

# MUELLER *Record*

NOVEMBER • 1955





### THIS MONTH'S COVER

Washington Gas Light Company workmen of Washington, D.C., operate a Mueller CC-1 drilling machine to cut an 11½ inch hole in a 12 inch high pressure distribution line as part of the pressure reinforcement program for the Arlington, Va., area. The temperature was in the twenties the day this connection was made, yet service to several thousand homes continued without interruption.



November • 1955

WALTER H. DYER, Editor

## MUELLER CO.

MANUFACTURERS OF WATER AND GAS  
DISTRIBUTION AND SERVICE PRODUCTS

### FACTORIES

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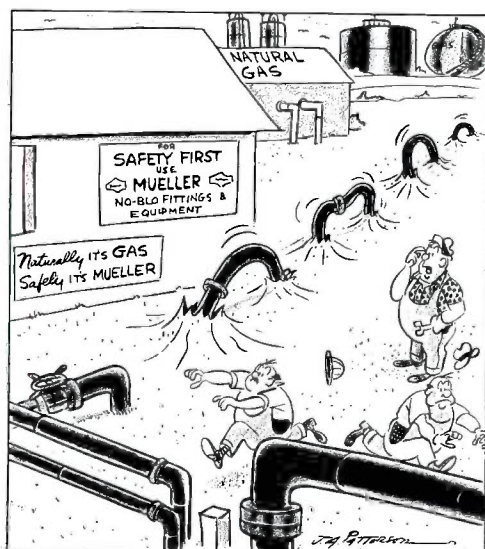
## Recording Our Thoughts

The Elizabethtown Consolidated Gas Company of Elizabethtown, New Jersey, marked its 100th year of service to the community during 1955, and as part of the company's centennial observance, it was recalled that its history dates back to the days when gas light was just becoming of age.

In 1855, the year of the founding, the firm was known as the Elizabethtown Gas Light Company. The founders of this company probably would have scoffed at the mere thought of gas being used as it is today for cooking, refrigeration, water heating, house heating, house cooling, laundry drying and the many thousands of uses it has in industry.

Employees of the company were told through the company publication, PILOT LIGHT, that it was an Englishman named William Murdock who during the year 1792 discovered a way to make

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"If you ask me, I think possibly she's carryin' too bigga' load."

MUELLER RECORD



## Gas Industry Honors Adolph Machlet, Pioneer In The Metallurgical Field

The late Adolph W. Machlet, gas industry pioneer and inventor of more than sixty processes in the metallurgical field, was honored by the gas industry during the recent National Metal Congress and Exposition in Philadelphia.

Mr. Machlet, whose reversal of the Bunsen system of combustion in 1887 made possible the thousands of applications of gas heat now used in American industry, was awarded the distinguished service award of the Industrial Division of the Gas Appliance Manufacturers Association.

The citation was accepted by P. C. Osterman, president of the American Gas Furnace Company of Elizabeth, New Jersey, who was associated with Mr. Machlet in that company for 54 years until Mr. Machlet's death on September 27 at the age of 90. Mr. Machlet was chairman of the board of American Gas Furnace Company and president and treasurer of the subsidiary American Metal Treatment Company when he died.

The GAMA award was presented by Alvin M. Stock, chairman of the association's Awards Committee.

Under the Bunsen arrangement, Stock explained, much of the air necessary to combustion comes from the surrounding space. Under Machlet's "blast" system all of the necessary air is forced through a pipe along with gas. This permits complete, efficient combustion under all conditions and makes possible the higher temperatures and precise control needed in modern industry.

Stock pointed out that Mr. Machlet's achievements are largely responsible for the fact that gas is now employed by more than 112,000 industrial organizations and that the fuel has become virtually indispensable in the processing of nearly every item required in the nation's daily living.

Mr. Machlet's gas process inventions were particularly important in accelerating metallurgical progress, Stock said. Early in this century Mr. Machlet patent-

ed a method for gas case-hardening and a machine that cheapened and improved the case-hardening process and bettered the working conditions in heat treating departments. In 1913 he obtained a patent for a nitriding process of nitrogenizing which was said to have set a pioneer course in the treatment of steels for resistance to wear and corrosion. In 1939 he obtained a patent for his method of processing "high speed" steel to prevent oxidation during the hardening of the metal.

Previous recipients of the GAMA Industrial Division Award were Frederic O. Hess, president, Selsco Corporation of America; Frank H. Adams, president, Surface Combustion Corporation; Hale Clark, vice president, Michigan Consolidated Gas Company.

