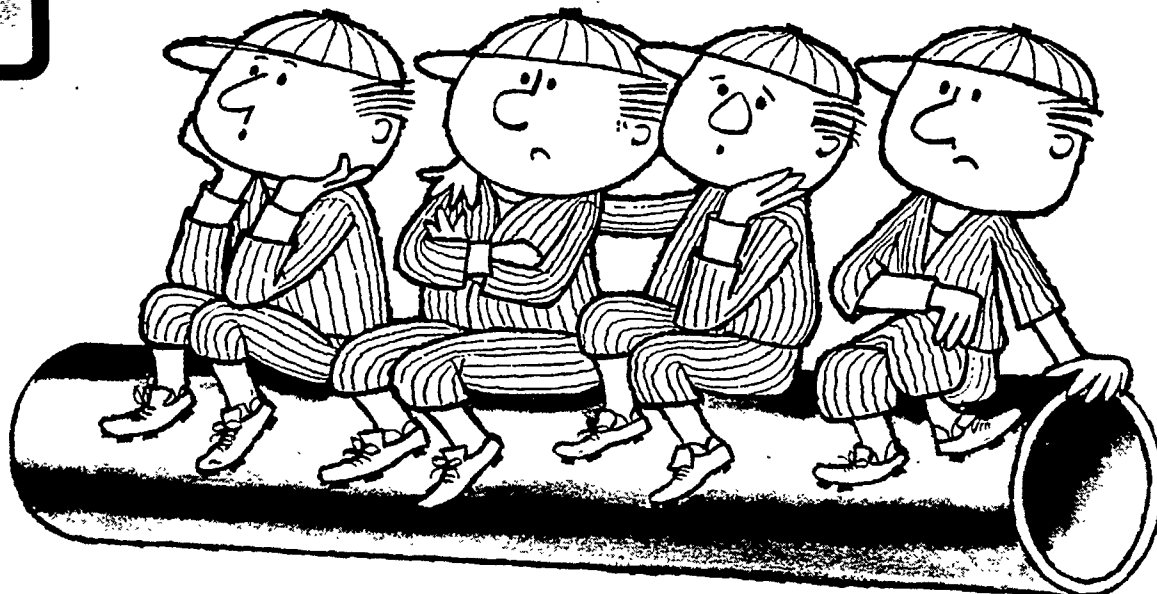




*no place for **SUBSTITUTES** in pipe selection*

Check the score before experimenting
with substitutes for cast iron pipe!

POINTS TO COMPARE	CAST IRON PIPE	SUBSTITUTE PIPE
Long Life	100 Years or more	?
Bursting Pressure	2,988 psi	746 psi
Bursting Tensile	25,880 psi	3,430 psi
Impact Resistance	234 ft. lbs.	60 ft. lbs.
Beam Loads (12-foot span)	20,790 pounds	3,060 pounds
Crushing Loads	17,900 lbs. per ft.	6,480 lbs. per ft.
Water Absorption	None	9.8% of weight after 24-hour submersion
Tight Joints	Wide selection for liquid or gas service	Limited selection for water service
Inside Diameter	6.14"	5.85"

Pipe tested were 6" Class 150.



SALES OFFICES: Chicago
New York City — Kansas City
Dallas — Minneapolis — Denver
Pittsburgh — Orlando — Cleveland
Birmingham

● Dallas County WCID No. 6 at Balch Springs, Texas, has asked approval of \$870,000 in bonds to provide water works and sewerage for that town which has grown from 800 in 1952 to its present population of 6,400.

● The Springdale, Ark., City Council has passed an ordinance authorizing the city to borrow \$100,000 for improvement of the city water works.

● Steele, Ark., has awarded a \$300,000 sewer system construction contract. The project is part of an over-all city improvement plan.

● A national financial advisory service has given an AA rating to New Orleans, La., Sewerage and Water Board's \$6.2 million revenue bond issue. This rating is said to reflect the efficiency of the issuing board and of the Board of Liquidation of the city debt, which approved the issue.

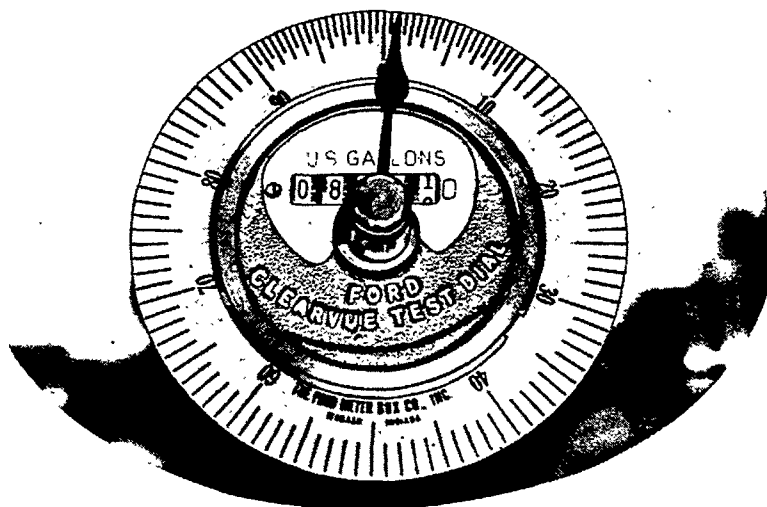
● Texas State Board of Water Engineers has declined to approve the application file for hearing of San Antonio's plea for a permit to build a huge dam above Cuero on the Guadalupe River and divert from it 280,250 ac. ft. a year for municipal use.

