staff is
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your attending may be
Mueller Co., Decatur,
our Mueller represen-

interpreted as a sales
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quaint the gas industry
struction methods and



Curb connections and service line fittings are shown here.

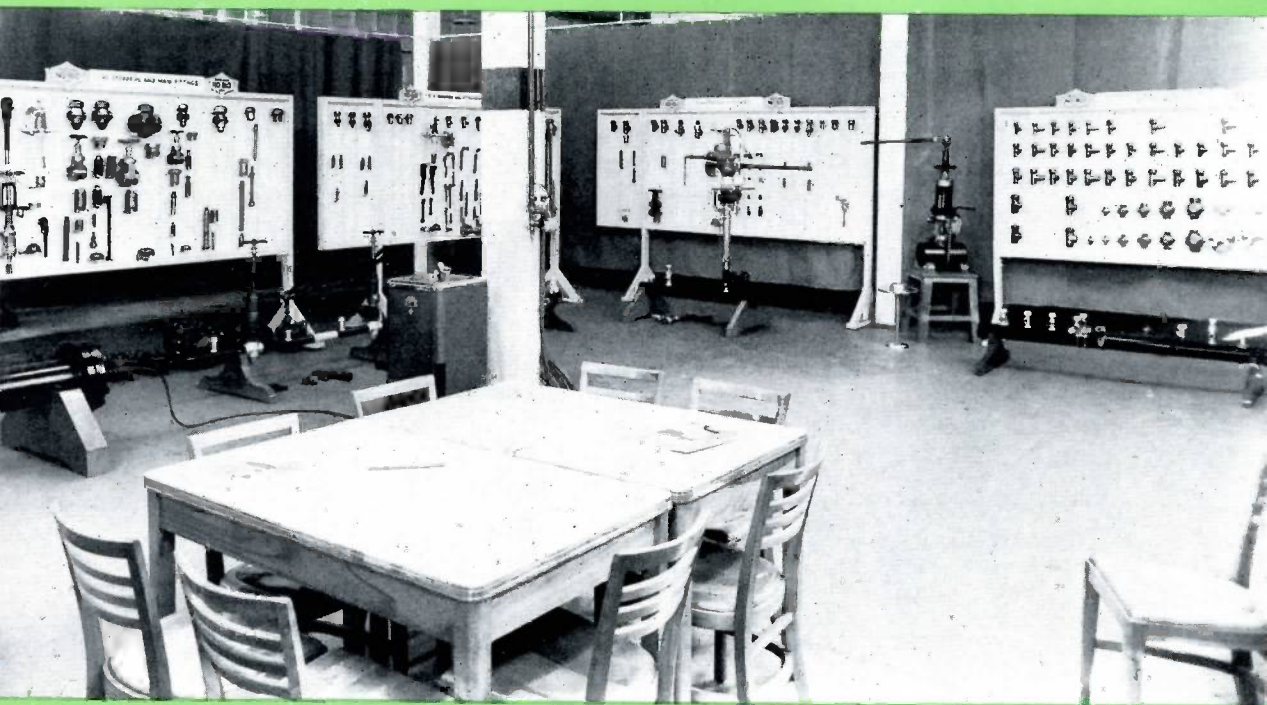


Regulator and meter settings. Discussion center.

. . . DEPENDABLE SINCE 1857

THE PURPOSE of these conferences

We have but one aim in presenting these conferences,—to render further service to key men in the gas industry. We offer this educational opportunity as one means of putting you in contact with the latest developments in distribution and transmission line work. We do it through a compact program and informative demonstrations conducted in our Engineering Conference Room. To arrange a date for your men, write our main office in Decatur, or contact your Mueller representative.



One view of our demonstration and engineering conference headquarters.

Water Divining

(Continued from page 9)

field and located water. All traces of his presence were removed and another operator was taken into the field. The second man located the exact spot where the first had said that there would be water. Drillers went to work and found water at the spot and depth both diviners had said there would be water. In another test the dowsers were blindfolded, yet they successfully found water.

Churchill Tries It

There is a story going the rounds about Winston Churchill, England's prime minister, who once had a water-dowser visit his estate. When the operator located the water the twig bent sharply. Churchill suggested that he be given a try at it. So after being shown how to hold the hazel wand, he tried repeatedly without success. The dowser then suggested that they try together. So he placed his hands over those of Churchill, and the fork promptly pointed out the water.