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## NATURAL GAS PIPELINE FROM ARCTIC CIRCLE SEEN

Last year extensive deposits of natural gas and oil were found in Umiat, Alaska, near the Arctic Circle. Because of the expense involved in transporting oil and natural gas from Northern Alaska, the Navy felt it would be impractical to develop the field.

However, a 450-mile gas pipeline from Gubik on the Colville River to Fairbanks, Alaska, is contemplated by a group of Fairbanks business men. Proved reserves of dry gas reported at 300 billion cubic feet would be tapped as a supply source for a \$20 million, 8 inch line. The line would be built on the permafrost and covered by moss to prevent thawing. As a replacement for coal, natural gas would be 30 per cent cheaper, according to the promoters.

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Two camels trudged along side by side in a caravan crossing the burning desert. Finally one looked around furtively and said: "I don't care what anybody says, I'm thirsty."

# Mueller No. 4 Line Stopper Equipment Relocates 10" Main for Expressway

The Atlanta Gas Light Co. of Atlanta, Georgia, recently used Mueller No. 4 Line Stopper Equipment, and illustrations showing part of the job are on these pages. The location of this operation was adjacent to construction of the south leg of a four-lane expressway which, upon completion, will be U.S.

Highway 41, a north-south highway through Atlanta.

The purpose of the 10" stopoff was a means of shutting off the flow of gas in order to cut the 10" gas main which had to be removed from under the planned expressway. The job was completed efficiently and successfully.

**DRILLING A 10" MUELLER FITTING**—Left to right standing are E. O. Werba, Atlanta Gas Light Co. Chief Engineer; E. R. Benton, P. C. Avant, Atlanta Gas Light Co. Division Engineer; H. W. Cessna, Mueller Co. Sales Representative; Jack Chepan, Mueller Co. engineer; Calvin Slade, laborer, A. H. Abernathy, and C. V. Brooks, foreman, all of Atlanta Gas Light Co. In the ditch are Marion Boyce, P. H. Dooley, and L. C. Range of Atlanta Gas Light Co.







At left, workmen place the Mueller machine with cutter on the control valve to begin cut. Left to right in ditch, L. C. Range, Chester Campbell and Marion Boyce. Standing from left, Paul Dooley, Calvin Slade, H. W. Cessna, A. H. Abernathy and J. H. Lookey. In the photo at right, the 10" Mueller fitting is shown welded in cutting position with the control valve. The pipe cutting machine shown on this main will be used to cut the main in two after cut is made and rubber stopper is inserted in Mueller fitting.

Below left, the welding control fitting is in place. C. V. Brooks is the welder and Calvin Slade is the helper. At right, the welding control fitting halves are on the gas main. The welder is Robert Brown, the contractor's employee, and L. C. Range.





**JAMES D. BAILEY**



**WILLIAM T. SPRAGUE**

## James D. Bailey Named Administrative Assistant; W. T. Sprague Credit Manager

The promotion of James D. Bailey to Administrative Assistant to Robert H. Morris, Mueller Co. Vice President and General Sales Manager, and the appointment of William T. Sprague to succeed Mr. Bailey as Credit Manager became effective November 1.

Mr. Sprague comes to Mueller Co. from Schwartz Furniture Company in Decatur where he has been Credit Manager for the past 18 months. Before that, he was with the B. F. Goodrich Company for nine years.

Mr. Bailey replaces F. R. (Dick) Seevers who elected to return to the field as our Sales Representative in the Rocky Mountain territory.

A Navy veteran of World War II, Mr. Sprague served in the Mediterranean Sea and the South Pacific Theater. He is a native of Quincy, Illinois, and was grad-

uated from high school there. He is married, has two sons, Steve, 10, and Stan, 7, and makes his home in Decatur.

Mr. Bailey has been Credit Manager for Mueller Co. since last March, coming to our company from the Credit Department of the Millikin National Bank in Decatur where he was employed for two years. Before that, he was with Dunn and Bradstreet offices in Decatur from 1948 to 1953.

A native of Decatur, Mr. Bailey is a graduate of Decatur High School. During World War II service with the Navy, he studied engineering at Purdue University. Following the war, he continued his education at Millikin University where he studied business administration.

Mr. Bailey is married, has two daughters, Carol, 5, and Jane, 2, and lives in Decatur.



# Don E. Radcliffe Is Named Assistant To W. H. Hipsher, Executive Vice President

Don E. Radcliffe, manager of the A. C. Allyn & Company office in Decatur, Illinois, has been appointed Assistant to William H. Hipsher, Executive Vice President of Mueller Co.