● Erick, Okla., voters have approved a \$56,000 water works system bond issue to construct a ground water reservoir and install two 400 gpm turbine pumps.

● The McAlester, Okla., planning commission has unanimously endorsed the city's proposed \$815,000 sanitary sewer improvement project.

● A \$4 million contract has been awarded for construction of a 51-mile aqueduct from Foss dam and reservoir to serve five Oklahoma communities—Hobert, Clinton, Bessie, Cordell and Rocky. Completion is expected by September 1962.

● A meeting was held recently in Stroud, Okla., to work out preliminary details on development of the Salt and Camp Creek watershed and the contemplated construction of a city water supply reservoir.



For Accurate Reading of Meters on Test . . .

Meter dials are read accurately . . . down to $\frac{1}{2}$ of 1% . . . when equipped with the Ford Clearvue Test Dial. May be used on any straight or round reading register between $2\frac{1}{2}$ " and 3" in diameter, except those with a sweep hand in the center. It makes no difference whether meter reads in gallons, cubic feet or liters. Calibrated aluminum ring, 5" in diameter, can be turned to any position for start of test.

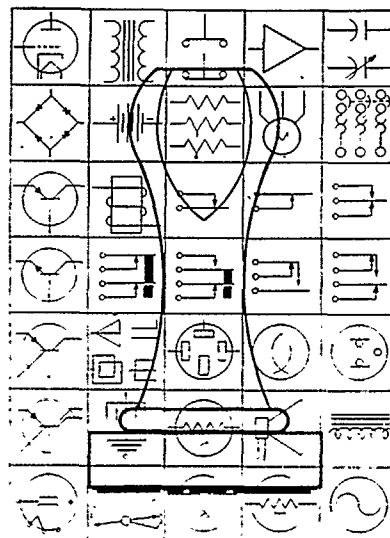
THE FORD METER BOX COMPANY, INC.
Webesh, Indiana

FOR BETTER WATER SERVICES



CLASSIFIED and SERVICE DEPARTMENT

SALESMEN WANTED: To hire, train, and sell water softeners or chemical to water works, etc. Age, race, creed, no barrier. Immediate assignment. Top earnings. Nationwide. Rush resume. CRYCO, 2872 Piedmont Rd., Charleston, W. Va.



TECHNICAL RUBBER STAMPS — Pictured are a few of the symbols reproduced on rubber stamps, created for electrical, electronic, mechanical, civil, chemical, and industrial engineers, technicians, designers, architects, draftsmen, field and plant supervisors. Complete information, catalog of designs available and prices can be obtained from Technical Stamp Division, Paper Equipment Distributing Co., P.O. Box 90, Prince St. Station, New York 12, N. Y.