The U. S. Geological survey in one of its papers on "Underground Waters", issued in 1912, made the statement that "no appliance, either mechanical or electric, has yet been devised that will detect water in places where plain common sense and close observation will not show it just as well." In contrast to this warning the Royal Engineers of Britain during the last war enlisted the aid of water-diviners as a regular practice in the army. The percentage of success of these operators was just as high as that of the geologists and surveyors who sought water by scientific means.

Your editor witnessed a successful test back in 1920. This was performed in Greenfield, Indiana, in the shops of the Terre Haute, Indianapolis, and Eastern Traction Company. The shops were located at the edge of the city and were on the end of the water main. For this reason the water pipes in the shops were

usually filled with air under considerable pressure. When anyone attempted to use the drinking fountain water would squirt twenty feet high. This frequently happened while he was drinking. The drinker usually got his nose and face flooded with water.

Actually Find Water

The master mechanic decided that a well should be drilled to get drinking water. One employee, hearing of this, volunteered to locate it with a divining rod. So a forked peach stick was secured, and an attempt made to locate water outside the building. No water could be found. Someone suggested going inside so that the well would be under cover in the winter. This was done and the operator discovered water one foot from the wall and near a door. Pipes were sunk to a depth of eighteen feet, but no water was found. The diviner insisted that there was water there. He brought his fork back the next day and repeated the test. He was again sure that there was water at that spot. The master mechanic then had the pipes removed and the well redrilled just one foot south of the old hole. Good, clear water was found at that spot and at approximately the same depth as the former well.

No doubt many of our readers could write us of similar stories. Certainly such tales offer proof that the water-diviner's art is a fact, even if it cannot be explained scientifically. And it is also evident that because of the occult nature of the operation that not everyone is gifted with this ability. Then, too, there is the thought that perhaps the operator, having a lot of experience in the outdoors, had observed a lot of springs and damp places over the years. Acquiring in this fashion a smattering of geology or topography, he might unconsciously select a place where there was water. In fact, he might successfully locate water without a hazel rod at all, should it occur to him to try it.

JET PLANE ATTACKS HYDRANT

Every water works superintendent and fire chief is well aware of the havoc that an automobile or truck creates when out of control. Many fire hydrants have been on the receiving end of accidents caused by skidding cars, collisions, and erratic drivers. Hydrants are broken off, uprooted, and put out of commission. But we never heard of one being attacked by an airplane.

In Aurora, Colorado, just that very thing happened. Two F-80 jet planes had left Lowry Field, climbed to about 1,000 feet, and headed toward Colfax avenue. Something went wrong with one plane and it went into a glide. About the 1300 block it lost altitude fast. First, it clipped off the tops of trees, next it knocked down a telephone pole, then

struck a Mueller hydrant, hit the ground, and crashed into the home of Earl Horrell of 1600 Macon street. Here it exploded and set the house on fire. No one was home at the time. The pilot was killed instantly.

The heat from the wreckage was intense. A neighbor in his garden had his shirt set on fire, and a little girl across the street was severely burned. The flames leaped up to the height of a five-story building. A car parked across the street and neighboring houses were severely damaged. It took local and air base firemen nearly an hour to extinguish the flames.

Hydrant Saves Water Supply

But let's get back to the fire hydrant. Far sighted officials, seeing the superior features in the Mueller Improved Hydrants, specified these for the protection of Aurora. There was one near the Horrell home, but the plane as it plummeted to earth struck the barrel a smashing blow. The safety flange snapped in

Liverlip and Leo



"I've got to run downtown. You can finish digging this, tap the main, run the new service, repaint the hydrant, and backfill the trench. And — try to look busy while I'm gone!"

pieces and the safety thimble parted. The upper barrel was bowled over, undamaged, but not a drop of water was lost.

There was a delay as firemen went back to the next hydrant down the street to run a hose. This was only a matter of a few minutes. But that inconvenience was trivial compared to what might have happened had a conventional fire hydrant been involved. Then, a veritable geyser of water would have shot high into the air. Hundreds of gallons water—so precious at a time like that—would have been wasted. In a short time the water pressure in the main would have been sapped to the point where sufficient water volume to stop this blazing inferno could not have been pumped from the next fire hydrant down the line.