Mr. Radcliffe assumed his new position October 15. The post is a new one. He has been in charge of the investment brokerage firm's Decatur office since 1948, coming to Decatur from the company's headquarters in Chicago.

He joined A. C. Allyn & Company in 1947 after receiving a Master of Science degree in Economics from the University of Illinois. He was awarded his Bachelor of Science degree in Economics in 1946.

Mr. Radcliffe is chairman of the City Planning Commission in Decatur and is president of the Decatur Family Service Association. He also is vice president of the Decatur Club and is a member of the Decatur Rotary Club.

He is a former vice president of the Illinois Junior Chamber of Commerce, a past president of the Decatur Jaycees, and also a past president of the Illinois Young Republicans. In 1954 he received the Young Man of the Year Award in Decatur.

He served with the field artillery during World War II from 1942-45, attaining the rank of first lieutenant. Two years of that period were spent in the South



**DON RADCLIFFE**

Pacific. Prior to the war, he attended the University of Illinois from 1939-42.

Mr. and Mrs. Radcliffe are members of the First Methodist Church in Decatur. They have a son and daughter, ages four and one and one-half years, and make their home in Decatur.

The natural gas industry is still one of the fastest growing industries in the nation. At the end of 1954 some 22 million customers were using about 57½ billion therms of this flexible fuel yearly. Nearly 96 per cent of all the gas sold today is natural gas, which accounts for about 25 per cent of the energy used in the nation today. This compares with the 3.2 per cent of the nation's energy supplied by natural gas in 1940. Yet, before the construction of the natural gas systems which crisscross our nation, this fuel was considered a drug on the market which could be sold only near its source.

In the personnel office, a young farmer was applying for a job. After filling out the items on the application form he came to a space for "remarks." He chewed his pencil thoughtfully for a few minutes then spelled out: "Mighty purty day."

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If you're calm and collected when everyone else is losing his head—maybe you just don't understand the situation.

\* \* \*

A woman's declining years are before she's 30. She'll accept almost anybody after that.

## W. F. Rockwell New GAMA President

W. F. Rockwell Jr., president of Rockwell Manufacturing Company, Pittsburgh, was elected president of the Gas Appliance Manufacturers Association at the opening of GAMA's 20th annual meeting.

H. Leigh Whitelaw, managing director for the past 12 years, was named to the newly created post of executive vice president, and Harold Massey, assistant managing director since 1946, was made managing director and secretary.

Rockwell succeeds Thomas T. Arden, executive vice president of Robertshaw Fulton Controls Co., as head of the trade group whose 600 manufacturer members account for more than 95 per cent of all

equipment used in gas production, transmission, distribution and utilization.

Arden said Massey will be in charge of the administration and management of the association's affairs. Whitelaw will act in an advisory capacity to the board of directors and concentrate on policy matters and industry and governmental relations.

Other officers elected with Rockwell are: first vice president—A. B. Cameron, president of Ruud Manufacturing Company; second vice president—Julius Klein, president of Caloric Appliance Corp.; treasurer—F. Shepard Cornell, vice president and general manager of A. O. Smith Corporation.

## AGA Wins Safety Council Award

The American Gas Association has been awarded the National Safety Council's Association Award for outstanding work in preventing occupational accidents during 1954. The award was presented at the National Safety Congress and Exposition in Chicago, October 17-21, by David L. Arm, manager, Industrial Department, National Safety Council. E. C. Baumann, safety engineer of Public Service Electric and Gas Company, Newark, N. J., and vice-chairman of the A.G.A. Accident Prevention Committee,

received the award on behalf of the Association.

The Association Award recognizes general excellence of association safety services, particularly for their contribution to the reduction of work injuries. Activities such as publicity, safety conferences, contests and the publication of technical materials were taken into consideration by the Council's committee of judges. The American Gas Association was one of eleven trade associations to receive the award.

## McCandless In New AGA Post

Bruce A. McCandless, formerly assistant to the managing director of the American Gas Association, has been appointed an assistant managing director, effective November 1.

Mr. McCandless joined the A.G.A. staff in New York in October, 1952 as assistant to Managing Director H. Carl Wolf. During the illness of Mr. Wolf he served as acting assistant managing director. He had previously served as assistant to the director of the A.G.A. Laboratories in Cleveland.

He was graduated from Purdue Uni-

versity as a Chemical Engineer and worked with National Carbon Company from 1937 to 1939 when he joined the A.G.A. Laboratories. From January 1941 to December 1945, he served in the Field Artillery in World War II and was discharged with the rank of Lieutenant Colonel.

He was in charge of Inspection Service at the A.G.A. Laboratories from 1946 to 1949, when he was appointed assistant to the Director of the A.G.A. Laboratories.