SOUTHWESTERN SWIM

- Nacogdoches County (Texas) voters have favored creation of Nacogdoches County WCID No. 1 by a vote of 1,793-174. The District plans to take up the City of Nacogdoches' presentation on Beech Creek, for a reservoir to provide a water supply for a new paper mill.
- Sherman, Texas, voters approved a charter amendment for limited annexation, planned to protect the ground water supply of the city by taking in rural areas where well field expansion will be needed.
- Col. Everett A. Hansen, District Engineer at Galveston for the U. S. Army Corps of Engineers until his recent retirement, has been named Vice-Pres. in charge of engineering for Bauer Dredging Co., Port Lavaca, Tex.
- Shreveport, La., Water and Sewer Dept. has whittled its debt to the general fund down to \$100,000. The department raised water and sewer rates October, 1959, to bring in extra revenues. So far this year, according to John Ford, Finance Commissioner, revenues have topped those of the first eight months of 1959 by \$473,156.83.
- A new sewer district was created in Opelousas, La., to include all of Bonnyville sub-division not now in a sewer district.
- Elaine, Ark., has let contracts totaling \$163,898 for water and sewer system improvements.
- Brinkley, Ark., has placed its new 500,000 gallon water tower in service. The tower is 125 feet high.
- Kaplan, La., voters have approved a \$225,000 bond issue for a sewage system and for improvements to present water facilities.
- The sewage disposal plant of the old Michoud ordinance plant will be deeded to the New Orleans Sewerage and Water Board, a step which will aid industrial expansion of the eastern portion of the city.
- Lexington, Okla., voters have approved a \$25,000 bond issue for improving the town's sanitary sewer system and rebuilding the lift station.
- Commissioner Ruben Jay is urging fellow members to "begin thinking seriously" on providing Stillwater, Okla., with an ample water supply lake in the near future.
- Installation of a sanitary sewer system for the townsite of New Mannford, Okla., is 65% complete. The system will serve about 226 families in the new townsite on Keystone reservoir. Waters of the new lake will cover the present town of Mannford.
- Search for property on which to locate a million-gallon water reservoir has been launched by the Tonkawa, Okla., city council.
- Progress has been reported in the efforts of three industrial firms in Pryor, Okla., to set up an authority to handle the disposal of waste water from their plants as a step toward the solution of the pollution problem in Pryor Creek.
- Final plans and specifications for a new sewage treatment plant and sewage interceptor lines were approved by the Claremore, Okla., city council. The project will be financed through a \$396,000 bond issue by the city and a \$151,000 grant approved by the Federal Health Department.
- M. J. Harvey, Pres., Tyler Pipe & Foundry Co., Tyler, Texas, has been named by the East Texas Chamber of Commerce as its "Man of the Month" for September. Harvey pioneered the cast iron pipe industry in the Tyler area more than 20 years ago.
- Bell County WCID No. 4 has asked the Texas Board of Water Engineers for approval plans for a \$50,000 bond issue to finance expansion of its lines.
- Victor Braunig has been named general manager of the San Antonio River Authority, replacing the late J. L. Dickson. Braunig is the San Antonio Basin's member of the US Study Commission.
- The Texas Board of Water Engineers has approved plans for a \$260,000 water and sewer bond issue for Fort Bend County WCID No. 2, to build additions to the systems serving Stafford and Missouri City.
- The Texas Water Development Board is trying to get restrictions eased on the \$100 million it has to lend to water districts and cities. It passed a resolution asking the Legislature to raise the amount it can lend to a single project from \$5 million to \$15 million. Present restrictions say the WDB can only finance up to one-third of a project.
- The Tarrant County (Texas) WCID No. 1 has applied for a permit to build a reservoir on the Trinity River West Fork in Wise County at the Boyd site, which engineers estimate would yield 11,210 acre-feet yearly to augment Fort Worth's water supply. This project was one phase of a compromise worked out in the fuss in Fort Worth over the Cedar Creek project.
- Sherman, Texas, has approved a \$550,000 water and sewer bond issue.
- Belton, Texas, has employed Marvin Turner Engineers to make a study of its water and sewer needs.
- Houston County (Texas) WCID No. 1, which now includes only the City of Crockett, may expand to cover the whole county, to seek an industrial water supply.



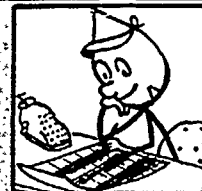
WATER LINE to Florida Keys was repaired in four days following Hurricane Donna, the Nation's first "billion dollar storm." Even before the storm had run its course, machinery was set in motion to repair the 125-mile water line extending from the pumping station in Homestead, Fla., to the tip of the badly battered Florida Keys. Setting emergency plans into action, the US Navy dispatched a plane to the Bradford, Pa., plant of Dresser Manufacturing Division, where the company supplied 100 16-inch water-line couplings for air lift into Miami. Photos show, left, how only the more exposed sections of pipeline were destroyed; right, workmen clear away debris prior to installation of new section of pipe.

—Photos courtesy Dresser Mfg. Div.



from the secretary

• by **LESLIE A. JACKSON**, Secretary, Treasurer
Southwest Section, American Water Works
Association and Manager, Little Rock Municipal
Water Works, Little Rock, Arkansas



Galveston Convention has come and gone. Texas won the Southwest Section, AWWA, trophy in the annual membership contest. It's sort of a complicated formula in figuring the methods and we won't go into them here. But it was a tight fight.

It was a real pleasure to see the hard-working Texas Trustee last year, Ralph Hardy, step up to the head table on Monday Oct. 17 and receive the trophy from AWWA Pres. Caesar Wertz.

Later in the convention, Pres. Wertz, who had been working under the handicap of the flu bug for 10 days, dropped out of the picture and had to be hospitalized. He still was able to catch a plane home Wednesday afternoon and missed the Manufacturers' Dinner-Dance. Hope he will take care of himself and hope that he is well on his way back to recovery. But Galves-

ton made him feel right at home in one manner. Wertz, as you know, is from Miami. Tuesday afternoon the dnerest shower developed and it kept falling all night and into the next morning. Nearby there was a couple of twisters. This was a very small size "Donna," but he did have this sort of welcome. He's a grand guy.