Jerome S. Grutzer, Aurora Water Superintendent, is a real Mueller booster after this incident. He stated that this was the first time that any Mueller hydrant had ever been changed in Aurora. None of his maintenance crew had had any experience at this sort of thing. But they set to work right after the fire, and with a safety flange repair kit on hand, the hydrant was back in service—good as new—in forty minutes.

It would seem that if this hydrant could stand the terrific impact of a roaring jet plane without loss of water, that a traffic collision would be tame stuff.

THOUGHT OF THE MONTH



Be nice to everyone on your way up
for you may meet them again on your
way down.

THE PUZZLE BOX

Here is a scalp-stretcher for you that does not require any mathematics. Below is a line taken from the poem "Elegy In A Country Churchyard" by Thomas Gray.

**"The ploughman homeward plods
his weary way."**

See how many different ways you can rearrange the words in the above sentence and still have them make sense. All seven words must be used each time. You may be surprised at how many ways there are! The answer will appear in the June issue.

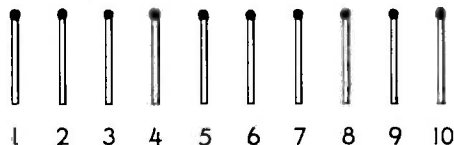
* * *

A Penny Trick

Try this little trick at your next party, or down at the office. Fill an ordinary drinking glass with water. The thicker the glass is, the better the trick. Be sure the rim is very dry. Have the water just level with the top of the glass. A medicine dropper is a big help in doing this. Now see who can drop the greatest number of pennies into the glass before the water runs over. If you have gambling instincts, you might wager some one on how many you can drop in. Better try this first if you don't want to lose your bet. The trick is to hold the penny close to the water and carefully drop in edgewise. We can't give you any answer as it all depends upon the size of the glass you use. Your editor has put as many as 78 pennies into one glass.

Answer to February Puzzle

We have heard from several fans who were bothered with the ten-match puzzle. Here is the answer.



Start with No. 5 and jump over to No. 2. Then No. 7 to No. 10, No. 3 to No. 8, No. 9 to No. 6, and No. 1 to No. 4.

Send in your favorite puzzles with their solutions to the editor.

R. B. Simms Honored By Kiwanis Club

In our December issue we ran a feature story on Mr. R. B. Simms of Spartanburg, South Carolina. The city had seen fit to honor this outstanding water works man by naming the newly enlarged water purification plant "The R. B. Simms Filtration Plant." This was done as a tribute to his thirty years of service to the city. As superintendent of a constantly growing water system Mr. Simms had achieved remarkable cooperation from his Board of Commissioners, and had earned the complete confidence of the citizens of this progressive community.

We have just received word that he was again selected for another signal honor. The Spartanburg Kiwanis Club named Mr. Simms "Spartanburg's Citizen of the Year." At a special dinner which was attended by some 300 members and guests, "Bob" Simms was presented with a citation scroll. The citation pointed out that the award covered not just one year, but thirty years of accumulated service to his community. To quote, Mr. Simms "has so impressed us with confidence, love, and admiration as to endear himself to every citizen of the city and county of Spartanburg."

This was the cap stone to a series of achievements. Last fall the South-eastern Section of the American Water Works Association voted him the George A. Fuller Award for 1950 for outstanding achievement in the field of water supply and public relations. Mr. Simms has done a remarkable piece of work, and more than deserves this honor bestowed upon him by fellow Kiwanians. We of the Mueller Record wish to add our sincerest congratulations to the newest "Citizen of the Year."

Gettysburg Address, Revised

One-score and sixteen years ago our fathers brought forth upon this nation a new tax, conceived in desparation that all men are fair game.

Now we are engaged in a great mass of calculations testing whether that taxpayer, or any taxpayer so confused and so impoverished, can long endure. We are met on Form 1040. We have come to dedicate a large portion of our income to a final resting place with those men who here spend their lives that they may spend our money.

It is altogether in anguish and torture that we do this. But in the legal sense we can not evade—we can not cheat—we can not underestimate this tax. The collectors, clever and persistent, who computed here, have gone beyond our power to add or subtract.