# AGA Account To Lennen & Newell, Inc.

Appointment of Lennen & Newell, Inc., New York, as agency for American Gas Association's national consumer advertising has been announced by F. M. Banks, President, Southern California Gas Company, and President, American Gas Association. The appointment takes effect after the first of the year, the exact date to be determined.

The gas account is now in its twentieth year. In 1956, A.G.A. will sponsor a million dollar campaign in leading consumer magazines on domestic gas appliances. This campaign is an integral part of the Association's promotion, advertising and research (PAR) program.

Mr. Banks stated that the appointment was made after weeks of intensive analysis of leading agencies' qualifications. After a preliminary screening, ten

agencies were invited to make presentations to the PAR Domestic Advertising Committee. This committee, composed of a number of gas company advertising managers, and chairmanned by Clayton G. Cassidy, The Peoples Gas Light & Coke Company, Chicago, narrowed the field to three agencies.

Final selection of Lennen & Newell was made by the PAR Special Subcommittee on Agency Relations. This group is composed of leading industry executives, under the chairmanship of William B. Hewson, vice president of The Brooklyn Union Gas Company.

Mr. Hewson stated that in the industry members found "Lennen & Newell outstanding for its purposes in three respects: current vitality, as evidenced by the agency's remarkable growth in recent years; the fact that the bulk of the agency's billing is in the most competitive consumer-type of accounts, and third, outstanding methods that have made possible the agency's record of success."

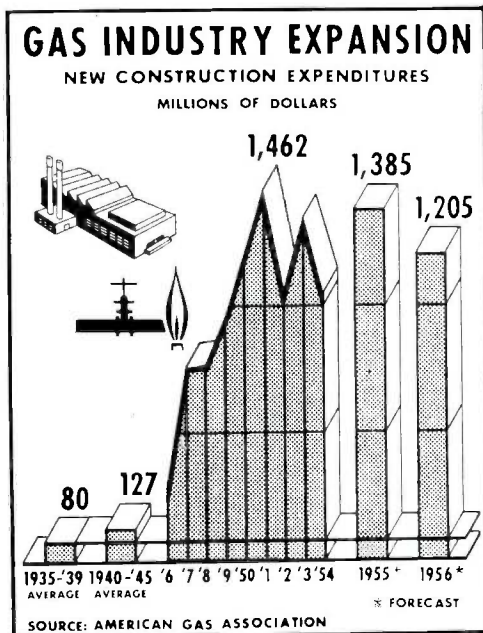
## GAMA Names Luoma

Herbert Luoma has been appointed to the new position of director of technical services for the Gas Appliance Manufacturers Association.

His appointment was announced by Harold Massey, GAMA managing director, at the close of the association's 20th annual meeting in Palm Springs.

Luoma comes to GAMA from the Alabama Gas Corporation, where he has been utilization engineer and director of training since 1946. Before joining the Alabama company he was associated with the laboratories of the American Gas Association in Los Angeles and Cleveland. His office will be in New York headquarters of GAMA.

The first natural gas well completed in this country was drilled at Fredonia, N. Y. in 1821. This was three years before the first railroad was built in the United States. The country's first gas well was only 27 feet deep. Thirty seven years later, in 1858, the first deep natural gas well was drilled in Erie, Pa. Today natural gas wells cover an area of more than 20,000 square miles in 23 different states.



SINCE World War II expansion of the gas industry has averaged nearly one billion dollars per year, or 10 times the rate of pre-war development. As a result of this expansion, an average of 900,000 new customers per year have been added to utility gas lines which now serve more than 28 million users in the United States.

# All Time High Predicted For Gas Industry

## Appliance Leaders See New Peaks In Household, Commercial, Industrial Usage

The nation's gas industry will wind up the year with a whole collection of new records.

Gross production of natural gas will surpass the record high of 11 trillion cubic feet produced in 1954. The number of gas utility customers will approximate 29 million, another record. The consumption of gas in industry and in the nation's homes will top the previous high by more than nine per cent. Sales of gas appliances and equipment, in most major categories, will surpass even the war-stimulated year of 1950—previous high point for this branch of the industry—with ranges, water heaters and gas central heating installations estimated to approach 6,500,000 units this year.

And 1956 will be even better than 1955.

These predictions were made at Palm Springs, California, by Thomas T. Arden, president of the Gas Appliance Manufacturers Association, October 11, at the opening of the trade group's 20th annual meeting. Arden, who is also executive vice president of Robertshaw-Fulton Control Co., said his forecast was based on the known performance of the industry to date, industry commitments for the balance of the year, and industry-wide surveys conducted by GAMA and the American Gas Association.