All of the former Southwest Section AWWA Trustees worked hard on the membership desk. Final report of just how many were signed as AWWA members will be known later, but a real big batch of new applications are to be processed.

Jim Corey from AWWA office and Jim Milligan from Mueller Co. handled the publicity on this Southwest Section, AWWA, convention. If you were in attendance or were on the program, the chances are good that you had a publicity release sent to your

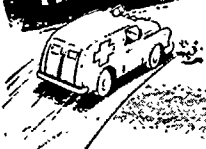
local newspapers, radio, and television stations. These gentlemen did a bang-up job and we are all proud to have had them with us and to work with us.

Lind Nelson and his co-workers in Galveston put on a very fine convention. San Antonio has something to shoot for next year, just as Galveston did this year, following the 1959 New Orleans Convention. A lot of thanks and appreciation must go to Nelson and the department heads and fellow citizens who worked so long and so hard and made it look so easy. Please ask us back soon again.

Trying to get all the loose ends gathered and the records up to date after this convention will make this report short. Next month it will have a lot of facts and figgers for you. Right now here are some recent changes in the Southwest Section, AWWA, membership records:

NEW MEMBERS

A. C. Lock, Jr., Cushing, Okla.
John L. Bletsch, Baytown, Tex.
Eddie H. Harvill, La Marque, Tex.
Alfred F. McConnell, San Antonio 12, Tex.
Raymond A. Riley, Water Division, Houston, Tex.
F. H. Whitley, Dept. of Prev. Med., AMSS BAMC, Ft. Sam Houston, Tex.
Harold A. Brady, Abilene, Tex.
Oren Brakeville, DeQueen Municipal Water Works, DeQueen, Ark.
C. Richard Burnett, Water Supt., Longview, Tex.
Wallace H. Campbell, Hersey-Sparling Meter Co., Dallas, Tex.
J. Harold Clary, Oper. Engr., General Water Works Corp., Pine Bluff, Ark.
Frank L. Fleming, L & W Supt., City of Cordell, Cordell, Okla.
Joseph N. Emmons, Sales Repr., Pipe Div., Johns-Manville Sales Corp., El Paso, Tex.
Lee C. Emory, Field Repr., Marvin Turner Engrs., Inc., Austin, Tex.
J. C. George, San. Engr., Arkansas State Health Dept., Little Rock, Ark.
Cornelius S. Gooch, Reg. Service Engr., B-I-F Industries, Inc., Dallas, Tex.
Charles T. Gordon, Water Treatment Chemist, Lake Hefner Water Treatment Plant, Oklahoma City, Okla.
Richard W. Gray, Mgr., Weiner Water Works, Weiner, Ark.
Arthur N. Green, Plant Mgr., Stauffer Chem. Co., Bastrop, La.
Fay N. Hansen, Dist. Engr., U. S. Geological Survey, Surface Water Branch, Baton Rouge, La.
J. P. Hart, Water Treatment Chemist, Oklahoma City Water Dept., Oklahoma City, Okla.
Lee Conrad Herwig, Jr., Lawton, Okla.
James F. Horne, Supt. of Water Dept., City of Duncanville, Duncanville, Tex.
Wilson Bradley Jones, Water & Sewage Supt., Longview, Tex.
Wm. Donald Kennedy, Mgr., El Jardin Water Co., La Porte, Texas.
Chas. L. Kimberling, Chief Engr., Water & Sewer Dept., Tulsa, Okla.
Murry W. Reichen, Office Manager, General Waterworks Corp., Pine Bluff, Ark.
Walerian Slenkiewicz, General Foreman, City Water Works, Victoria, Tex.
J. Smith Tucker, Supt. Public Works, City of Marion, Marion, Ark.



Waste Treatment

WITH 

FIRST AID For

WHAT IS BIONETIC?

• BIONETIC is a dry powder of preserved beneficial groups of micro-organisms that accelerate natural biological action to break down wastes.

WHAT DOES IT DO?

"Internationally used by leading Municipalities, Industries and Institutions"

CLEANS COLLECTION SYSTEM LINES:

BIONETIC reduces accumulation of grease and sludge in collection systems and lift stations, maintaining flow capacity at a maximum. Thus the treatment process is improved because of the cleaner lines.

CONTROLS ODORS:

BIONETIC reduces and eliminates odors in Imhoff Tanks, sludge digestion tanks, lift stations, sludge drying beds and trickling filters. Reduces hydrogen sulfide production in collection systems.

The above facts are field-tested and proven for BIONETIC ONLY. Don't accept substitutes. Bionetic is a registered trade-mark of Reliance Chemicals Corporation. Look for the name BIONETIC before you buy.



Reliance Chemicals

CORPORATION

P. O. Box 19343 • Houston 24, Texas

[illegible]