Our creditors will little note nor long remember what we pay here, but the Bureau of Internal Revenue can never forget what we report here.

It is for us taxpayers rather to be devoted here to the Tax Return which the government has thus far so nobly spent.

It is rather for us to be dedicated to the great task remaining before us—that from these vanished dollars we take increased devotion to the few remaining; that we here highly resolve that next year will not find us in a higher income tax bracket; that this taxpayer, underpaid, shall figure out more deductions; and that taxation of the people by the government, shall not cause solvency to perish.

—Author unknown.

■ ■ ■

YOU ARE ENDOWED with certain unalienable rights, but if you don't everlastingly stick up for them, somebody will come along and unendow you.

—*Cincinnati Enquirer*.

Spring Song

Sing a song of sweet corn,
A garden full of chard,
Four and twenty eggplants
Growing in the yard.

When the crops are gathered
The folks can have some lunch;
Isn't succotash a dish
To set before the bunch?

Father's tending beets and chives,
Saving us some money;
Mother's out among the hives
Taking off the honey;

The kids are in the garden
Pulling out the weeds.
Don't we get a lot of food
From half a peck of seeds?

■ ■ ■

Why Not Laugh

"The wisest men the world e'er knew
Have never deemed it treason
To rest a bit — and jest a bit
And balance off their reason;
To laugh a bit — and chaff a bit
And joke a bit in season."

■ ■ ■

Our Geography Class

Professor John Wachter: "The geography class will come to order."

The pupils put away their books and sat erect in their seats. The professor, by the way, after school hours is president of Wachter, Hoskins & Russell, Inc., Water and Gas Supplies, Baltimore, Maryland.

Professor: "Where is Fredericksburg located? Herman you may answer."

Little Herman (meekly, and with red face): "In Virginia."

Professor: "That's better. In your last composition about Mr. Vass you said it was in Maryland."

(P.S. Several people caught our error in the last issue. It proves one thing; at least SOME people READ the Mueller Record!)

NUTSHELL NOVELS

BY SKIPPER



His Masterpiece

Rubinovv Chiselinski, the great Russian sculpturist, had just completed his masterpiece,—a beautiful statue hewn out of Peruvian marble. It was a statue of a Russian boy and girl in graceful attitude, and bore the boring title, "LOVE".

For five long years he had spent twelve hours a day on this one statue. During the last month he had spent twenty-four or five hours a day in an effort to complete it on his birthday. This he did. One week later a man came in.

"Is your statue for sale?" he asked.

"Yes," replied Chiselinski. "It is the ambition of my life come true to make this marble. But I'll sell it for fifteen thousand dollars." (He hadn't lost ALL his marbles!)

"It is indeed worth it," said the man, "for I see that it is made of Peruvian marble, than which there is none finer in all the world. And as I was told this is the only piece of Peruvian marble in America with no possibility of getting more, I wish to purchase it." So saying, he handed over the check for the full amount.

"It is a great work. I am sure it will beautify your home," said the sculpturist.

"Yes, I am certain that it will," answered the buyer. "You see, I am going to have it cut up into slabs, and have a tombstone made out of it to set up behind the garage over the grave of our pet dog, Fifi."

Rubinovv Chiselinski, swooning, fell so hard upon the floor that he knocked over another statue. This fell upon him, crushing him just as flat as his spirit had been crushed.

Off the .. Record ..

City-bred Susie (out in the country):
"Oh, Mama! Look at this cute little
green snake I found."

Mama (city-bred, too): "Put it down
right away! It might be just as danger-
ous as a ripe one!"

Ode To Spring

Though Summer's not due,
The weather is mild;
The leaves are already on trees.
So I took off my "heavies"
(Pray don't think me wild)
And put on my thin B.V.D.'s.

The real measure of our worth is how
much we would be worth if we lost all
our money.

Daffynitions

Wolf: A person who knows all the
ankles.

"Are you a clock-watcher?"

"No, I don't like inside work. I'm a
whistle-listener."



Mueller Minstrel Show

Mr. Bones: "Say, Mr. Interlocutor, I
sure ate in a dirty restaurant last night.
I ordered pancakes and honey. When
the waiter brought me that little pitcher
of honey there was a lo-o-ng, brown
hair in it!"