Arden said three basic factors are responsible for the spectacular industry gains.

First, he said, is the multi-billion-dollar expansion of the natural gas pipeline system which is bringing the wonder fuel to new markets, and increasing the sup-

plies to other areas previously served by inadequate transmission facilities.

Second is the recognition among builders of new homes and modernizers of existing ones that the use of gas and gas appliances for multiple purposes in the home is an efficient and economical step toward home automation.

Third, he added, is the trend on the part of industry toward utilizing natural gas in a triple role as a fuel, a tool and as an ingredient in many processes.

### OPTIMISM SHARED

Other leaders of GAMA who attended the association's board of directors meeting shared Arden's optimism.

James Sands, chairman of the industrial gas equipment division of GAMA, and vice president of Eclipse Fuel Engineering Co., Rockford, Ill., said gas is now employed by 112,000 industrial organizations and that the fuel has become virtually indispensable in the processing of nearly every item required in the nation's daily living. He mentioned cosmetics, television tubes, tin cans, foods, textiles, paints, chemicals, printing, steel and other metals as examples of the variety of industries in which gas plays an important part. He said more than 80 different gas processes are involved in the assembly of an automobile, ranging from the block-testing of engines to the quick-drying of body paint.

American industry, he said, is expanding its use of gas almost as fast as the gas can be transmitted and distributed because the fuel offers speed, precise controllability, cleanliness and economy.



Industrial gas users consumed 33 billion therms last year, Sands said, three times the amount used in the "all-out" defense production year of 1941. He predicted that the continuing growth of the pipeline system development of new industrial gas processes and equipment will boost annual consumption to more than 38 billion therms by 1958.

Most bullish among the manufacturers of domestic gas appliances and equipment were representatives of the house heating and water heating segments of the industry.

G. W. Denges, chairman of the gas warm air furnace division, said furnace shipments during the first eight months of this year totaled 517,000 units, nearly 36 per cent above the all-time high of 1954. Denges said that gas central heating systems in use at the end of 1955 will exceed the total of oil heat installations. He said there were only 1,292,000 gas central heating plants in American homes in 1945, and that the total increased more than 400 per cent to 6,959,000 by the end of 1954, while oil units went from 2,517,000 units in 1945 to 7,606,000 at the end of last year, an increase of 202 per cent.

#### **SALES EXCEED EXPECTATIONS**

N. E. Westphal, chairman of GAMA's boiler division, whose members produce equipment for steam and hot water home heating systems, predicted that two and one half million additional homes will be heated with gas during the 1955-56 and 1956-57 heating seasons to bring the total of gas heated homes to more than 17 million. He said the boiler makers early this year anticipated about a four per cent increase over 1954, but that eight months' shipment figures revealed a rise of 11 per cent over the same period of last year. Westphal, who is director of research and engineering for Weil-McLain Co., Michigan City, Ind., said a recent survey of manufacturers indicated that 1956 sales will run six and one half per cent above this year's total.

Only one category of gas central heating failed to show an increase during the first eight months of this year—gas conversion burners. However, Edward P. Hayes, chairman of the division, and vice president of C. A. Olsen Mfg. Co. of Elyria, Ohio, said that most conversion burner manufacturers also produce

either boilers or furnaces and that sales increases in those items far more than offset any decline in conversion burners. He added that conversion burner sales invariably spurt spectacularly as new areas convert to natural gas. The next big jump in conversion burner sales will occur when natural gas reaches the Pacific Northwest next year, Hayes said.

Harry Carbon, chairman of the gas water heater division, said his branch of the industry is enjoying its greatest year, and is certain to finish 1955 with an all-time record, at least 10 per cent above the previous high of 1950. Shipments during the first eight months of this year totaled 1,894,400 units, 24 per cent greater than during the same period of 1954. Carbon, who is president of Bastian-Morley Co., Inc. of La Porte, Ind., said the August, 1955, shipments of 271,000 units was the highest monthly total in the history of the industry.

#### **POSSIBLE RECORD '56**

Carbon said a recent survey of gas water heater manufacturers indicated that the group felt 1956 sales may fall off two or three per cent from the 1955 peak. However, he added, "these manufacturers are always conservative in their estimates. In January of this year they estimated that shipments might run about two per cent above 1954—22 per cent below the actual figure at the end of eight months. If 1956 follows the pattern, we might set another new record."