Interlocutor: "What did the waiter
say to that?"

Mr. Bones: "He just grinned and said,
'Must have come off the comb.' Hyak!
Hyak!! Hyak!!!"

The phone rang and the Salvation
Army worker picked up the receiver.

"Is this the Salvation Army?" a voice
asked.

"Yes," the worker replied.

"Is this where you save fallen wom-
en?"

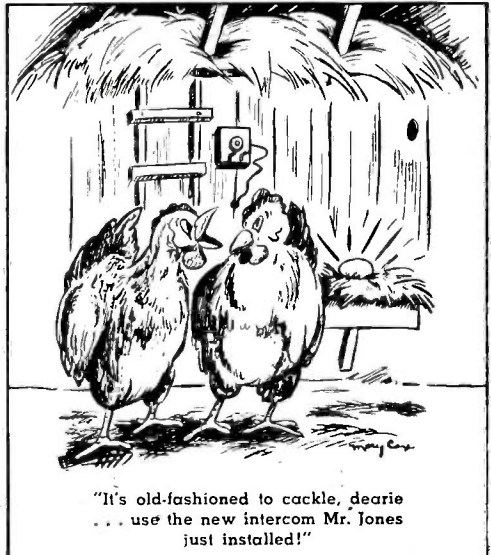
"Yes."

"Well, how about saving me a couple
for Saturday night?"

She wed him for life, and later dis-
covered he didn't have any.

Papa Gnu came home and Mama Gnu
looked at him shyly and said, "I've got
Gnus for you."

Sailor, ashore, to pretty girl: "I'm a
stranger here. Can you direct me to
your house?"





"Here comes that customer who's buying his suit on the installment plan!"



"He just made his first sale!"

Famous Lines

Fish——. Coast——. Dead——.
 —— of least resistance. Dotted——,
 Waist——! Mason-Dixon——
 Betty Grable.

Little boy watching milkman's horse:
 "Mister, I'll bet you ain't going to get
 home with your wagon."

Milkman: "Why not?"

Little Boy: "'Cause your horse just
 lost all his gasoline."

Toastmaster: "Gentleman, a toast to
 the ladies! Hip-Hip-Hooray!!"

Some people have a veneer that comes
 off with a little alcohol.

She: "So you want to kiss me. I didn't
 know you were that kind."

He: "Baby, I'm even kinder than that."

Landlady (a bit severely): "I thought
 I saw you taking a gentleman up to
 your apartment last night, Miss Clark."

Miss Clark: "Uh-huh. That's what I
 thought, too."

Bob: "I was so cold last night that
 I couldn't sleep. I just lay there and
 shivered."

Tom: "Did your teeth chatter?"

Bob: "I don't know—we don't sleep
 together."

Famous Last Words

"Let's turn out the bed lamp and go
 to sleep."

A doctor was visiting a mental institu-
 tion. While walking around the grounds,
 he noticed an inmate perched on the
 branch of a tree.

"Who are you?" the doctor asked.

"Tweet, tweet," the inmate chirped.

"One beautiful spring evening my father
 and mother went for a lark, and I'm
 the lark. Tweet, tweet."

Credit Clerk: "What is your husband's
 name?"

Mrs. Smith: "Joe."

Clerk: "I mean his full name."

Mrs. Smith: "Well, when he's full he
 thinks he is General Eisenhower."

Finally the shooting died down and
 as the smoke cleared away a lone Chinese
 walked out of the underbrush, his hands
 over his head. The tough Marine prompt-
 ly took him prisoner and brought him
 to the interpreter.

"Why did you surrender?" asked the
 interpreter.

"My commanding officer told us to
 fight to the last man," replied the pris-
 oner.

"And then what?" he was asked.

A look of wounded innocence spread
 over the stolid face of the Chinese as
 he declared, "I was the last man."

Just Between Us

(Continued from Page 1)

cago paper dated September 12, 1887. We were surprised to find so much fine print. How did they ever read it by the dim coal oil lamps or the flickering gas burners? The old advertisements and old-fashioned type faces interested us. The folk around our office enjoyed looking at it.