Manufacturers of gas ranges also are surpassing their conservative estimates of early 1955, according to E. Carl Sorby, vice president of Geo. D. Roper Corp. of Rockford, Ill., and chairman of GAMA's domestic gas range division. At the end of 1954, he said, manufacturers anticipated a 1955 increase of about five per cent over the 1954 total. Actually, he pointed out, shipments for the first eight months were 1,512,900 units, an increase of more than 16 per cent. Shipments for the month of August hit a whopping 233,400 units, highest month of the year, and more than 30 per cent above the same month of 1954.

Sorby pointed out that these figures do not include "built-ins," the decentralized oven-broiler and top-burner arrangements which he said are increasingly popular with new home builders.

A relatively new gas appliance—the clothes dryer—which has been climbing in sales year by year, will hit another new high this year, according to Norman Millard, chairman of the gas dryer division. Millard, who is manager of utility sales for the Crosley and Bendix Home Appliance Divisions of Avco Manufacturing Corp., said this year's dryer sales will exceed 250,000 units, about four times the 1950 volume.

He predicted that 1956 would see not only another peak, but also that the gas dryer and the all-in-one washer and gas dryer combination unit would capture a larger percentage of the market. Currently, he said, gas models account for more than 25 per cent of dryer sales. However, he added, in more than a dozen important markets gas dryers lead in sales and are running about even in many other markets.

Millard said the increased sales and improved competitive position will result from the increasing promotional support being given to dryers by gas utility companies. "They have something to promote, too," Millard said, "since gas dryers have the virtues of speed and economical operation. In most areas the differential in operating cost in favor of the gas dryer during its operating life adds up to more than the original cost of the appliance."

#### **AUTOMATION IN THE HOME**

Frank H. Post, chairman of GAMA's automatic controls division, said the controls industry is running well ahead of 1954 and expectations are that next year sales will surpass 1955 by a substantial margin. Post, who is sales manager of the Robertshaw Thermostat Division, Robertshaw-Fulton Controls Co., said the continuing trend to automation in the home assures an increasing demand for the products of the industry. He pointed out that sale of controls is likely to run at a faster rate than appliances generally because many appliances are now using a number of automatic controls.

R. H. Norris, executive vice president of the Dearborn Stove Co. of Dallas, Texas, and chairman of the direct heating equipment division of GAMA, said his group reported sales for the first six months 32 per cent above the first half of 1954, and expected to keep up that

pace during the rest of the year. Norris said the division anticipates 1956 volume will be approximately the same or slightly better. He attributed the recent sales rise to expanded gas transmission and distribution facilities and to stepped-up promotion of newly designed room heaters which fit in with the decor of the home.

Manufacturers of recessed wall heaters and floor furnaces report that the national trend to home modernization has stimulated the demand for both types of equipment. Ralph E. Solomon, director of engineering for Samuel Stamping and Enameling Co. of Chattanooga, Tenn., pointed out that additions to a home do not require replacement of existing central heating plants since floor and wall furnaces can be installed in the newly added space to provide the necessary additional heat. Solomon added that the wall heaters and floor furnaces are particularly desirable where space is at a premium. He also said there is a trend in many parts of the country to the use of two or more wall heaters or floor furnaces in homes to provide zoned heat with precise controls so that individual rooms or home areas can be warmed as needed, without warming areas that are not in use. Wall heater sales during the first six months were 24 per cent above the same 1954 period while floor furnaces were up eight per cent.

Solomon said manufacturers expected the balance of 1955 to be somewhat better than the first half year, and that 1956 would see a continuing rise in sales.

#### **INCINERATORS ON UPSWING**

Frederick H. Martin, vice president of Martin Stamping and Stove Co. of Huntsville, Ala., said domestic gas incinerators which perform the dual job of consuming household trash and garbage are making steady progress as a new member of the gas appliance family. He said that expansion in this field can be judged by the fact that there were only three manufacturers of A.G.A. approved gas incinerators operating in 1948 and now 39 companies produce the gas-burning garbage and trash disposers. He predicted substantial gains for next year, particularly in new housing developments, where the gas incinerator is now being used to solve the community problem of trash and garbage collection.



Wendell M. Smock, president of Vulcan-Hart Manufacturing Co. of Louisville, Ky., said sales of hotel, restaurant and commercial gas equipment were up six per cent during the first six months of 1955 over the same period of 1954 and that manufacturers expected about the same performance during the rest of the year. He pointed out that gas equipment almost completely dominates the commercial and institutional cooking field with more than 95 per cent of the 65,000,000 meals served daily in public eating places being cooked with gas. The replacement market for existing equipment and the overwhelming preference for gas in newly constructed hotels, restaurants and institutions assure the manufacturers of continuing demand, Smock said.

Other chairmen of GAMA divisions whose members produce a variety of products and accessories used in pro-

duction, transmission and distribution of gas and in the manufacture of appliances and equipment reported progress parallel to the overall expansion of the entire industry.

These divisions and their chairmen are:

Gas appliance regulator division, Frank J. Kern, Jr., president of Maxitrol Co., Detroit, Mich.; gas engine compressor, A. M. Buxton, general sales manager for Cooper-Bessemer Corp. of Mount Vernon, Ohio; gas meter and regulator, Gilbert T. Bowman, sales manager for Gas Products and Nordstrom Valve Divisions of Rockwell Manufacturing Co. of Pittsburgh; gas valve, F. W. Schmidt, secretary-treasurer of Roberts Brass Manufacturing Co. of Mitchell, Ind.; relief valve, E. F. Kurtz, sales manager for Spencer Thermostat Division of Metal and Controls Corp. of Attleboro, Mass.

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## ***Recording Our Thoughts . . .***

**(Continued from Page 3)**

gas from coal and pipe it for short distances. The manufactured gas gave forth a lovely light, and so the first use of gas was for illuminating purposes only.

Thus, when the Elizabethtown concern was organized, its first task was lighting its city with gas lights.

One of the great advances made by the company came in 1951 when the manufacture of gas locally was discontinued and natural gas from Texas was piped into the distribution mains.

The company now has 136,405 customers who are served by 1,112 miles of company mains. More gas is distributed now in 15 minutes than during the first three months the company was in business 100 years ago. The average amount of gas consumed daily by Elizabethtown Consolidated during 1855 was 6,494 cubic feet. One of the top sendout days this year, although not necessarily the record, was 29,774,000 cubic feet of natural gas or the rough equivalent of 59,548,000 cubic feet of manufactured gas.

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### **Natural Gas To Las Vegas**

The first natural gas distributed in the State of Nevada was piped early this year. Las Vegas and its surround-

ing communities and major industries will be completely served from the Nevada Natural Gas Pipeline Company's 110-mile transmission main, which carries gas from the El Paso Natural Gas Co. system near Topock on the Colorado River.

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### **420,000 Miles Gas Lines**

The addition of the 2,000 mile pipeline bringing natural gas from the San Juan Basin in New Mexico to Washington, Oregon, and Utah will bring the total mileage of the nation's natural gas system to about 420,000 miles. Eighty-three years ago the nation's first "long-distance" natural gas pipeline was built from Newton Well to Titusville in Pennsylvania. The line was 5½ miles long and was finished in 1872.

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### **Peak Period**

At the peak period during 1954 the gas industry had more than 1 trillion, 11 billion cubic feet of natural gas stored in underground reservoirs to be withdrawn at times of peak demand. In one day during the storage year ending October 31, 1954, a total of 5½ billion cubic feet of natural gas was withdrawn from storage wells.

# Harlan A. White Is Named Assistant To Leo Wiant, Administrative Vice President

Harlan A. White, a partner with the firm of Gauger & Diehl, Certified Public Accountants in Decatur, has resigned to accept a position with Mueller Co., effective December 1, as Assistant to the Administrative Vice President. The appointment to the new post was announced by Leo Wiant, Administrative Vice President.

Mr. White joined the Decatur office of Gauger & Diehl after receiving a Bachelor of Science degree in Accounting from the University of Illinois in October, 1947. He became a partner with the firm October 1, 1954.

He is a veteran of World War II, having served from 1943-46 as an ensign in the United States Navy after receiving his commission from the Midshipman School at the University of Cornell. He was recalled to the Navy for service as a lieutenant in the Korean War from 1950-52.

Mr. White is a member of the Decatur Lions Club, the Decatur Club, the Association of Commerce and the Y.M.C.A. He also is a member of the Illinois Society of Certified Public Accountants and the American Institute of Accountants.

He is married, has two sons, and lives



**HARLAN A. WHITE**

at 1078 Evans Court. Mr. and Mrs. White are members of the Westminster Presbyterian Church in Decatur.

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## **Made Ready For Movie**

The Universal Consolidated Oil Company recently began digging a test well on a 260 acre lease it obtained from the 20th Century-Fox Film Corporation near Olympic Boulevard in Beverly Hills. This site offers a natural location for a movie portraying natural gas or oil well heroes should such a picture be contemplated. The film company could make all of its shots without leaving its own studio property. A sound-proofed derrick and an all-electric drill will be used to test for gas and oil.