There were a few ads which contained names still familiar to us. Castoria, Remington Typewriter, Baker's Breakfast Cocoa, and Dr. Price's Cream Baking Powder. A Mr. Watry, scientific optician, sold spectacles to suit all at a price of twenty-five cents and up. A Dr. Kean advertised: "No cure! No pay! All languages spoken." Another ad beneath it was headed: "WEAK MEN!" and featured an electric belt. It cured the worst cases permanently in three months. It guaranteed that current was felt instantly or the advertiser would forfeit \$5,000 in cash. A dentist by the name of Dr. Bush offered teeth without plate.

Ads for the Women

Women would appreciate the kid glove ad. Suede (undressed) kid gloves in 4, 6, and 8-button lengths were priced at 65c per pair. Seven-hook embroidered back kid gloves were on sale at \$1.00 a pair. The Chicago Female School and Notre Dame of Maryland offered an education to young ladies and little girls.

General purpose ads included: 1,000 business cards for one dollar. The UNION Folding Bed—incloses all bedding—was a pretty snappy piece of furniture according to the picture shown. Both illustrations, open and closed, were but one-half inch high. Contrast that with the full page illustrations in today's magazines. Loan offices were much in evidence those days. Lawyers promised prompt service. One could buy four photographs for \$1.00. Most intriguing were two ads for clairvoyants. They gave massage treatments and baths, but didn't say how a body rub produced information on one's future.

The news items in the paper were very interesting. We noticed that the Thirty-second Street Methodist Church had a farewell service. The old building

had been sold. But the new building was not ready for occupancy. It seems that they had labor troubles in those days, too.

Prohibition Up For Vote

We gathered that there was a prohibition amendment up for vote in 1887. One Chattanooga went to Atlanta, Georgia, to see the results of prohibition in that city. He stated that he found that prohibition did not prohibit. He cited a club with 400 members where one could buy anything from a beer to a gin sling, whatever that is. He believed that nothing could be gained until the law was general or nation-wide. Sounds like it was written in our day, doesn't it?

Mr. Charles S. Crane, a member of the Masonic order, passed away. There were over 300 carriages at his funeral. At Tolono, Illinois, the police picked up little boys running on the streets during school hours, unless they had proper business away from school. The editor suggested that this law, when enforced, was a little rough on the boys during the baseball season. Lieutenant Frank Folsom was killed in the fight with the Ute Indians in Colorado. The wolves were killing chickens in Minnesota.

Among these routine items we noticed this one: Ella Wheeler Wilcox's husband is described as "a stout man devoted to business". This is not exactly the kind of a husband that one would select for the poet of passion, but it is probably well that he is stout, full of business, and unpoetical, for otherwise Ella's poetry might be altogether too passionate for an every-day world.

Yes, it was interesting to read about how they lived in the "good old days". But after reflecting on it, I do not believe I would have cared for the life they had. In spite of all the hectic rushing around most of us do, this push-button age of ours is mighty convenient.

■ ■ ■

Our Cover Picture

This beautiful picture of a wet, spring day impressed us so much that we just had to have it for our April cover photo. It was taken by Gustav Anderson of Amityville, New York. We have used photographs by Mr. Anderson before. Always they reflect that professional quality so evident in all of his work.

SHOWER SATISFACTION

Your customer gets complete shower satisfaction when you recommend and install a Mueller **SELF-CLEANING** Shower Head because he is assured of a head that will never clog---never sputter---and never needs to be removed for periodical cleaning.

Every time he turns the handle to regulate the stream from a stinging needle shower to a soft rain patter, he forces 28 stainless steel pins to move back and forth through the holes in the face of the head that keep it always clean. Order your supply today.



H-5426

With Ball Joint,
Arm and Wall Flange

H-5425

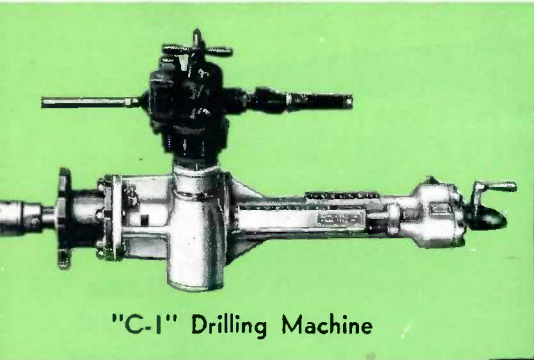
Head and Ball
Joint Only



MUELLER CO.