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## **Gas Output Booming**

The output of natural gas has experienced a terrific boom in the past

quarter-century. Last year more than 9.4 trillion cubic feet of this popular fuel were produced, compared with less than 2 trillion cubic feet of marketed production of natural gas in 1929.

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## **First Industrial Gas Use**

One of the first industrial uses of natural gas in the United States on record was effected in Centerville, Butler County, Pennsylvania. In 1840, John Crisswell was drilling a salt well when he discovered natural gas at a depth of about 700 feet. He piped this gas and burned it under evaporating pans in the manufacture of salt, following the crude process used by the Chinese many centuries earlier.





**F. R. SEEVERS**



**H. W. CESSNA**

## **F. R. Seevers Takes Rocky Mountain Territory; H. W. Cessna Into Alabama**

F. R. (Dick) Seevers, Administrative Assistant to Robert H. Morris, Vice-President and General Sales Manager, has elected to return to the field as one of our sales representatives. Mr. Seevers has moved to Denver, Colorado, which will be headquarters and has been assigned the Rocky Mountain Territory—all of Colorado, Montana, and Wyoming. He replaces Ray Fallon, Jr., who resigned recently.

Dick, whose father is Harry Seevers, the dean of our sales force with 38 years service, will be traveling for Muel-

ler Co. for the second time. He joined us as a sales representative in 1950 after graduating from the University of Kansas with a Bachelor of Science degree in Industrial Management. He was on the road from 1950 to 1953 when he came to Decatur as Administrative Assistant to Mr. Morris.

In another move, H. W. (Bill) Cessna, our sales Representative for the State of Georgia, has added the eastern part of Alabama to his territory. He will continue to travel the State of Georgia in addition to his new territory.

The children were in the midst of a free-for-all when father unexpectedly entered the room.

"Tommy, who started this?" he asked.

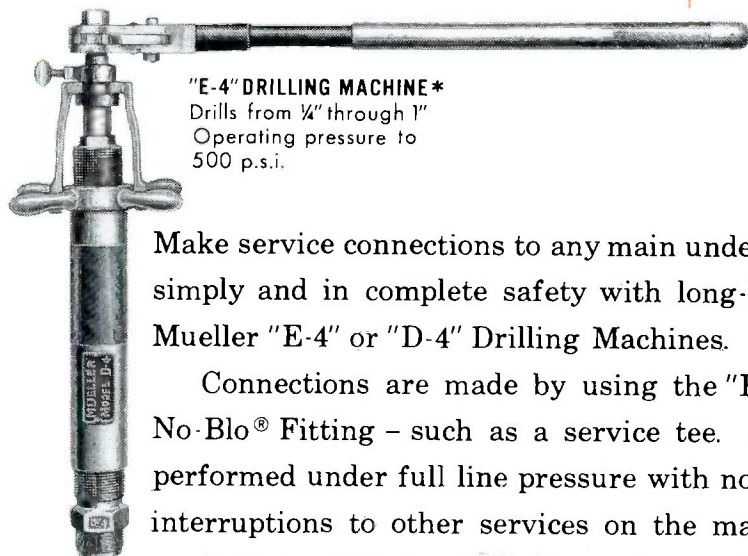
"Well," replied Tommy. "It all started when Albert hit me back."

Dignity is one thing that cannot be preserved in alcohol.

William Murdoch, a British engineer, lighted his home in 1792 with gas produced by heating coal in an iron retort. The gas was conducted through 70 feet of pipe. Now 163 years later, the gas industry utilizes about 475,000 miles of gathering, transmission and distribution pipeline to serve its 28 million customers in the United States.

# MUELLER®

## Safe Service Connections!



### "E-4" DRILLING MACHINE\*

Drills from 1/4" through 1"  
Operating pressure to  
500 p.s.i.

Make service connections to any main under pressure quickly, simply and in complete safety with long-lived, time-proven Mueller "E-4" or "D-4" Drilling Machines.

Connections are made by using the "E-4" or "D-4" and a No-Blo® Fitting – such as a service tee. All operations are performed under full line pressure with no blowing of gas or interruptions to other services on the main.

Both the "E-4" and "D-4" may be used to stop-off small mains or service lines, too. Stop-offs can be made above and below the leak – a by-pass installed – and repairs made without any interruption to service.



See your Mueller Representative, consult Catalog G-97 or write direct for full specifications.



### "D-4" DRILLING MACHINE\*

Drills from 1/4" through 2 1/8"  
Operating pressure to 500 p.s.i.

## MUELLER CO.

*Dependable Since 1857*

MAIN OFFICE & FACTORY DECATUR, ILLINOIS

\* Now with "O" Ring Boring Bar Seal!