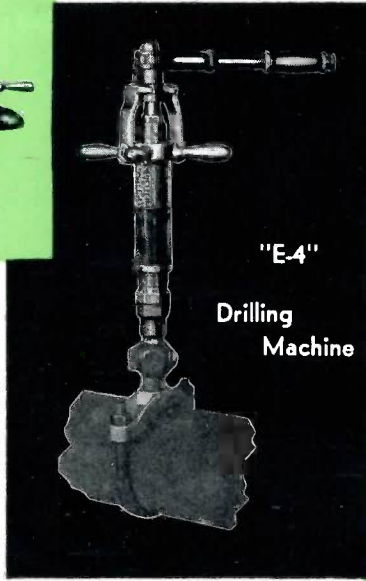
MAIN OFFICE AND FACTORY.....DECATUR, ILLINOIS
OTHER FACTORIES: Los Angeles, Cal.; Chattanooga, Tenn.; Sarnia, Ont. Canada

MUELLER *Products for* TRANSMISSION AND DISTRIBUTION LINES



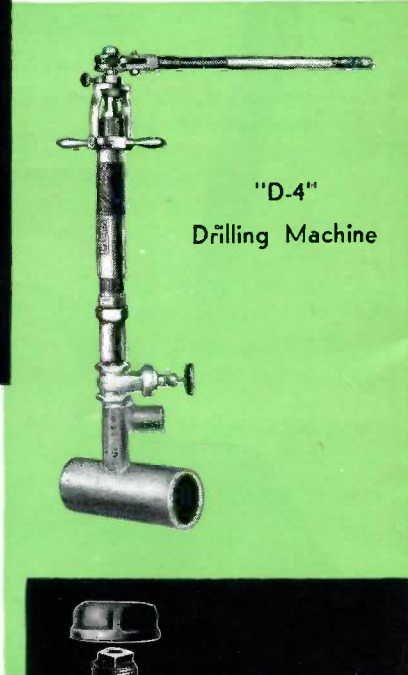
"C-1" Drilling Machine

When it is necessary to make repairs, extensions or additions to transmission or distribution lines that are under pressure, most Gas Companies use Mueller Equipment to do the work SAFELY and ECONOMICALLY because Mueller Drilling Machines are available that will drill through stops, valves or fittings without shutting down the line or reducing pressure.



"E-4"
Drilling
Machine

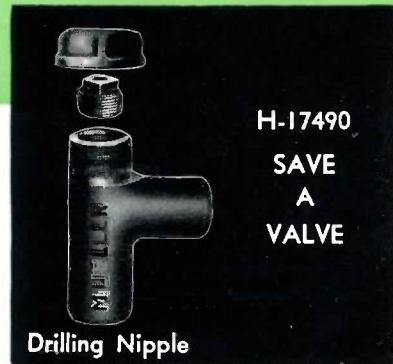
The "E-4" Drilling Machine has a drill capacity from 7/16" to 1" inclusive, the "D-4" Drilling Machine has a drill capacity from 3/4" to 2" inclusive and the "C-1" Drilling Machine will drill through gate valves in sizes 2" to 12" inclusive. The "C-1" Machine is extremely efficient as it is operated by a compressed air motor that cuts many times faster than hand operated machines.



"D-4"
Drilling Machine

Mueller SAVE-A-VALVE Drilling Nipples are ideal for temporary or semi-permanent pressure connections as they have an inside thread which permits the insertion of a plug in the nipple with the "E-4" or "D-4" Drilling Machine. The valve can be removed when the connection is abandoned while the line is under pressure. At any future time, the connection may be used again by simply reversing the procedure.

Mueller SAVE-A-VALVE Drilling Nipples are tested for pressures up to 500 Lbs. p. s. i. and are available in sizes from 1" to 3" inclusive. Ask any Mueller Representative to explain how you can benefit by the use of these Machines and Nipples or write us direct for full information.



H-17490
SAVE
A
VALVE

Drilling Nipple



MUELLER CO.

MAIN OFFICE AND FACTORY..... DECATUR, ILLINOIS

OTHER FACTORIES: Los Angeles, Cal.; Chattanooga, Tenn.; Sarnia, Ont. Canada